

SEA LIFE PARK TURTLE

1970s - 1990s

G.H. BALAZS FILE

PART 2
of 2

CORRESPONDENCE AND ARTICLES

NOT CHRONOLOGICAL

SEA LIFE PARK

VOLUNTEER DOCENT PROGRAM
TRAINING AND INSTRUCTIONAL WORKSHOP TENTATIVE SCHEDULE
-Fall 1979-

<u>DATE</u>	<u>TOPIC</u>	<u>LECTURER</u>
July 13	Orientation	Marilyn Lee
July 16	Invertebrates of the Ocean--A Microcosm	Lytha Conquest
July 18	Tidepool Walk	
July 23	Fish Observation	Bob Bourke
July 25	Fish Dissection	Bob Bourke
July 30	Oysters and Pearls	Marilyn Lee
August 1	Whales	Ingrid Kang
August 6	Dolphin Observation	Marlee Penner
August 8	Penguins -Rock Hoppers	Carol Chang Tanya Bova
August 13	Sea Birds of Hawaii -Care & Treatment of Injured Birds	Cindy Cookinham Dorothy Babineau
August 15	Sea Turtles of Hawaii	George Balazs
August 20	Plant Discovery	Mark Charbonneau
August 22	Sea Lions and Seals	Ingrid Kang
August 27	Precious Corals of Hawaii	Diane Christensen
August 29	Maui Divers Coral Factory	Diane Christensen
August 31	Evaluation by Groups Practice Sessions	Marilyn Lee
Sept. 5	Evaluation by Groups Practice Sessions	Marilyn Lee

*Sessions are held in the Conference Room, Oceanic Institute--beginning promptly at 9:00 a.m.

SEA LIFE, INCORPORATED:

PARK: Makapuu Point • Waimanalo, Hawaii 96795 • Phone 259-7933

SEA LIFE PARK



May 24, 1979

George Balazs
Hawaii Institute of Marine Biology
Coconut Island
P.O. Box 1346
Kaneohe, Hawaii 96744

Dear George,

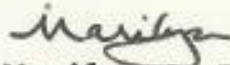
Thank you so much for participating as a lecturer in the Sea Life Park Training and Instructional Workshop for Volunteer Docents. Your special expertise made our program a valuable and beneficial experience for the docents.

I am planning to begin the Fall 1979 Training and Instructional Workshop for new volunteer docents on July 13th. A tentative lecture schedule has been set--if there is a conflict in your schedule, please inform me as soon as possible.

Hawaii Pacific College is in the process of evaluating the workshop content for a possible 3 semester units of credit. The curriculum review committee would like a resume for each lecturer involved with the workshop. Therefore, I would appreciate it if you would supply me with a copy of your resume. Enclosed is a "suggested resume outline" if you need to develop or update yours. Kindly send me your resume by June 6th.

Again, thank you for your support and enthusiasm in promoting marine education for all! Hope to hear from you soon!.

Aloha,
SEA LIFE, INCORPORATED


Marilyn C. Lee
Education Coordinator

Enclosure

ML/mh

SEA LIFE, INCORPORATED:

PARK: Makapuu Point • Waimanalo, Hawaii 96795 • Phone 259-7933

SALES OFFICE: 2222 Kalakaua Avenue • Suite 1309 • Honolulu, Hawaii 96815 • Phone 923-1531

Suggested Resume Outline

I. Name:
Address:

Telephone:

II. General Background:

III. Work History: (List jobs in inverse chronological order)

1. Dates of Employment
2. Employer, address, nature of business
3. Position you held
4. Describe for each job:
 - job duties
 - scope of responsibility
 - accomplishments

IV. Military Experience (if applicable)

1. Dates of service:
2. Branch of service:
3. Duties performed:

V. Education: (list in inverse chronological order)

1. College/Graduate School/Continued Education: major, minor, degree, date received.
2. Additional Training
3. Professional Certificates or Licenses
4. Scholarships and honors

VI. Special Skills

Professional Contributions, Achievements, Hobbies, Outside Interests.



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Southwest Fisheries Center
Honolulu Laboratory
P. O. Box 3830
Honolulu, Hawaii 96812

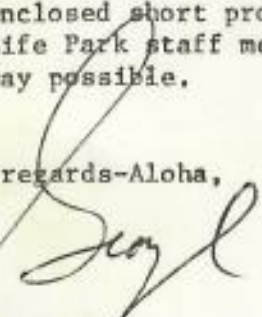
25 March 1981

Jasman Wong
Steve Kaiser
Sea Life Park
Waimanalo, Hawaii 96795

Dear Jasman and Steve:

The enclosed short proposal is being sent for your consideration at the next Sea Life Park staff meeting. As usual, I would be pleased to help out in any way possible.

Best regards-Aloha,


George Balazs



KAUPO FALLS

Lush, green, Kaupo Falls is inhabited by several species of water fowl. This polynesian garden is surrounded by native kaawe trees, and many specimens of Hawaii's exotic plants. A taro patch thrives much as it did hundreds of years ago in an ancient Hawaiian fishing village. Placid pools beneath cascading waterfalls surround a central stage. Special polynesian shows, luaus, weddings and private parties are often held in this beautiful new addition to Sea Life Park.

Admission: Adults \$3.95; Children 7-12, \$2.25, Under 7 Free (when accompanied by a parent). One admission covers all shows.

Continuous Shows from 9:30 a.m. daily. Last series of shows begins at 3:15 p.m.



SEA LIFE PARK

Contact your travel agent or hotel travel desk.

PARK:

Makapuu Point, Waimanalo, Hawaii 96795 / (808) 259-7933

WAIKIKI OFFICE:

2222 Kalakaua Avenue, Suite 1309
Honolulu, Hawaii 96815 / (808) 923-1531

Hawaiian Holidays Travel Desk
Ilikai Hotel
Phone 955-0892

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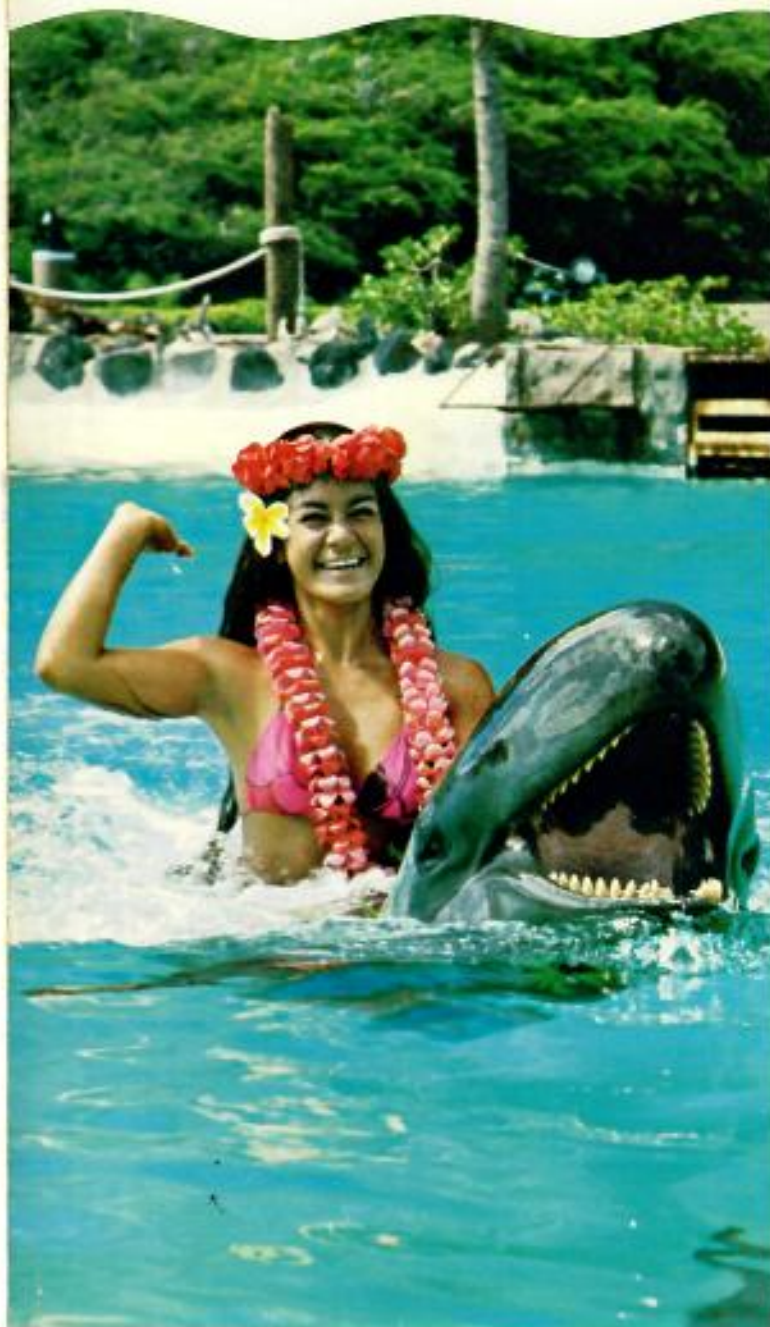
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Ilikai Hotel

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Hawaii's World Famous

SEA LIFE PARK





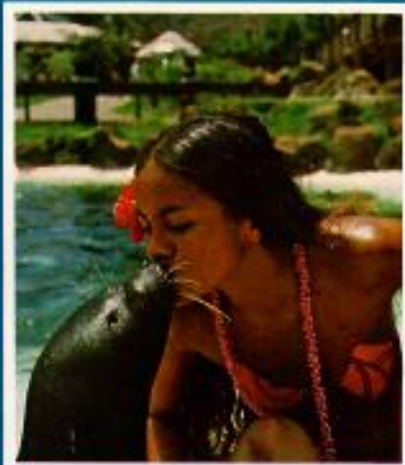
SEA LIFE PARK BY DAY . . . Continuous Shows Seven Days a Week!

A breathtakingly beautiful drive is just the beginning. The road skirts Diamond Head, meanders through our loveliest residential area, then climbs the rugged ocean cliffs of Koko Head National Park. Every curve reveals a spellbinding new vista. You'll see the island of Molokai on the horizon, Blow Hole, Makapuu Point lighthouse and beneath the awesome Koolau Mountains, Sea Life Park lies snuggled in its own historic setting.

OUR 300,000 GALLON HAWAIIAN REEF TANK—you'll stroll down a spiral ramp three fathoms beneath a recreated offshore Hawaiian Reef, where sharks, barracudas, moray eels, manta and sting rays, and a brilliant assortment of Hawaii's colorful reef fish swim by just inches away. Watch a scuba diver slip over the side to handfeed the 2,500 sea creatures several times a day.

WHALER'S COVE FEATURES HIGH-JUMPING TROPICAL KILLER WHALES.

1600-pound tropical killer whales that leap on command; porpoises that do the hula and shoot sky high; and a lovely polynesian girl that rides on a whale's back. The replica of the famous whaling ship "Essex" is the stage for the excitement of Whaler's Cove polynesian pageant.



TOSS A FISH TO THE SEA LIONS. The Sea Lion Feeding Pool has become one of our most popular attractions. Seals, Sea Lions and Hawaiian Red-Footed Booby Birds await a fish handout from a generous visitor. They bark for their supper and barge a "mahalo"; a great spot for photos and family fun.

OCEAN SCIENCE THEATER — WHERE DOLPHINS PLAY. In this circular glass amphitheater, trainers teach the friendliest of marine mammals. If you've ever wondered why dolphins are so smart, or about their very special role in marine research and how they are trained, Ocean Science Theater is a must. With the help of our comical Humboldt penguins, you'll be uniquely entertained.

THE GALLEY RESTAURANT. Snack on our famous Seven Seas soup, a



mahimahi sandwich, or a great burger or swill cool cocktails at the Spouter Deck. The Galley is a popular oasis for the hungry or thirsty.



A PROPOSAL TO UNDERTAKE THE BREEDING
OF HAWKSBILL TURTLES IN CAPTIVITY AT SEA LIFE PARK

by

George H. Balazs
National Marine Fisheries Service
and
Hawaii Institute of Marine Biology

March 1981

Background

Three hawksbill turtles (Eretmochelys imbricata, an Endangered Species) are in captivity for commercial display purposes at Sea Life Park on the island of Oahu. The largest of these animals is a female of Hawaiian origin measuring 86 cm in carapace length that has been at the facility since the 1960s. The second largest is a 79-cm female that is the sole survivor of four hawksbill transferred to Sea Life Park by the author during 1974. These four turtles were originally obtained as hatchlings from Western Samoa in March of 1972. The third and smallest hawksbill (73 cm) is a male that was found as a hatchling at Malakahana Bay on Oahu in January of 1975.

The two female hawksbills are presently being held in Sea Life Park's "turtle lagoon" along with 19 green (Chelonia mydas) and two loggerhead (Caretta caretta) turtles. The male hawksbill resides in the Park's reef tank display along with a single 75-cm green turtle. During recent months the male has been repeatedly observed attempting to mate with the green turtle. It is not known if actual copulation has taken place, but such an occurrence is a distinct possibility. The male's tail has exhibited significant lengthening and enlargement, however, the size and characteristics of a fully mature adult have not yet been obtained.

The approximate ages of the three hawksbills are as follows:

86-cm Hawaiian female	>20 years
79-cm Western Samoan female	9 years
73-cm Hawaiian male	6 years

Experimental Procedure

An appropriate time has been reached to undertake a small breeding project with the hawksbills at Sea Life Park. As a first step, each female should be brought together with the male during separate time periods. Considering the smaller and therefore presumably more compatible size, the female from Western Samoa appears to offer the best possibility for copulation taking place. Each female could be alternately introduced into the reef tank display where the male is now located.

Another option would be to transfer the male-female pair to one of the holding tanks situated outside of the Park's display area. It would not be advisable to move the male to the turtle lagoon display due to the presence of relatively large numbers of turtles of different species.

The artificial sand beach associated with the turtle lagoon has been successfully used for nesting and hatchling production by green turtles in both 1976 and 1980. Hawksbills in the wild are generally less discriminating than green turtles in their nesting site requirements. It is therefore reasonable to expect the captive hawksbills at Sea Life Park to use the artificial beach should they become gravid.

The green turtle that has been the focus of the male hawksbill's attention and possible fertilization should eventually be transferred from the reef tank to the turtle lagoon so that access exists to a nesting beach. Although rare, specimens thought to be hybrids of the hawksbill and green turtle have been reported from other areas of the world.

Outcome

The breeding and successful production of hawksbill hatchlings in captivity at Sea Life Park would constitute the first case for this species known to the author. Few facilities that display sea turtles are equipped with a sand beach, consequently, the opportunities for captive breeding are currently very limited. Further achievements in this field by Sea Life Park will promote sea turtle conservation and serve as a model for other marine display facilities.

January 21, 1986

P/SWC2:GHB

Dr. Katherine Muzik
Okinawa Expo Aquarium
424 Ishikawa Motobu-cho Okinawa
905-03 JAPAN

Dear Katherine,

Many thanks for providing such detailed information on the Okinawa and other leatherbacks in captivity in Japan. They are really interesting cases because most researchers think that large specimens will only survive in a tank for a very short period. Also, squid is not normally considered as part of the leatherback diet. However, your experience certainly proves that it can work.

I hope you don't mind, but I've taken the liberty of sending a copy of your letter and newspaper article to the editor of Marine Turtle Newsletter. I've suggested that he run a short news item to let others know about this interesting subject.

Yes, please feel free to photocopy and distribute as you wish any of the reprints I sent. If there is any other way I can be of assistance, please do not hesitate to contact me.

Sincerely,

George H. Balazs
Zoologist

cc: Balazs ✓
HL

January 21, 1986

F/SWC2:GHB

Dr. Nat Frazer
Editor, Marine Turtle Newsletter
Biology Department
Mercer University
1400 Coleman Avenue
Macon, GA 31207

Dear Nat,

Someone recently told me about a leatherback at the Okinawa Expo Aquarium, so I sent off a letter of inquiry to obtain details. Copies of the correspondence are enclosed for your information. I thought that possibly you might want to compose a note on this subject for the Newsletter. I was not previously aware of large leatherbacks staying alive in captivity for anything more than a short period of time. Also, the successful use of squid and mackerel as captive food sources is contrary to existing information in the available literature. See for example MTN 3:6, although this report deals with hatchling leatherbacks.

Years ago there was a large leatherback brought to the Waikiki Aquarium after becoming entangled in fishing gear. However, it died a short time later, like all the others I had read about.

Sincerely,

George H. Balazs
Zoologist

cc: Balazs ✓
HL

Sea Life Lines

SEA LIFE PARK EDUCATION DEPARTMENT

Volume 1, No. 4

May-June 1982

NATIONAL RECOGNITION FOR VOLUNTEERS

Held in the month of April, National Volunteer week is a special time when various organizations like Sea Life Park have a chance to formally recognize and honor the people who share their time and talents in volunteer work.

By having a volunteer program, the park benefits in many ways. For the last three years, volunteers have assisted the staff in daily routines and marine education programs. This has allowed the staff to work on department projects in need of attention, work which may not have been possible without the extra help provided by the volunteers.

New ideas come with each volunteer. One volunteer is envied by fish collectors for his ability to capture and successfully rear the young of a highly prized food fish. His talents and advice are sought by many ocean-oriented organizations on Oahu. Even small improvements like making vocabulary cards to use as visual aids for a marine education program can greatly enhance the teaching and learning process.



Volunteers receive practical experience at the park. Some have been directed into future career possibilities as a result of their involvement...in aquaculture research, marine education program work or teaching...volunteer experience does count on job applications in today's job market!

Volunteers expect good use of their valuable time and so do the staff. By working through a symbiotic relationship, where both participants benefit, as in the reef-building coral and algae, rewarding experiences can be achieved by both. Zoos, museums, aquariums, Sea Life Park in particular, have realized the

Mildred Bachman, right, assists a visiting school teacher at the Sea Life Park Gatehouse.

...various of volunteers, provided meaningful volunteer programs and have appreciated the extended services which are now being offered to the public through these programs.

MILDRED BACHMAN - A VERY SPECIAL VOLUNTEER

In recognition of National Volunteer Week, we would like to honor Mildred Bachman - a very special volunteer. She joined the Education staff in March of 1979 when the department was just beginning to develop on-site marine education programs for visiting school and educational groups.

She is always doing an "extra little something" for both volunteers and staff. During the first Volunteer Docent Training and Instructional Workshop, held in the evenings at Oceanic Institute, Mildred would frequently bring tasty snacks (kamaboku dip, crackers and ham-cheese balls), stay until the final clean up was completed and provide a lot of interest and support to the program and its coordinator.

Since the need for props and supplies developed, Mildred always had the right contacts to obtain items such as poi-eating utensils (not fingers!...ice cream spoons), information and samples from the Plant Discovery Learning Station, gallon mayonnaise jars for storing and cleaning props.

As a retired teacher for the Hawaii State Public Schools, Mildred continues to enjoy sharing her knowledge with others. She became a Plant Learning Station volunteer docent for the sixth grade level on Friday mornings. Even before the staff arrived, she was out picking plant samples, setting mosquito punks, and pounding (!) poi. Mildred also presented the Penguin Learning Station on Wednesdays to fifth graders.

Currently as a grade level leader for the Wednesday and Friday morning volunteer docents, Mildred does a fine job of keeping everyone happy during their time at the park. "Everyone" meaning teachers, students, docents, and park staff. Favorite words of experience are often shared by Mildred to new docents when times seem tough...

Each morning we were scheduled to have a school group, I hand-carried the learning station props from the Education Building to the park and gave four presentations in about one hour -- by myself! That is when we first started! You people have it easy! ...with team members, grocery carts for props, and only one or two presentations for each docent to give in the morning." Though Mildred is a tough Grade Level Leader, she's a real softy, too. Special holiday decorations, treats and praise make us all feel pampered.

As of this date, Mildred has accumulated 230 hours of volunteer time for Sea Life Park's education programs. Of course, she has obtained SUPER HOALOHA (Super Friend) status! With grandchildren, dog, clubs, 4-mile hikes to the hang-gliding site in preparation for her Great Wall of China experience this summer...we certainly hope Mildred will continue to find time for Sea Life Park.

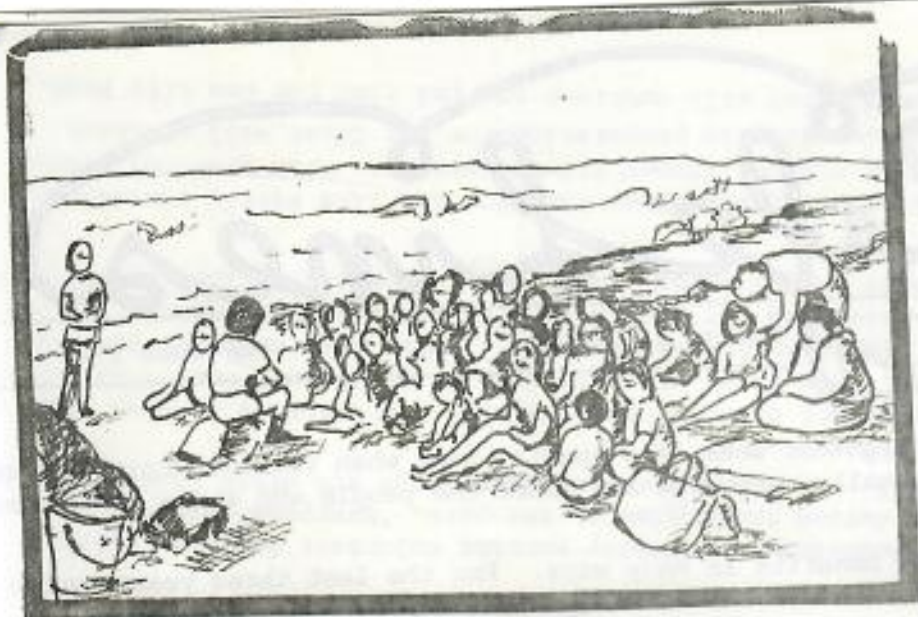


Illustration by Jane Jones, 1982.

Tidepooling

"Oooh...what is that?" "Watch your step! Animals live around here!" "I think my hermit crab will win the race!"

These are some of the expressions heard during the Sea Life Park volunteer, staff and family tidepool excursion. The special event took place on one of this year's few bright, sunny, albeit windy, mornings, March 25.

Close to 50 people, aged six months to sixty years, gathered at Queen's Beach to learn about and experience the tidepool environment and its inhabitants...invertebrates, fish and algae.

Staff member and tidepool enthusiast Mary Pickett, was unable to join the eager group. "I would have to get sick when my favorite thing to do was happening!" Guidance for the morning's events was provided by Marilyn, generously assisted by everyone, and in particular Jane Jones, Joe Martino and Barbie Thorstad. Barbara Cargill, head accountant for the park became chief "water bucket lady," hauling buckets of salt water from the beach to the observation boxes!

After a brief introduction to the characteristics of tidepool environments and a review of safety rules, the exposed coastal rocks became awash with avid tidepoolers. By 11 a.m. the group reassembled to sort the animals into the various observation boxes set up for each phylum. This independent learning was aided by charts with pictures and information.

Marilyn, Barbie, and Jane, with a lot of input from Maralyn Smith's sons, discussed the various species and all were able to have a closer look at the marine organisms found. A few special specimens, including a large red Spanish Dancer nudibranch (*Hexabranchus sanguineus*) found by decent Clyde Kakazu, were placed in Joe's portable "car aquarium" to bring to the park for the education program. All other organisms were carefully returned to their natural habitats.

The probable highlight, especially for a betting person, was the hermit crab races. Several fiesty entrants ran the preliminary heats. The finals narrowed down to a carefully tended crab belonging to Susan Rogers, swimmer in the Whaler's Cove Show, and two other crabs managed by a pair of youngsters. Darin Tonaki (5-year-old son of volunteer curriculum writer and teacher, Ann Tonaki) and his crab won with no problem at all. Susan is still trying to figure out

why her crab couldn't get moving....did he fall asleep?

As the tide rolled in, sack lunches, relaxation, and a limu (seaweed) pressing session completed the morning's events. If you missed out on this fun-filled learning experience, don't miss those to come in the future. Announcement will be made. Come join us!

EXTRA ENERGY AROUND THE EDUCATION DEPARTMENT.....

EIGHT NEW HOALOHA VOLUNTEERS

Congratulations are in order for eight volunteer docents and volunteer students who have achieved "HOALOHA" (Friend) status in March and April by contributing more than 40 hours of service to Sea Life Park. They are:

<u>Volunteer</u>	<u>Area</u>	<u>Hours</u>
Bill Smith	Corals	42
Paul Domke	Fish Dissection	41.5
Stella Collins	Plants	46
Sonja Lindberg	Seabirds & Training	61.5
Shirley White	Penquins & Invertes	53
Ridgely Keeley	Whales	46
Monnie Gay	Training	53
Kathy Vinson-Mack	Training	67.5

NEW PEOPLE BABIES ON THE SCENE!

Marine animals aren't the only expectant and new parents at the park. There are people babies too! Stella Collins' new daughter Kainani Christine was born March 22, weighing 7 lbs. 1 1/4 oz. Barbara Culliney has a new daughter also. Barbara and husband John were still working on names at press time with Moana more or less agreed upon for the baby's middle name.... until a final decision is reached she is being referred to as "Boomer." She arrived just when due on April 21, weighing 7 lbs. 4 oz. On the staff, Tim Guild, head of the maintenance department, and Bob Requilman, manager of the Sea Chest, are both expectant fathers.

NEW PLANT LEARNING STATION DEVELOPED BY BARBARA CULLINEY

Barbara Culliney has developed an alternative format for the Plant Discovery Learning Station which features many of the Hawaiian endemic and indigenous seashore plants found along the walkway behind Whaler's Cove. This new learning station helps children understand the special adaptations these plants have made to live in a seashore environment with wind, intense sunlight and salt air. The presentation also helps children realize the importance of plants to all life and explains why we should "write a thank you letter to a plant".

The station still retains that popular taste "sense-sation" - freshly made poi. As one sixth grader wrote to Barbara, "This isn't just an ordinary thank you note. I really did like your learning station and I learned alot too. Even though I've been to Sea Life Park hundreds of times, I didn't know those things about the plants. It was interesting to know what plants do that are similar to what people do, (adaptations)....Thanks again!"

SPECIAL THANKS TO KENT KEELEY FOR CREATING THREE BEAUTIFUL NEEDLEPOINT NAMETAGS FOR USE BY DOLPHIN AND WHALE DOCENTS. THEY ARE REALLY SUPER KENT! (Kent is Ridgely's 8-year-old son.)

SEA



SPRINGTIME MEANS DUCKS GALORE!

Spring Fever has hit many of the stars at Sea Life Park, but the ducks have been especially busy at Kaupo Falls: Ducks or ducklings, anyone? A day-old duckling was abandoned by his mom and adopted by Docent Barbie Thorstad. (She liked him so much she later adopted two more.) Many more eggs are incubating in nests around the falls, so if you would like an excellent watch duck don't hesitate to ask.

NEWS AND NOTES FROM REEF TANK

The Reef Tank staff have collected over 500 fish in the last couple of months so you'll notice alot more Squirrel Fish in the caves and Butterfly Fish near the surface. There is a new octopus in Gallery Aquarium #2. He got off to a good start in his new home due to fresh crabs supplied by crab hunter, John Pickett. In Gallery Aquarium #1, we have three of Volunteer Joe Martino's famous baby Mahi mahi. These little guys are eight or nine weeks old now and about 3½" long, having been carefully nurtured in Joe's home aquarium. After their debut here at Sea Life Park, they will go on display at the Waikiki Aquarium.

The TURTLES are feeling the effects of spring too, with alot of nipping and courting going on and digging in the sand. We suspect several clutches of eggs have been laid so we're expecting baby sea turtles in June.

ROMANCE & WORK AT WHALER'S COVE

POOL AND BEACH ADDED TO SEABIRD SANCTUARY

Our hard-working Maintenance and Landscaping Departments have outdone themselves with improvements to the SEA BIRD SANCTUARY. A 14x17 foot pond with a sandy (would you believe seven truckloads) beach area has been constructed. The seabirds themselves, however, are regarding this fancy new addition with some suspicion and while they have been gently reminded that they are sea birds, they are mostly avoiding the 20-inch depths of their pond. As of Monday, April 26, a few brave birds had been taking the plunge, so it's expected more Boobies (Red-footed, Masked and Brown) and Albatrosses (Laysan and Black-footed) will follow suit. The pool will very much increase the humidity in the area, enabling us to increase the numbers of birds that may utilize the sanctuary as home base for their free-flying colonies.

KOLEA READIES FOR SIBERIAN FLIGHT

Speaking of birds and free-flying, one of the lesser known stars of the park is the Kolea or American Golden Plover (*Pluvialis dominica*), who set up housekeeping last fall in the grassy area between Reef Tank and Ocean Science Theater. In the past month he or she has



Drawing by Kurt Hutchison

At WHALER'S COVE, I'anui and Makapu'u, the two False (tropical) Killer Whales are "at it" again with I'anui being a bit more macho this year in getting Makapu'u's attention. The trainers may be working with one at a time during the shows.

It's not all romance at Whaler's Cove, however. Atlantic Bottlenoses Miki'oi and Kaleo and trainer Marlee Breese are working hard on a spectacular new behavior. While Miki'oi and Kaleo swim side by side at the surface (hopefully), Whalerman Roger Horn rides Ben Hur style, standing a foot on each sleek back. It's similar to the behavior performed by the whales, except alot faster. Roger looks like he's on jet skis. The behavior will be part of the show in a few weeks when all the bugs are worked out and the timing down pat. Already in the show is a "ball whack" behavior worked out by Trainer Kiana Wong and Kaulana, the six-year-old female hybrid offspring of Atlantic and Pacific Bottlenose parents. Kaulana leaps about 15 feet out of the water to hit a suspended volleyball with her tail fluke. Kiana is gradually raising the ball so eventually Kaulana will be leaping a full 25 feet to whack the ball.

OTHER DOLPHIN DATA: Hokulele (leaping star) who misjudged one of her famous leaps and fell out of a training tank, has completely recovered and, thanks to TLC and Vitamin E, is relatively unscarred. Baby dolphin, Kaiko'o, born last August, is growing so fast, his mom seems to be shrinking. He's eating fish now and he definitely has a personality of his own. He seems to enjoy looking at people as much as they enjoy looking at him. He's not one bit shy.

acquired both a mate and fancy spring breeding plumage (dark brown and golden-spotted above, black below; with a white stripe running over the eye and down the side of the neck). The pair will be setting off any day now on their 2,000 mile migration over open ocean to Siberia or Alaska. Studies have shown they accomplish this trip in less than two days, reaching flying speeds up to 60 or 70 miles an hour. Once there, on the barren tundra, they must quickly build a nest, breed and raise their chicks in less than four months, after which they and the young birds must be ready for the return flight in August. We'll be looking for them in that same grassy area between Reef Tank and Ocean Science Theatre.

SEA LIONS AND SEALS CAVORTING

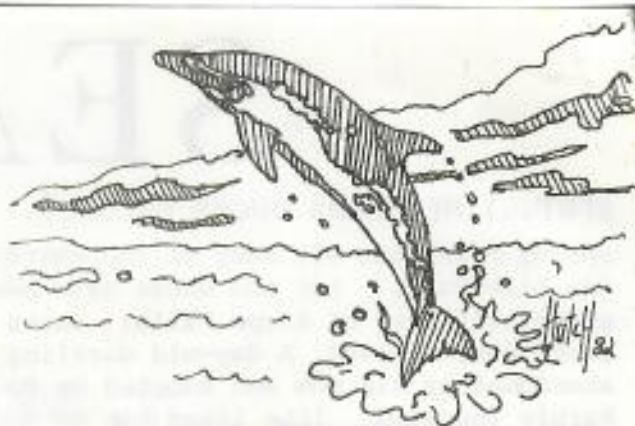
At the SEA LION FEEDING POOL, appetites are way down and libido is up. It's noisier than ever. And next door in the SEA LION NURSERY, the normally quiet Harbor Seals are leaping and cavorting as if imitating the young sea lions that share the pool. The male Harbor Seal has developed a very distinctive snort to apparently bequile the two females, and his behavior on occasion is X-rated. Head Trainer Ingrid Kang says this has happened before and we have yet to have a baby harbor seal...but maybe this year....

+++++
‡ SEA LIFE LINES is produced bi-monthly (more
‡ or less) by the Sea Life Park Education Dept.
‡ Editors: Marilyn Lee & Mary Pickett
‡ Writers: Marilyn, Mary, Jane Jones, Doy Connelly
‡ Artists: Marilyn unless otherwise credited.
‡ SEA LIFE PARK, Makapu'u Point, Waimanalo, HI
‡ 96795 259-7933
+++++

SEA LIFE PARK'S CHILDREN OF THE SEA.....

by Kurt Hutchison

(Editor's note: Kurt wrote this article for the newsletter of the Community Quest Program at Kailua High School. As part of this school program, some of Kurt's semester is spent at Sea Life Park as a docent at the Sea Lion and Seals Learning Station. He has also worked on several art projects and displays in the Education Department.)



As a docent-in training at Sea Life Park, I've had the opportunity to exchange glances with one of my favorite fellow earthlings, the dolphin. Graceful, intelligent, and emotional, they can almost be heard to think as they effortlessly glide through the water.

As I leaned on the railing which separates land dwellers from these cetaceans, I found myself wanting to converse with one of them, to tell them about humans, to give them some facts about walking around on gangly pedestrian appendages and sleeping on flat cushions.

I wanted very much to reach out and touch one of these gentle creatures, but then I thought, "I don't want to make a wrong move or 'say' the wrong thing." It's kind of like trying to speak to a native African through a tourist's translator book.

"I hope one day our species will understand one another," I thought. "There are many stories to share."

* * * * *

EXPERIENCES AND REWARDS AS A VOLUNTEER IN MARINE EDUCATION AT SEA LIFE PARK

by Laura Prados

(Editor's note: Laura is a former docent who is now a full-time student at Kapiolani Community College. She wrote this paper as an English assignment and has kindly let us share it.)

In April of 1980, I joined the Sea Life Park Volunteer Docent Program. After contacting the Education Coordinator, I met with a group of people in a Training and Instructional Workshop that was held three days a week for four weeks. The workshop consisted of twelve lectures and practice sessions that would prepare us for the program.

The program, known as the Sense-Sational Marine Education Program, is set up for fourth, fifth, and sixth grade students. The program is held on Mondays, Wednesdays, and Fridays in which each grade level has a special day. Each school group that comes out for the program is divided into four groups, each of which would visit two of the four stations set up for that day. I was involved with the Dolphin Learning Station on Mondays. I also helped with the Blind and handicapped students who sometimes come out for the Special Presentations on Tuesdays and Thursdays.

I stayed with the program for a year and a half before returning to school. I really enjoyed the

...I made. The program was very satisfying and I learned a lot about our marine world. Sharing what I learned with the children made it a very rewarding experience.

I'm still an active volunteer doing odd jobs around the education office, like making and fixing props for the stations and helping with the Marine Education Through Art classes during the summer. The former Education Assistant called me a professional volunteer. She may be right.

* * * * *

WHO'S WHO AMONG THE VETERAN DOCENTS

(Editor's Note Again: In past newsletters, we have introduced our newest volunteer docents, but with National Volunteer Week upon us April 19-23, we decided to profile our Old Docents...er, the Veteran Docents? ...Experienced Docents?...Seasoned Docents?... We never did figure out quite what to call them. Anyway, here are those wonderful docents who have been an important part of the Education program for longer than a year.)

MONDAY'S DOCENT CREW

On Mondays, **ARDIE COOPER** and **BARBIE THORSTAD** are docents at the Invertebrate Touch and Feel Learning Station. **ARDIE**, an enthusiastic and experienced SCUBA diver has been with us since the fall of 1980. She is constantly bringing in new and interesting specimen to supplement the cast of crabs, shrimp, nudibranchs, urchins and sea stars that delight visiting school children and adults. Outside the park, Ardie is the busy mother of two sons and a daughter and wife to Max, a plastic surgeon who shares Ardie's interest in diving. She is a professional substitute elementary school teacher and a room mother at both Heeia Elementary and St. Andrew's Priory. She is also a regular library volunteer at Punahou's Bishop Learning Center.

Ardie finds time to jog four to six miles a day and she likes to "suck em up, which is good since one of Max's hobbies is making beer.

BARBIE has been volunteering at Sea Life Park since the spring of 1981. A graduate of Oregon State University, Barbie says she is a "packing and moving specialist" having moved 14 times in 11½ years of marriage to Art, a Hawaiian Air pilot. They have two sons, ages 7 and 8, who have both inherited Barbie's bright red hair and enthusiastic grin. Besides her time at the park, Barbie volunteers at Maunawili School and serves as a Cub Scout Den Mother. Her hobbies include sewing, stained class creations and calligraphy. This lost talent is very evident on the set of invertebrate posters that the Touch and Feel created this fall.

Our hard-working Maintenance and Landscaping
POOL AND BEACH ADDED TO SEABIRD SANCTUARY



Spring Fever has hit many of the stars at
SPRINGTIME MEANS DUCKS GALORE!

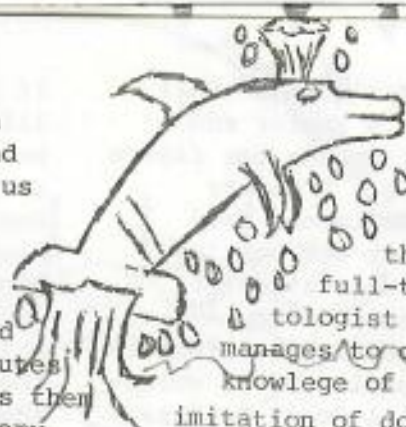
SEA

DOCENT PROFILES (CONT.)

Helping children discover a pearl in an oyster every Monday, are BETTY SMITH and AUDREY GEORGE, who have both been with us since the Fall 1980 Workshop.

BETTY is a so-called "retiree" who is busier than ever. Kids come to the park expecting the spectacular - dolphins and whales leaping about - but in a few minutes her presentation on the quiet oyster has them leaning forward in fascination. Her story on Mr. Mikimoto's long struggle to develop a cultured pearl becomes an object lesson in perserverance. Betty and husband Bill, a Corals docent, have been in Hawaii for 17 years. They have two grown sons. Betty is very active at St. Christopher Church in Kailua and serves on the Board of Directors of the Windward Senior Citizens Center there. This April she and Bill are off to trek the mainland for 3½ months in their VW Camper. Starting in San Diego, they plan to "box" the U.S., hitting Florida, New York and Washington state before they return to Hawaii in September.

AUDREY GEORGE has become our "jack of all stations." Besides Oysters & Pearls, she is also adept at presentations on Sea Birds and Plants. "I want to learn them all," says Audrey. She is retired after nearly 40 years in business with husband, Ray, and they still do occasional consulting for the Kirby Vacuum Cleaner organization. Retirement for Audrey has only meant an enthusiastic expansion of her activities. She swims a half mile every day in the ocean and does hand-writing analysis. "When I came to Hawaii 17 years ago, I told my husband if I were younger I'd work at Sea Life Park. Well, now I'm



JIM PETTETT joined the docent crew in the Spring of 1981 at the Touch and Feel Learning Station and this fall moved to the Dolphin station. In spite of full-time employment as a climatologist with the U.S. Air Force, Jim manages to come out every week to share his knowlege of dolphins...he even does a great imitation of dolphin sonar sounds. A very handy talent since Jim never has to rely on a tape recorder for the "sound portion of his "sense-sational" presentation. Perhaps this stems from his experience with Barbershop Quartets. Last spring Jim led a special excursion to the Waianae Solar Observatory which was enjoyed by his fellow volunteers. He will be ending his Air Force career this fall and plans to go into the computer field.

WEDNESDAY'S DANDY DOCENTS

ELLEN BARKLEY came to Hawaii two years ago from Connecticut, joined the Fall 1980 Docent Workshop and became a sea bird docent. She took time out this fall semester, but rejoined us in January. She's a homemaker with a son and daughter, ages 9 and 5; she works part-time at a retail warehouse and is attending UH evening classes with a goal of a career in retail management. She still finds time to be basketball and baseball team mom and join both her children in horseback riding lessons. Ellen and her family will be returning to Connecticut in July. We will miss you, Ellen, and so will the sea birds.

Sea Life Park's famous Humboldt Penguin, Fat Fred, has many fans and admirers, but few are probably as interested in penguins as PAT WIENCKE

older and I work at Sea Life Park and I just love it."

Veteran Docents at the Fish Observation

Learning Station are SATTIE BEARDEN and

HARRIETT GIBERT. Sallie, a volunteer since

Fall 1979 has also taught at the Seals and

Sea Lion station. A former social worker,

she plans to get back into the field when her

three children are older. In the meantime

Sallie is a room mother, Sunday school teacher

and PTA officer. She is famous for her home

industry: creatively delicious decorated cakes.

She enjoys sailing, boogie boarding, swimming

and reading. With the assistance of daughter,

Carrie, she has even found time to successfully

home nurse several ailing and injured land and

sea birds brought to the park. Sallie's husband,

Jim, is a cancer researcher at the UH.

HARRIETT has been a docent since Fall 1980, and

has also taught Oysters and Pearls. She's the

lady in the spiffy straw hat who has learned

all the Hawaiian names of local reef fish and

loves to "talk story" about fish. Harriett's

students often share information and experiences,

so she claims she learns as much as she teaches.

An avid snorkeler she has plenty of her own

observations to share also. Professionally,

she is a nursing supervisor at Kaplana Child-

ren's Hospital. A Kailua resident, she has 4

grown daughters who share her love of the ocean.

by Sean Matlime

Grade 5

Kamiloiki School



cats.

a poi dog who beat out 200 other dogs for the

trophy at obedience class, and two pedigreed

Angela's love of animals is reflected by Sallie

director at Oceanic Institute. At home,

is administrative assistant to the research

She has two grown children...daughter Victoria

for a 3-day vacation and has been here ever since

India. Seventeen years ago she came to Hawaii

Washington, D.C. and has lived in England and

was educated in Switzerland, Italy and

researched. Angela grew up on the East Coast

material on sea lions and seals which she has

is continually enlarging our files with new

been learning more about them ever since. She

Fell in love with sea lions and seals and has

joined the VDP in the Fall of 1980

ANGELA ISAAK

logue our small, but growing, collection.

library, helping us set up and properly cata-

has helped as a consultant to the Ed. Dept.

daughters wore a hand-sewn penguin costume. Pat

around last fall...you guessed it...one of her

subject is penguins and when Halloween rolled

research paper due, as often as not the

penguin presentation! "When there is a

falls, I just give the kids a 25-minute

plans. "But I never worry...when all else

teaching, often at short notice with no lesson

her busy life. She does alot of substitute

manages to tie penguins into most aspects of

a master's degree in library science, who

elementary school teacher currently working on

Station since the Fall of 1980. Pat is an

who has been handling the Penguin Learning

Dolphin drawing

above by Christopher

Duenas, Grade 4

St. Patrick's School

Docent Profiles (Cont.)

KAY ALLEN, sea turtle docent since the Fall of 1980, describes herself as a loafer and a self-defense instructor, but nobody can figure out when she does any loafing. A former medical technologist, she has become very interested and concerned about sea turtles. She willingly tackled the preservation of turtle eggs and embryo to share during regular SMEP days and at Special Presentations and events. Kay is also coordinator of volunteers at Bishop Museum, a Girl Scout leader, active in League of Women Voters, her church Sunday School and at Koko Head Elementary School, she's been everything from "janitor to PTA president and carnival chairman for 5 years. Kay and her husband have 3 daughters, ages 11 to 15. We also know Kay devours paperback books, is a gourmet cook, loves to redecorate houses and is always willing to play bridge. So when does she loaf? Maybe between 3 and 4 a.m. every other Thursday!

A FANTASTIC FIVE FROM FRIDAY

BILL SMITH and JANE JONES are the coral experts on Fridays. Jane has been a volunteer docent since Fall 1980 and has since become a park employee as a Whaling Museum Lecturer. (Next issue we will highlight volunteers who have become employee...watch out Jane...your "life lines" will be found there!

BILL probably couldn't help becoming a docent with his wife Betty so enthusiastically involved. He started helping out in the spring of 1981 and then joined the Fall 1981 docent workshop. He retired in 1979 as a production engineer with the U.S. Navy at Pearl Harbor Shipyard. Growing up near the Atlantic Coast in New York and years with the Navy left Bill with a deep interest and love for things nat-

If PAUL DOMKE ever writes the book about his life that we keep urging him to write, it will be an instant seller among his many friends at the park. From 1937 to 1939, he taught English in China, returning to the U.S. for a degree in zoology from Carleton College in Minnesota. He was back in China for 3 years during WWII with the U.S. Army under General Stillwell and from 1946 to 1966 he was with the Foreign Service in Washington, D.C., Indonesia, Japan and Hawaii with travel throughout Asia and Europe. Among many experiences was escorting a pair of Pandas from Hong Kong to San Diego long before we received those famous Pandas of the Nixon era. He was dean of admissions and foreign student advisor of Hawaii Loa College from 1966 to 1974 and has been a travel consultant organizing group tours to China. He joined SLP volunteers in Fall 1981 and has been dissecting fish ever since. In Feb he organized a whale watch tour to Maui for 59 park volunteers, staff and friends. Paul and his wife, Paye, have two grown children.

MARALYN SMITH is the third docent who can make sense out of a fish's insides. With the VDP since the Fall 1980 Workshop, she has also operated the Corals Learning Station. Maralyn has a no-nonsense, let's-get-it-done attitude, which applies to her work at Sea Life Park and many other volunteer projects she has undertaken. With her family moving about every year and half in the 12 years prior to their coming to Hawaii, Maralyn found herself organizing babysitting co-ops in various cities and establish chapters of a national group called Questors, for people interested in history and antiques. In Iowa she helped establish an organization that arranged adoptions of Vietnamese/American orphans and sponsored

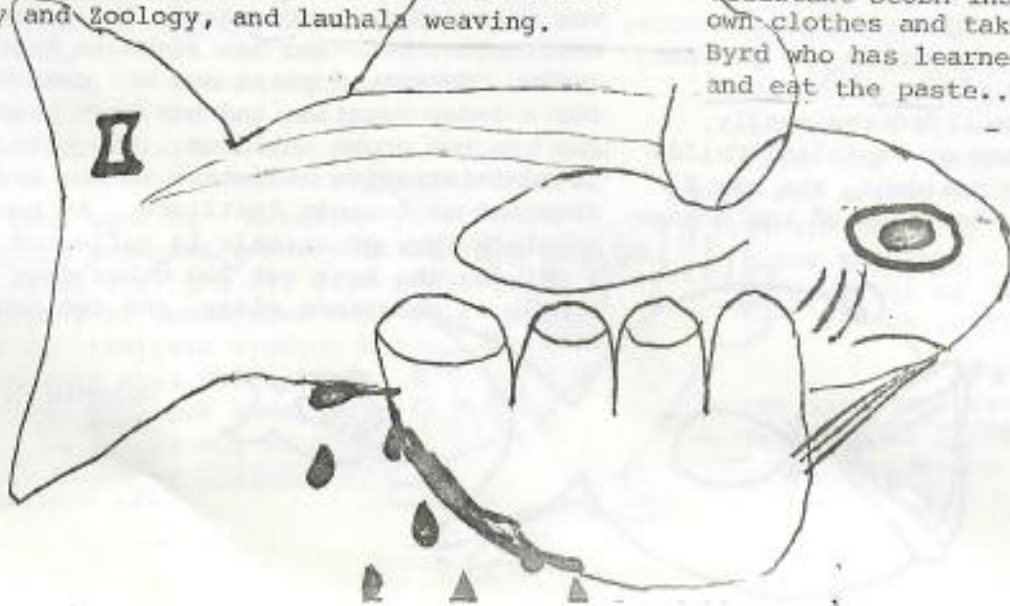
ted to the ocean. He has recently become especially interested in marine invertebrates and has added tidepooling to his ocean hobbies of fishing and snorkeling. He is also vice president of the Windward Senior Citizens Center.

We have three veterans at the Friday Fish Dissection Station, DIANE AMURO, PAUL DOMKE and MARALYN SMITH.

DIANE, a medical technologist at St. Francis Hospital, has been a volunteer since July 1979. She manned the Fish Dissection Learning Station pretty much single-handedly for the school year 1979-80 when education programs were just starting to develop at SLP. Her calm, measured presentation soon has kids forgetting their initial squeamishness. Diane took a break from the docent program for awhile, but came back in January to assist the current docents...until a skiing accident laid her up in March with torn knee ligaments. Away from the park and work, Diane is into SCUBA, night classes in Oceanography and Zoology, and lauhala weaving.

resettling of two Vietnamese refugee families. At the park she has helped with revision of a play for first-third graders and initial research into formation of a non-profit "friend" organization in support of the Education Dept. When the family moved to Hawaii 2 years ago, Maralyn's husband bought into a small exporting firm, so they plan to stay in Hawaii at least "forever." They have two sons, 12 and 13 years.

Since becoming a docent in the spring of 1981, BECKY WOODLAND has taught at the Penguin Learning station, assisted with summer art classes and since this fall, has been at the Whale Learning Station. Becky somehow has mastered the skill of gaining instant attention from youngsters without raising her voice. She also inspires instant affection, judging from some of her "fan" mail from students. She hails from British Columbia originally. She teaches part-time at King Intermediate School in Kaneohe, is a tutor and sells real estate for Island Homes Kahala office. Becky is an assistant SCUBA instructor at the UH, sews her own clothes and takes care of a Cockatoo named Byrd who has learned to unscrew toothpaste tubes and eat the paste...he mostly likes Aim.



Dear Paul and Diane,
Thank you for your skills on dissecting fishes. I found it most interesting to see whats inside a fish because when I see a fish in the water I think of it as just a robot or something like that. Thanks again.





Craig Hoffman, Gr. 6
Kamiloiki School

SCALCASC PARK

MARINE EDUCATION PROGRAM FOR

MAY

19 82

SUN	MON	TUE	WED	THU	FRI	SAT
<p>Star of the Sea 48/4 SL&S + extra dolphin station</p> 	<p>3 SMEP: Alva Scott 105/10</p> <p>Very Spec Arts McDoylav Harriet, Bridget, Jane.</p> <p>PCE/CQ</p>	<p>4</p>	<p>5 SMEP: Kanaaluu 59/5 Kamehameha 27/2</p> <p>PCE/CQ H₂O Testing</p>	<p>6 SPEC PRES: 9am Aina Haines (d) 45/2 Fish/Habitats Harriet</p> 	<p>7 SMEP: Royal 61/3</p> <p>PCE Edgs</p>	<p>1</p>
<p>9</p>	<p>10 SMEP: St. Mark's Lutheran-28/3 Aina Haiba 70/3</p> <p>CQ</p>	<p>11</p>	<p>12 SMEP: Honowai 120/4</p> <p>H₂O Testing CQ</p>	<p>13 SPEC PRES: 9am Moanalua (2nd) 100/8 Habitats of Reef Animals volunteers needed</p> <p>ANNUAL VOLUNTEER MEETING-11:00 (Sack Lunch)</p>	<p>14 SMEP: St. Pat's 37/3 Epiphany 27/2</p>	<p>15</p> <p>AQUACULTURE LECTURE 10:30 Moanalua H.S. 29/2 R.Harada</p>
<p>16</p> 	<p>17 SMEP: Jefferson (5th) 80/8</p> <p>CQ</p> <p>Marine Animal Photo Class Reg- istration DUE Today!!</p>	<p>18 SPEC PRES: 9am Waimanalo 28/2 175/7-14 W/D & Reef Fish - Clyde Volunteers needed</p> <p>Mar. Animal Photo Class 7-10 pm</p>	<p>19 SMEP: Waimanalo 28/2 Momi 55/3 Hanalani-King 28/2</p> <p>CQ ends H₂O Testing</p>	<p>20 SPEC PRES: 9am Kamiloilo (2nd) 55/6 SL/S-Marlene Wheeler 120/?</p>	<p>21 SMEP: Wheeler 120/?</p>	<p>22</p> <p>Marine Animal Photo Class 8am-12 noon</p> 
<p>23</p>	<p>24 SMEP: Kalihi Uka 56 Kamiloiki 45/5</p>	<p>25 SPEC PRES: 9am Kamiloiki (1-2) 50/2 SL&S - Mary</p> <p>H₂O</p>	<p>26 SMEP: Fale Kula 115/10</p>	<p>27 SPEC PRES: 9am Solomon (1st) 50/5 Boichins</p> <p>Mar. Anim. Photo Class 7-10 pm</p>	<p>28 SMEP: Kalihi 75/4</p>	<p>29</p>

30 HOLIDAY !!!

SMEP: SENSE-NATIONAL MARINE EDUCATION PROGRAM
 PCE: PUNAHOU CAREER EXPLORATIONS
 CQ: COMMUNITY QUEST PROGRAM/KAILUA HIGH SCHOOL
 SPEC PRES: SPECIAL CONCERNATION

EDUCATION COORDINATOR: MARILYN LEE 259-7933

EDUCATION ASSISTANT: MARY PICKETT 259-7933



Education Dept.
Makapuu Point
Waimanalo, HI 96795

DATES TO REMEMBER!

- MAY 3 - VERY SPECIAL ARTS FESTIVAL
SLP-Gyotaku Workshop
McCoy Pavilion 9 am-12 noon
- MAY 13 - ANNUAL VOLUNTEER DOCENT MTG.
OI Conf. Room - Bag Lunch
11 am-12:30 Topics: 81-82
school program, Summer,
82-83 Plans, Party

CLASSES TO EXPERIENCE!

May 18, 22, 27 - MARINE ANIMAL PHOTOGRAPHY
Waiki-Kapahulu Library
& Sea Life Park
Instructor: Nicki Clancey

JUNE 21-25 - (TENTATIVE) TIDEPOOL DISCOVERY
Ages: 10-12 @ SLP & nearby
beaches. 9-noon Mon thru Fri
Instructor: Mary Pickett

JUNE 28-Aug. 2 - MARINE EDUCATION THROUGH
ART - ARTS & CRAFTS
Ages: 10-14
Sea Life Park Mon & Wed
2-4 pm
Instructor: Terry Fisher

JUNE 28-AUG 2 - MARINE EDUCATION THROUGH
ART - DRAWING & PAINTING
Intermediate-High School
SLP MON & WED 10-12 noon
Instructor: Terry Fisher



If you have any questions, wish to register for classes and/or provide volunteer assistance for any of the coming events, please contact the Education Dept. of SLP!

George Balazs
Hawaii Institute of Marine Biology
P.O. Box 1346
Kaneohe, HI 96744

1982

Mar 7 Sunday

Males (green) chasing females. Copulation

3/10 Weds.

Turtles ^{demonstration} retagged; Copulation

3/11 Thurs.

Turtle tracks to back of beach; no digging
Copulation - ♀s aren't resisting

3/14 Sunday

2062 moving ^{all} around beach area.

3/15 Monday

Turtle tracks to back of beach; no digging
Copulation (♀ involved is not eating)

3/16 Tues

Copulation - same ♀ involved in day's activities

3/18 Thurs.

Copulation 8:50 am, 9:40 am

3/19 Fri

Copulation; Lots of basking turtles.

3/22 Mon.

Copulation at lecture time (12 pm)

3/23 Tues

Copulation at lecture time (12 pm)

Turtle tracks & diggings

3/24 Weds

♀ hawk's bill stayed on ramp

(leatherback washed up on Waimeaalo beach)

Attach 2nd data sheet which ♀ "hawk"
Barking hawks -
how far up ramp?

689
3/25 Thurs

- Pomaikai (σ^7 hawksbill) basking on ramp. He didn't eat today
- 1 ♀ green not eating (light shell w/ cracks)

3/28 Sun

Turtle tracks, no diggings

3/29 Mon

Copulation at least 3x between 9am - 10am.

- ♀ green not eating (light shell w/ cracks)

3/31 Weds

- Sand turned over on beach

April 1 Thurs.

- Turtle diggings evident

4/2 Fri

Turtle tracks & diggings

♀ green (w/ cracks) not eating

4/5 Mon

Turtle tracks & diggings

Pomaikai & 4 hawksbill basking on ramp

4/6 Tues

Pomaikai (σ^7 hawksbill) basking at: 1st, 2nd, 4th lecture

Turtle tracks; no digging

4/10 SAT

Pomaikai basking at 2pm lecture (for most of p.m.)

4/12 Mon

Turtle tracks; pomaikai basking most of p.m.

Sea Life Park

4/13 Tues

82
Pomarkai basking most of day

4/14 Weds

Turtle tracks & diggings

Pomarkai basking at noon.

♀ green (w/ cracks in shell) not eating

4/15 Thurs.

Turtles were digging (old egg cases dug up.)

4/16 Fri

- we have a ♀ green (2982) (w/ cracks!) still on beach - covered with sand. Turtle digging

- Pomarkai & ♀ hawksbill basking

4/17 Sat

Pomarkai basking most of p.m.

4/19 Mon

Turtle tracks

4/20 Tues

Turtle tracks & diggings

4/21 Weds.

Turtle tracks & diggings

♀ hawksbill basking from 145-345 pm

Pomarkai basking in late pm.

4/22 Thurs

♀ hawksbill basking at 330 pm

Pomarkai basking at 130 pm

4/23 Fri

Turtle tracks

4/26 Mon

Turtle tracks

Copulation at 14 lecture (10:45 am)

♀ green started digging a pit (at 2 pm) then stopped 5 mins later & went in water

4/27 Tues

Turtle tracks & diggings

4/28 Weds

#29 82 still on beach (8 am) covered w/ sand diggings.

4/29 Thurs.

Tracks & diggings

Pomaukai basking at last lecture

May 4 Tues.

Turtle tracks & diggings - more old egg cases.

5/5 Weds

Tracks - digging behind wier box & at back of beach.

5/6 Thurs

Turtles digging last nite

5/7 Fri

Pomaukai basking at 1^{pm} & 4 pm. ♀ hawksbill basking at 1 pm.

5/10 Mon

Turtle tracks & diggings

5/11 Tues - diggings

5/12 Weds

Turtles & digging at back of beach.

5/14 Fri

diggings near wier box.

5/16 Sun

diggings near wier box

5/17 Mon

diggings near wier box & at back of beach.

5/20 Tues

♀ hawksbill basking at 5 pm.

5/25 Weds

Digging at back end of beach

5/28 Fri

♀ hawksbill basking at 1:30 pm.

5/30 Sun

diggings

June 1 Tues

↑ diggings at mid beach
??
↓

June 28 Mon

Digging at back of beach & mid pt.

June 29 Tues

Turtle tracks & digging at back of beach. ^{more old egg cases turned up.}

She began nesting at 8 pm Mon. eve. (I happened to be there!)

Pomarine chasing ♀ hawksbill at 2 pm lecture

~~June 30 Weds~~

↓

4/30 Weds.

Turtle tracks of diggings at back of beach.
Pomai kai basking at noon lecture.

digging near water box
2:15 pm

digging near water box
2:15 pm

digging near water box at back of beach
2:15 pm

2 Pomai kai basking at 2 pm
2:15 pm

Digging at back end of beach
2:15 pm

2 Pomai kai basking at 1:30 pm
2:15 pm

digging
2:15 pm

digging at back of beach
2:15 pm

digging at back of beach
2:15 pm

2 Pomai kai basking at 2 pm
2:15 pm

digging at back of beach
2:15 pm

digging at back of beach
2:15 pm

digging at back of beach
2:15 pm

SEA LIFE PARK



August 10, 1982

Dr. George Balazs
Hawaii Institute of Marine Biology
P.O. Box 1346
Kaneohe, HI 96744

Dear George,

Thank you very much for participating as a lecturer in the Sea Life Park Training and Instructional Workshop for volunteer docents. Your special expertise has made our program a valuable and beneficial experience for the docents.

sent 8/82
The Fall 1982 Workshop for new volunteer docents will begin on September 10. A lecture schedule has been set; if there is a conflict in your schedule, please inform us as soon as possible.

The University of Hawaii Environmental Studies Program and the Hawaii Pacific College Cooperative Education Program have approved two to three semester units of credit for the Volunteer Docent Program. The curriculum review committees would like a resume for each lecturer involved with the workshop. If you have not submitted a resume in the past, or your information needs up-dating, kindly supply us with a copy of your (new) resume. Your resume would be appreciated by September 3.

Again, thank you for your support and enthusiasm in promoting marine education for all. We are looking forward to hearing from you soon!

Aloha,
SEA LIFE, INCORPORATED

Marilyn Lee

Marilyn Lee
Education Coordinator

Mary Pickett

Mary Pickett
Education Assistant

ML/mp
Enclosure

SEA LIFE, INCORPORATED:

PARK: Makapuu Point • Waimanalo, Hawaii 96795 • Phone 259-7933

SALES OFFICE: 2222 Kalakaua Avenue • Suite 1309 • Honolulu, Hawaii 96815 • Phone 923-1531

SEA LIFE PARK

TO: PARTICIPATING LECTURERS
RE: VOLUNTEER DOCENT TRAINING AND INSTRUCTIONAL WORKSHOP
DATE: 8/10/82
FROM: MARILYN LEE, EDUCATION COORDINATOR

The attached schedule of sessions will take place between the dates of September 10, 1982 and October 13, 1982 from 9:00 a.m. to 12:00 noon. Hopefully we will have a minimum of 12 adult docents as your students for each session. You will be contacted prior to your assigned lecture date - to discuss format, content and presentation of information. Materials will be available in printed form for the lecturers and docents. Audio-visual aids such as slides, films, and/or tape recordings will be utilized as needed. Each lecturer will speak for approximately 45 minutes to 1½ hours. After each lecture presentation, the education staff will provide the docents with methods of teaching, which will be designed for the specific subject and learning station. Lecturers are not required to remain the entire three-hour period. However, your participation and overall assessment of the session is more than welcome.

Mahalo for your cooperation and support of Sea Life Park's education programs!

SEA LIFE PARK

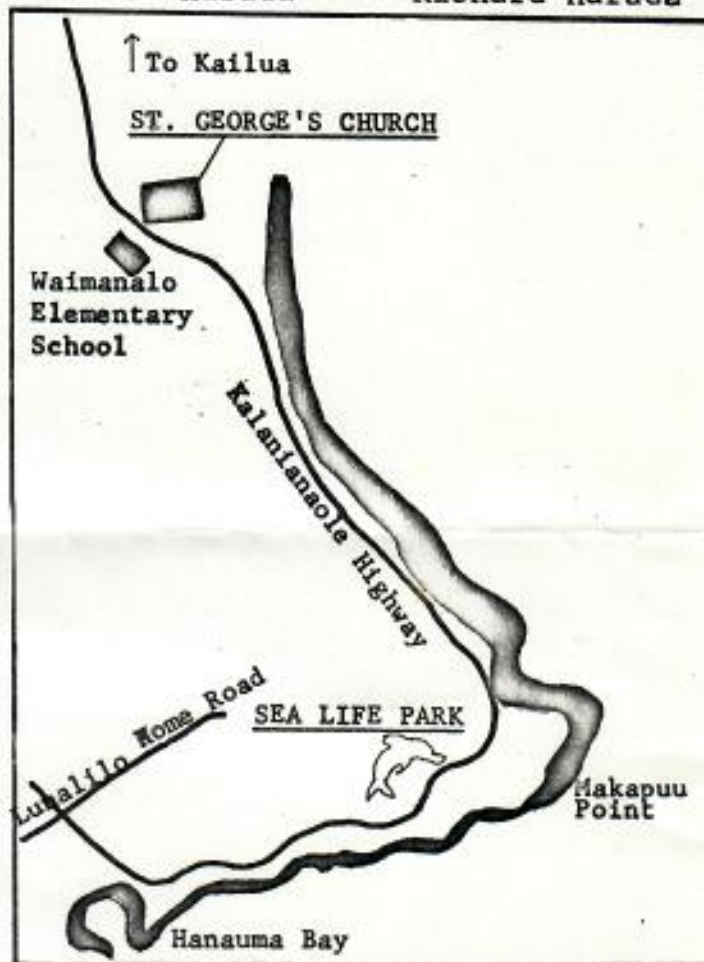
VOLUNTEER DOCENT PROGRAM
TRAINING AND INSTRUCTIONAL WORKSHOP SCHEDULE
FALL 1982

	<u>DATE</u>	<u>TOPIC</u>	<u>LECTURER</u>	<u>DOCENT</u>
F	September 10	Orientation	Marilyn Lee Mary Pickett	
M	September 13 (8:00 a.m.)	Invertebrates of the Ocean - A Microcosm	Mary Pickett	Ardie Cooper Barbie Thorstad Shirley White
W	September 15	Sea Turtles of Hawaii	George Balazs	Kay Allen
F	September 17	Whales Whaling Museum Lecture	Ingrid Kang Jane Jones	Ridgely Keeley
M	September 20 (8:00 a.m.)	Dolphin Observation	Marlee Breese	Jim Pettett
W	September 22	Penguins	Carol Chang	Pat Wienke
F	September 24	Fish Dissection	Steven Kaiser	Paul Domke
M	September 27	Fish Observation	Steven Kaiser	Clyde Kakazu
W	September 29	Sea Birds of Hawaii	Ingrid Kang	Audrey, George
F	October 1	Plant Discovery	Keith Wooliams	Mildred Bachman Barbara Culliney
M	October 4	Oysters and Pearls	Marilyn Lee	Betty Smith
W	October 6	Sea Lions and Seals	Ingrid Kang	Angela Isaak
F	October 8 (8:00 a.m.)	Corals of Hawai'i	Art Reed	Jane Jones Clyde Kakazu

W	October	13	Hawaiian Fishponds and Aquaculture
F	October	15	Practice Sessions Evaluations by Groups
M	October	18	Practice Sessions Evaluations by Groups
W	October	20	Practice Sessions Evaluations by Groups
F	October	22	Practice Sessions Evaluations by Groups

Richard Harada

Richard Harada



SESSIONS BEGIN PROMPTLY AT 9:00 A.M.,
UNLESS NOTED OTHERWISE.

MEET AT ST. GEORGE'S CHURCH, WAIMANALO.

SEA LIFE, INCORPORATED:

PARK/EDUCATION DEPARTMENT: Makapuu Point . Waimanalo, Hawaii . Phone 259-7933

RESERVATIONS: 2222 Kalakaua Avenue . Suite 1309 . Honolulu, Hawaii . Phone 923-1531

21 green turtles born at Sea Life Park

Sea Life Park got 21 green turtles yesterday when a momma Honu (Hawaiian for turtle) unexpectedly gave birth in the Park's turtle lagoon.

The event was unexpected, said a park press release, because baby turtles are usually born in late summer.

The youngsters are now slightly larger than a silver dol-

lar but eventually will be about 3½ feet long and weigh about 350 pounds.

All but two will be released into the ocean tonight as the park attempts to recreate the natural birthing environment, where young turtles hatch from their eggs in beach sand and then head directly to the sea.

Honolulu Advertiser (1983) 11 FEB. A-7



READY TO GO!—Alexis Freeman, a reef-tank diver at Sea Life Park, holds one of the 21 green sea turtles born Thursday at the park. Last night, 19 of the small creatures were turned loose in the ocean. Two will be kept in the park's Turtle Lagoon. —Star-Bulletin Photo by Ken Sakamoto.

Sea Life Lines

SEA LIFE PARK EDUCATION DEPARTMENT

Volume 2, No. 1

March 1983



1982-83: MARILYN SUMS IT UP!

By Marilyn Lee

The Education Department has certainly grown with 1983 marking the fifth year that Sea Life Park has provided a variety of education programs for people of all ages. There were several new additions to the education program in 1982 that are exciting. Eighteen Volunteer docents graduated from the Fall Training and Instructional workshop given by the Sea Life Park staff and community resource persons. The new docents, along with 26 returning senior docents, are actively participating in education programs. Because of the increase in staff, two new programs are now operating. LEGENDS OF THE SEA presents the TURTLE OF TAMARUA in a two-part program for students of Grades 1-3.

Sallie Bearden, "Princess of Tamarua," and Lynne Zawski, "Turtle Prince," star in "The Turtle of Tamarua," a play for Grades 1-3. Petroglyph by Sabra Jenkins.

The first portion of the program involves a lecture on the Green Sea Turtle. Props, illustrations, and turtle observations assist the volunteer docent in sharing information about this endangered species.

During the second part of the program, a volunteer cast and crew dramatize the Polynesian legend, Turtle of Tamarua, complete with actors, costumes and set.

AQUACULTURE-YESTERDAY AND TODAY is the theme of a new high-school-and-older program. Presented on Wednesday mornings, students have the opportunity to explore the areas of Hawaiian Fishponds and modern-day aquaculture research and business ventures.

In review of reservations made in 1982, an increase is shown for groups reserving education programs and a decrease in groups visiting the park on their own. We are providing a service that is recognized as valuable by the community!

Along with the formal grade level programs, requests for "Special Presentations" continue to increase. Volunteer docents have been extremely supportive in making their own schedules flexible and in adapting presentations and lectures to meet the needs of education requests.

Grade Level Leaders, Mildred Bachman, Kay Allen and Betty Smith, have been of great assistance to the education staff. Their enthusiasm and management of the popular docent-operated Sense-sational Marine Education Program for Grades 4-6 has developed the program into a smooth-running operation. Every teacher of these grade levels who plans a visit to the park, now makes SMEP a part of their excursion.

Continued next page...

STAFF SPOTLIGHT

INGRID KANG: FROM STOCKHOLM TO SEA LIFE,

By Pam Haray

FROM SALMON TO CETACEANS

Sea Life Park Volunteers, scrubbing what seems their ten thousandth fishy-smelling bucket, might take some encouragement from the fact that our Curator of Marine Mammals and Birds, Ingrid Kang, has put in many hours scrubbing even "fishier" buckets. It seems to be a prerequisite in the field.





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Ingrid began her career by acquiring degrees in zoology and animal behavior at the University of Sweden in her hometown of Stockholm. This was an introduction to land animals where she became partial to large mammals. However, as fate would have it, a grant to the University of Seattle introduced Ingrid both to the United States and another zoological branch altogether - fish. She was participating in research and documentation on Pacific Salmon. She smiles recalling numerous days of bucket scrubbing and unaccountable hours counting salmon eggs.

Some time after, Ingrid migrated to the warmer waters of Hawaii when Sea Life Park was in its beginning stages. Here she has been able to combine her interest in mammals with her love of the sea. As head of the Training Department since 1970, Ingrid manages a staff of 15, up to 14 weekly volunteers, and oversees the care, feeding and training of two Tropical Killer Whales, 16 Pacific and Atlantic Bottlenose Dolphins, two Spinner Dolphins, the only

Continued next page...



DEPARTMENT SUMMARY *Continued from page 1.*

Two new classes were offered to the public in 1982. Tidepool Discovery taught by Mary Pickett involved young children in an intensive week-long study on the tidepool community. Volunteer teacher aides helped students discover the wonders of the shoreline environment. Marine Animal Photography was offered to adults interested in learning special techniques on capturing the unique personalities of our resident marine animals. It was taught by Nicki Clancey, Sea Life and Waimea Falls photographer. The class involved lecture, slide and equipment discussion and on-site field work.

This year, we look forward to having full enrollments for both classes as well as for the established Marine Education Through Art class taught by Terry Fisher.

A new development in the organization of the Education Department has been the formation of committees to assist the staff in carrying out various tasks. Field Trip and Social Activities members from our volunteer crew have been very effective in planning and implementing a variety of events. The clerical committee is terrific at helping the staff put out information in readable form.

The Volunteer Student Program continues to provide assistance to the Training, Reef Tank and Education Staff. Their eagerness to learn and willingness to scrub fishy buckets, clean cages, windows and props is always appreciated by the entire staff and the animals, too!

The park's total volunteer crew numbers 64. We are indeed pleased to have such interested, talented and giving people as part of our staff and we look forward to their continued participation. The future looks bright for education program development as we move towards increasing public awareness of Sea Life Park's role as a learning and resource center.

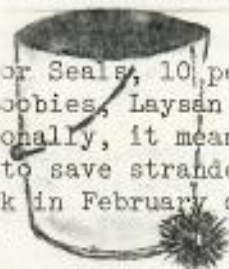
WANTED: FUNNY KIDS AND COCONUTS

Share those funny comments made by your keikis at the Learning Station. For example: Jaimee, a first grader at Kamiloiki, wrote us "Thank you for teaching us about the Green Sea Turtle...I have a vertebrate too and I use it all the time." Just jot down the remark and put it in my mailbox. Also let us know what you might need at your learning stations. For example: THE TURTLE OF TAMARUA PLAY always needs FRESH COCONUTS! Bring them to the Volunteer Room and drive Mary nuttier. Also SUE POWELL needs a sprouted coconut for Plant Discovery. Mahalo!
Pam Haray

#####		
%	FACTS & FIGURES.....	%
#	New Docents from Fall Workshop.....	18 #
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%	Departing Docents	2 %
#	Total Volunteer Docents.....	48! #
%	Student Attendance since Fall 1982	
%	SMEP Programs.....	3,315 %
%	Special Presentations.....	1,520 %
%	"Turtle of Tamarua" for Gr.1-3.....	633 %
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INGRID *Continued from page 1.*

Rough-toothed Dolphin in an oceanarium, 37 sea lions, three Harbor Seals, 10 penguins and a sanctuary of sea birds including Red-footed, Brown and Masked Boobies, Laysan and Black-footed Albatross, Frigate Birds, Terns and Shearwaters. Occasionally, it means working closely with the National Marine Fisheries Service in attempts to save stranded marine mammals such as the baby Humpback Whale brought to Sea Life Park in February of 1981 or a young Monk Seal found on the North Shore in the Spring of 1981.



While "show business" may be the more visible aspect of the park, Ingrid is still involved in research and documentation. With the aid of all the park trainers, she is constantly accumulating and analyzing information on the feeding, health and behavior patterns of our various mammals and birds. In this work, Ingrid stresses the importance of each trainer's patience and knowledge of specific animals. A trainer must be aware of each animal's individual traits and personality and immediately note changes that might indicate ill health or stress.

Trainers also have to be extremely dependable because of the show schedule. "The show must go on" is not just a cliché at Sea Life Park, Ingrid explains, "It's our bread and butter and supports all our efforts." Enough support, she hopes, to someday provide for a Sea Lion Stadium to feature more of the talents of these engaging animals.

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Ingrid is also very proud of the sea bird colony established in 1964 and gradually expanding. Besides free-flying Red-footed and Masked Boobies which nest here, she is thrilled to have a number of Iwa or Great Frigate Birds, who just this winter, have started participating in the Whaler's Cove shows.

After a day tending the park's animals, Ingrid retreats to her Kailua home and her own private menagerie which includes four Lhasa Apso show dogs, an energetic Samoyed pup named "Terrible T," a mellow Silver Persian cat, two parrots and a Cockatoo named "Flapper" who has been hand-raised from a hatchling and thinks she's human. Flapper spends most of her time tottering around the house after Ingrid or her daughter, Anita, a University of Hawaii student preparing for a career in veterinary medicine.

Most of our volunteer docents are first exposed to Ingrid's warmth and enthusiasm in the annual Training and Instructional Workshops where she lectures on Whales, Sea Lions and Seals, and Sea Birds. The volunteer students often meet her with a scrub brush and bucket in hand as she demonstrates those routine, but all-important, chores that go into animal care. We are very glad that chain of fishy buckets eventually led Ingrid to Sea Life Park!

FROM THE FILES....



By Jo Pieper

EDITOR'S NOTE: The Education Department Library has been gradually amassing a file of articles from newspapers, magazines and other sources, touching the gamut of marine topics. As a regular feature for SEA LIFE LINES, Jo Pieper will be condensing some of the more intriguing articles. Anyone wishing to check out the complete articles (or others), stop by the Education Office.

* * *

Beware of brother or sister shark - if you're a shark that is! Scientists have discovered that prior to birth, many shark species maintain themselves in their embryonic state by gobbling up weaker brothers and sisters. This and other facts about shark development have been learned as scientists continue to search for an effective shark repellent.

* * *

Marine biologist, George Balazs, reported evidence of a Green Sea Turtle nesting last fall on a remote beach on Oahu's North Shore (he's not telling where!). Could this be a stray from French Frigate Shoals or, possible, one of the baby sea turtles hatched and released from Sea Life Park in 1976 who decided to stick close to home?

* * *

Europe's Common Market has voted to halt imports of Canada's Harp Seal pelts, a victory for the seals, in another round in the bitter battle between animal protectionists and the fur industry.

* * *

Watch for articles on our Hawaiian Monk Seals in your favorite national wildlife magazines this year. There has been an upsurge of interest in the monk seal according to William G. Gilmartin, leader of the Hawaiian Monk Seal Recovery Team. There should be more news coming on "Monk Seal Head Start," a program which was formulated to collect and isolate female pups for several months during which time they are fed and protected from predators. This is one among many programs initiated to increase dwindling Monk Seal populations in the Leeward Islands.

* * *

Divers who have gone down since Hurricane Iwa have reported that many reefs surrounding Oahu and Kauai have been sandblasted or scraped clean of the corals that grew on them and many reef fish have been lost.

HUMPBACK HIT PARADE - RECENT RESEARCH

Editor's Note: This is the time of the year that Humpback Whales are in Hawaiian waters. Betsey Grimmer, a docent at the Whales Learning Station, has capsulized some recent research on Humpback Whale Songs. A Humpback "song" is a set sequence of sounds up to 30 minutes long. Ranging from gargling noises to freight train whistles, the song can still be very haunting and lovely and all the whales in a given community seem to sing the same song or sequence of sounds. For more information, be sure to visit the special Humpback Whale display board located at the Gatehouse.

By Betsey Grimmer

Some of the latest information on Hawaiian Humpback Whales has shattered many long-held theories. Accidentally, researchers have discovered that the songs sung by Humpbacks in Hawaiian waters were the same as songs sung by whales recorded off California, dispelling the theory that the two populations never meet. Photographs confirmed that some whales seen off Maui were also pictured off California. Do the whales "decide" where to go each year?

During the summer months, Humpbacks usually migrate to Alaskan and Siberian waters, where they feed on the krill which is very plentiful there. During the winter months, they return to southern waters to breed and have their babies or calves. While in northern waters they don't appear to sing at all (probably too busy eating) and they do not appear to eat in southern waters (too busy singing, mating and calving.) Although they haven't sung the song for up to six months, when they do resume singing, it is exactly the same song as the previous season, a good feat of memory. Even more unique is the fact that they begin to change the song as the winter progresses, dropping out sequences of sound and adding new ones. Each season's song is a bit different from the previous season. All the whales appear to make the same adjustments and all end the season singing the same new "hit" song.

New information seems to indicate that singing is done only by males, along with aggressive behavior, as part of courtship. Heavily scarred males attest to the ferocity of battles to determine which male will escort a cow and her new calf. The escort, previously thought to be a female, is not interested in helping to raise the calf, but to mate, enabling a cow to calf sexually. This welcome discovery may allow

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Divers who have gone down since Hurricane Iwa have reported that many reefs surrounding Oahu and Kauai have been sandblasted or scraped clean of the corals that grew on them and many reef fish have been left homeless. Experts estimate that it will take 40+ years for Oahu's reefs to recover. In the meantime, there has been renewed interest in building artificial reefs - an expensive substitute for the natural reef.

* * *

The January-February 1983 issue of Sea Frontiers has an especially large number of interesting articles on flatworms, cone shells, tuna, Humpback Whales, and the Belau Barrier atolls. Stop by the library.

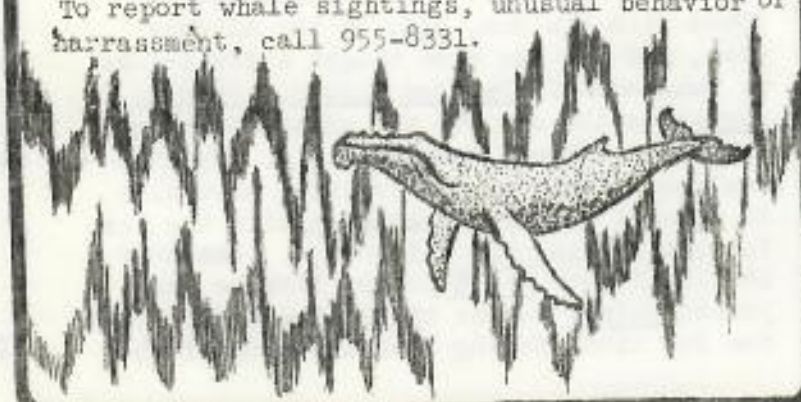
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To report whale sightings, unusual behavior or harassment, call 955-8331.



SEA

By Pam Haray

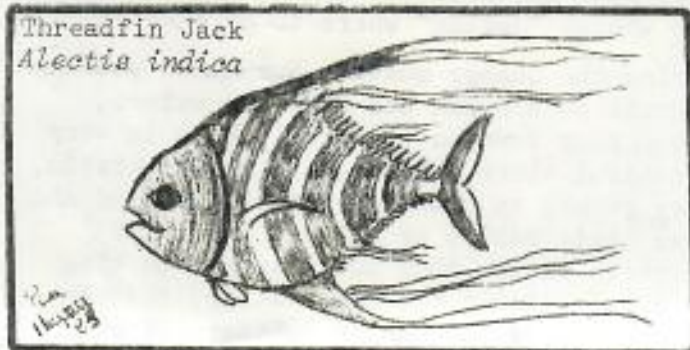
We are all proud that Flipper Sea School selected one male and two female-Sea Lion pups from Sea Life Park's healthy brood. Aloha, keikis! We all wish you a long and healthy life in Florida.

* * *

Two of our one-and-a-half-year-old Iwa birds (Great Frigate Birds) are now professional performers. They delight our Whaler's Cove Show audiences by skillfully plucking up fish tossed into the air as they soar overhead.

* * *

Have you seen the three sparkling, new additions to the Hawaiian Reef Tank? Several months ago, these Threadfin Jacks were hooked by fishermen who gave them to Volunteer Joe Martino. Under his care, they became hardy and aggressive eaters, and now "Poppa" Joe feels they are ready to graduate to the roomier and more natural habitat of the Reef Tank. Mahalo, Joe!



Threadfin Jack
Alectis indica

Sea Life Park's Bottlenose Dolphins, Itsy Bitsy, Keola, Punahale and Conni, have some hard work ahead. They have been selected and are now in training to become a team in the Whaler's Cove Show.

* * *

The versatile Ocean Science Theater will have a couple of new behaviors you won't want to miss. The first is a forward flip performed by our unique Rough-toothed Dolphin, Meola. Not to be outdone, the two Bottlenose Dolphins, Kailoli and Kani, will perform the extremely difficult backward and forward tail walk. Zap, the irrepressible, younger sea lion at OST is in the training area for a short vacation.

Starting in April, you may be noticing the "arfing" and "arking" protests of the keiki sea lion pups as they begin their inevitable weaning process. They'll be sending their wayward complaints to Momma from the training area until they acquire

beach? Well, it now appears that Alohi's reign was just temporary. After a short vacation, Kaimoa has resumed his dominant role...just in time for mating season.

* * *

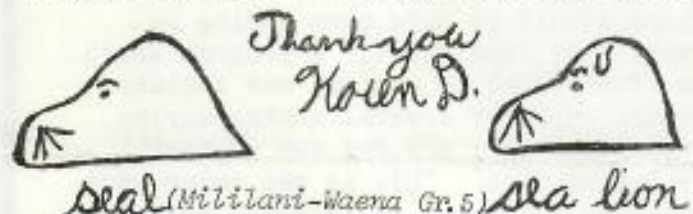
Love was definitely in the air during the Valentine month when our faithful Masked Booby couple once again selected a nesting site. The busy intersection of Whaler's Cove and the Plant Walk has been roped off for their privacy and the safety of Sea Life Park visitors. Everyone is hoping an egg will appear soon.

* * *

A Laysan Albatross on the Big Island? Well, there he was stumbling aimlessly along on the beach after he had run into an electrical wire. The Hawaii Island Humane Society was called to pick him up after he decided to stroll down the highway in this disoriented state. It was determined he would recover more readily in the tranquil backyard of one of their staff, Pat Moriyasu. She and co-worker, David Frenz began the difficult process of tube-feeding until he was strong enough to take hand-fed pieces of fresh squid. "Finding the fresh squid and handling him during his stronger days was our most difficult task," laughs Pat. "His hooked beak bloodied our hands!" He was shipped to Sea Life Park and is now recuperating in our Bird Sanctuary under the expert care of Ingrid Kang and the Training Department Staff. We all hope he'll be soaring again soon!

* * *

Our babies are growing! The four Green Sea Turtle hatchlings kept from a clutch hatched Feb. 9 in the Turtle Lagoon beach now weigh 4 oz. each. - a gain of 3 oz. per turtle. "That's because they are little pigs," says Steve Kaiser, Reef Tank Curator, adding, "We feed them chopped fish and squid." They will be on display in the Exhibit of the Month tank at the Reef Tank. There we can all watch them grow until they are about six months old when they will be released to the ocean to rejoin siblings released earlier.



+++++
A publication by the UH Sea Grant Program, entitled "Hawaiian Shoreline and Nearshore Ecosystems" is a very readable and complete description of these ecosystems. It covers habitats from splash zones through soft bottoms and reefs. It should be of value to anyone interested in invertebrates, fish or

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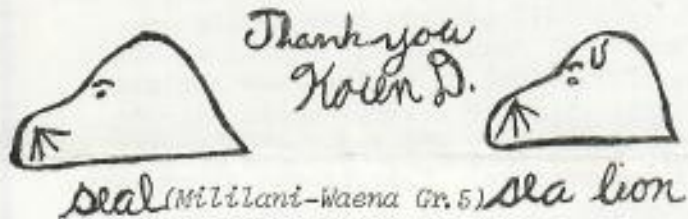
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the beach after he had run into an electrical wire. The Hawaii Island Humane Society was called to pick him up after he decided to stroll down the highway in this disoriented state. It was determined he would recover more readily in the tranquil backyard of one of their staff, Pat Moriyasu. She and co-worker, David Frenz began the difficult process of tube-feeding until he was strong enough to take hand-fed pieces of fresh squid. "Finding the fresh squid and handling him during his stronger days was our most difficult task," laughs Pat. "His hooked beak bloodied our hands!" He was shipped to Sea Life Park and is now recuperating in our Bird Sanctuary under the expert care of Ingrid Kang and the Training Department Staff. We all hope he'll be soaring again soon!

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"YES, I WANT A COPY OF "HAWAIIAN SHORELINES AND ECOSYSTEMS". _____

(Name)

I am attaching \$ _____ for _____ Copies.

KAY ALLEN: SUPER VOLUNTEER

By Jo Pieper



Are you or your organization looking for a well-organized super volunteer with a wide variety of experience and boundless energy? Then you are looking for Kay Allen! Just don't be surprised if you have to be put on her waiting list - she's a very busy lady!

Sea Life Park is fortunate indeed to have Kay as a docent. Her interest in and concern for Hawaii's turtle population has always been apparent in her lively presentation to the students coming to the Park's Sea Turtle Learning Station. Behind the scenes, her prop contributions include the preservation of turtle eggs, embryos and hatchlings. Her life-long interest in zoology and her career experience as a medical technologist probably assist her in these projects.

This year, as grade level leader, she sees that everything runs smoothly on Wednesday mornings with no time wasted for students or docents. Putting every minute to productive use was necessary for survival as a docent in Kay's early days at Sea Life Park (Fall 1980) when all docents were required to make three presentations in the allotted hour. Despite her natural efficiency, Kay always has time to talk to new volunteers and offer helpful hints to make a hectic morning easier as well as to improve their learning station.

In fact, drawing talent from volunteers is one of the things Kay does best. As Volunteer Coordinator for Bishop Museum, Kay must oversee the well-being of some 200 volunteers. Her experience in these efforts has led her to write a book for Bishop Museum staff entitled, "The Care and Feeding of Volunteers." She should know the topic well as she has also spent time organizing volunteer energies as PTA president, Koko Head Elementary School carnival chairman, Girl Scout leader, Sunday School superintendent, and President of the Republican Women's Club.

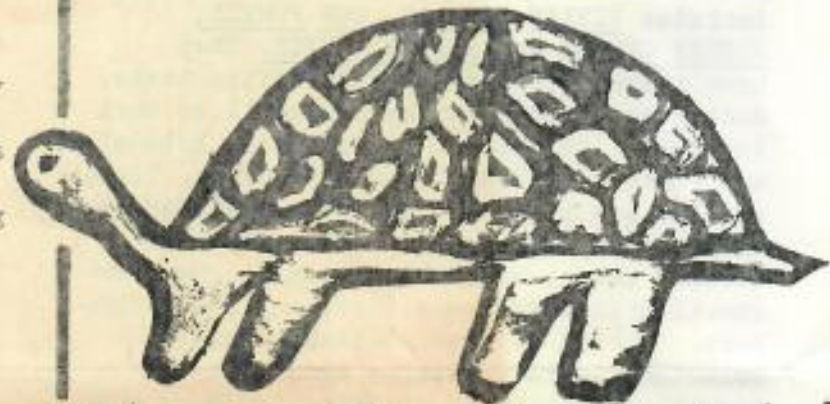
Kay originally hails from Arizona but lived for 14 years in California before settling in Hawaii. It was in California that she became involved with the Mental Health and Drug Abuse Commission. Her work there in a Crisis

Counseling Center won her the 1977 award of

Ever since the Fall Docent Workshop, the Education Department has seen a blitz of exciting activity...everything from new people to new programs to new props.

One of the most visible new additions to the department are the three bulletin boards out front, prepared and installed by our volunteer engineer BILL SMITH. They are a tremendous improvement over the layers of paper on the office refrigerator and give the entire park a chance to keep up on all sorts of activities from art exhibits to windsurfing classes, as well as interesting news and magazine clippings.

We are tremendously proud of the new "docent tank" constructed this fall by JOE MARTINO to house invertebrate specimens for our Touch and Feel Learning Station. It provides separate sections so the inhabitants don't eat each other, a roof to keep out sun and rain, and is high enough for easy access. Also, it withstood Hurricane Iwa, a small miracle when you consider all the other tanks and items that went flying around the park that day. Joe also set up another 15-gallon tank on the Ed. Dept. lanai for smaller invertebrates. The tank, pump and filter were all donated by GLENN OKAMURA.



From Mark Cajski
Lanikai Elementary Gr. 3

PAM HARAY has turned out to be a one-woman prop committee, turning her super artistic talents to the creation of a colorful 3'x 4' fish dissection diagram, illustrations for Whales and Plant Discovery Learning Station, and various word cards

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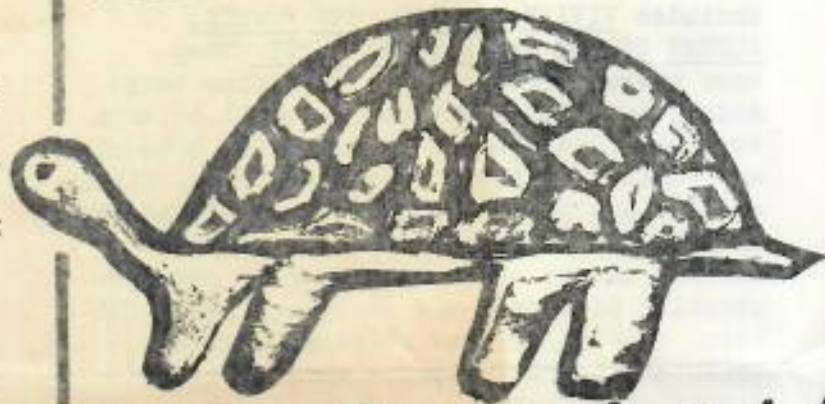
Counseling Center won her the 1977 award of California Woman of Achievement for Community Efforts, particularly in Mental Health. As an outgrowth of this she became interested in self-defense for women and today, she works as an instructor in the Women's Self-Defense Council.

When not busy being a super volunteer, Kay works at being a super Mom at home with her husband, Greer, and three active teenage girls, Kari, 16; Kelly, 14; and Kristi, 12. The three younger "K's" are going to have to work hard to keep up with Mother. When not involved with cooking and laundry, Kay redecorates houses and plays bridge.

And what does Kay do when she has a minute to relax? She spends time with the family pet, "G.G.," a silky terrier

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From Mark Cajski
Lanikai Elementary (Gr. 3)

PAM HARAY has turned out to be a one-woman prop committee, turning her super artistic talents to the creation of a colorful 3'x 4' fish dissection diagram, illustrations for Whales and Plant Discovery Learning Stations and various word cards. She's also totally mastered the art of covering props and posters with clear contact paper (have you ever tried to do it without a single wrinkle?) and written and illustrated most of this newsletter and even provided taxi service from the airport to the park for a stray Laysan Albatross donated by Hawaii Island Humane Society.

///
Speaking of the newsletter, it wouldn't exist without the Newsletter Committee, consisting of writer-editors, PAM HARAY, JO PIEPER, and CONI STRAUCH. Also thanks to BETSEY GRIMMER, guest columnist on recent whale research and the production crew who typed, proofread, copied and collated this



EXTRA ENERGY

Continued from page 5

And speaking of committees, a great amount of extra energy has been going into three new committees: Field Trips, Social, and Clerical, resulting in fun and educational activities for everyone and time-savings for our education staff. The Social Committee, including SIGNY BROWN, PEGGY BUCKINGHAM, MACK PALK, assisted by SUE POWELL and CONI STRAUCH, planned and organized the very elegant Christmas Party at Cafe d'Lisle (we hardly knew each other without our Sea Life Park T-shirts!) and a relaxing Family Movie Night, Feb. 20. Even with competition from "Winds of War" more than 50 people turned out to munch popcorn and pupus and enjoy films on fish, sea turtles, sharks and coral conservation. Our Field Trip Committee consisting of LYNN ZAVRSKI, PAUL DOMKE and BARBARA LLOYD has been equally active. You can read about the trips to Waikiki Aquarium and Kaneohe Bay in this issue and look forward to more adventures sailing out of Pokai Bay March 31 with UH's Bluewater Marine Laboratory. The Clerical Committee includes VIVIAN STEWART, SUE POWELL, AUDREY GEORGE and SHIRLEY WHITE. They have taken over many routine office tasks. Audrey puts her great typing skill to work regularly on special presentation schedules and various office rosters and lists. Vivian and Sue are putting together a ready-access information file on volunteers which is already saving staff time when it comes to checking addresses and emergency phone numbers. Vivien is also helping tabulate volunteer hours. Shirley sends out confirmation letters to visiting teachers and keeps everyone in stitches taking to the typewriter. We have probably set new records on numbers of people that can work efficiently and cheerfully together in one 10x12 foot office also crammed with 2 typewriters, 1 refrigerator, props for 12 learning stations, stuffed turtles, seals and penquins, etc.

Love,
Hyon Jung Pae
Waiau Elementary - Gr. 5

MEREDITH LUCK has also been helping with office work and is our Historian, keeping scrapbooks and photo albums up to date. RIDGELY KEELEY has got our Picture File off to a tremendous start, sorting out and alphabetizing hundreds of animal photographs.

Our library is constantly growing with important additions from JANE JONES, the scourge of used book sales and a wonderful Christmas gift from operations manager, JASMINE WONG: Richard Ellis' new book, Dolphins and Porpoises.

Since this fall, 11 docents have attained "Hoaloha" status by donating 40 or more hours of their time. They are: MACK PALK, MARLENE TOM, KEITH MACDONALD, SIGNY BROWN, SUE POWELL, PAM HARAY, JESSICA PUTNAM, COLLEEN LEGGATT, VIVIAN STEWART, CONI STRAUCH, LYNNE ZAVRSKI.

New docents joining us in January and February are MARIAN COSTE, PATTY OSHIRO and CAROL BOHN, who will be working with the "Turtle of Tamarua" play on Mondays and NANCY CHILDS, doing Fish Dissection on Fridays.

Sixteen people have started the Winter-Spring 1983 term under the Volunteer Student Program and will be doing volunteer work in the Training and Reef Tank Departments until the end of May. They are: Reef Tank: JOE MARTINO, MISSY TANSLEY, and HOLLY BOLIYARD. Training: DEBRA MUSTAIN, DEBBIE AACH, STEPHANIE VLACHOS, LIYSA EHLEN, STEPHANIE TIGER, MARIAN CAYLON, KEITH MCDONALD, KATHY VINSON-MACK, MONNIE GAY, SHARON PANG, LORENA WADA, EVA GASPAR, LEO ALHAMBRA.

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The old cliché, "It's an ill wind that blows no good" was especially true of Hurricane Iwa. While it did blow out the Volunteer Room sliding glass door and pile broken glass, papers and props waist deep, it finally forced us into spring cleaning. Many thanks to LAURA PRADOS who showed up the day after to help sort department papers, and to COLLEEN LEGGATT, RIDGELY KEELEY and sons, KEATS and KENT, and PAT WIENCKE and daughters, PATTY and DEBBIE, for helping rake up the tons of broken branches that littered the park.

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PEGGY BUCKINGHAM created a super oyster shell display for the Oyster and Pearl Learning station and also donated a black pearl oyster shell as another learning aid.

* * *

This past semester has seen "extra energy" at every learning station as all our docents have put in time improving the props and presentations for the various learning stations. Mahalo nui loa to all of you!



DOTTIE WENDT, SEA TREK

KANE'OHE BAY: "MUD IS BEAUTIFUL!"

by Coni Strauch

Our February 3 field trip in and around Kaneohe Bay was led by Dottie Wendt of SEA TREK, HAWAII, a non-profit organization which provides outdoor experiences on both land and sea for educational groups. We started with a nature walk along the shoreline near He'eia (meaning squid or octopus) Pier.

At the sound of a bosun's whistle, docents and guests gathered around Dottie, assisted by Clyde Kakazu, who is both a Sea Trek and Sea Life Park staff person. Dottie's background includes teaching science, specializing in marine environments. She explained that at one time this area of the bay had a white sand beach, but time and civilization washed the sand away, leaving the mud bottom. But don't be distraught, for the most important lesson we learned was that "Mud is beautiful." Dottie showed us how to look for the strange and unusual goings on in the "mud world" - pipe worms, sponges, tunicates and air holes that held living creatures. She also taught us the art of turning over a rock and finding small organisms, not only on the rock but in the area on which the rock had rested, and then putting it back so not to disturb any growing organisms.

The next leg of our trip took us aboard the Glass Bottom Boat. It was a beautiful day, our spirits were high and with a little imagination one could almost believe we were sailing aboard the Calypso as part of the crew of Captain Cousteau. Actually we headed for the sand bar where we found an abundance of wiggly sea cucumbers and sea urchins in the adjacent coral heads. On the way back, as the boat went over the reef, we viewed a few spots of finger and lace coral. The crew brought up bubble algae in which we found small crabs and other crustaceans.


Once back on land, we headed for an area filled with mangrove trees. The mangrove swamps have both advantages and disadvantages. They can be great land builders keeping soils and shores from eroding, but they can also cause an area to silt in, hampering water flow and boat traffic, and they are virtually impossible to eradicate once established. Among the trees, we found dead oyster shells, soft-shelled crabs and spotted a Blue Heron.

Dottie also took us up the hill and to another part of He'eia State Park to view an ancient Hawaiian burial ground and fishpond. The fishpond wall was constructed in ancient times of lava rocks brought down from the mountains by an entire village of people, lined up and passing along the rocks from hand to hand.

The knowledge gained and discoveries made will help us become better informed docents. Our thanks to Dottie and Sea Trek for sharing their expertise with us.

FROM OCEAN DEPTHS TO MOUNTAIN TOP:

WAIKIKI AQUARIUM TOUR AND DIAMOND HEAD HIKE by Coni Strauch



Sixteen docents and guests assembled January 11 at the Waikiki Aquarium for a day that was to include touring, observing, snorkeling and even hiking. We were met by the aquarium education coordinator, Les Matsuura, who briefly introduced their various programs for visiting school groups. We joined a group of kindergarten students for a "Basket Talk" which is a large reed basket filled with different marine specimens, including sea stars, helmet and cone shells, shark's teeth and skin, an even "before and after" Puffer Fish (one normal size puffer and one blown-up version) carefully preserved. The aquarium docents explained each specimen to the children, allowed them to "touch and feel" and then carefully guided them through the Aquarium galleries.

We tagged along, enjoying the tour as much as the children. The galleries are newly refurbished with carpets, brightly-lit identification signs and none of the old guard rails that used to separate observers from tanks. Some of the most interesting displays are the Micronesian Reef with Giant Clams and a green and orange Mandarin Fish, baby cuttlefish, and the mysterious Chambered Nautilus.

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We also observed a slide presentation given to a third grade class on defense systems of reef animals. Although by this time, we thought we knew all the answers we were surprised to find the children were just as well informed as we were.

We enjoyed watching an aquarium staffer working on Mahimahi cultivation. He showed us newly hatched fish so tiny they resembled dust in the water, explaining that after six months of careful tending, they would look like the two and three-inch metallic-looking fish with box-like heads in the adjacent tank.

The aquarium docents hosted us to coffee and cookies, giving us a chance to meet them and compare notes. Then we headed off for lunch on the beach and a short snorkel for some of the group.

From ocean bottom, we reached for the top - the top of Diamond Head. Eight of our hardest hikers started out from the park inside Diamond Head Crater with Leo Strauch, our only male leading the way. Our nature specialist, Mary Pickett (who crammed in a geology book the night before) pointed out that Diamond Head is a "tuff" cone, a type of volcano made of

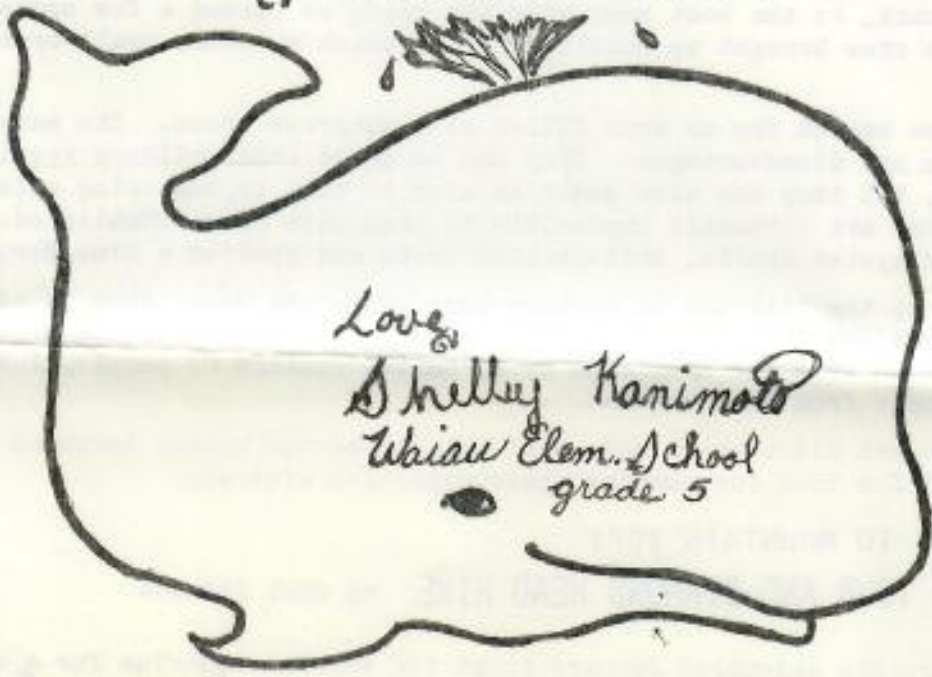
Continued on next page..... 7

George Balazs
Hawaii Institute of Marine Biol
PO Box 1346



SEA LIFE PARK
Education Department
Makapuu Point
Waimanalo, HI 96795

My Favorite Whale



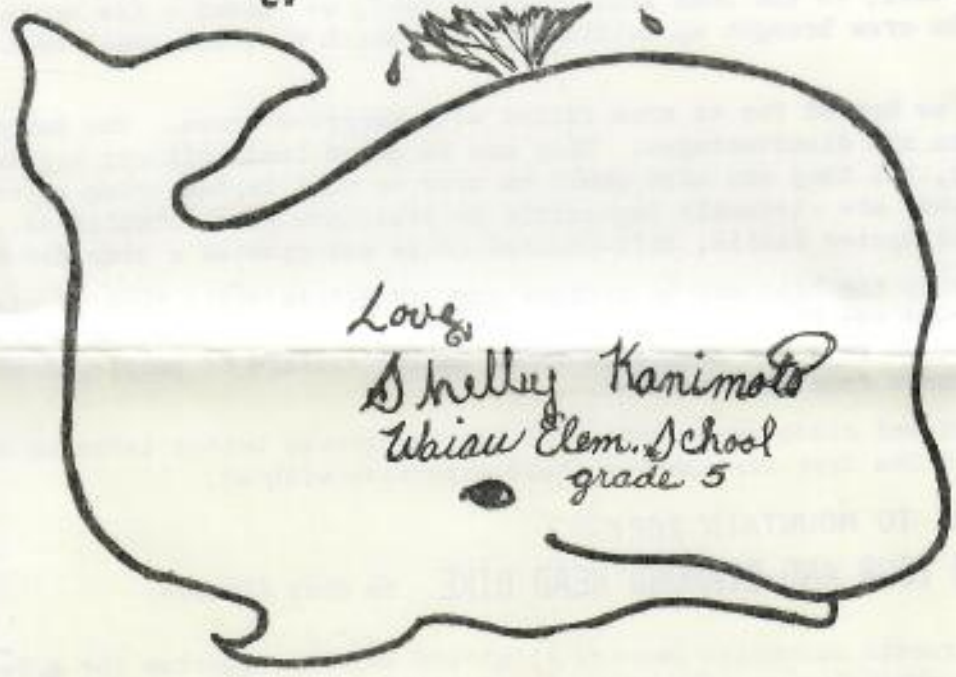
(P.S. hope I can visit again)

Kaneohe, HI

U.S. POSTAGE
WAIMANALO, HI 96795
MAR 23 1975

SEA LIFE PARK
Education Department
Makapu Point
Waimanalo, HI 96795

My Favorite Whale



(P.S. hope I can visit again)

Kanimoto, ...

Continued from page 7.

fine brown ash piled up in steam explosions when molten lava comes in contact with water. Diamond Head was probably created about 100,000 years ago. Since the ash is piled highest on the leeward side, scientists assume the crater was probably built in a few days time when the NE Trade winds were blowing. Chunks of limestone and coral embedded in the ash were torn out of an ancient reef as the volcano exploded from the sea. What we thought were areas vandalized with spray paint is actually limestone leeching out of the rock.

Thank goodness several of our group brought flashlights, easing the trip through the block-long tunnel. Facing the stairway at the end of the tunnel was the most difficult part of the hike. We were all too busy putting one foot ahead of the other to count the steps. At the top is an empty bunker facing out to sea. Two more levels are each reached by ascending a spiral metal stairway topped by a metal ship's ladder which leads to the summit. The view, 763 feet above sea level, is spectacular and worth every agonizing step.

SEA LIFE LINES
Published quarterly by the Sea Life Park Education Department
Newsletter Staff: Pam Haray, Jo Pieper, Coni Strauch, Colleen Leggatt, Kathleen Jayne
Marilyn Lee: Education Coordinator Mary Pickett: Education Associate

SEA LIFE PARK



November 7, 1984

George Balazs
992-A Awaawaanoa
Honolulu, HI 96825

Dear George,

Per your request for on-call turtle observers/research assistants, below is a list of some of our Sea Life Park volunteers. They are eager to help you out, especially for outer island research!!

Also, please find enclosed some petitions for the Sea Turtle Rescue Fund. They have all been signed.

Good luck and please keep us up-dated on turtle happenings!

Aloha,

Marilyn Lee
Curator of Education

enclosures
ML/bam

TURTLE OBSERVATION
VOLUNTEERS

<u>NAME</u>	<u>PHONE</u>	<u>AVAILABILITY</u>
Michele Turner	254-2510	most always
Judy Mick	254-3357	call (6-midnight)
Nikki Rutz	254-5328	call
Kay Allen	395-7761	call (especially Outer Islands)
Marlene Lyons	262-5333	call after 11/20 anytime
Pat Wiencke	395-7704	call
Beth Moorman	988-5073	anytime
Barbara Bingham	523-1759	call



TURTLE BAY—Steve Kaiser, left, and Roger Horn of Sea Life Park urge some of the 32 green sea turtles toward the ocean today at Ballows Beach. The turtles, an endangered species, were hatched four months ago at the park. The two-pound turtles — indigenous to Hawaiian waters — will weight up to 400 pounds when fully grown and can live 30 years. —Star-Bulletin Photo by Ken Sakamoto.

Sea Life Lines

SEA LIFE PARK EDUCATION DEPARTMENT

Volume IV, No. 5

JUNE 1985

MORE THAN 17,000 SCHOOL VISITORS PARTICIPATE IN EDUCATION PROGRAMS

Volunteer docents and education department staff breathed a collective sigh of relief the week of June 2-8 as they finished up the last of some 17,638 school visitors who participated in Sea Life Park education programs this past school year. Sixty-one percent of almost 29,000 school visitors this year took part in education programs. Most of the participants were from Oahu schools, but there were also students from outer islands - even Niihau! All of the regularly scheduled school programs were filled to capacity during most of the spring semester and volunteers served additional students by presenting extra programs. The Legends of the Sea crew responded to an enormous waiting list by performing the famous sea turtle learning station and play twice on Monday mornings. Word of the new pilot program for preschool and kindergarten students spread quickly and the docents in the Na Keiki o Ke Kai program offered it on additional Thursday mornings as well as the originally scheduled Tuesday mornings.

The figures below indicate a steady growth in education programs and numbers of students being reached. The drop in special presentations simply means more students fit into regularly scheduled programs.

SCHOOL YEAR	81-82	82-83	83-84	84-85
TOTAL SCHOOL VISITORS	27,456	24,573	27,920	28,917
Total in Education Programs	9,778	12,671	15,075	17,638
Per Cent in Education Programs	35.6%	51.6%	54%	61%

PROGRAM

SENSE-SATIONAL MARINE EDUCATION PROGRAM % of Education Program (Gr. 4,5,& 6)	6,739 69%	6,629 52%	7,599 50%	6,833 39%
LEGENDS OF THE SEA (Gr. 1-3)	N/A	1,634 13%	3,677 24%	4,822 27%
AQUACULTURE (High School)	N/A	380 3%	58 .4%	N/A
SPECIAL PRESENTATIONS	3,039 31%	4,028 32%	3,741 25%	1,511 8.5%
NA KEIKI O KE KAI (Preschool-K)	N/A	N/A	N/A	4,472 25%

1984-85 SENSE-SATIONAL MARINE EDUCATION PROGRAM BY GRADE	MONDAY-4th	WEDNESDAY-5th	FRIDAY-6th
	2,228	2,293	2,230

While Sea Life Park is very proud of the growth reflected by these numbers, we are even more proud of the many dedicated volunteers whose hours of hard work, warmth and enthusiasm make these programs available to our community.





MARILYN SAYS.....

"SEA LIFE PARK IS PROUD OF ITS VOLUNTEERS!"

From the very beginning of the Sea Life Park Education Program in 1979, volunteers have played a vital role in the various activities of the park. If it were not for the many hours generously donated, we would not have been able to provide many high-quality special events and programs for both our visitors and local residents. In cooperation with the employees (many of whom have also given of their free time), volunteers have supported our efforts with their knowledge, skills, enthusiasm and many hours of labor. MAHALO NUI LOA TO ALL OF YOU FROM ALL OF US!

The realization of the fact that many volunteers have assumed employee status is quite impressive. To date, 34 volunteers have worked or are working for Sea Life Park. Who knows our oceanarium, its staff and operations better than our volunteers? They have assumed support positions such as exit gate monitor, receptionist, whalerman, narrator, fish phantom, costume character, diver, aquarist, instructor, lecturer, tour guide and education associate.

Did you know the following staff were or are park volunteers? From Education: Mary Pickett, Beth Moorman, Lynn Maginnis, Tate Brown (also with Operations and Training), Nancy Childs, Carol Airone, Jane Jones, Lorena Wada; Reef Tank: Alexis Freeman, Liysa Ehlen; Operations: Signy Brown, Maile Rae Ho, Brad Niimi; Training: Miki Grimes and Stephanie Vlachos.

It is a pleasure to have all of you as part of the employee staff. We also are proud to know that many other volunteers have acquired positions in the field of marine sciences. As Sea Life Park's Curator of Education, I never hesitate to say that our volunteers are exceptional people. And, as a representative of the entire staff, I look forward to our oceanarium's continued growth with the support and enthusiasm of both our long-standing volunteers and those who will be joining us in the future!

Marilyn C. Lee

SIX DOCENTS ACHIEVE PERFECT ATTENDANCE!

Even with dedicated volunteers such as we have at Sea Life Park, it almost seems too much to expect perfect attendance. All our volunteers are busy people with families, other jobs and volunteer responsibilities. Then there are always those mean winter colds and flu bugs.

In spite of all that, six volunteers this year attended every day scheduled for their programs. They were DIANE BUMP (Na Keiki on Tuesdays and Thursdays), BE CHAPMAN (Dolphin Observation on Mondays), JUDI MICK (Fish Observation on Mondays), BONNIE TONG (Sea Turtles on Wednesdays), and TOM SHIELDS and MARJORIE WILKINS (Plant Discovery on Fridays).

Each of these special folks received a Wyland Whaling Wall Poster (and a gold star!) at the end of this school year. Mahalo and congratulations!

* SEA LIFE LINES is published "whenevah" by the *
* Sea Life Park Education Department. *
* EDITOR: Mary Pickett *
* WRITERS: Mary, Marilyn Lee, Beth Moorman *
* PROOFREADING: Anonymous *

SUMMER CLASSES FILLING WELL; TEACHING ASSISTANTS NEEDED

While most of the 17 summer community classes have been filled, a few places remain in Marine Animal Photography (ages 15 and up, Fridays, 7/12 and 7/19 and Saturday, 7/13) and Tidepool Discovery (ages 9-14, July 15-19).

Several other classes have two or three openings, including: Tidepool Discovery (June 17-21); Sea Creatures and Crafts (June 24-29); and two of the one-day Keiki and Adult Explorations; and a one-day Family Tidepool Trek. Call the Education Department for details and encourage friends and acquaintances to sign up for these special classes.

We also need teaching assistants for some of the classes, especially Keiki & Adult Explorations, Section 1, which meets for 5 consecutive Thursday mornings beginning June 20, 1985, Sea Creatures and Crafts and two August Keiki and Adult Explorations classes.

We guarantee: hard work, no pay and lots of fun!



FIVE NEW "HOALOHA" AND THREE NEW "SUPER HOALOHA" VOLUNTEERS!

Final tallying of volunteer docent hours for the Annual Meeting May 31 revealed another five volunteers have earned their Hoaloha status by contributing over 40 hours of time and hard work, and three have entered the state of "Super Hoaloha" by contributing over 200 hours.

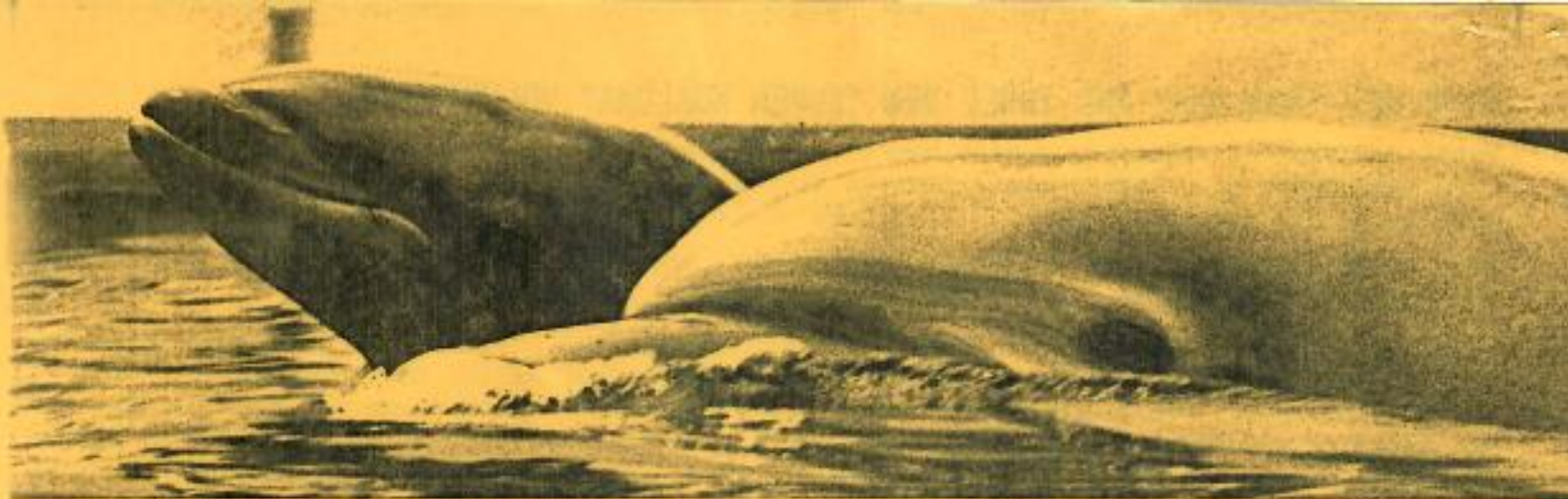
New Hoaloha volunteers are DIANE BUMP (72 hours), CAROL AIRONE (63 hours), DIANE HAAS (59 hrs), MARIAN KOLB (45.25 hours) and SUZANNE YOU (50 hours).

New Super Hoaloha volunteers are MACK PALK (216 hours), TOM SHIELDS (209 hours) and MARJORIE WILKINS (211.5 hours.) MACK has been with the Sensational Marine Education Program since the fall of 1981. She has served at the 5th grade learning stations on Sea Birds of Hawaii and Penguins and has been active on our volunteer social committee. TOM and MARJORIE joined the park in the Fall of 1983 and both work at the Plant Discovery Learning Station presented on Fridays for 6th grade students. Tom has given the station greater emphasis on Hawaiian geology and seashore plants. Marjorie's weekly offering of poi, sweet potatoes and haupia has made the station's "taste sensation" more like a mini-luau! Tom also spends time with the landscaping department, nurturing some rare endemic and indigenous Hawaiian plants along the Whaler's Cove Walkway. (You say you can't remember the difference between endemic and indigenous? Ask Tom, or better yet, come again to next fall's Volunteer Docent Workshop session on plants.)

CONGRATULATIONS AND MAHALO NUI LOA TO ALL OF YOU!

CURRENT VOLUNTEERS: HOURS OF WORK, DAYS OF CARING.....

<u>VOLUNTEER DOCENT</u>	<u>STARTING DATE</u>	<u>HOURS</u>	<u>VOLUNTEER STUDENT(Dept)</u>	<u>STARTED</u>	<u>HOURS</u>
SUPER HOALOHA:			SUPER HOALOHA:		
KAY ALLEN	Fall 1980	320	MAILE RAE HO (TR)	Summer 84	242
MILDRED BACHMAN	Spring 1979	387	JOE MARTINO (RT)	Summer 82	1,755
ANGELA BAUM	Fall 1980	265	STEPHANIE VLACHOS (TR)	Winter 83	465
SIGNY BROWN	Fall 1982	241	HOALOHA:		
NANCY CHILDS	Spring 1983	262	BARBARA BINGHAM (TR)	Fall 84	115
AUDREY GEORGE	Fall 1980	328	JEFF FRANKLIN (TR)	Winter 85	61
JANE JONES	Fall 1980	331	RYAN HAMASAKI (TR)	Winter 85	80
MACK PALK	Fall 1981	216	JUDY MICK (TR)	Fall 84	135
JO PIEPER	Fall 1982	214	ROGER ROACH (TR)	Summer 84	174
TOM SHIELDS	Fall 1983	209	TOM SHIELDS (LS)	Fall 84	158
BETTY SMITH	Fall 1980	353	CINDY VAUGHAN (TR)	Fall 84	98
BARBIE THORSTAD	Spring 1981	254	REST OF THE CREW:		
PAT WIENCKE	Fall 1980	313	DAWN BEYER (RT)	Spring 85	35
MARJORIE WILKINS	Fall 1983	211	MARIA BRILL (TR)	Spring 85	28
HOALOHA:			JENNIFER CARVALHO (TR)	Spring 85	32
CAROL AIRONE	Fall 1984	63	NEW SUMMER 85 VOLUNTEER STUDENTS:		
DIANE BUMP	Fall 1984	72	ROSA CHEN (ED)	BRAD NIIMI (ED)	
BE CHAPMAN	Spring 1984	80	GLORIA CHEN (ED)	NOREEN NIIMI (ED)	
FAYE DOMKE	Fall 1982	140	TERI CHRISTENSEN (ED)	MELISSA SHAW (TR/ED)	
DIANE HAAS	Fall 1984	59	WINONA HANAPI (TR)	JODY STRANDBERG (TR/ED)	
JAMES KELLY	Spring 1985	45	TISA LIU (TR)	LAURA TURNER (TR/ED)	
MARIAN KOLB	Fall 1984	45	SCOTT MIYASHIRO (RT)	TONI TURNER (ED)	
JUDY MICK	Fall 1984	127	RICK MOWER (ED)	DANN WALKER (TR/ED)	
ANNE QUASTEL	Fall 1984	85	<i>ED=Education Dept. TR=Training Dept.</i>		
NANCY ROBERSON	Fall 1984	82	<i>RT=Reef Tank Dept. LS=Landscaping Dept.</i>		
NIKKI RUTZ	Fall 1984	86	MARGARET HOOVER	Spring 1985	26
BONNIE TONG	Fall 1983	118	KAREN HUFFAKER	Spring 1985	23
WORKING TOWARDS HOALOHA STATUS:			GRETCHEN LAMBERT	Spring 1985	27
CAROL BOHN	Spring 1983	24	JILL SEDLMAYR	Spring 1985	28
DONALD DAVIDSON	Spring 1985	24			
ALICE FULTON	Spring 1985	17			



PUNAHELE PROUDLY PRESENTS A VERY SPECIAL OFFSPRING!

Punahele finally did it! In the early evening of May 15, this very pregnant Atlantic bottlenose dolphin (we had been predicting an imminent birth ever since Christmas) finally gave birth to a very special offspring, a dolphin-false killer whale hybrid. I'anui, our male false killer whale, *Pseudorca crassidens*, is the father of the baby, affectionately called a "wholphin."

The calf, whose sex is yet to be determined, is dark grey-black with lighter color on the rostrum and upper part of the melon. At birth, it weighed an estimated 35 pounds, typical weight for a newborn dolphin. It seems to exhibit characteristics of both parents with a rostrum, or "beak" similar to the bottlenose, but more abbreviated, and a sloping melon or "forehead", more similar to the killer whale. While such hybrids seem to be rare in the wild, there have been a few instances of crossbreeding in captivity. None are known to be living currently. Scientifically the calf would be known by the genus names of the parents: *Pseudorca x Tursiops*.

Yet to be named individually, the baby is nursing well, shows signs of independence by leaving its mother's side for short periods and is growing daily...all signs of good health in these first critical weeks following birth. Another real plus in the baby's favor is its mother. This is Puna's third calf. An experienced and conscientious mother, she has successfully raised two other dolphin calves here at the park, Itsy Bitsy and Kaiko'o.

OTHER DOLPHIN DOINGS.....

In late May, Itsy Bitsy (Puna's grown-up daughter) and Nihoa (on R&R from the Kahala Hilton) were removed from Bateson's Bay to a pool in the training area compound. Two of the Pacific bottlenose dolphins collected last summer (Uila and Okoa) were moved from training into Bateson's in order to provide a larger training area. They are progressing well and will be ready for Whaler's Cove Shows soon. Kiana Pugh is training these animals with the assistance of John Oakley. Okoa is the animal with scars around her right eye thought to be caused by cookie-cutter sharks. Keola, another homegrown Atlantic bottlenose, and Kaiko'o, Puna's 4-year old son, will remain in Bateson's Bay.

NEW SEABIRD CHICKS AT SANCTUARY

Four fluff-covered masked booby chicks from Tern Island in the Northwestern Hawaiian Islands have been transplanted to our Seabird Sanctuary. As with previous chicks, who have imprinted on the park, they spend the day in the sanctuary and then each evening are brought into the training area for better protection against the elements and prowling mongooses. Three albatross chicks are with us also. One black-footed albatross comes from Kauai where he insisted on sitting on the airport runway. Partially fledged, he or she is a real stand-out in the sanctuary with enough waving down on head and shoulders to resemble a feather boa. Two other albatrosses, a Laysan and a black-footed, were brought to the park from the Northwestern Islands for rehabilitation. Diagnosis is not confirmed, but symptoms appear to be lead poisoning.



COMING UP:

SPECIAL EVENTS, EXPANSION, RECRUITMENT, SEA LION PUPS...

JUNE IS NATIONAL ZOO AND AQUARIUM MONTH. Sea Life Park is offering special opportunities for all visitors. Costume characters, Fat Fred and Kolohe, artfully played by Tate Brown, Brad Niimi, Stephanie Vlachos and/or Maile Rae Ho, honor us with their presence from 9:30-2pm-daily. They assist with the special three-times-a-day drawing for special gifts. Guided Tours are "on the house," on a first-come, first-served basis. You won't want to miss the informative display on our new whale-dolphin hybrid baby. The display is located just inside the main gate. Come join us for fun and interesting experiences during this special month.

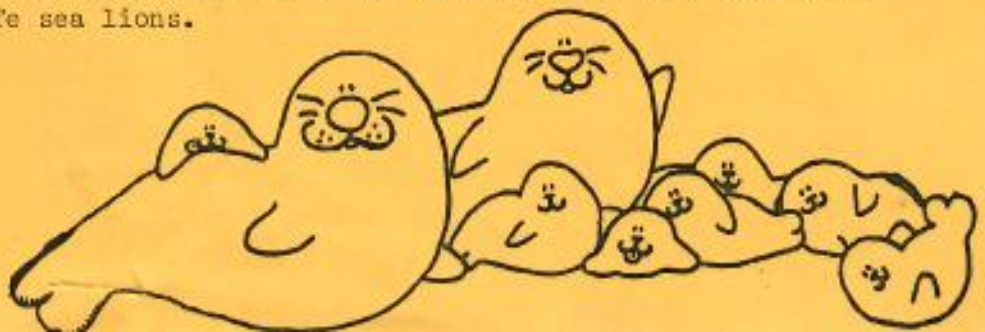
WHALER'S COVE WILL HAVE EXPANDED SEATING very soon. Bleachers, accommodating 300 people will be installed at the top of the existing bleacher system. We are sure our many visitors will appreciate the additional space. Now... you may wonder about Ocean Science Theater seating which is a very different setting with many difficulties to consider in its expansion. Our hard-working maintenance staff is working on solving the problems for the future. We were all very pleased to have the Ocean Science Theater Show, under trainer Carol Chang's supervision, offered at an additional time for our "large-school-number" days this past spring. We do want to avoid having the OST staff and animals provide additional shows as it does create stress. Therefore, we will be carefully monitoring our daily attendance this summer and through Spring 1986.

A VOLUNTEER DOCENT RECRUITMENT COFFEE is being planned for Wednesday, September 4, 1985 from 4-6pm. We are hoping to offer interested individuals the opportunity to learn about our education programs and sign them up for our Fall 1985 Volunteer Docent Program Training and Instructional Workshop, beginning Friday, September 6 at 9am. As discussed at the end of the school year docent meeting, we would like to have our current docents set up their learning stations throughout the park to be available to informal with the participants. If you know of individuals and/or groups we should invite, or if you would like to assist the staff in planning this event, please call us!

A BUSY SUMMER CALLS OUT..... Don't be strangers just because it's summer! We have classes, special presentations and 85-86 school year preparations (xeroxing, mail-outs, prop repairs) needing your expertise and enthusiasm! Call us if you have free time.

HOT FLASHES FROM THE SEA LION COLONY....

Up at the Sea Lion colony, all the summer 1984 pups have been moved into the training compound for weaning, which gives their moms a few weeks rest before the expected arrival of five or six new pups in late June or July. Exception is Kepa, who was born on September 1 last year. He remains with his mom in the nursery pool. Kaimoa, the dominant bull sea lion is still battling for his number one position with young upstart, Nalu. Will this be the season for a new regime? Will Ho'oi'oi, Maniho, Makapolo, Pala, Ganseng, Benita, Elizabeth, and L-9 bear Kaimoa's child? Is Nalu the real father? Will Puhi ever get a chance at fatherhood? Does Puhi care? And what about Alohi? Stay tune for the continuing saga of sea life sea lions.



END OF THE SCHOOL YEAR PICNIC: A HUGE SUCCESS

Many thanks to our super Social Committee for a most enjoyable and well-planned picnic at Waimanalo Bay State Recreation area on Sunday, June 9. All the potluck contributions as well as steak and hot dogs provided by the park, made for great eating. Several youngsters took prizes in the sand sculpture contest and Ellyn Tong won a fish bowl full of Pepperidge Farm fish crackers by guessing just how many hundreds were in the jar. The water balloon toss degenerated into a real free-for-all and this reporter has forgotten the winners, but Nancy Childs was a good sport about getting the balloon down the back of her neck. People are still debating the fine points of the scavenger hunt, but everyone got prizes anyway. Awards, leis and gifts were presented to our newest Hoaloha and Super Hoaloha volunteers and to those with perfect attendance. Mahalo letters and photographs taken throughout the year were also distributed. **THOSE WHO WERE ABSENT, PLEASE STOP BY THE EDUCATION OFFICE THIS SUMMER TO PICK UP YOUR GIFT, AWARD, LETTERS OR PHOTOS. SEE YOU SOON!**

SEA LIFE PARK
Education Department
Makapuu Point
Waimanalo, HI 96795



George Balazs
HI Institute of Marine Biolo
PO Box 1346
Kaneohe, HI 96744

FIRST IT WAS 'SAVE THE WHALES,' NOW IT'S 'FREE THE DOLPHINS'

BY SHARON BROWNE

Jackie, a bottlenose dolphin, lives in a small enclosure behind a restaurant on Longboat Key in Florida's Sarasota Bay. He spends the day in a screening trap, suspended in the murky water in a corner of his pen, his blow hole just above the surface. When customers come out to see him, he swims closer to the canopy, remaining along three sides of the enclosure, but he usually remains teasingly beyond the reach of the hands that seek to touch him.

At a little past 4 p.m., a lanky blond youth wearing reflector sunglasses saunters from the restaurant with a bucket of Spanish mackerel. At his appearance Jackie perks up, swimming rapidly back and forth under a pogie that extends over the pen, and bends over the pen, and slips the water with his tail. "Aw, he's just mad 'cause I'm ten minutes late," the young man tells the crowd gathered for the feeding. He leans over the railing of the pen to greet Jackie. "O.K., Jackie," he says.

The young man holds out a mackerel, shaking it slightly by the tail. The pogie/dolphin leaps from the water, exposing all of his nine feet and 600 pounds. At the zenith of his arc he grasps the fish in his toothy jaws, then falls back with a splash. Jackie chews on the mackerel half heartily before letting it drop to the bottom of the bay. After taking three more fish he refuses to budge, no matter how enticingly the young man wiggles another. The young man leans. Shooing away some pelicans, he picks up his bucket and goes back inside.

There's nothing really wrong with Jackie. In fact by my calculations, a biologist who has studied bottlenose dolphins in Sarasota Bay for nearly 17 years. He's just bored. And not surprisingly, considering his plight, he's cooped up with no comrades, has an indifferent keeper, and has nothing to do all day. I know what bottlenose dolphins ought to be like. The bay seems vibrant with leaping, chasing fish, riding the bow waves of boats, scrapping with each other, having sex to favorite activity among this species. Jackie must surely be miserable.

As we motor out into the bay to watch the wild dolphins, we wonder about the morality of feeding such a bourgeois, unctuous mammal a fish with his own kind. Indeed, should any marine mammals—dolphins, porpoises, whales, sea lions, seals, sea otters, et al.—be kept in captivity?

To an increasingly militant and well-financed segment of the animal rights movement, the answer is unequivocally no. Activist

groups include not only the much publicized Greenpeace, which has made straws within a worldwide cause, but also the lesser known and even more radical Sea Shepherd, Project Jonah, and People for the Ethical Treatment of Animals. Many of them believe that keeping animals in tanks is an act of cruelty equivalent to keeping an innocent person in jail.

The people who work with marine mammals—equarian and oceanarium curators, dolphin trainers, veterinarians, scientists—the activities of animal rights groups are a threat to their professions, especially in view of the claim they've lately shown abroad. In response primarily to pressure from Greenpeace, legislation has been proposed in Britain and Australia to restrict dolphinariums or to close them entirely unless they institute sweeping—and expensive—reforms.

This train of events wasn't entirely unexpected and isn't wholly unanticipated. In Australia and many European countries, captive marine animals have long been treated shabbily. In Chicago, England, for example, a young killer whale named Nemo lived in a ten-foot-deep swimming pool until the gro-

so large his owner (an American company) had to raise him. Captivity in the U.S. is much less grim, thanks in large part to the Marine Mammal Protection Act (MMPA), which passed in 1972 in the wake of the public outcry over whaling and the death of hundreds of thousands of dolphins each year in tuna nets. The MMPA regulates the treatment of both wild and captive marine mammals. Administered primarily by the National Marine Fisheries Service (NMFS, pronounced "nompas" by those in the business), the act prohibits killing or harassing any marine mammal in U.S. waters (with certain exceptions: some native Albatross, for instance, are permitted to kill a few bowhead whales each year). NMFS also disallows the conditions under which the more than 1,300 captive animals are kept. (Jackie, by the way, is an exception. He's a "grandfathered" animal, named before the enactment of MMPA, which is why the restaurant, a private owner, is allowed to keep him.)

The MMPA is an exemplary piece of conservation legislation, far stronger than the laws governing marine mammals in most other countries. Even so, many advocates of animal rights complain it is woefully inadequate, and badly in need of a boost.

They pose three fundamental objections to keeping these creatures captive. First, they charge that removing them from the wild

is endangering local populations, despite NMFS regulations. They concede that most ocean species aren't in danger (the number caught for public display in the U.S. is actually quite small—a few dozen a year, at most) and mostly all pinpoints (beals, walrus, sea lions) in oceanariums were seen there, or were found sick or injured on beaches. But some species could be in jeopardy, particularly those whose numbers are easily depleted. In the late 1960s and early '70s so many young female killer whales were caught in the Pacific Northwest that the birth rate of the wild. Consider the fate of captive belugas, white Arctic whales sometimes called sea canaries for their high-pitched, melodious utterances. Of 31 netted for display in the U.S. and Canada since 1972, only 19 are still alive. On the face of captive killer whales of 56 caught since 1965, 23 remain. Over a 15-year period one oceanarium collected 31 spinner dolphins, an exquisitely graceful, gregarious species that sports in Hawaiian waters. One was released. Twenty-nine died in captivity. The last dolphin, bereft of her companions, was finally released in 1983.

Third, say the protectionists, even if an animal survives, it's doomed to a pitiable existence. In their tanks or pens the captives become lethargic, indifferent, even neurotic, ritually repeating meaningless acts like swimming in tight circles or banging against the sides of their prisons. Their health deteriorates, and they gain weight. Chlorinated water irritates their skin and eyes. And, claim their defenders, normally inquisitive dolphins become mute and their bodies shrivel by as much as 30 per cent from lack of use.

Mammalogists point out that even though animal rights advocates like to cite scientific studies to support their alarmist claims, they've chosen increasingly to distance themselves from the methods and objectives of unbiased research, thus damaging their position. For example, the assertion that dolphins fail silent in captivity is wrong. They may emit sounds somewhat less often than dolphins do at sea, but dolphins in the wild have no choice but to communicate vocally, because they're often out of visual range of each other even during daylight. (One study, in fact, found that dolphins generally signal with body language if other dolphins are visible.)

Equally unsubstantiated is the claim that

Animal rightists say keeping marine mammals is cruel. Scientists see extenuating circumstances

dolphin's brain shrink in captivity. This finding is based largely on displaced comparisons of body-to-brain ratios between stressed and unstressed mammals. A direct comparison of the brain weights of captive and wild dolphins showed no significant difference.

Curators acknowledge that NMFS records of animals in captivity may not look good, but they say the low numbers did not tell the whole story. Most deaths occurred when oceanariums were making their first, often bungling, attempts at caring for marine mammals, at a time when nobody knew how to do it. Those early losses sharply skewed the mortality statistics. For the most part, curators have abandoned trying to keep difficult species, such as the spinner dolphin, and survival rates are rising steadily for pin-striped and some cetaceans though not for all; few pilot whales, for example, have flourished in tanks—possibly, some scientists and trainers think, because they're such social creatures they can't live without their pod-mates.

Moreover, the animals are breeding in captivity. In 1983 a third of all captive bottlenose dolphins were captive born, whereas in 1979 only a fifth were. At Sea World in Orlando, trainers and vets are cooing a baby killer whale born there in September 1985. Seals and sea lions are becoming so prolific that oceanariums don't know what to do with their offspring. Such fecundity, curators believe, demonstrates the quality of care, because unhappy and unhealthy animals don't breed.

More difficult to refute is the contention of many activists that captive animals are washed, especially in light of recent findings indicating that dolphins, whales, and manatees are far more aware and intelligent than we suspected. Pinpoints, for example, have concise vocal repertoires with which they can undoubtedly communicate their emotional states. Many cetaceans are adept vocal and behavioral mimics; simply by watching other members of their species, dolphins have been known to learn how to perform tricks and complicated show routines. And both bottlenose dolphins and sea lions have shown they can respond to sentences transmitted to them by symbolic acoustic tones or by arm gestures, such as "Touchgate Fricker,"—meaning "Touch the gate with the Fricker"—a sentence they've never seen of heard before but understand because they know the meaning of each word (DISCOVER, Oct. 1981).



Howey also like this one do have to know how the animals really feel.

Such abilities, among many others, indicate that we're dealing with exceptionally bright creatures, a fact that raises the disturbing possibility that we're causing them mental anguish. But how can we tell? Activists say the captives are despondent. Curators and trainers disagree. In truth, the reaction of the animals appears to vary enormously from specimen to specimen and from individual to individual, but in the end nobody—not the animal rightists, not the oceanarium or trainers—can

'We'd do well to recognize that if animals have rights, it was we who conferred them'

Anyway, the sensibilities of animals isn't the whole point. It's equally pertinent to ask how imprisoning them affects us. We too are diminished by it. The very word animal, deriving from *anima* (Latin for breath and soul), betrays the spiritual bond first felt by our ancestors, who depended on wild creatures for their existence. Captivity severs a strand of that ancient connection, which persists only in diluted form; it's there in the fables we read to our children and the exhilaration we feel upon hearing coyotes howl or glimpsing the flash of an elk's white ramp through the trees.

Our relationship to animals shifted irrevocably when we stopped living among them and came to be responsible for them. As marine mammalogist Ken Norris has written, "I think we would do well to shift aside the question of animal rights, recognizing that if there are rights we conferred them. Rather, we should realize that our growing wonder at the possible awareness of the other creatures on earth has a natural corollary: care."

But are we being good caretakers by holding a dolphin or a seal in a tank? Yes, if two conditions are met: that they're given the best treatment possible and, no less important, that they're displayed in a way that educates and informs us. Captive animals must be allowed to serve as ambassadors for their species.

This isn't a new idea. In the past decade most courses of zoos have come to consider conservation and informing the public their primary missions. However, many animal defenders believe that oceanarium curators trumpet education only to rationalize their true motive—making money.

As it happens, very few oceanariums are particularly profitable (the three Sea Worlds are notable exceptions), yet the opinion of animal rights groups is understandable. Until recently, oceanariums have always put on a gay public face, never letting on that any of their animals could take ill and die. How annoying—and insulting—it is to find out that the animal we see performing before us as "Shamu the Killer Whale" isn't the original Shamu, but one among many given that stage name over the years as their predecessors died.

A number of oceanariums, especially the commercially successful ones, are gaily amusement parks in which marine mammals (and the public) are subjected to an inextinguishable degree of hedonism. The animals have often been cast in comic roles—sea lions in ludicrous costumes, porpoises jumping through hoops, killer whales getting their teeth scrubbed with giant toothbrushes. Such shows do little to inform us of a breed's natural abilities.

To be fair, the shows have improved in the past five years. Most dolphins and whales no longer perform tricks in rapid skirts (though sea lions and walrus still do). And even the deplorable performance did some good. When the first killer whale was put on public display, most people considered it a bloodthirsty carnivore that killed for sport—"savage sea cannibal," a 1954 *Time* article called them. But after watching their trainers swim unharmed with them, the public changed its perception. Killer whales came

to be viewed as cute and lovable. For some people (especially some advocates of animal rights) these and other oceanariums are evil almost as gods, far wiser and more peaceable than humans.

Certainly, a good portion of the more than 100 million people who visit zoological parks, aquariums, wildlife parks, and oceanariums each year is there solely to be entertained, but there's another component to our enchantment with these animals. They remind us that the planet is inhabited by creatures in many ways as remarkable as ourselves.

The desire to preserve the natural world begins with empathy, which can develop solely through direct contact. Such feelings can't be filtered through the media, print or film. Oceanariums, for all their razmatazz, represent the only chance most of us will ever have to feel the quickening and expansion of our lives, to borrow John Muir's compelling phrase, that comes from viewing a sea lion, a walrus, or a whale. Indeed, the captives have a mission. It's largely up to them to stir compassion in the poor, bare, forked animal that wields the power to ensure their survival in the wild.

To anyone who has seen reflected in a dolphin's eye a deep and distant intelligence, the ardent message of some oceanariums in the animal rights movement is profoundly disturbing. They would have these animals live completely apart from us. There would be no captives for scientific inquiry, and certainly none for public amusement. Oceanarium shows, as I said, are unfair, they say, and watching nature films is far superior to seeing these animals in tanks. Animal rights philosopher Tom Regan would even prohibit whale-watching tours, because they infringe upon the whales' right to privacy.

Carried to extremes, such views could eventually destroy the emotional and spiritual bonds with the natural world that form the basis for our environmental conscience.

Perhaps in a sadder, gentler world we wouldn't need oceanariums and zoos. Perhaps the day will come when we won't have to imprison animals in order to hold on to some remnant of concern for them. But I doubt it. And without the capital invested in oceanariums in this country, it's unlikely that the animal rights movement will succeed in getting them or research labs to release their animals any time soon. A much more sensible course for animal rightsists would be to sit down with curators and scientists and discuss their practices—for the benefit of both the animals and ourselves.

Surely, we have much to learn about these marvelous creatures in our care, as I learned from Jackie, the bottlenosed dolphin. A number of the bars of his enclosure have rusted away, leaving holes wide enough for even fat old Jackie to swim through. And he knows where the holes are; once a manatee swam into his enclosure and he promptly chased it out. So why doesn't he leave to join the wild dolphins that cavort in Sarasota Bay? Is it fear? Is it an unwillingness to take risks after nearly a lifetime of captivity? For the moment, no one can tell what goes on in the mind of a dolphin. □



The first. Sure, but which Shamu is it? The first or the sixth?

George Balazs
National Marine Fisheries
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Honolulu, HI 96822

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EDUCATION DEPARTMENT
MAKAPOU POINT
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TIDEPOOL CREATURES · SUPER SEA TURTLES · FACING UP TO FISH

SPRING '87



Spring

at a

Glance



<i>January 10</i>	<i>KEIKI & ADULT EXPLORATIONS #2</i>	<i>4-5 years with adult</i>
<i>January 17</i>	<i>FAMILY ADVENTURES #14</i>	<i>6yrs-adult</i>
<i>February 7</i>	<i>SEA CREATURES & CRAFTS #6</i>	<i>6-8 years</i>
<i>February 14</i>	<i>KEIKI & ADULT EXPLORATIONS #3</i>	<i>4-5 years with adult</i>
<i>February 21</i>	<i>SEA CREATURES & CRAFTS #10</i>	<i>9-12 years</i>
<i>March 3-April 14</i>	<i>KEIKI & ADULT EXPLORATIONS #1</i>	<i>4-5 years with adult</i>
<i>March 7</i>	<i>FAMILY ADVENTURES #15</i>	<i>6yrs-adult</i>
<i>March 14</i>	<i>SEA CREATURES & CRAFTS #7</i>	<i>6-8 years</i>
<i>March 21</i>	<i>SEA CREATURES & CRAFTS #12</i>	<i>13-15 years</i>
<i>March 23-27</i>	<i>TIDEPOOL DISCOVERY #13</i>	<i>9-12 years</i>
<i>April 4</i>	<i>SEA CREATURES & CRAFTS #8</i>	<i>6-8 years</i>
<i>April 11</i>	<i>KEIKI & ADULT EXPLORATIONS #4</i>	<i>4-5 years with adult</i>
<i>April 18</i>	<i>SEA CREATURES & CRAFTS #11</i>	<i>9-12 years</i>
<i>April 23, 26, 30</i>	<i>MARINE ANIMAL PHOTOGRAPHY #18</i>	<i>15yrs-adult</i>
<i>April 25</i>	<i>FAMILY ADVENTURES #16</i>	<i>6yrs-adult</i>
<i>May 2</i>	<i>SEA CREATURES & CRAFTS #9</i>	<i>6-8 years</i>
<i>May 9</i>	<i>KEIKI & ADULT EXPLORATIONS #5</i>	<i>4-5 years with adult</i>
<i>May 16</i>	<i>FAMILY ADVENTURES #17</i>	<i>6yrs-adult</i>



SEA LIFE PARK

SPRING '87

PRESCHOOLERS WITH ADULT

KEIKI AND ADULT EXPLORATIONS (6 Sessions)

Preschoolers, ages 4 and 5, and an adult companion explore our ocean world in 6 two-hour class sessions featuring simple arts and crafts, learning experiences with live animals, songs, stories and role-playing.

LIMIT: 10 adult/child teams

FEE: \$60 per team

INSTRUCTOR: Barbie Thorstad

K&A SECTION 1: Tuesdays, 2pm-4pm
March 3 - April 14
(excluding March 24)

KEIKI AND ADULT EXPLORATIONS (1 Session)

Individual two-hour classes feature fun and facts with marine animals. All one-session classes are Saturday from 9am to 11am.

LIMIT: 10 adult/child teams

FEE: \$12.50 per team

INSTRUCTOR: Barbie Thorstad

K&A SECTION 2: SUPER SEA TURTLES, Jan 10

K&A SECTION 3: WHALES & DOLPHINS, Feb 14

K&A SECTION 4: FISHY FACTS, April 11

K&A SECTION 5: SEA LIONS & SEALS, May 9

LOUISE
+
Steve



ELEMENTARY & INTERMEDIATE STUDENTS

SEA CREATURES AND CRAFTS

During each two and a half hour class, students will learn about marine animals and create art and crafts projects. There are sections geared for different age levels. All one-session classes are Saturday from 1:30-4pm.

LIMIT: 15 students

FEE: \$8 per section

INSTRUCTORS: Glynnis Nakai and Laurie Starks

6-8 years

SCC SECTION 6: WHALES & DOLPHINS, Feb 7

SCC SECTION 7: FISH OBSERVATION, March 14

SCC SECTION 8: SEA TURTLES, April 4

SCC SECTION 9: SEA LIONS & SEALS, May 2

9-12 years

SCC SECTION 10: WHALES & DOLPHINS, Feb 21

SCC SECTION 11: FISH OBSERVATION, April 18

13-15 years

SCC SECTION 12: WHALES & DOLPHINS, March 21

TIDEPOL DISCOVERY

Five consecutive mornings involve learning experiences at Sea Life Park and field trips to nearby beaches and tidepools to study marine invertebrates and fish. Students will be wading only.

LIMIT: 15 students

AGE: 9-12 years

FEE: \$60

INSTRUCTOR: Glynnis Nakai

TD SECTION 13: Mon-Fri, March 23-27
8-11am

REFUND POLICY: Registration fees are refundable with cancellation notice 7 days prior to class. There will be a refund for cancellation less than 7 days prior to the class only if your vacancy is filled.

FAMILY ADVENTURES

Four SATURDAY classes offer families the opportunity to share fun and learn about the ocean. Participants may stay after class for regular park shows and lectures.

LIMIT: 18 persons per section.
Each registration must include at least one adult.

AGES: 6 years to adult

FEE: \$10 per participant

INSTRUCTOR: Mary Pickett

WHALES AND DOLPHINS

A presentation on whales and dolphins using a variety of props, including whale teeth, baleen, and a close-up look at live animals. Concludes with an art project.

PA SECTION 14: Jan 17, 8am-noon

FACING UP TO FISH

A look at fish including a lecture with hands-on props, a game in the Hawaiian Reef Tank, bamboo pole-fishing and creation of a fish print (Oyotaku).

PA SECTION 15: March 7, 8am-noon

TIDEPOL TREK

An introduction to tidepool creatures using a variety of props and the behind-the-scenes invertebrate tank, followed by exploration of nearby tidepools.

PA SECTION 16: April 25, 8am-11am

PA SECTION 17: May 16, 8am-11am

ADULT

MARINE ANIMAL PHOTOGRAPHY

Capture marine animals on film in a "dry land approach" to marine photography. Lecture-slide presentation and critique on Thursday evenings; field work Saturday morning at the park. Students should have some knowledge of 35mm photography and provide own camera and film. Electronic flash desirable, but not necessary.

LIMIT: 15 students

AGE: 15 years to adult

FEE: \$35

INSTRUCTOR: Dr. Art Reed, professor of zoology and nature photographer

MAP SECTION 18: Thursdays, April 23 & 30
7pm-9pm
Saturday, April 25
8am-12noon

Sea Life Park

Class Registration Form

Advance registration is recommended at least **TWO WEEKS PRIOR TO CLASS DATE**. Please make checks payable to: **SEA LIFE PARK**. Fill in all information requested and mail to:

SEA LIFE PARK
EDUCATION CLASS REGISTRAR
MAKAPU'U POINT
WAIMANALO, HI 96795

Enrollment is limited, so mail now to ensure a place!

NAME: _____

ADDRESS: _____

(street) _____

(city) _____

(zip) _____

PHONE: day _____

eve _____

CLASS TITLE: _____

SECTION #: _____

DATES: _____

Participant's Name(s): _____

Age: _____

Age: _____

Age: _____

FEE: _____

CLASS TITLE: _____

SECTION #: _____

DATES: _____

Participant's Name(s): _____

Age: _____

Age: _____

Age: _____

FEE: _____

CLASS TITLE: _____

SECTION #: _____

DATES: _____

Participant's Name(s): _____

Age: _____

Age: _____

Age: _____

FEE: _____

TOTAL ENCLOSED: _____

In case of emergency contact:

(Name) _____

(Phone) _____

(Doctor) _____

(Phone) _____

Jan. 7, 1987

Mr George Balazs
National Marine Fisheries Service
Southwest Fisheries Center
2570 Dole Street
Honolulu, HI 96822-2396

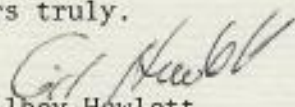
Dear George:

Happy New Year. It was good to hear from you last November and I regret the delay in responding but the Vancouver Aquarium has been dealing with replacing the tropical saltwater fish collection that was poisoned late in November. (See the article in the enclosed newsletter). However, we have had an overwhelming response from the community and have replaced about 75% of the species lost.

The hawksbill and loggerhead sea turtles have gone to Yomiyuri-land Marine Aquarium in Tokyo thanks to Canadian Pacific Airlines. We are certainly obliged to them for this. Up to this point there has been no mention of an article on the head start program in their In-flight magazine, so I don't know if it will happen or not.

I have advised our aquarists of your request in regard to the alloy tags on the green sea turtles. At this time they appear quite comfortable.

Yours truly,


K. Gilbey Hewlett
Curator

KGH/mb



HAWAIIAN VISITOR

Tim Low of the Vancouver Aquarium holds Honu, a two-year-old Hawaiian green sea turtle who is being raised in B.C. until she or he is old enough to survive in Hawaii.

Staff photo by Colin Savage
(Honu's sex won't be known until Honu is five or six.) Green sea turtles are endangered; Honu is one of three brought to Vancouver in a 'Head Start' program.

1987 Micronesia Members' Tour

The small tropical islands of Micronesia are among the most beautiful and fascinating islands in the world. Members are invited to tour the tropics from Hawaii to Micronesia with Murray and Kathy Newman. (departure January 25th)

Should you wish to join this expedition, please call Dick Craddock at 682-4272.

Members' Shopping Evenings

For the convenience of our Members, the Clamshell will remain open until 9 pm on Thursday, **December 4**; Monday, **December 8**; Thursday, **December 18**. Otherwise, the Clamshell is open 7 days a week, 10 am to 5 pm. Remember, members receive a 10% discount in the Clamshell.

Supporting Membership

Annual Supporting Members play a vital role in helping the Vancouver Aquarium maintain a high standard of quality and continue its research and education programs. They are gratefully recognized within the Aquarium and in special publications.

Supporting Memberships are tax deductible less the amount of regular membership dues.

<i>Benefactor</i>	<i>\$1,000 and up</i>
<i>Contributor</i>	<i>\$500 to \$999</i>
<i>Friend</i>	<i>\$250 to \$499</i>

New Supporting Members:

Friends:	Mrs. Nancy M.A. Cliff The Johnston Floor Co. Ltd. Ms. Marion Montador Dr. & Mrs. Kevin C. Murphy
----------	---

Renewing Supporting Members:

Contributors:	Mr. & Mrs. W.W. Bennett
Friends:	Crossman Machinery Company Limited Great Northern Packing Ltd. Mrs. Martha Lou Henley P. Lawson Travel Mr. & Mrs. Gordon F. MacFarlane Ian W. McDonald Mrs. Anthony W. Robertson Andrew & Rosy Wallace White Spot Limited

Vancouver Aquarium
P.O. Box 3232
Vancouver, B.C. V6B 3X8
(604) 685-3364

Editor: Stefani Hewlett Designer: Greg Davies

SEA PEN

VANCOUVER AQUARIUM NEWSLETTER

Volume XXX Number 5
November/December 1986



December 4: World's only **electric eel powered Christmas tree**. "Sachs" and "Hunter" the Aquarium's two electric eels will be zapping their way through the holidays in a magnificent display of bio-electric skill. Watch for our little tree in the Graham Amazon Gallery. The **official plugging-in** ceremony will take place at the Members' Party on December 4th.

December 16, 18: **School choirs** singing in the galleries, 11:15 am and 1:15 pm.

December 20, 21: **Children's Puppet Shows**, 11:15 am and 1:15 pm.

December 25: **Christmas Day**, visitor hours - 12:00 noon to 5:00 pm.

January 1st: **New Year's Day**, visitor hours - 12:00 noon to 5:00 pm.

Good News from the Clamshell Gift Shop Clamshell Gift Catalogue

For a fantastic selection of unusual Christmas gifts look no further than your copy of the Clamshell's new and exciting gift catalogue.

How about a matching mug and tie set for a hard-to-buy-for man, a Bonsai Kit for your favourite gardener, Noah's Ark vinyl colouring tablecloth for the young artist, or Raffi's "Baby Beluga" record for the young musician?

The Clamshell has a wonderful selection of jewellery, Northwest Coast Indian handcarved silver and gold earrings, pendants and bracelets. One of the city's best collections of natural history books is found here, as well as a vast array of gorgeous art posters.

A great gift to mail is the Vancouver Aquarium 1987 Calendar, filled with the Aquarium's most photogenic animals.

Robert Bateman's 'Northern Reflections - Loon Family'

The Clamshell is very pleased to offer for sale '**Northern Reflections - Loon Family**' by Robert Bateman. Painted originally as a wedding gift from the Canadian government to Their Royal Highnesses, The Prince and Princess of Wales, in honour of their marriage, this painting is undoubtedly one of Mr. Bateman's most admired creations. Permission has recently been given allowing limited edition prints to be published in order to benefit several conservation organizations. A royalty of \$140.00 from each print sold will be shared by the Canadian Wildlife Federation, The World Wildlife Fund and The Wildfowl Trust. Overall print size is 62 cm by 88 cm and the actual image size is 52 cm by 77 cm. Unframed, the retail price is \$515.00.

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The small tropical islands of Micronesia are among the most beautiful and fascinating islands in the world. Members are invited to tour the tropics from Hawaii to Micronesia with Murray and Kathy Newman. (departure January 25th)

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Vancouver Aquarium
P.O. Box 3232
Vancouver, B.C. V6B 3X8
(604) 685-3364

Editor: Stefani Hewlett Designer: Greg Davies

News Notes

Staff Biologist **Stefani Hewlett** has been appointed as **alternate Commissioner** to represent Canada on the **Inter-Pacific Salmon Commission**. The Commission, composed of four Commissioners and four Alternates, is the primary responsible for implementing two key principles of the Pacific Salmon Treaty between Canada and the United States, signed in Ottawa, January 1985. These principles are that each country will conduct its fisheries and salmon enhancement programs to prevent over-fishing and provide for maximum production; and that each country will receive benefits equivalent to the production of salmon originating in waters.

"Whalesong", a one-hour television special film at the Vancouver Aquarium in May will debut at a **special showing** at Pacific Cinematheque on November 25th at 8:00 pm.

The inspiration for the film story was the Royal Bank/Expo '86 festival event held at the Aquarium when the Bach Choir, Vancouver Symphony Orchestra, soloists Judith Forst, Marc Trotti and broadcaster Knowlton Nash performed with orcas, whales Hyak, Finna and Bjossa in a unique celebration of whales and music.

Humorous, and original in the extreme, whales, people and the ever-present threat of rain come together in a unique theatrical happening.

The film preview is presented as a fund-raising event for the Bach Choir with 400 only tickets available for \$10.00 each at Pacific Cinematheque, 1131 Howe Street, 9:30 am - 11:00 pm weekdays, or from members of the Bach Choir.

If you haven't booked your office party or that **good-old-fashioned Christmas get-together** yet, there are still a few week nights available at the Aquarium in December. While you are thinking "Party Time", don't forget the youngsters. **December Birthdays** sometimes don't give the attention they should, so why not let us handle the party for you. Suitable for children 5-12. For information on parties and evening events phone Carole Rapp, 685-3364.

A **natural history tour** examining **Hawaii's oldest and youngest islands**, Hawaii and Kauai, will be led by the Aquarium aquarist and photographer Finn Larsen andologist Laurence Buser. Volcanoes, mountain rainforests, desert-like coasts are a small part of this 10-day trip starting February 13, 1987. Information and booking, 1505.

The Aquarium continues to co-operate with the award winning **CBC television program "The Nature of Whales"**. A recent segment on the **use of sound to stun whales** now includes the first filmed footage of snapping

shrimps zapping small fish with sound. Arrangements were made with the Monterey Bay Aquarium to collect snapping shrimps from Monterey Bay and have them shipped to the Vancouver Aquarium where producer Mike Poole spent nine weeks working on the film. The program is scheduled for broadcast in early December.

"Nature of Things" will feature the work of cinematographer Mike Poole. Finn Larsen



★ Visitor Hours changed October 5th with public viewing hours daily from 10:00 am to 5:00 pm. For special events, **show and feeding times call 682-1118.**

Other Specimen News

★ Canada's most famous and valuable run of salmon, the spectacular **Adams River sockeye salmon** spawning run took place this fall. Two million brilliant red and green adult sockeye travelled 480 km up the Fraser and Thompson Rivers in the once-every-four-year spectacular.

Each female will lay 3-4,000 eggs, 10-20% of the eggs will survive to become salmon fry in the spring of 1987; nine to ten mature sockeye salmon will eventually develop and about two of those will return to the stream of their birth in 1990.

Juvenile and adult coho and chinook salmon are on exhibit in the Aquarium in tanks #45 and #46, in the B.C. Hall of Fishes.

★ **Upside-down jellyfish** *Crossiopsis andromeda* are pulsing vigorously and reproducing rapidly in the tropical clownfish tank #23. Unlike most jellyfish which one expects to see suspended in the water column with tentacles trailing downward from the rim of a circular bell, this species typically rests on sandy bottoms, tentacles directed skywards.

The original brood jellyfish were received on exchange from Enoshima Aquarium in Japan, where a particularly skilled aquarist there is rearing 9 different species of jellyfish.

★ Knitters and weavers will be fascinated and inspired by the density and complexity of a **web spun by the bird-spider** in the Graham Amazon Gallery insectarium.

New Members' Program

Fowl Play: Parents and Pre-schoolers in the Lab Under the guidance of a parent, 3 to 5 year olds are invited to ruffle a few feathers! Through listening, touching and creative arts stations, youngsters are introduced to the wonderful world of birds.

Dates: Saturday, November 29, 1986 or Saturday, December 6, 1986

Times: 9:00 - 10:00 am or 10:30 - 11:30 am

Cost: \$8.00 members only, no charge for parents
Pre-registration is a must. Please call 683-6661 weekdays 10:00 and 3:00 pm.

Your turn... now my turn! Parents and tots share a peek at miniature marine life through lab microscopes during a members' program. Finn Larsen



Young Artists to Have Showing

How do animals from the bottom of the sea deck their halls, prepare their feasts and celebrate Christmas? Is Mrs. Santa a matronly mermaid and do seals pull Santa's submarine? Is the Grinch a shark or some creepy crawlie?

Young members are invited, and challenged, to draw, colour, paint or sculpt their vision, however wild or fanciful, of an underwater Christmas.

All works will be displayed in the Aquarium and every entering member will qualify for a draw to feed and play with the belugas. Deadline is December 1st for mail or drop off. (Please be sure name, age and phone numbers are attached)

Christmas Special Events

December 3, 4, 5 and 6, 10:00 am to 5:00 pm: **Annual Christmas Open House and Free Days.**

Boxes will be provided to accept non-perishable donations for the food bank.

PATRONS

Hon. Robert G. Rogers
Lieutenant-Governor of British Columbia
Hon. W.R. Bennett, Premier
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Hon. Tom Siddons
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Simon Fraser University
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Ralph M. Shaw, Honorary President

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Lawrence Darringer

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R.T. Jackson

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G. Peter Kaye

Stuart Keate

Dr. P.A. Laekin

J. Ron Longstaffe

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Mr. & Mrs. W.M. Young

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R. John Rogers

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Dr. L. Keith Wade

Park's Turtle Lagoon in Hawaii and a very special conservation program.

In co-operation with the State of Hawaii, the United States Government and the University of Hawaii, the endangered green sea turtle is being given a healthy boost over the most critical period of its life history; the first two years of life when the vast majority of wild-born hatchlings are destroyed through predation and other natural events.

Because of limited space at Sea Life Park, tagged hatchlings born to captive green sea turtles are now sent out on loan to various aquaria for care and rearing until two years of age, at which time the youngsters are returned to Hawaii and released back to the wild. Two youngsters in this program are now on display in the newly renovated sea turtle tank in the MacMillan Tropical Gallery.

Out of the shipping box into "new digs" goes Moka, one of the green sea turtles here on the head start program. M. Batschler



Green sea turtles hatch at less than 60 grams, emerging from sub-sand nests on tropical beaches to beat a hasty path to the sea. They are known to swim seaward for their first 36 to 48 hours, living off yolk sac reserves. From that point on very little is known of their behaviour and travels.

At sea the young turtles are carnivorous feeding on sponges, marine worms, molluscs and so on. Adult green sea turtles turn to a vegetarian diet of underwater grasses and seaweeds. Recent studies show that bacteria in the gut is used to digest plant cellulose and that sea turtles are as efficient at

Cover: Vancouver Aquarium now gives a "Head Start" to the endangered green sea turtle. M. Batschler

New in the Galleries Green Sea Turtles Get Head Start

Thirty years ago Canadian Pacific Airlines delivered a precious cargo from Honolulu to Vancouver. The cargo: two green sea turtles *Chelonia mydas*, a gift from the Waikiki Aquarium in celebration of the grand opening of the Vancouver Aquarium. This fall the turtles returned to Sea Life

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this digestion as cattle. Sea turtles may locate their food through sight as they have excellent underwater vision, or scent, as they have an excellent sense of smell. In studies seeking to rate learning ability, sea turtles demonstrate performance levels similar to those of a rat or pigeon.

Sexual maturity is not reached until at least 15 or more years of age. Large adults may reach 90 - 230 kg (in the past 360 kg specimens have been caught). The cycle comes full circle when adult females come onto specific tropical beaches every 2 to 4 years to dig a nest and lay in the range of 50 to 250 eggs which look for all the world like ping-pong balls. Once the eggs are laid and the nest carefully covered, the female green sea turtle returns to sea, abandoning all other maternal responsibility. Two months will pass before the young turtles hatch, collectively dig their way out of the nest, and head to sea.

With females producing many dozens of eggs why is it necessary or desirable to intervene in this natural reproductive process which has continued for in excess of 100 million years?

These large and gentle reptiles with their long flippers and beautifully designed oval shells, so well suited for long distance swimming, are threatened. Within recorded history green sea turtles numbered tens of millions. Over exploitation for commercial uses (meat, eggs, leather) has resulted in a current world population which may be fewer than 500,000 individuals. Other threats include 'incidental take' where turtles are accidentally captured and drowned in fishing nets; and habitat destruction including pollution and beach development which destroys nesting sites.

All marine turtles are currently listed in the Convention on the International Trade in Endangered Species of Wild Flora and Fauna. CITES is an international agreement which regulates trade in a number of species of animals and plants, their parts and derivatives and any article made from them.

The Vancouver Aquarium is delighted to be a part of a growing effort to not only protect existing wild sea turtle populations but to actively contribute to the recovery of the species.

Aquarium Receives Award

An **Outstanding Achievement Award** has been presented to the Vancouver Aquarium Association for the Max Bell Marine Mammal Centre. This award, given by the Canadian Association of Zoological Parks and Aquariums, was presented during the CAZPA Annual Conference in September. Zoological institutions across Canada compete annually for such awards which may include outstanding achievement in exhibit design, innovative programs and breeding successes.

SEA LIFE PARK



9/10/86

George Balazs
National Marine Fisheries Service
2570 Dole Street
Honolulu, HI 96822

Dear George:

On behalf of Sea Life Park's Education Department, thank you very much for saving and donating three hatchling Olive Ridley turtles. Any opportunity offered to receive new prop items for our marine education programs is greatly appreciated by all.

Thank you also for being alert to the needs of proper signage for the display of threatened and endangered species. Kimberly Wright will be supplying our department with the information stickers you recommended. On occasion, we do "slip" on our display and exhibit materials...we are just busy as ever!

Your time, resources and support have been tremendous over the years. We look forward to continued cooperative effort in the future.

Aloha,

A handwritten signature in black ink, appearing to read 'Marilyn Lee', written in a cursive style.

Marilyn Lee
Curator of Education



RALPH BOWEN

HAWAII-BOUND, one of a pair of green sea turtles is loaded into a box by Tim Low and Chris Thorsteinsson at the Vancouver Aquarium.

um today. Turtles came from a Waikiki aquarium in 1956; now they are being exchanged for six juvenile sea turtles.



VANCOUVER
PUBLIC
AQUARIUM
ASSOCIATION

In Stanley Park
PO Box 3232
Vancouver, B.C. V8B 3X8

May 26, 1986

Dear George

Enclosed find the local press re sea turtle shipment last March. We are still awaiting US Fish and Wildlife Permit to complete the exchange. This should be tied up shortly.

If CP Air comes up with any in-flight I'll be sure to send it to you. Thank you for "This Week" copy.

Regards,

M. Butcher for

K. Gilbey Hewlett
Curator

KGH/mb

PS There was excellent TV and radio coverage as well.

FINAL EDITION

THURSDAY, MARCH 20, 1986

35 CENTS

50 cents minimum outside Lower Mainland



Buying on the burton, G1

a business tiepaper... B.C.'s strongest...

The Vancouver Sun

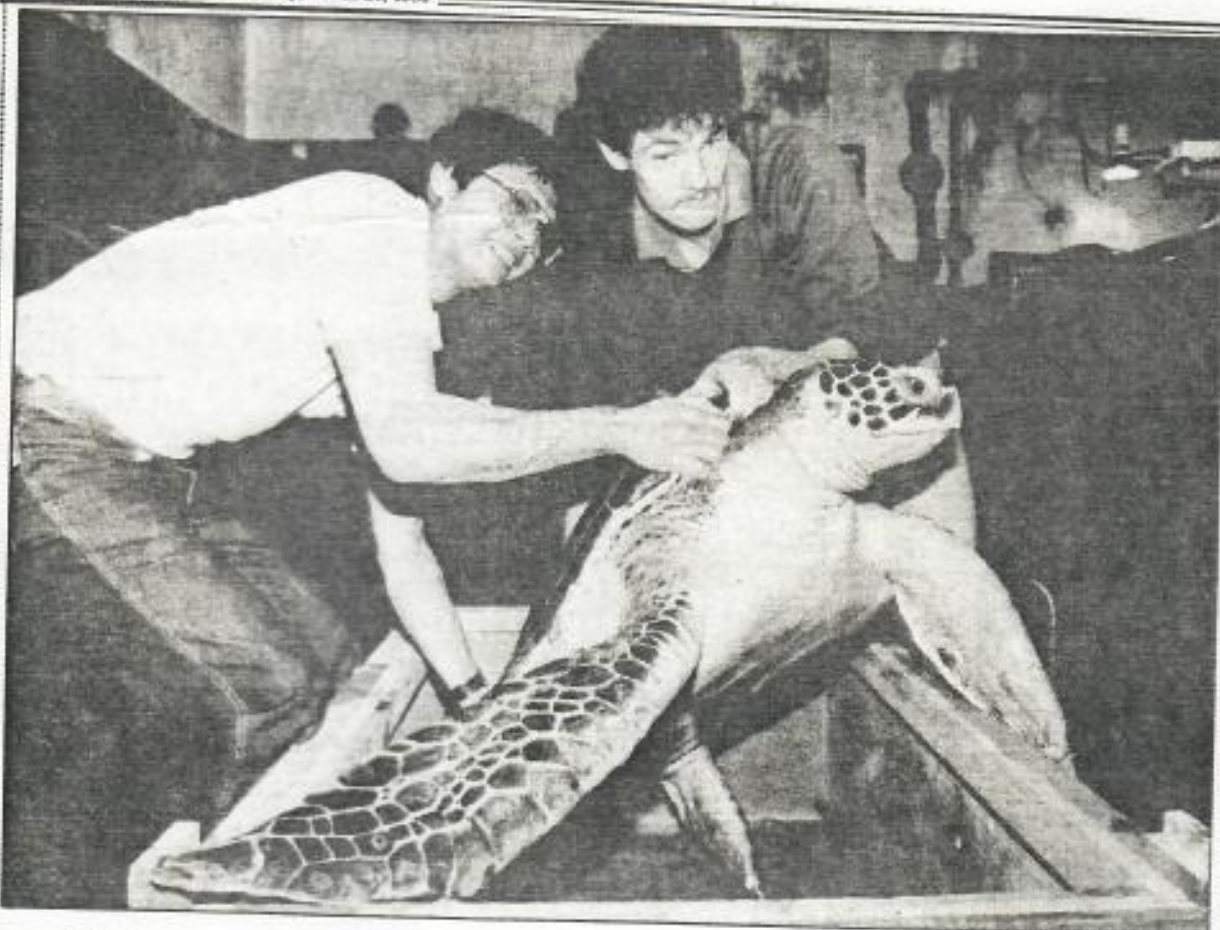
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KALING BOWEN

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ium today. Turtles came from a Waikiki aquarium in 1986; now they are being exchanged for six juvenile sea turtles.



Staff photo by David Clark

Aloha-bound

It's goodbye Canada for Molokal, a crusty-looking green sea turtle at Vancouver

Aquarium. He's going to Hawaii. Tim Low (left) and Chris Thorsteinsson see him off.

EGGXACTLY AT SPRING

By IAN AUSTIN
Staff Reporter

It was an egg-citing experiment. Students from False Creek Elementary used the spring equinox to stand eggs on end — while friends egged them on.

"It's strange magic," enthused eight-year-old Andre Nemcek, trying to describe the oval oddity.

Nemcek was one of about 300 third-grade students who tried the shell game at 2:03

p.m. yesterday, the eggxact start of spring.

Scientists can't explain the phenomenon but the eggs balanced perfectly.

And the kids scrambled for answers.

"I can't believe I balanced that egg," cracked Cristina Covello, 8, who credited "static" for her brilliant balancing act.

"The yoke goes to the bottom and won't splash around," explained Daniel Shore, 9.

Eight-year-old Roberts Holden just

couldn't hatch a re-

"One day of deformed eggs," y Kinsey.

But principal mystery to rest.

"The sun is dir said Deane. "The sun and the earth and people try h an other days."



United States Department of the Interior

FISH AND WILDLIFE SERVICE
POST OFFICE BOX 1306
ALBUQUERQUE, N.M. 87103

NOV 26 1985

Memorandum

To: Director, FWS, Washington, D.C. (WPO)
Attention: Swearingen

From: National Sea Turtle Coordinator, Region 2

Subject: CITES/Endangered Species Permit Application--Sea Life Park, Hawaii

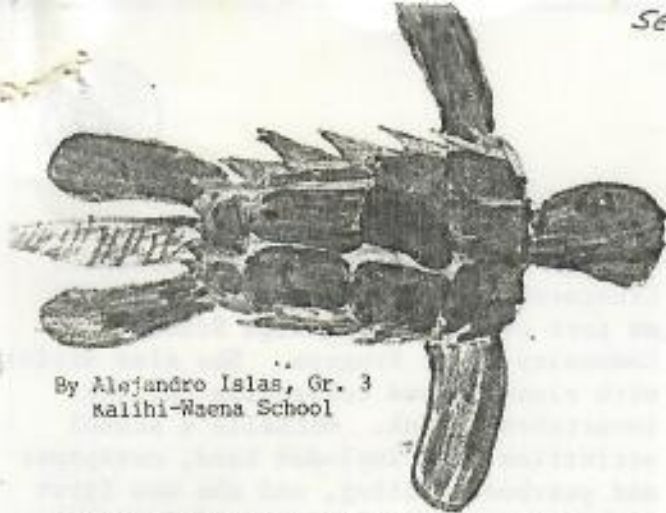
I have no problem with applicant's request to receive two captive greens from Vancouver Public Aquarium as a gift.

These are two "known age" animals that were sent to Vancouver in 1956 as 40-pound juveniles. I would estimate that they are about 33 to 35 years old and, based on current size, may still not be sexually mature. There are very few known age sea turtles in captivity and these are extremely important to our efforts in age determination research. As such, please make it clear to the people at Sea Life Park that these animals cannot be released and, should they die, the entire animal is to be preserved and made available to FWS/NMFS immediately. Should they wish to get rid of these animals while living, we will take them.

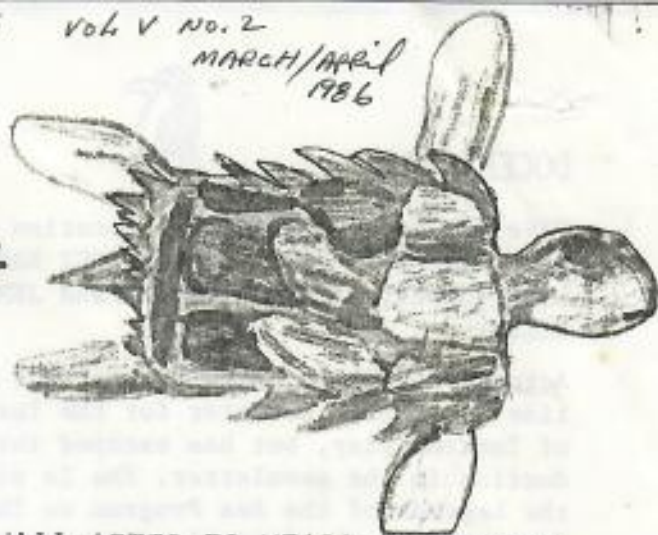
Thanks for the opportunity to review and comment.

Jack B. Woody

cc: ✓ George Balazs, NMFS, Hawaii



By Alejandro Islas, Gr. 3
Kalihi-Waena School



TWO KAMAAINA GREEN SEA TURTLES RETURN TO HAWAII AFTER 30 YEARS IN CANADA!

Molokai and Maude, a pair of green sea turtles returned to Oahu on March 21 after 30 years as headliners at Canada's Vancouver Public Aquarium. They were greeted at the Honolulu Airport by Reef Tank Curator Steve Kaiser, other park staff and even the news media.

Molokai and Maude left Oahu in 1956, a gift from former Waikiki Aquarium director Spencer Tinker to the Vancouver Aquarium on its grand opening. The turtles were one of the new aquarium's first exhibits.

"The people here loved those turtles," said Gil Hewlett, Vancouver Aquarium's curator for the past 21 years. "They were one of our most popular exhibits...it's hard to see them go. Those turtles have been here longer than most of us."

When Molokai and Maude arrived in Canada, they were an estimated 3 to five years of age and weighed about 30 pounds. They return to Oahu and their new home at Sea Life Park because they have outgrown their 15x5x5-foot, 2,500 gallon tank in Vancouver. Molokai weighs about 155 pounds and has a shell length of 32 inches, while Maude tips the scale at a svelte 100 pounds and has a 28-inch shell. Steve Kaiser says the small enclosure in Vancouver may have hindered the turtle's

growth, but when transferred to the park's larger turtle lagoon, he expects a "phenomenal growth rate for the next four or five years." Green sea turtles may attain weights in excess of 500 pounds.

Transportation to Honolulu for Molokai and Maude was provided by Canadian Pacific Airlines, the same carrier which originally delivered them to Canada in 1956. Both arrived in snug, custom-built crates and seemed alert and lively although unimpressed by the lei greeting provided by Betsy Sandstrom of the park's sales office. They also had no comment on the in-flight movie or dinner.

They are currently recovering from jet lag in one of the round holding tanks behind the reef tank and will be transferred to the turtle lagoon in early April. It's hoped they will become an active park of the park's successful breeding colony which has been responsible for returning more than 900 juvenile sea turtles back to the wild since 1976.

And don't worry about that empty tank and those lonesome turtle admirers back in Vancouver. Sea Life Park plans to send them several small turtles later this year.

STUDENT LETTERS RATE THE PLAY A HIT!

Dear Sea Life Park Staff,
I like the play very much. The title was just write for the play. The husband Tintirau and the wife Hina. I also like the whale tutunui. I thought the sorcerer was the ugliest person. The Whaler's cove was neat! I thout the Whale in the show turrific! So was the penguns.

Sincerely,
Janita, Gr. 3
Jefferson School

Dear Sea Life Park Staff,
I enjoye watching Whale and the Sorcerer it was fur. I like the part when Hina put a sleeping spell on Kae. It was sad because Kae ate Tutunui. But Hina was lucky that Tutunui came back alive.

Sincerely,
Lorie Joann, Gr. 3
Jefferson School

DOCENT DATA.....



Five new faces around the Education Department belong to CAROL BOHN, PEGGY BROWN, LISA TOWLER, MICHELLE MABERY and JEAN HELEY.

Actually CAROL has been with us for some time as on-call narrator for the Turtle of Tamarua play, but has escaped introduction in the newsletter. She is with the Legends of the Sea Program on Thursdays, giving the factual presentation and narrating the Whale and the Sorcerer play. Carol lives on Ala Moana Boulevard and is president of the women's association of the Honolulu Theater for Youth and handles ad sales and production of a fundraising tabloid for the Honolulu Symphony. She also makes time for bridge, swimming, music, and is the envy of everyone when she gets called to play an "extra" in Magnum PI productions.

PEGGY BROWN is our Maori chief in the whale play. She and husband, Randy, a navy officer, live in Aliamanu Crater with their three sons, ages six to ten. Peggy has been a communications technician with the Navy and does volunteer work that includes recreational therapy for handicapped children and serving as folk guitarist and music coordinator for her church. Her hobbies include reading, swimming, music, kids, environmental studies and marine animals.

LISA TOWLER plays the Maori heroine in the whale play, a role that requires her to demonstrate some skill at swinging poi balls. A recent arrival to Hawaii, Lisa had never seen anyone use poi balls. "I wasn't sure if they were something to eat or what!" But Lisa picked up the skill with some diligent practice and determination. Not surprising for someone who learned the electricians trade in Texas and became an active member of that male-dominated profession. Currently on a break from the work force, she is enjoying her family, developing her art work and exploring other career possibilities perhaps in the education field. She and husband, Mike, a professional diver with an Indonesian oil company, are considering a move to Australia. They currently live in Hawaii Kai with daughters Tara and Rachael, ages 7 and 8.

MICHELLE MABERY, a Kailua High School student is helping out at the Tidepool Creatures learning station on Mondays as part of the Kailua High School Community Quest Program. She also assists with cleaning and collecting for the invertebrate tank. Michelle's school activities have included band, newspaper and yearbook editing, and she was first semester student president of Community Quest. She has worked at a preschool and in a kindergarten class and is hoping her experience at the park will help her to "learn how to converse with kids about animals in an informative way." She is also interested in commercial fishing and will be doing an independent study project on that topic.

JEAN HELEY is our most recent crew member. A Kailua resident, Jean will be taking on the Whales and Dolphins learning station for the preschool-kindergarten program on Tuesday. Her interests include music, dance, bird-watching, reading and travel. She is an officer of the Windward Music Club, teaches Sunday School and hula, and tutors language skills.

We are delighted with all these new faces and the talents and skills they bring to our program. WELCOME ABOARD!

* * *

Along with hellos there are always good-byes. Volunteer docent, ANNE QUASTEL, has had to leave the program due to increased demands on her time from her job as a travel and tour agent. She's hoping to rejoin us when business settles down a bit. She left us with a beautiful donation to the library, an illustrated copy of Sea Mammals of the World, by Bernard Stonehouse. KAREN REDEKER, has also had to leave to find full-time employment and TRACY RICE, has moved to the mainland. We wish them all the best of luck and hope for their return someday. Temporarily absent are MILDRED BACHMAN, who is on a month-long tour of Australia and New Zealand and SUZANNE YOU, who is on maternity leave. Baby is due in May.

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o SEA LIFE LINES is published every now and then by the Sea Life Park Education Department. o
o Editor: Mary Pickett Everything else: Laurie Starks, Glynnis Nakai, Marilyn Lee. o
o.....



REEF TANK RAMBLINGS.....

On January 27, under the watchful eyes of Steve Kaiser, curator, and George Balazs National Marine Fisheries Service biologist and turtle expert, all 26 sea turtles were moved out of the turtle lagoon and into a holding tank at Bateson's Bay. During the following week, the lagoon was drained and re-painted. Then all 26 turtles were laboriously returned. This involved lots of manpower sliding around a slippery lagoon, putting 300-pound turtles into slings made from truck tires, putting them onto a truck, hauling to new location, etc. etc. Now Peter's principle (whatever can go wrong, will) has come into effect. The paint is peeling. The process will be repeated.

Lots of new faces in the Gallery Tanks:

In Gallery Tank #1, there is a nurse shark. While the shark looks almost immobile, don't worry. Nurse sharks are one of the, if not the, most mellow of sharks. They are often found on the bottom lethargically waiting for food to pass by.

In Gallery Tank #2, the juvenile mahi-mahi has outgrown the tank, so he has been replaced by a juvenile Threadfin Jack which was caught off Makai pier by a fisherman. Steve Kaiser's wife, Margie, who works for Sea Engineering Co. located on the pier, convinced the fisherman to donate the fish to Sea Life Park. (We have fish collectors everywhere!)

In Gallery Tank #3, is a day octopus, Octopus cyanea, brought in by George Fung, husband of Millie who works in the Gatehouse. George has been great at supplying us with octopus as well as supplying octopus beaks for the education department.

Since February, four kahala fish or amberjacks have been living in the Reef Tank. They were caught off Rabbit Island in water about 300 feet deep. About 10 to 20 pounds, they have become very tame and are a very nice addition to the tank.



TRAINING TIDBITS.....

RENOVATION OF THE SEA LION FEEDING POOL which began Feb. 3, has been completed after a full month of hard work that resulted in a larger beach area, changing the rock "island" to a solid structure for sanitary purposes and a beautiful new paint job. The sea lions returned to their pool on March 4 and are swimming about with great enthusiasm, mixed with apparent suspicion of the "new" island. For the first week or so, only the youngest pups were brave enough to venture onto the island, but by April 1st, several females were seen lounging on it. It has to be more comfortable than those jagged, old lava rocks! While the maintenance staff was hard at work, most of the smaller sea lions spent the month in the training area. Kaimoa, Nalu, and Alohi, our senior bulls, and the nursing mothers, as well as a few of the larger females joined the three harbor seals in their small pool. The tank looked like solid pinniped from wall to wall. The seals handled the intrusion with their usual stoicism. When the rest of the sea lions were returned to the big pool, Kaimoa and Bonita, a blind and elderly female, remained with the seals in a sort of senior citizen retreat.

TWO OF OUR YOUNGER SEA LIONS ARE GOING TO GRADUATE SCHOOL. They are working with graduate students of Dr. Lou Hermann of the Kewalo Basin Marine Mammal Laboratory. The students will be gathering data on sea lion cognitive and perceptive capabilities or what is called "matching to samples." One sea lion is being tested for visual recognition of similarities and differences and the other for auditory.

NEW BEHAVIORS ARE IN THE WORKS AT WHALER'S COVE for a different show, as well as working three new dolphins into the act. I'anui our false killer whale is helping researchers in tests on his hearing capabilities. The testing is expected to take about four months, though it might take longer...it's spring, and I'anui's interests are elsewhere much of the time.

STRANDED DOLPHIN TOUCHES HEARTS

In spite of round-the-clock supervision and support, as well as medication and feeding, the stranded Streaker dolphin (*Stenella coeruleoalba*) that was brought to Sea Life Park on March 12, died Tuesday morning March 18. The 200-pound female was found in shallow water off Kailua Beach with four large wounds made by cookie cutter sharks.

While results of all post-mortem tests are not in, it seems the dolphin was suffering from "massive infestations of internal parasites," according to Ingrid Shallenberger, Curator of Marine Mammals and Seabirds. Probably the dolphin's weakened condition then made it vulnerable to shark attack.

"There was not much we could do," said Ingrid, "although we always try. She was in a coma for much of the time she was with us." After her arrival at the park, initial treatment and medication, the animal was walked around a circular tank in the training department, to accustom her to the tank walls. After a few hours she was able to swim on her own and hopes for her rose. However the next day her condition deteriorated and by Thursday night volunteers and staff began providing physical support to help keep her at the surface. Thirty-two volunteers assisted staff in one and two hour shifts, wading continually around the tank, getting sunburned during the day and chilled at night. For most the vigil was both rewarding and discouraging.

"I just think it's a privilege to even be able to see and touch such a beautiful animal," said Judy Mick.

"I didn't think we could save her but I wanted her to be as comfortable as possible. Even though we were warned not to become too attached to the animal, you couldn't help it. I really think she knew we were trying to help. It was a sad experience, but I know I'd do it again," said Laurie Starks.

Streaker dolphins are open-ocean species closely related to spinner dolphins. Usually about 9 feet long with weights up to 250 pounds, they range worldwide in tropical and temperate waters, but are not usually seen close to shorelines. They feed on small fish, shrimp and squid. The species is noted for distinctive markings, including black lateral stripes from eye to flipper.

Cookie cutter sharks (*Isistius* sp.) are small pelagic sharks ranging in size from six to 20 inches with a jaw and teeth configuration that allow it to bite circular plugs of flesh from their prey. Unable to swim particularly fast, the cookie cutter shark most likely preys on sick or injured animals. Another theory says this shark relies on mistaken identity wherein it is approached by a dolphin who realizes too late that it is not a food fish. The dolphin turns away but not before the shark rushes in for one quick bite.

We are deeply grateful to the many volunteers who gave their time and assistance. They included many of our current volunteers, both student and docent, and also people from Kewalo Basin Marine Mammal Laboratory, the Hawaiian Humane Society and the community. We may not have everyone's name, but mahalo to: JUDY MICK, DANIELLE HUGHES, NANCY CHILDS, CYNTHIA SMITH, BARBIE THORSTAD, TONI TURNER, LAURA TURNER, MAGGIE HOOVER, CAROL KLING, RYAN HAMASAKI, JUDY WALL, BEV BRUCKMAN, JOE JOHNSON, DANN WALKER, TRINA MEAD, CIANA MEAD, LARK MEYERS, CAROL AIRONE, ROGER ROACH, PEGGY BROWN, GLYNNIS NAKAI, LAURIE STARKS, MARY PICKETT, STELLA ALLEN, MARIA VECHTE, ALINA NIEMI, HELGA DALGAMOUNI, KENT DAVENPORT, TODD MARDON, ELIZA WILLE, DAVID WELLER and ANDRE CHIARANGLIB.



Stenella Coeruleoalba

Derivation: from the Latin *coeruleus* for "sky blue," and *albus* for "white"

Sierra Club Handbook of Whales and Dolphins



WAIKIKI AQUARIUM

Kilo i'a

LOOKING AT THE SEA



Aquarium Apple Polishers

Staff members are rapidly learning to polish the Apple (as well as program and operate it). Thanks to Apple Computer, Incorporated of Cupertino, California, the Aquarium now has an Apple II computer system with disc drive, printer, and important research software. The Apple Company donated this system to the Waikiki Aquarium, making a twin gift to Steinhart Aquarium of San Francisco.

The Waikiki Aquarium system was used recently in a shark-research project in South Australia. Aquarium Director Leighton Taylor and Dr. John McCosker, Director of Steinhart Aquar-

ium, conducted research on great white sharks, and the computer was used to interpret data directly aboard the chartered research ship.

Now back in Waikiki after its expedition down under, the computer will be used in a variety of projects, ranging from water chemistry and nutrition research to accounting and bookkeeping. A soon-to-be-acquired telephone hookup will permit inexpensive and efficient communication with the Steinhart Apple so that information on exchanged animals, water quality, and other subjects can be rapidly exchanged between the two institutions.

New Corporation Proposed

The 1983 Legislature now in session is considering an issue of major importance to the Waikiki Aquarium. Bills have been introduced which will create a new quasi-public, not-for-profit corporation called the Hawaiian Islands Aquarium Corporation which would operate the Aquarium under a lease from the University of Hawaii. The two bills (House Bill 1517 and Senate Bill 1089) are essentially identical and have the support of the Friends of the Waikiki Aquarium Board, the Chancellor's Office of the University of Hawaii, Manoa, and growing numbers of legislators.

The establishment of such a corporation has been recommended in two studies on the Aquarium and is based on the successful models of the National Aquarium in Baltimore and the New England Aquarium in Boston. The new corporation would lease the Kapiolani site and Aquarium building from the University of Hawaii but would be totally responsible for the programs, development, and expansion of the Aquarium. Such a corporation would be free to collect admission (rather than donations) and to seek state and private funding for Aquarium expansion. Under the present arrangement, the University of Hawaii is charged with the administration of the Aquarium and it is not legal for the Aquarium to charge admission. It is also highly unlikely that the Aquarium would receive capital improvement program funds through the University system.

Essentially, the bill would permit the Friends of the Waikiki Aquarium to become a full-fledged, separate and in-

dependent non-profit corporation devoted to marine education. The Friends organization is now a part of the University of Hawaii Foundation, the umbrella organization for more than sixty assistance associations within the University. In its five and a half year history, the Friends has aided the expansion and improvement of the Aquarium and has demonstrated the effectiveness of a non-profit support group for the Aquarium. The bills provide for a transition period during which the University of Hawaii would continue to contribute operating funds.

It is my strong feeling, and that of the Board of the Friends, that this legislation would be of great benefit to the Aquarium and would permit the continued improvement and expansion of our programs and facility. We certainly urge you as members of the Friends to express your support for these bills to your legislators. If you have questions or comments, please call me and I will be happy to discuss them with you. Or, if you would like a copy of the bill, we would be pleased to provide it.

Leighton Taylor

Summer Programs 1983

Summer programs for 1983 offer families, adults, and children exciting experiences in Hawaii's marine, freshwater, and terrestrial environments.

Explore the world of reef organisms on Day and Evening Reef Walks or study Hawaii's Coastal Plants on a weekend hike. Weekend workshops introduce you to Gytaku (Japanese fishprinting), Batik (fabric painting and dying), and Hawaiian Shoreline Fishing Techniques. Evening sessions include gourmet Seafood Cuisine tasting, and our new lecture series, Discoveries in Marine Biology.

Mini-Courses highlight the unique ecology of Hawaiian Streamlife and the skills of Marine Aquarium set-up. Life on Hawaiian Reefs and Introduction to Hawaiian Flora are full survey courses. Seashore Life for Children exposes youngsters to the plant and animal life of the seashore.

Three-day sailing expeditions to the outer islands with Sea Trek let you explore the ocean from the shoreline to open water. And don't forget Waikiki Aquarium Dive and Marine Life Study Tours to the Philippines, Micronesia, and Tonga. Itinerary brochures are available for all trips.



Hawaiian Turtles in Canada

Throughout the years, sea turtles have been a popular attraction at the Aquarium. Visitors can currently see three species of them while learning about their unique ecology and threats to survival. The 11 inch olive ridley in gallery 1 offers a special treat since this species is seldom seen at such a young age. This particular one was found washed ashore on Molokai, tangled-up in plastic line. He was sent to the Aquarium 15 months ago, has since been restored to health and is now growing. Sharing the outdoor seal pool is an active adolescent hawksbill, with its longer beak and spiny-edged shell, and a larger male loggerhead who sleeps quietly on the bottom most of the time.

The number of turtles at the Aquarium has waxed and waned over its 79 year history. Green turtles or Honu, the most common of Hawaiian sea turtles, were once heavily exploited for food but are now legally protected. In the past, when a surplus existed from too many donations, turtles were tagged for research and returned to the sea. Some of the green turtles released in this manner were later found happily breeding at French Frigate Shoals, 500 miles up the Hawaiian chain. In 1956, three surplus green turtles left the Aquarium under somewhat novel circumstances

—aboard Canadian Pacific Airlines. This interesting and nearly forgotten story was pieced together from an old newspaper article and recent correspondence with the Vancouver Aquarium where two of the turtles are still living 27 years later. These "high-flying" turtles were sent up to Canada by former Waikiki Aquarium Director, Spencer Tinker to help celebrate the grand opening of the Vancouver Aquarium. Sea turtles don't normally occur off Vancouver, so the gift has provided millions of Canadians the unique opportunity of seeing these amazing reptiles.

It's just possible that these immigrant turtles have set a record for the length of time a green turtle has been kept in captivity. No one really knows just how long they can live, so records like this are helpful. The growth rates are also of interest. During the 27 years, the two turtles, one male and one too small to determine its sex, grew from a shell length of about 19 inches to sizes of 32¼ and 28¼ inches.

If you are ever in Vancouver, please stop by and say Aloha to our old friends!

UH marine biologist George Balazs has been studying Hawaiian sea turtles for the past 11 years and is an active supporter of the Aquarium.

Mahalo to Mrs. Haig

The Aquarium staff conveyed their personal thanks to Mrs. Joan Damon Haig at a reception held in February. Mrs. Haig recently made a major donation of \$50,000 to the Aquarium in her name and that of her brother, Mr. Henry E. Damon.

The reception was attended by Chancellor Marvin Anderson and Vice-Chancellors Richard Kosaki and Kenji

Sumida of the University of Hawaii at Manoa, Executive Director Donald Mair of the University of Hawaii Foundation, and the Friends of the Waikiki Aquarium Board of Directors.

It was a pleasure meeting both Mr. and Mrs. Alexander Haig and their son Michael and welcoming them as members of the Friends of the Waikiki Aquarium.

Our Friends Write Us

Occasionally, our friends write us with suggestions and comments. This month, we wish to share two letters with you. One is from a botanist who did research in the Waikiki Aquarium area

in the 1920's. The other is from a young mother whose recent visit brought back fond memories of excursions to the Aquarium when she was a child.

Drs. Otto and Isa Degener

Dear Sir:

I came from New York City with my sister in 1922 on the SS *Wilhelmina* as a typical tourist when Waikiki was still beautiful with just the Moana, a series of cottages and duck ponds, and a boardwalk straight over the reef with a roofed end where I imagined Prince Kuhio ("Cupid") entertained his guests. The trolley company, some years before, to stimulate tourist travel on their open cars, built the Waikiki Aquarium...

Fascinated by the Island I enrolled at the University of Hawaii in 1922 as a Graduate Student in Botany... For my minor project I studied under Dr. Charles H. Edmondson, working on the hermit crabs of the Islands. My collecting was mostly off the Waikiki reef and occasionally at Haleiwa and Kaimuki. I studied my catches at the Aquarium Laboratory with the aid of books & specimens from the Bishop Museum... I got my Master's Degree that year. It was interesting for me riding the trolley from near the Pleasanton Hotel where I lived for the Aquarium via McCully. There the alai had become so accustomed to trolleys continuously passing over the brackish swamps that they would be feeding unconcerned with their brood of chicks not far from the trolley's wheels.

Two were in charge of the Waikiki lab., where U.H. students learned Zoology (no courses were given about algae or seaweeds!). The Prof. was very efficient Dr. Charles H. Edmondson who was perhaps a bit too formal for some of the timid students to dare ask questions. Instead, they would ask the very delightful factotum and enthusiastic laboratory assistant, the middle-aged Mr. Jens N. Ostergard who would answer them in detail in good English with a foreign accent.

Remember, the trolley company started the Waikiki Aquarium. Mr. Ostergard had been, not a motorman, but a conductor on the Manoa Valley trolley run. In those days, all residents of Manoa were by common consent not to sell or rent to other races, Caucasian. The family would eat an early breakfast, usually prepared by Japanese servants. The men of the house then took the trolley downtown to open their businesses while their wives just dressed in bathrobes, returned to bed. A couple of hours later they would get ready to take the trolley downtown to do their marketing. They dressed properly, wearing a shirtwaist with hooks & eyes in the back. Alone at home, they were forced to enter the trolley unhooked and, I was told, would ask kindly (Mr. Ostergard to hook them up before they disembarked to shop.)

Mr. & Mrs. Ostergard...in my time owned (leased?) the tennis courts mauka of the Moana Hotel, earning additional income from mostly tourist players.

Mr. G., during his spare time taking care of the lab. and acting as lab. assistant, painted in water colors the nudibranchs he collected along Waikiki... Being such an expert in the group, he published numerous new species, I remember many appeared in color in a Nat. Geographic Mag., years ago!!! Most interesting & colorful.

I collected flowering plants extensively on the major Islands during my two years, attempting to identify them...It was hopeless to identify my catch properly, so I returned to my home city of New York with my herbarium specimens... After identifying my plants and wanting to produce my "Flora Hawaiiensis", I returned to Hawaii, teaching Botany at the Univ. of Hawaii in 1925-27 and collecting as many plants as possible. In fact in 1928 I concentrated botanizing on Molokai and in 1929, employed as the first Naturalist of our one Haw. Nat. Park, I concentrated on collecting about Kilisea & Mauna Loa, and the lowlands in general. Thereafter I returned to the NY Bot. Garden to identify my new finds properly.....

Aloha,



Katie Takashita

Gentlemen:

Yesterday with the public schools out of session, I took my son (age 9) and his friend (age 10) to visit the Aquarium. I must tell you truthfully that none of us have visited the Aquarium in the last three years and the children were upset that the visit to the Zoo would be shortened to visit the Aquarium.

Our visit to the Aquarium yesterday brought back my own visits as a child -- I could see the "magic" on their faces as they walked to each display, carrying the tape, phones. Being raised in Waipahu each outing to the Aquarium was eagerly awaited and I was never disappointed in seeing the displays. But the few times that I have visited the Aquarium as an adult there was no doubt that the "magic" could not be recaptured.

But I was wrong; yesterday brought back many good memories. Your Aquarium has improved 100%. I don't know whether it's the phones or the variety of fishes but definitely there is an improvement in the aesthetic beauty of the displays! The colors in each display add the "magic" to not only the displayed fishes but causes the required effect to children and adults. I especially liked the displays in the hallways leading to each cubicle -- really a work of art! And the final cubicle displaying sunlight into the displays are such a joy and a wonderful way to end the tour! All in all I was much impressed and happy that once again the Aquarium had achieved not only an informative exhibit but one that really captures the heart!

It was truly a visit that none of us will forget and it will be soon when we pay yet another visit.

Aloha, *Katie Takashita*

Honor Among Friends

Friends' Board Member, Dr. John Bardach of the Resource Systems Institute of the East-West Center in Honolulu (also former Director of Hawaii Institute of Marine Biology and author of widely known texts on Ichthyology and Aquaculture) was appointed an Honorary Life Fellow of the Pacific Science Association. This honor, presented recently at the annual meeting in New Zealand, was based on his scientific eminence, research done in the Pacific area, and contributions made to the Association. He was also appointed by the National Academy of Sciences to represent the United States in the Pacific Science Association. Dr. Bardach has been a friend of the Aquarium for many years, and we have been fortunate to have his service on the FOWA Board of Directors since its inception.

Also honored at the conference were two other Hawaiian scientists with links to the Aquarium. Dr. Maxwell Doty, a botanist at the University of Hawaii, received the Hatai Medal from the Japanese National Council of Sciences for his research, some of which has been conducted on the reef adjacent to the Aquarium. In the 1960's Dr. Doty's laboratory occupied the second floor of the Aquarium where the Director's office, other administrative offices, and the laboratory are now located.

Dr. Kenneth P. Emory, senior anthropologist at the Bishop Museum, was awarded the Gregory Medal for outstanding research in anthropology. Dr. Emory was a consultant for the Aquarium's "Hawaiians and the Sea" exhibit.

Staff and Friends of the Aquarium are proud of our association with these distinguished scientists and wish them hearty, and well deserved, congratulations.

Preventing Disease in your Home Aquarium

Disease problems in the home aquarium can often be prevented by following a few simple guidelines.

A common cause of disease outbreak is poor water quality. Water should be changed on a regular basis. The gravel should be stirred occasionally to prevent a crust from developing. A crust will inhibit water flow through the bio-filter. Having plenty of air for a high turnover rate is also a big advantage.

The nutrition of your fish is very impor-

tant. A well rounded diet helps to build your fish's resistance to disease problems in the beginning. Feeding your fish different types of food will increase the variety of vitamins in the diet.

Treating new fish in a separate tank before introducing them into your aquarium will minimize the risk of bringing new disease into the aquarium. Avoid treating invertebrates with fish. Most invertebrates can not withstand fish treatments. While treating fish, feedings should be reduced. Treatments can often cause fish to become uninterested in food, at least initially. Food can be gradually increased as the treatment continues. Treatments work against disease but they can also be detrimental to your aquarium's biofilter, another reason to restrict feeding and subsequent waste products during treatments.

These few guidelines should help to minimize disease problems in your aquarium—and give you healthier, happier fish! *Beth Anderson*

Who's New at the Aquarium



The Aquarium's lawn and landscaping is looking greener and more clean cut

due to the efforts of the new head groundskeeper, John Malloe. As a field contract manager for United Services at Hickam Air Force Base, John was responsible for maintaining 300 acres, which more than qualifies him for this task. He's been a head baker, bus driver, and was even instrumental in the development of the security units for Duty Free and Andrades. He confesses, however, that he likes working at the Aquarium the best. The people are friendly and you can't beat working close to the beach.

January's Kilo i'a introduced you to Beth Anderson and Marty Wisner without showing you who they were. Say Hello to . . .



Beth Anderson



Marty Wisner

"Encore" Reef Walks

Hawaiian reefs wear a different face under the cover of darkness—as many residents and visitors are discovering. The Aquarium's night reef walks have become so popular an activity that it's been necessary for us to create "Encore" Reef Walks this spring in order to accommodate the enthusiastic response.

Participants learn that seeing a reef during the day doesn't mean they've seen it all. Competition for food and space prompts many inhabitants to develop lifestyles that mean quiet days and active nights, a strategy that offers night-stalking Aquarium reef walkers exciting and educational glimpses at their bizarre and fascinating world in the reef by night.

The byline for the article on the Coastal Garden that appeared in the January issue of the Kilo i'a was accidentally omitted. Our sincere apologies to Kuaika Jendrusch.

About Kilo i'a

Issue No. 27

March 1983

Editor:

Leighton Taylor

Circulation:

Patricia Raines

Printing:

Tongg Publishing

Kilo i'a is published bi-monthly by the Friends of the Waikiki Aquarium and is dedicated to increasing the community's knowledge of the Waikiki Aquarium and Hawaii's marine life.



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Celebrity Turtles Return To Sea Life Park

Molokai and Maude, a pair of green turtles, returned home recently to Sea Life Park after 30 years as headliners at Canada's Vancouver Public Aquarium.

According to Vancouver Public Aquarium Curator Gil Hewlett, these two reptilian "ambassadors of aloha" have done much to kindle interest in Hawaii during their stay.

"The people here loved these turtles," Hewlett said as he prepared Molokai and Maude for their return home to Honolulu. "They were one of the most popular exhibits at the aquarium. I hope they're warmly welcomed in Honolulu, because they sure will be missed in Vancouver."

Molokai and Maude left Oahu in 1956, a gift from former Waikiki Aquarium Director Spencer Tinker to the Vancouver



After 30 years at the Vancouver Public Aquarium, Molokai, the smiling green sea turtle, returns to Honolulu. Greeting Molokai are (l-r) Sea Life Park Curator of Fishes Steve Kaiser, Tim Smeraglia, Lance Hoopai and Harry Yanagisbita of CP Air.

Public Aquarium upon its grand opening. The turtles were one of the new aquarium's first exhibits.

"That's why it's so hard to see these guys go," said Hewlett, the aquarium's director for the past 21 years. "Those turtles have been here longer than most of us. We've grown up with them. It's a little like losing some good friends."

When Molokai and Maude arrived in Canada they weighed about 30 pounds. They return to Oahu and their new homes at Sea Life Park because, according to Hewlett, they've outgrown their exhibit. Molokai now weighs 155 pounds and has a shell length of 32 inches. Maude weighs 100 pounds and has a 28-inch shell size. Both are estimated to be between 33 and 35 years of age.

Maude and Molokai will live in Sea Life Park's Turtle Lagoon where the turtles may grow even larger. Green turtles are one of the largest of the species and may attain weights of more than 500 pounds.

Maude and Molokai returned to Honolulu courtesy of Canadian Pacific Airlines, the same carrier which originally delivered the pair to Canada in 1956.

When visiting Sea Life Park, be sure and say hello to these two very special turtles. &

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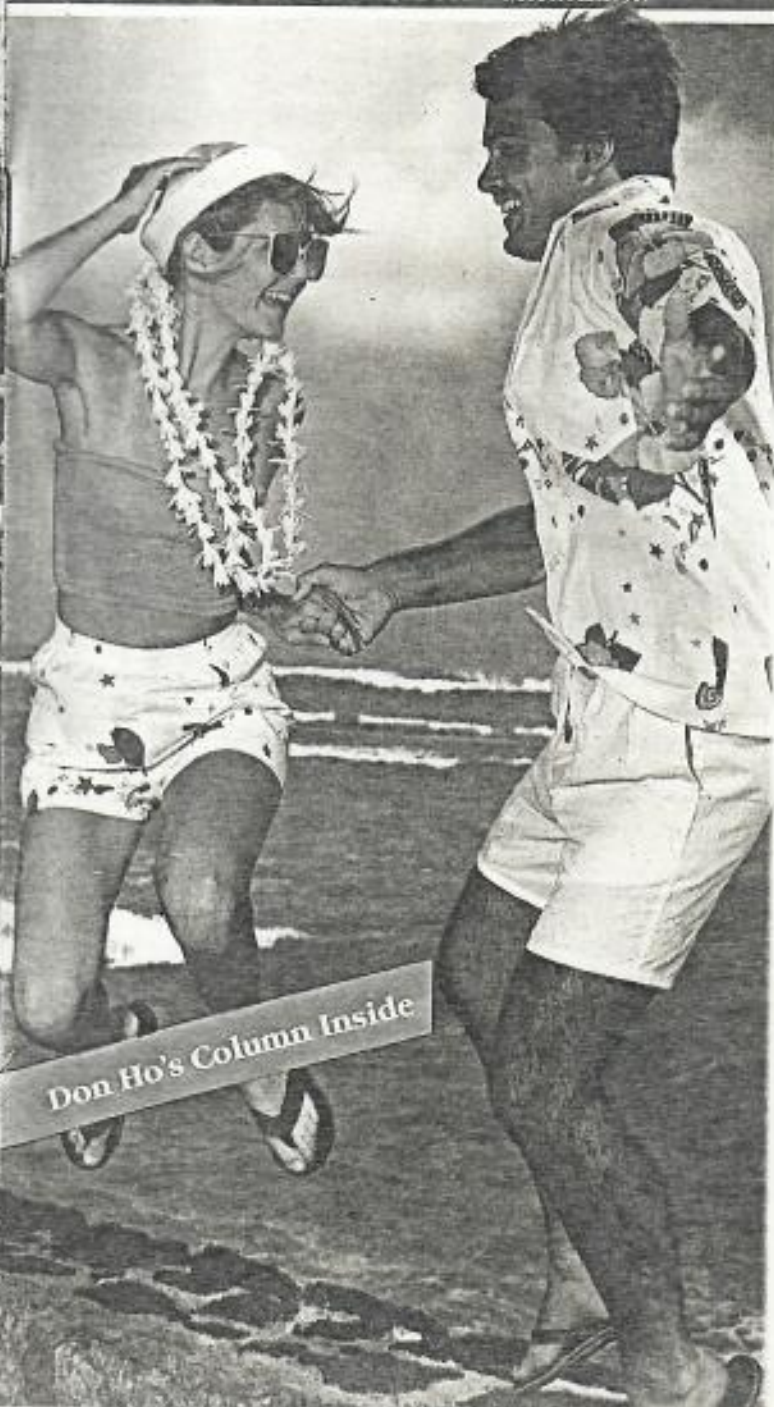
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OAHU

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APR. 14-20, 1986

Win a FREE trip to Hawaii Cont. pg. 17

HAWAII'S #1 VISITOR MAGAZINE



Don Ho's Column Inside

APR 1 1986

Ocean center hopes

Governor George Ariyoshi's grand plan for an ocean awareness center — a combined aquarium, museum and promotion hall — may yet emerge a winner at the Legislature during the last session in which he presides over the state.

Technically, the ocean center has not died. Ariyoshi and a select group of officials have pushed ahead with planning for a center at Kewalo Basin using \$10.5 million appropriated earlier.

But when the House of Representatives declined to set aside a requested \$8.5 million to continue planning and start construction this year, it seemed the center would be left to an uncertain fate in the hands of the next Legislature and a new governor.

NOW THE SENATE has included in its budget \$7.5 million for an ocean center in Makapuu, near Sea Life Park. The state owns about 100 acres there (60 of them buildable), as opposed to a relatively cramped seven acres at Kewalo.

This leaves the next decision on the ocean center this year to a House-Senate conference committee. Given the choice, Ariyoshi may well prefer a center at Makapuu to none at all.

Building at Makapuu — a relatively pristine spot far from the main tourist areas — would do nothing to upgrade the underused Honolulu waterfront, as happened with the Baltimore and Monterey Bay Aquariums. That would be a loss.

But Makapuu solves some major concerns. Building the ocean center in conjunction with Sea Life Park would eliminate competition between a state and a privately-owned facility that many fear would drive the private company out of business.

And a joint public-private undertaking would keep the state from bearing the full burden of a center now predicted to cost \$52 million. The greater space might make it easier to include a strong research component in the visitor attraction.

AN OCEAN CENTER has been criticized as a glorified "fish zoo" and an unneeded "legacy" for Ariyoshi. But done with care and quality, it would be a tremendous asset to Hawaii for residents and visitors alike. It would highlight our past, present and future ties with the ocean around us as a source of food, transportation, energy, natural resources and recreation.

Those who would leave development of such a center to the private sector ignore the fact that neither a private concern nor a deep-pocketed philanthropist has come forward to get things started. That leaves it up to the state.

As with most major projects in Hawaii, the site is the first and foremost decision. Kewalo had its attractions, to be sure, but Makapuu deserves consideration. It may be the best way to bring an ocean center to Hawaii and put Honolulu in a class with other important maritime cities.

State of Hawaii
Department of Land & Natural Resources
Division of Aquatic Resources
1151 Punchbowl Street, Room 330
Honolulu, Hawaii 96813

AMENDMENT NO. 1 TO SCIENTIFIC
COLLECTING PERMIT NO. 86-11

Date of Issue: 07/11/85
Expiration Date: 06/30/86

JAN 16 1986

The Board of Land and Natural Resources hereby amends Scientific Collecting Permit No. 86-11, previously issued under the authority of Section 187A-6, Hawaii Revised Statutes and all other applicable laws, to: (name, title, affiliation and address of primary permittee)

K. Gilbey Hewlett
General Curator
Vancouver Public Aquarium
P. O. Box 3232
Vancouver, British Columbia, Canada
V6B 3X8

Steven Kaiser
Curator of Fishes
Sea Life Park
Makapuu Point
Waimanalo, HI 96795
Phone: 259-7933

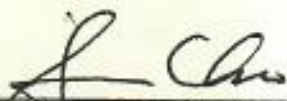
for the following purposes: to possess and transport two adult green sea turtles (Chelonia mydas) from Vancouver Aquarium to holding facilities at Sea Life Park (The two turtles, born in Hawaii, are being returned after 29 years.)

subject to the same GENERAL and SPECIAL CONDITIONS Nos. 3, 4 and 5 as previously stipulated.

This amendment and attachment hereof, shall be made a part of Scientific Collecting Permit No. 86-11, and must be carried by the permittee(s) while engaged in activities authorized under the permit.

This amendment shall become valid upon the completion of the following:

1. The primary permittee must acknowledge understanding and agreement to this amendment by affixing his/her signature in the space provided on the original and duplicate copies of Attachment No. 1 of this amendment.
2. If this amendment is for the addition of additional designated assistants, all persons whose names are listed on Attachment 1 must read the original permit and this amendment in toto and acknowledge understanding and agreement of the conditions stipulated by affixing their signature in the space provided on the original and duplicate copies of this amendment.
3. Both copies of the signed amendment must be returned to the Division of Aquatic Resources. Upon complete execution of the amendment, a copy will be returned to the applicant.

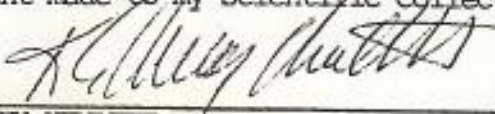

SUSUMU ONO, Chairperson
Board of Land and Natural Resources

cc: [x] DOCARE
[x] Fisheries
[] Forestry & Wildlife
[x] Special Agency in Charge,
USFWS, Honolulu
[x] NMFS, Honolulu

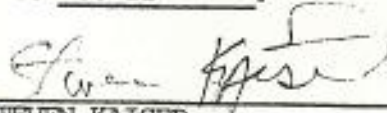
1 TO AMENDMENT NO. 1
COLLECTING PERMIT NO. 86-11

Permittee: K. Gilbey Hewlett, Vancouver Public Aquarium
Steven Kaiser, Sea Life Park

being the primary permittee, hereby acknowledge understanding and agreement to the amendment made to my Scientific Collecting Permit No. 86-11.



K. GILBEY HEWLETT



STEVEN KAISER

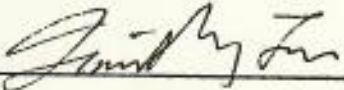
ADDITIONAL DESIGNATED ASSISTANTS (if applicable):

I have read, understand and hereby agree to the conditions stipulated in Scientific Collecting Permit No. 86-11.

VANCOUVER PUBLIC AQUARIUM

SEA LIFE PARK

Signature:



Print Name:

TIMOTHY LOW

Signature:

Print Name:

Signature:

Print Name:

Signature:

Print Name:



HEADING FOR THE OCEAN—These year-old baby green sea turtles were a bit disoriented when placed in the sand at Bellows this morning. But after a few moments, they turned toward the sea and a new life in the wild. Steven Kaiser from Sea Life Park, which raised and cared for the animals since their birth, watches the turtles. —Star-Bulletin
Photo by Terry Luke.

GUIDE TO **Oahu**

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Inside

July 1-7, 1985

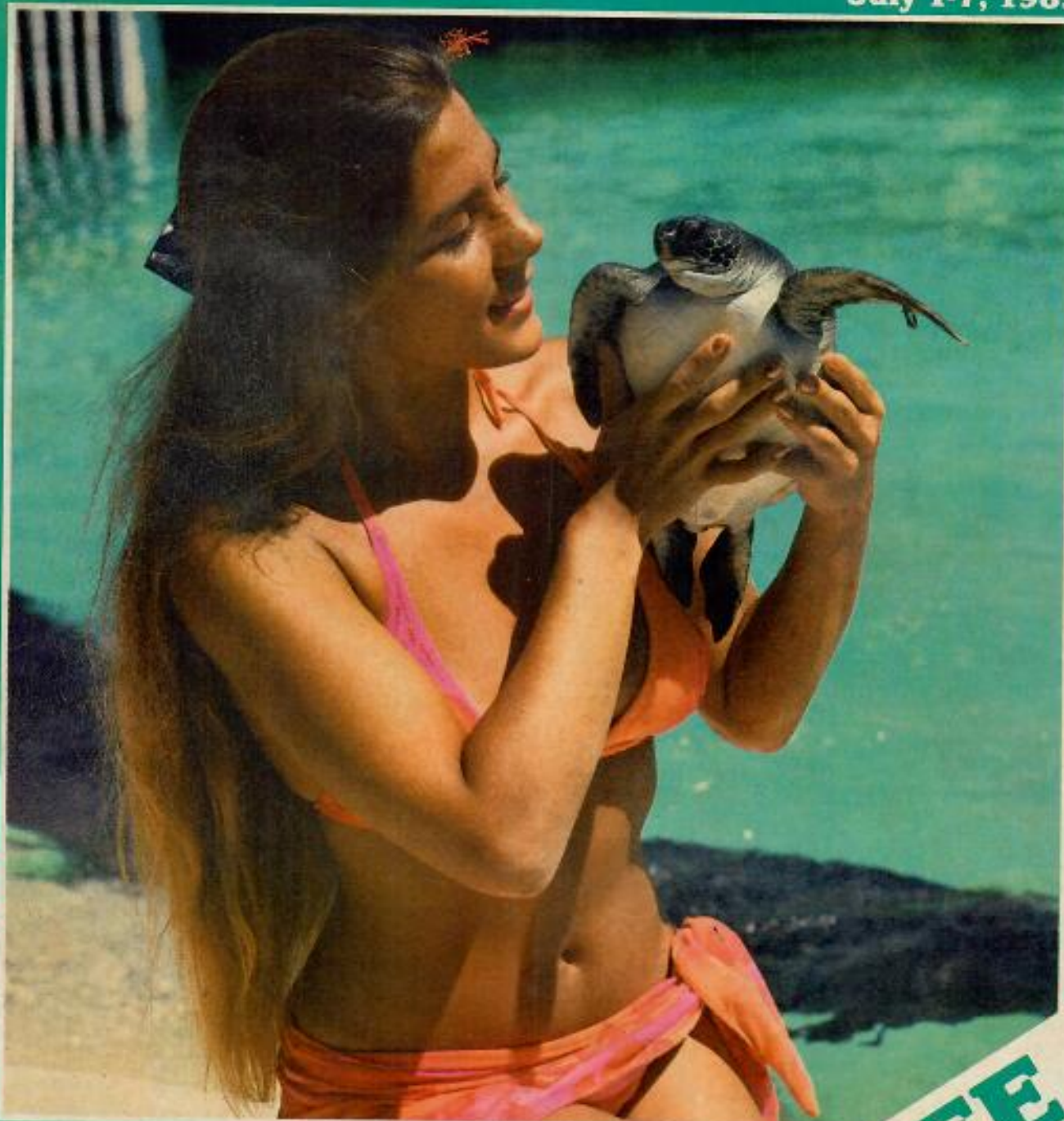


Photo courtesy Sea Life Park

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GUIDE TO OAHU

VOL. 10 NO. 26

July 1-7, 1985

PUBLISHER Craig Shimizu; **EDITOR** Marlene Brown; **PRODUCTION DIRECTOR** Ellen Miller; **ART DIRECTOR** Linda Simon; **ACCOUNT EXECUTIVES** Pat Blotter, Loni Peralta; **CREDIT MANAGER** Lynette Gehring; **CIRCULATION MANAGER** Scott Morimoto; **DISTRIBUTION** Circulation Systems of Hawaii

GUIDE TO OAHU — published every Monday by HORIZON HAWAII, INC. Headquarters, business and advertising offices at 1314 South King Street, Suite 520, Honolulu, Hawaii 96814. Telephone (808) 521-6919. Postmaster: Send address changes to HORIZON HAWAII, INC., 1314 South King Street, Suite 520, Honolulu, Hawaii 96814. The publisher and editors will not be responsible for unsolicited material. Manuscripts and photographs must be accompanied by a self-addressed envelope. ©1985 by HORIZON HAWAII, INC. All Rights Reserved. Reproduction without permission is strictly prohibited.

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SEA LIFE PARK/WAIMEA FALLS PARK —FROM THE MOUNTAINS TO THE SEA

“Aunt Granny” Visits Waimea Falls Park

Visitors to Waimea Falls Park on December 17 won't soon forget their day at the park. Sure, they'll remember the ancient hula, the Hawaiian games and the dive show—maybe even some of the beautiful flowers from the arboretum. However, the highlight of their day was getting a glimpse of the “Hillbillies in Hawaii” gang that included one of the biggest country stars ever—Dolly Parton!

The “Hillbillies” that Dolly brought to Hawaii with her were none other than her nieces and nephews from the mainland. Their Christmas present from “Aunt Granny” this year was a Hawaiian vacation—*island style*. Traveling in a decorated bus, the passengers toured the island with entertainment aboard for the kids—“The Bruise Brothers,” a.k.a. Norm Compton (a local entertainer); Heine Fountain (owner of Cilly's nightclub); Cliff Laboy (former UH football player); friend Tony Beatty and Hugo Logan, Dolly's contractor for her new home in Hawaii Kai.

Upon their arrival at Waimea Falls Park, Dolly and her guests were greeted by crowds of anxious visitors who had heard she was arriving. They wanted an auto-

graph, a picture or just a smile! And, Dolly was more than willing to accommodate them.

The group did manage to make it through the crowds and over to the depot where a private tram was waiting. Barbara Callahan (who had escorted Dolly on her last visit to Waimea Falls Park) drove the tram and got the whole group (twenty-one adults and kids) to the waterfall just in time for the final dive show of the afternoon—which was dedicated to Dolly. Afterwards, “The Bruise Brothers” put on their own dive show for her and the kids.

The final stop for the day was the Proud Peacock where Joyce Button served up punch, cookies and other thirst quenchers for all the “Hillbillies.” At the restaurant, Piilani Lua and Moki Labra performed a special hula for the Parton group, trying in vain to persuade Dolly to have a hula lesson. “Next time,” she promised.

There was more picture taking, more autographs to sign, more babies to hold and more smiles to smile. It didn't seem to tire the beautiful lady though. If not for her escorts, she might well have continued signing autographs forever.



Russell Reckam receives the kiss of his life as the “queen of country music,” Dolly Parton, plants one on his cheek!

WINTER EDITION—February, 1985



Sea Life Park Celebrates its 20th

On Sunday, December 16 Sea Life Park celebrated its 20th Birthday! Thousands of children and adults were on hand and spent a dazzling day enjoying all the birthday treats!

The action began at noon with a stunning air show from the Koolau mountain cliffs. The Hawaiian Hang-Gliders Association took to the air presenting a spectacular flying feat. Musical merry-makers kicked things off with a hearty round of “Happy Birthday” to Sea Life Park. Then everyone joined the Punahou Marching Band, Fat Fred, Kolohe, Santa Claus and the three fishy winners from the Hawaii State Fish Contest (the humuhumu-nukunuku-a-pua'a, the manini and the lauiliwili-nukunuku-oi-oi) for a parade through the park down to the newly refurbished Ocean Science Theater.

But the excitement didn't stop there. Throughout the day guests were treated to the Alohaland Pony Circus, where kids became paniolos—even for just a few minutes! A one ring circus featured jugglers, unicyclists, and mime performers, plus Hawaiian story-telling and legends of the sea on the Galley stage—keeping many a keiki fascinated. A wild and wacky Waikiki Acrobatic Troupe performed their delightfully daring pyramid and tumbling acts with audience participation!

The Education Department at Sea Life Park enjoyed the day as well. Volunteers were on hand to teach “gyotaku,” (the art of fish painting) as a souvenir of their day at the park. Many also had the opportunity to have their picture taken with Fat Fred, Kolohe and some of the other park celebrities.

Several thousand guests enjoyed the birthday cake, cotton candy, popcorn and the merriment!

Focus 1985 Sea Life Park

By Bob Moore

After one year on the job, it is better than I ever expected. The park's success in 1984 and the efforts and cooperation of all the staff made it possible. It's great to walk into a job where the employees are as knowledgeable and dedicated as at Sea Life Park.

Turning to year two for me, and after two decades for the park, 1985 will be a year of planning and implementing new and important expansions. Park visitors will enjoy several new attractions which should be in place during 1985 or early 1986. They will include a touch tank—a real "hands-on" experience for our guests. Another attraction will be a shark exhibit. The interest and fascination with sharks is universal. Short of having a full scale shark tank, our plans call for an exhibit which should capture the imaginations of shark enthusiasts and those who are not. Planning for both facilities is underway and will require the input of our staff as well as consultations with professionals knowledgeable in the area of design and construction.

Another major addition will be a permanent luau site. Plans are being made to develop a facility, to be located on the hill overlooking the park's Hawaii Kai-side driveway. The site will provide a spectacular setting for a nightly Great Hawaiian Luau. The event will be pure Hawaiian, with special emphasis on authenticity. The exciting thing about the additional evening business is that it will also boost the afternoon business at Sea Life Park. Tour companies and independent visitors can come to the park in the late afternoon, see the shows and stay for dinner and a distinctly different kind of show—a genuine Hawaiian experience.

Something else that will occur in 1985 is a new direction in the advertising and promotion of Sea Life Park and Waimea Falls Park. There will be a greater focus on Hawaii and Hawaiiana. The advertising will distinguish us more from mainland oceanariums, taking full advantage of our Hawaiian heritage. Major shows at the parks will attempt to incorporate Hawaiian legends relating to the sea and the significance of our special site. We are also exploring the possibility of rebuilding the Hawaiian fishing village that once existed near the park. This would also give visitors the opportunity to see Hawaiian arts and crafts and demonstrations as part of their park experience.

In all, it looks like a good year for the park. A year in which we begin moving in a new and exciting direction. I'm sure it will be an experience we can all participate in and enjoy together!

Ocean Science Theater Gets Face Lift

In November, the dolphins, penguins and sea lions at Sea Life Park's Ocean Science Theater got a well deserved treat—rest, relaxation and a new home with all the trimmings!

Ocean Science Theater was temporarily closed November 5 through November 21 for major repairs. The renovations, both structural and cosmetic, were long overdue according to Jasmine Wong, director of operations at the park.

By far, the largest and most time-consuming project was the repair and resurfacing of the upper deck. As Assistant Director of Operations Tim Guild put it, "We renewed the structural integrity of the entire upper deck." This, he said, involved removing the rusting reinforcement bars, "dowling in" new bars, resurfacing, sealing and finishing the deck.

Other repairs included coating, repainting and replacing the expansion joints in the main tank, repainting the holding tanks, fixing small leaks and resurfacing the entire



Ocean Science Theater under repair.

area in front of the walkway with a new, non-skid material.

These important repairs have made Ocean Science Theater safer and more enjoyable for everyone—the trainers, animals and all the visitors at Sea Life Park.

Sea Life Park Releases Shearwaters



Shearwater bird gets ready for take off.

October through November is the time of year when thousands of young wedge-tailed shearwaters or 'Ua 'a-kina (**Puffinus pacificus chlororhynchus**) leave their nests and head out to sea. Some of the birds make it. Many of them do not. Often the young end up as "fallout" on Oahu,

either from disorientation caused by the bright city lights of Honolulu or because they are not strong enough flyers.

To save the young shearwaters, Sea Life Park, in cooperation with state and federal agencies, is participating in a recovery and release program. Captured birds are brought to the park and examined and—if they seem fit—they're banded, weighed and placed in a release pen. The pen is equipped with a special ramp which allows the birds to attempt flying again at their own leisure. Sea Life Park personnel are continually monitoring the pen to assure that the shearwaters are in a healthy environment.

Some shearwaters brought to Sea Life Park are severely injured or weak and are kept in a mini-sanctuary made especially for them. There, they are fed and nurtured until healthy and able to return to the wild.

The wedge-tailed shearwater is one of the many seabird species that is valued not only for its beauty but for practical reasons as well. Commercial and sport fishermen rely on the birds to help locate schools of fish.



Kai Makani is still "learning the ropes" from his mother Kaula. Kai Makani is the first Pacific Bottlenose dolphin born at Sea Life Park. At full maturity he may weigh up to 1000 pounds.

MAUKA & MAKAI MESSENGER

SEA LIFE PARK / WAIMEA FALLS PARK - FROM THE MOUNTAINS TO THE SEA

Turtles Released at Bellows Beach

Thirty-three green sea turtles were hatched at Sea Life Park in September; in November thirty-two were released into the waters off of Bellows Beach.

Steve Kaiser, curator of fishes at Sea Life Park, explains why they were released at Bellows, "it was the most logical place for two reasons: first, because the waters off of Bellows are more protected than at Makapuu, where the rough surf would make their trip to open ocean very difficult. And secondly, the area has been used by turtle expert George Balazs of the National Marine Fisheries Service to conduct research on turtles."

The turtles, indigenous to Hawaiian waters, weighed approximately two pounds when released. At full maturity they may weigh up to 400 pounds!



Ken Sakamoto



Employee Profile: Bessie Kauhi

Auntie Bessie Kauhi is the friendly face at the front gate who's been greeting park visitors with a smile of warm aloha for the past 20 years. She became "Auntie" Bessie when a tour driver said "hey auntie," and as she puts it, "I picked that name as my stage name . . . and to this day everyone else has been calling me Auntie Bessie." Since she's been with the park the longest of any employee, Auntie Bessie remembers when the park was just beginning. "We never had too much. But today we have more shops, more pathways through the park, we have the bar and everything," she says with great pride in her voice.

Aunt Bessie's dedication to the park and all its visitors shines because of the way she does her job. "I have to be sure that I know what I'm doing and who I'm talking to. I have to be able to answer their questions to the best of my ability, and if I don't know, I ask." Bessie says that she's learned quite a bit over the years . . . "in how to approach people, how to accept them and how to make them feel comfortable." You really get the feeling that Auntie Bessie is a great communicator of the "Aloha spirit."

After working at Sea Life Park all these years, she feels that the park employees have grown into a strong family unit that

Before . . .



Waimea Falls during its 53 days of total dryness. The white line marks the normal water level at the base of the falls.

WINTER EDITION—February, 1985



Marianne Cross

works together. "I would like to have the confidence that this park will always remain a friendly place—no matter what—and that all the employees here will be working together and we'll all be helping each other."

Very much a part of the loving spirit of aloha that is felt throughout the park, Auntie Bessie adds, "The years go by and working here is still really nice. I'm outdoors in this beautiful park and meet a lot of interesting people from around the world. I feel like I will always be a part of this park."

and After . . .



Nicki Clancy

Waimea Falls Park's waterfall back to normal after November's downpour. Recorded rainfall for November and December was 15.17 inches.

Johnson, VSI Manager of the Year

Gregg Johnson couldn't have been happier, or more surprised to find out that he had won the Western Division Volume Services Manager of the Year Award. "I didn't expect it—we're just small potatoes compared to those guys," says Johnson referring to his competition. "Evidently the others just didn't have the terrific staff. Employees make the manager. They've won this award, not me," insists Johnson.

"The secret," Johnson says, "in keeping such a great staff is communicating, working together and respecting one another." He obviously practices what he preaches. Working together with park employees, Gregg and his employees feel that visitors to Waimea Falls Park are now able to enjoy the best possible service. And, that his staff has "made this the best operation in the country."

The Volume Services, Inc.'s Manager of the Year Award is given annually to the manager who has met the financial objectives of their operation and established, achieved or improved their client relationships. Johnson believes that it was a strong combination of the two that won him the award. But he notes that it took the full support of his hand-picked management staff including: Sherry Coakley and April Teixeira, Country Kitchen managers; David Wheeler, purchasing; Janet Peters, office; Sharyn Warren, Proud Peacock night manager; Momi Enos, Proud Peacock day manager; John Cooley, concessions; and Dolly Canady, kitchen manager.

Gregg always knew he wanted to work in the restaurant business. His father is an innkeeper and Gregg began as a desk clerk in Las Vegas, Nevada. His move to the food service area came in 1980 when he was student manager for SAGA food service. His experience there prepared him for entry into Volume Services, Inc. as a management trainee in the Hawaii region. Here he worked with unit managers in the islands, including theme park food service.

In November of 1982 he became the restaurant manager at Waimea Falls Park—directing the day-to-day operations



Morris Coats

of the Proud Peacock. In this position he created a new menu and pricing structure which dramatically increased revenues. He was promoted to assistant general manager and developed catering and banquet manuals that are now being used throughout the VSI organization.

In 1983 he was named general manager of the Proud Peacock.



Waimea Falls Park

PEOPLE IN THE NEWS

Rudy Mitchell, Waimea Falls Park's pre-historian, was recently appointed to the Haleiwa Historic, Cultural and Scenic District Design Review Committee.

A swearing-in ceremony was held for Mitchell and other members of the committee on Tuesday, November 20 at Honolulu Hale.

Proud Peacock's Award-Winning Menu

The Proud Peacock Restaurant at Waimea Falls Park has been awarded two prizes in the Hawaii Restaurant Association's annual menu competition. The north shore eatery's dinner menu placed third in the dinner menu category and the cocktail/wine list won first place in its respective category.

"I am extremely pleased with the awards," said Gregg Johnson, general manager of the Proud Peacock. "To place so highly in a statewide competition is quite an honor, especially when you consider the caliber of the competition—the finest restaurants in the islands!"

The menus were judged on design, placement of menu items, compliance with

truth in menu laws, creativity and content. Dr. Morton Fox, School of Travel Industry Management at the University of Hawaii, Bob Norton, editor of Dining Out and Rick Davis of Aloha magazine were judges for the event.

Local artist John Bain created the menu covers and logotype for the prize-winning menus. The distinctive cover suggests a Hawaiian quilt adorned with peacocks and flowers.

Gregg Johnson, obviously quite thrilled with the awards added, "the only thing better than the menu at the Proud Peacock is the fine food and atmosphere of old Hawaii at Waimea Falls Park."

Focus 1985 Waimea Falls Park

By Bob Leinaw

1984 was another record-breaking year for the visitor industry. Tourism remains the number one source of revenue in the state of Hawaii. Fully one-third of the state's revenues and personal incomes are derived from the visitor industry. Hawaii, as a destination, is faced with increasing competition from all over the world. To remain a viable destination, Hawaii must continue to project that unique, warm personality that has come to be known as the "Aloha spirit." The islands' culture is a rich mixture, built on a strong Hawaiian cornerstone, upon which our quality services must be based.

With a sensitivity to what Hawaii's visitors want, and a clear picture of Waimea Falls Park's unique attributes, we eagerly look forward to another year of growth and refinement. "Quality and attention to detail" will be our focus for 1985.

New this year, Halau 'O Waimea will encourage guests to participate in a hula lesson. The popular one-hour walk tours will be extended to one-and-one-half hours. More interesting and colorful pheasants are being raised and released into the park. The large aviary will be enlarged this year. The arboretum's hibiscus hybrid collection and Palm Meadow will soon be ready for a new bus tour. The rapidly growing free full moon walks will continue to keep the Proud Peacock extra busy twice a month. Also, with night lighting in the valley we expect to do some special events which will include flaming torch dives by the Waimea cliff divers.

The entire staff at Waimea Falls Park is committed to keeping the spirit of old Hawaii alive while providing a product that makes the visitor industry proud.

DID YOU KNOW? WAIMEA TRIVIA

Did you know that it takes approximately 150 ti leaves to make one complete ti leaf skirt? Each female dancer is required to wear three skirts of ti when she performs wearing a total of 450 ti leaves!

Did you know that a "peacock" is a male peafowl? A peahen is a female peafowl.

Did you know that Charlie's Country Store carries 20 different Waimea Falls Park postcards and sells, on the average, 8,000 cards per month? They sell approximately 266 postcards every day!

Sea Life Park Now AAZPA Member

The American Association of Zoological Parks and Aquariums (AAZPA) announced that Sea Life Park received accreditation by the association during its 1984 annual meeting. According to the association's Executive Director Robert Wagner, Sea Life Park joins nearly 100 other zoological parks and aquariums accredited by the AAZPA.

Wagner stated that the association's accreditation program began in 1971 and is one of AAZPA's most comprehensive programs. Accreditation by the AAZPA indi-

cates that an institution has established and is maintaining professional standards. The applicant institution is judged by professional members of the association who volunteer their services and expertise to further the AAZPA and its programs.

During the commission's review of Sea Life Park, a number of very positive statements were made regarding the facility and its operation. Once accreditation is granted the institution is recognized as a leader in their field.



Lynn Baker, director of sales for the Waikiki Sales Office, welcomes Jody Won of Hawaii Pacific Resorts to their open house held in December.

1985 Park Admission Rates Announced

The 1985 admission rates for Sea Life Park are: Adults—\$7.25; Juniors (7-12 years)—\$5.50; Children (4-6 years)—\$2.25.

The 1985 rates for admission to Waimea Falls Park are: Adults—\$6.95; Juniors (7-12 years)—\$4.50; Children (4-6 years)—\$1.50.

Annual Family Passes for each park now sell for \$27.50. The popular pass admits one family for one year from date of purchase and allows guests to accompany the family at reduced rates.

Super Annual Family Passes are now \$39.50 and are good at both parks for one year from date of purchase. Thousands of people purchase annual passes each year, recognizing the great savings for those wishing to visit often, without paying additional admission.



Page 4

'85 Moon Walks

Waimea Falls Park and the Proud Peacock Announce '85 Moon Walks

See the shadows dance under the light of the full moon each month at Waimea Falls Park's guided Moon Walks. You'll encounter captivating crayfish eyes, night-blooming plants and nocturnal creatures as you stroll through beautiful Waimea Valley by moonlight.

Twice each month enjoy a free, one-hour tour, weather permitting, up to the waterfall and back with an expert guide pointing out many mysteries of the night life.

Arrive early and have dinner at the Proud Peacock restaurant's open-air lanai and feast on the special "All-You-Can-Eat" barbecue rib dinner. Or, sip a refreshing cocktail and listen to live Hawaiian and contemporary music—it's a perfect prelude to the Moon Walk.

Moon Walk dates for 1985 are:

- March 5 & 6
- April 4 & 5
- May 3 & 4
- June 1 & 2
- July 1, 2, 30 & 31
- August 28 & 29
- September 27 & 28
- October 27 & 28
- November 26 & 27
- December 25 & 26



Sea Life Park/Waimea Falls Park
Sales Office
2222 Kalakaua Avenue, Suite 1300
Honolulu, HI 96815
Phone: (808) 923-1531, (808) 923-8448

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AUG. 20 1984

Dave

FUNNIEST sight to come out of the blackout early Saturday a.m. was Doug Boe in Jameson's downtown deciding some music was needed to keep the party going so he headed



by candlelight to the jukebox and with the aid of flashlight-bearing manager John Ferguson, loaded the box with quarters, punching a number of buttons before he realized the thing was powered by electricity . . . Artist Arthur Nelander was celebrating his 35th birthday when the blackout occurred and he'd just plugged in a third set of speakers to his stereo when the music stopped and the lights went out. Naturally he thought he'd blown a fuse, and considerable time was spent checking plugs and cables before someone looked out the window and commented, "Hey, we blew out the whole city!" . . .

AS Mrs. Arthur Murray waltzed through the supermarket one day last week, a woman approached and asked, "Aren't you Kathryn

Murray?" "Why yes," replied the former TV hostess, delighted at being recognized. "Well," the woman responded, "your zipper's open." . . . Jonathan Winters is a real antique buff and during his third visit to Antiques Pacifica last



Murray

week—he spent two hours there—he both impressed and enchanted the entire staff. Winters has been recharging his batteries, along with producer Gordon Scott, at a private Diamond Head home . . . The Thunderbird display off Waikiki yesterday was very impressive, but I couldn't help wondering how the Citizens Against Noise were reacting to it. The CAN'ers get apoplectic about the noise generated by musical groups at the Shell . . .

ALL of us who've reached our forties are saying "Thank you" today to Lee Trevino and Gary Player for their sterling performance in the PGA Tourney yesterday. The Merry Mex, 45, won the tournament and Player (who's 43) tied for second . . . Gary Campbell of the Kaanapali Resort sent a giant chocolate and macadamia nut whale in the shape of the resort's logo to recent visitor Willard Scott, the jolly

Donne's WALL

weatherman on NBC's "Today" show. Scott held it up Friday morning (before tearing into it, I'm sure) and said it was KaaNapali's way of reminding him it was the resort's 25th anniversary, along with the State's . . . The Righteous Brothers, who were such a hit when they opened the Kenny Rogers show here a few months back, are returning next month, this time as headliners. Joe Brown Enterprises is promoting the show . . . The Associated Press sent out a photo across the country showing Bill Russell of the L.A. Dodgers being honored by manager Tom Lasorda and thousands of Dodger fans. In the photo Russell was wearing the maile lei which Gene Kaneshiro of Columbia Inn hand-carried to Dodger Stadium . . .

PRESS releases sometimes say the craziest things. One from KITV about a new musical show called "Putting on the Hits" says it'll be emceed by a d.j. calling himself simply Rabbett. Here's the good part: "Rabbett, who like the venerable Mark Twain, immigrated to Hawaii from Connecticut..." What ever happened to Hannibal, Mo., or even Sacramento? Maybe someone was thinking about "A Connecticut Yankee in King Arthur's Court." . . . We'll go to any lengths for a local angle: Peter Ueberroth, who headed the entire Olympic committee in L.A. and was heralded as a hero

for his efforts, got his start in business in Hawaii 20 years ago when he was manager for Trans-International Airline here. His next job will be to succeed Bowie Kuhn as baseball commissioner . . .

GUESS who's coming to dinner? If you were at Keo's Thai Cuisine last Wednesday and answered Sidney Poitier, you'd have been dead right. Famous Wally Amos brought the actor in and introduced him to the Thai restaurant . . . There'll be lots of down home country food and the music will be likewise country when

the Ala Moana Hotel holds its "Hawaiian Country Jamboree" Aug. 31 and Sept. 1. Melveen Leed, back from Nashville's Grand Ol' Opry, will star in the foot-stomping hoopla . . . Sea Life Park's Steve Kaiser



Poitier

says one of the Kahala Hilton's green sea turtles will be moved to the park for about a month. The turtle is expected to lay eggs and needs a sandy beach in which to bury them. The beach at the Kahala is a bit too busy at the moment and Sea Life Park has a successful turtle breeding program, so it would seem to be just the maternity ward needed . . .

Sea World



February 15, 1985

Mr. George H. Balazs
Wildlife Biologist
National Marine Fisheries Service
Southwest Fisheries Center
Honolulu Laboratory
P. O. Box 3830
Honolulu, Hawaii 96812

Dear Mr. Balazs:

I am sorry that I missed you when you visited Sea World. I hope you and your family enjoyed our park and got to see some of our aquarium exhibits. I am sure you would recognize a number of our fish species as from Hawaiian waters.

Had I known when you were visiting I would have given the sea turtles a heavy feeding with vitamins the day before. However, it has been a cold winter and I have not seen much basking. Since it's been so overcast and rainy, I can't imagine basking would be of any advantage for them. Plus they have been eating quite a bit less than in the past several winters due to the lower water temperature. We have had a heat wave the past several days and several of the greens are presently basking.

A sea turtle graphic is already in the plans for the entrance pools. It is uncertain when this will be done since the entrance to Sea World is scheduled to be remodeled and possibly moved. Thank you for offering literature on sea turtles, but I think we have enough material (i.e. Archie Carr's book, etc.) to make some informative signs. Also, thank you for offering us tags. If we conduct any kind of tagging program that may be very useful and we may take you up on that.

As far as I know, the experiment of testing the durability of the tags in saltwater was never carried out. If it was, the information was never recorded. No one, including Ray Keyes, remembers anything about the experiment. Margie Stinson did say though, that the tags were monel.

Sincerely,

Carl A. Jantsch
Assistant Curator of Fishes
Sea World San Diego

COPY

NATIONAL MARINE FISHERIES SERVICE
HONOLULU LABORATORY
P. O. BOX 3830
HONOLULU, HAWAII 96813

October 22, 1984

F/SWC2:GHB

Mr. Carl A. Jantsch
Aquarium Supervisor
Sea World Inc.
1720 South Shores Road
Mission Bay
San Diego, CA 92109

Dear Mr. Jantsch:

I hope that you received the letter and literature on basking green turtles that I sent a few months ago, following your response to the notice in the AAZPA Newsletter.

Recently I was looking through one of the 1982 issues of Herpetological Review. In a note by Robert Hodge (copy enclosed), mention was made of a loggerhead turtle being rehabilitated at Sea World and later tagged and released. Sea Life Park and the Waikiki Aquarium here on Oahu regularly accept turtles for rehabilitation. I would be interested to learn approximately how many turtles are turned into Sea World each year, and what kind of tags are used when they are released.

I still plan to be on vacation in southern California during the first week of January. I hope to visit Sea World to meet with you in person, and to see the basking behavior exhibited by your sea turtles. Please let me know if you will be available sometime during that week.

Sincerely,

George H. Balazs
Wildlife Biologist

GHB:ey
cc: Balazs ✓
HL

George

I don't know this guy -
let me know if he responds.

I usually deal w/ Harry Cornell DVM
or Jerry Goldberg.

Aloha

LT

Weekend Trips



Explore the lush gardens of the Byodo-In Temple.

One of the best ways of discovering the hidden charm of Windward Oahu is to tour the area by car. A weekend drive can be an enriching experience for any kama'aina family and it's much less expensive than a mini-vacation to one of our Neighbor Islands.

The entire length of the Windward Coast (running from Makapuu Point to Kahuku) is only about 36 miles long, but the area is rich in historic Hawaiian sites and natural beauty.

One of the best vantage points is the famous NUUANU PALI LOOKOUT, which provides a panoramic view of Kailua, the jagged Koolau Mountains, Pali Golf Course, and a broad stretch of Pacific Ocean. The Lookout sits nearly 1,186 feet above sea level, and it can be approached from either direction

on the Pali Highway. Best yet, it's free.

Throughout the Windward Side you'll find miles of lush farmland, ranches where you can rent a horse, and empty beaches for swimming.

One of the best body surfing areas is at **MAKAPUU BEACH**. Makapuu is also a great spot to catch a glimpse of daring hang gliders, who leap from nearby cliffs to take advantage of the strong wind currents.

Across from Makapuu is **SEA LIFE PARK**, one of the world's leading marine showplaces. The Park features killer whales, a giant reef tank containing thousands of creatures from the briny depths, a bird sanctuary, and lively porpoise and penguin shows are spotlighted daily.

Other beaches worth exploring on the Windward Side are **KAILUA BEACH PARK, KAHANA**

9-5-84 HSB

Reveal Windward Secrets

BAY, and BELLOWS BEACH (located at Bellows Airforce Station, and open to the public on weekends and holidays). Even non-swimmers will enjoy themselves at these secluded spots, especially if you remember to bring along a hibachi grill and cold drinks for a picnic under the trees.

For a touch of ethnic culture, be sure to visit **THE VALLEY OF THE TEMPLES**, off of Kamehameha Highway. On the cemetery grounds you'll discover **BYODO-IN TEMPLE**, a replica of an ancient Buddhist church in Kyoto, Japan. The architecture is stunning, and the surrounding gardens are a pleasant respite from the "hustle" of Honolulu.

Geography plays an important part on the Windward Coast, and the leading landmarks include the 1,643-foot **OLOMANA PEAK** (named for a legendary giant who jumped from Kaula); **CHINAMAN'S HAT** (the evil lizard Mokoli'i) in Kaneohe Bay; and the **CROUCHING LION** (an ancient Hawaiian demigod who was turned to stone) near Kaa-wa. These and other historic sites are described in a fascinating book called "Place Names of Hawaii".

This travel guide on Windward-Oahu was prepared by HNA staff writer Dennis Olkowski.

SACRED FALLS just past Punaluu has captured the media spotlight recently. And because of all the attention it's attracted, now is probably the *safest* time to hike inland for a visit to one of Oahu's most celebrated waterfall areas.

At the far end of the Windward Coast in Laie is the home of **BRIGHAM YOUNG UNIVERSITY**, the **MORMON TEMPLE**



Keikis can discover ocean creatures at Sea Life Park.

(sometimes called the "Taj Mahal of the Pacific"), and the **POLYNESIAN CULTURAL CENTER**.

The Center recreates the lifestyle of numerous Pacific Island cultures through music, food, and mock-village settings... and it's probably worth a day trip by itself.

The Windward Coast has a wealth of other sites worth ex-

ploring, and you can find out more by picking up a free tourist map, or calling the **HAWAII VISITOR'S BUREAU** at 923-1811.

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Japanese Waikiki Beach Press

無料

July 31-August 13, 1984

VOL. 13 NO. 322

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偏見と差別

する側、される側に要求されること

Prejudice and Discrimination -
What has to be done for all of us?

7月25日、わが社の新聞

発行人が一通の分厚い封書を見せられた。

黒人差別に反対するグループの人からの手紙であった。

——多民族が住み、沢山の文化がうまく溶け合っていると言われるハワイにも、黒人に対する人種差別がある。ゆるとところに見られる。

例えば、社会に道義的な責任をもつ報道機関をとりあげてみても、雇用面での不公平さもさることながら、ニュース、広告その他あらゆる面で黒人をとりあげることは非常に稀である。ハワイの報道機関は、ハワイに住む黒人に対し十分な責任を果たしているとは言えない……。

残念なことに、この手紙を読んだ人のほとんどは、無関心の様子であった。ただ一人だけ、こう言い放った女性がいた。

「今さら何言ってるのよ。偏見なんて誰にでもあるんだから、これを愛えよ……」

て絶対無理よ」

確かに人は誰でも、大なり小なり何らかの偏見を抱いている。とりわけ人種偏見となると、その個人個人の苦い経験が基になっていた。何世代にもわたって知らず知らずのうちに心の奥底に巣食ってしまったものもあり、それを完全にとり除くのは恐らく不可能なことだろう。

しかしだからと言って「仕方がない」とか「そういうものさ」と言って、そのまま見過ごしに出来る問題ではない。

不断は偏見だの差別だのとは無縁な暮らしをしていても、せめて身辺に問題が提起された時ぐらい、しばし足を留めて考えてみるべきではないだろうか。

☆ ☆ ☆
からかわれたり、のけ者にされたり、差別されたりと言った現実をなめてみる。通常は「する」側にも「される」側にも反省すべ

き点がある。

冷遇を受けたり、差別された経験のある人、あるいは一般に差別の対象となるカチゴリーに入ると思っている人は、不公平と見え、原因のすべてを「そのせい」にしてしまいう傾向がある。——「黒人だから」「ハワイアンだから」「女だから」「大文字じゃないから」……。

結果として、本当の原因をつきつめて考える努力も反省もなくなり、ついには歴史的背景その他を一切無視し、表面の現象のみを見て、自分を除くすべての人や社会にその責任を転嫁するようになる。そして次

に求るのは「当然の権利」の要求である。

勿論様々な「差別」がどの社会にも存在するのは隠れがたい事実で、単に人種や性別などのために不公平な扱いを受けた時には、正々堂々と抗議するのは当然のことである。

しかし自己の欠点を反省せずに、権利の要求ばかりで押し切ろうとすると、「加害者」にされている側から必要以上の反発を買い、事態は益々悪化する。

逆にこの差別する(と言われている)側を考えると、先入観、見聞、体験、社会の風潮などから、個々

の人間を見つめる努力をせず、普遍化した枠内で簡単に判断してしまう傾向がある。

しかもその事実を誰もが行う当然のことと思ってしまうから、疑問も抱かず、考えてみる事すらしらない。

☆ ☆ ☆
大小あらゆる偏見や、それに基づく差別は、例え少しづつであっても無くす方向へ持って行かなくてはならない。

差別されている側には確立されてしまった偏見をくつがえさせただけの実績を積み必要があり、逆の立場にいる人達は、彼等がそれ

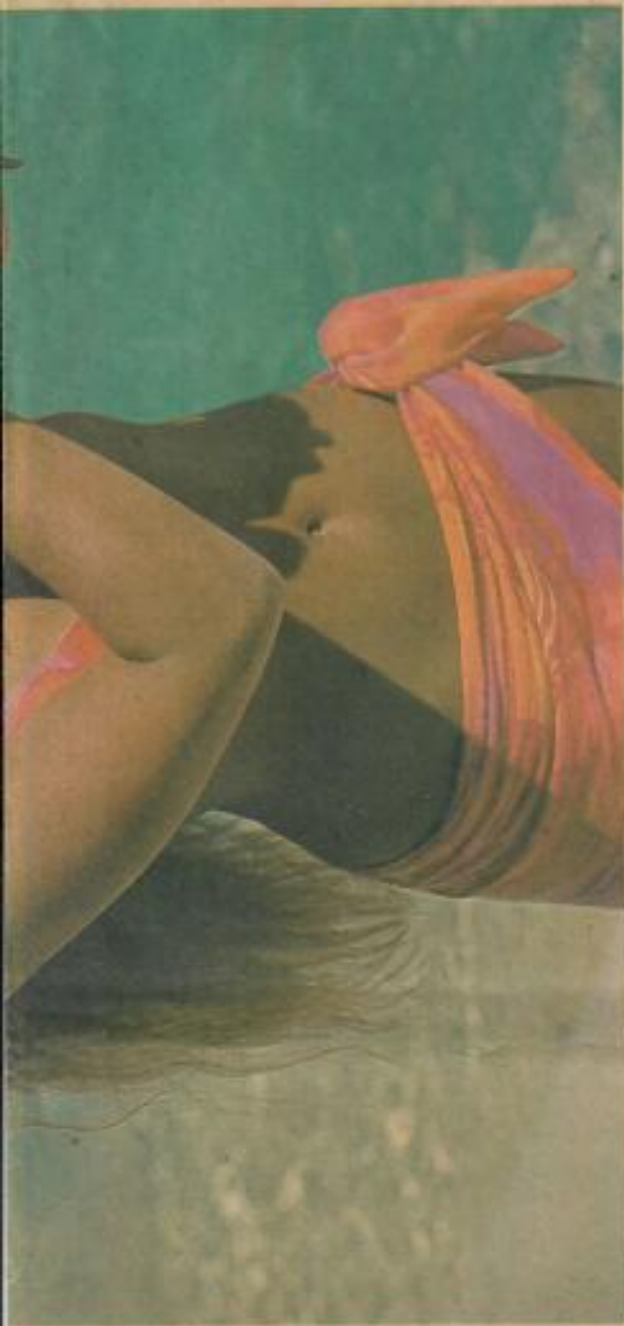
を証明出来る十分なチャンスを与え、その努力をくみ、結果を個々の人間として公正に評価することが望まれる。

☆ ☆ ☆
誰かがこんな話をした。「黒だなんて区別するからいけない。人間なんてみんな同じなんだから、みんながグリーンってことにすりゃ良い。そうすれば悪い癖が薄いかのどちからかで済む」

ホントに難しい問題である。

チェンバース 厚子

Sea Life Park photo by Nicki Clancey



August 30, 1983

F/SWC2

Mr. Gregory C. Gillette
Executive Vice-President
Sea Life Park, Inc.
Waimanalo, Hawaii 96795

Dear Mr. Gillette:

By this letter I am authorizing Sea Life Park to maintain two young green sea turtles (Chelonia mydas) identifiable as follows:

1. Tag Nos. 5659, 630 (41.4 cm. carapace length)
2. Tag Nos. 6498, 5068, 815, 515 (40.3 cm. carapace length)

These two turtles have "living-tag" grafts in their carapace and plastron and we intend to keep them in captivity until these marks are no longer visible. The animals will occasionally be checked by the staff of this Laboratory's Marine Mammal and Endangered Species Program. Should you or your staff decide that you can no longer maintain them or if you have reason to suspect one may have health problems please contact Bill Gilmartin at 946-2181.

Thank you for your cooperation in this matter.

Sincerely,

Richard S. Shomura
Director, Honolulu Laboratory

bc: Gilmartin ✓

HL
DO

WGG:iht

Don't Miss **SEA LIFE PARK** Oceans of Fun! Just 30 Beautiful Minutes from Waikiki!

Internationally known for its majestic setting alongside the rolling Pacific Ocean, Sea Life Park displays for its visitors the mystery and beauty of Hawaii's marine life.

The salty scent of the ocean, the lowering Koolau mountains and the rocky shoreline of Makapuu Point, are gifts of nature treasured by the park and its people.

Dolphins frolic and perform classy hulas; sharks cruise by just inches from your nose; sea lions bark rudely for your attention. A replica whaling ship appears to have sailed into a tropical lagoon, where early whaling days are re-told; 1600 pound tropical killer whales breach in front of your lens.

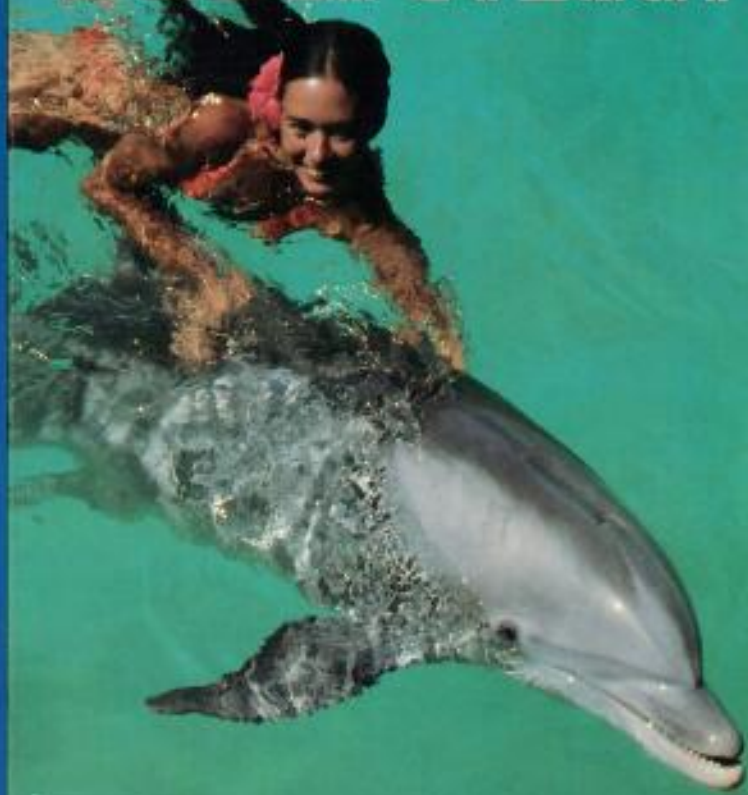
And don't miss the Pacific Whaling Museum—the most amazing collection of whaling artifacts in the country! And it's free!

The creatures that live in our warm tropical waters are awesome, beautiful, mysterious, whimsical and brilliantly colored. Two thousand of them live in our 300,000 gallon Reef Tank exhibit. You will be enchanted as you view closeup their life on a Hawaiian coral reef, three fathoms below the surface.

Feed a sea lion; watch the native birds soar overhead; linger near a waterfall; and see first hand why Sea Life Park has been the pride of Hawaii for more than fifteen years.



SEA LIFE PARK



Sea Life Park's rustic Galley Restaurant offers a delicious assortment of snacks, hot meals, salads, sandwiches and sweets. Open every day, visitors to Makapuu can acquaint themselves with island specialties, or pick their favorite all-American fare from the plentiful buffet. The Spouter Deck offers tropical drinks and cocktails in the cool indoor-outdoor setting overlooking the ocean and the park below. Our special torchlit Hawaiian evening events bring many guests to the park for authentic luaus, complete with outstanding entertainment in an unsurpassed setting. Continuous Shows from 9:30 a.m. daily. Last series of shows begin at 3:15 p.m. (4 p.m. during summer months).

The Beauty of our People
The Excitement of our Ocean



SEA LIFE PARK

Contact your travel agent or hotel travel desk.

PARK: Makapuu Point, Waimanalo, Hawaii 96795
(808) 259-7933

WAIKIKI OFFICE: 2222 Kalakaua Avenue, Suite 1309
Honolulu, Hawaii 96815 / (808) 923-1531

1985 ZOO AND AQUARIUM MONTH
POSTER CONTEST UNDERWAY

Anyone associated with zoos or aquariums is eligible to submit designs. The winning design will be chosen at the 1984 AAZPA Annual Conference.

Conservation of endangered animals is this year's theme. Last year, the judges commented favorably on those designs which had good color appeal, represented zoos and aquariums, indicated habitat and exhibited simple, clean design.

Delivering and returning of artwork is the responsibility of the entrant. For those able to attend the conference, notices will be posted on all available bulletin boards stating where to drop off work and when to pick it up.

To obtain guidelines, contact Gerry Brady, Director, Sunset Zoo, 11th and Poyntz, Manhattan, KS 66502 or Florence Bramley, Graphics Coordinator, Staten Island Zoo, 614 Broadway, Staten Island, NY 10310.

Those unable to attend the Annual Conference can send their submission to ZAM Poster Contest, c/o William Tuttle, Supervisor of Graphics, Metrozoo, 12400 SW 152nd Street, Miami, FL 33177.

(S. Robbins)

NATIONAL ZOO RECEIVES GUAM BIRDS

On 31 March, the National Zoological Park received 1/1/2 Guam rail from the Department of Agriculture, Guam. The total population of this species is estimated at fewer than 50. A dozen captive birds kept on Guam have reproduced, but the young did not survive. This and most other indigenous Guam species are believed to be highly endangered due to predation by the Philippine rat snake. The Guam bird projects for U.S. zoos are being coordinated by the Philadelphia Zoological Garden, which recently received six pairs of Guam kingfisher.

(C. Pickett)

INFORMATION SOUGHT

Information on diet or special husbandry problems with the star-nosed mole, little brown bat, northern bog lemming and collared lemming is being requested and should be sent to Kevin Moore, Salmonier Nature Park, P.O. Box 190 Holyrood, Newfoundland, Canada A0A 2R0.

ACCREDITATION REINSPECTIONS REENACTED

Due to the heavy work load associated with Accrediting all AAZPA Institutional members by 31 December 1985, the Accreditation Commission placed a temporary moratorium on reinspecting those institutions already Accredited. Accreditation guidelines call for reinspection at least once every five years.

The Commission intends to resume reinspection during 1985, and all qualified institutions are urged to adjust their budgets accordingly. In some instances only one inspector is required for reinspection; therefore, the Commission will make every effort to keep costs at a minimum.

(Palmer Krantz, Chairman
Accreditation Commission)

INFORMATION ON BASKING SEA TURTLES SOUGHT

Green turtles (*Chelonia mydas*) have been observed regularly basking ashore during the daytime on remote beaches in the Hawaiian Islands National Wildlife Refuge. Hawaiian green turtles held in captivity have also displayed this unusual basking behavior when provided with a sloping ramp that offers them the opportunity to haul out. Studies have been published in Hawaii, but very little information is available about sea turtles basking elsewhere, especially when held in captivity. Anyone having information, especially those employed at facilities with ramps, is asked to contact Steve Kaiser, Curator of Fishes, c/o Sea Life Park, Makapuu Point, Waimanalo, HI 96795.

BOOK ON DISEASES OF REPTILES
TO BE PUBLISHED

The Institute for Herpetological Research will be publishing a book titled THE BACTERIAL DISEASES OF REPTILES. It will contain advanced information on identification, diagnosis, treatment and control of major bacterial diseases of captive reptiles. For further information, contact Richard Ross, MD, Institute for Herpetological Research, P.O. Box 2227, Stanford, CA 94305.

EDWARD H. BEAN AWARD ENTRIES SUBMITTEDMAMMALS

Cheyenne Mt. Zoological Park:	Orang-utan
	Reticulated Giraffe
Columbus Zoological Gardens:	Lowland Gorilla
Lincoln Park Zoological Gardens:	Lowland Gorilla
Los Angeles Zoo:	Bongo
	Emperor Tamarin
	Red-Crowned Mangabey
New York Zoological Park:	Southern Pudu
	Snow Leopard
St. Louis Zoological Park:	Speke's Gazelle
San Diego Wild Animal Park:	Southern White Rhinoceros
San Diego Zoo:	Francois Langur
Seattle Aquarium:	Northern Fur Seal

BIRDS

Jackson Zoological Park:	King Vulture
	Philippine Blue-Naped Parrot
Jacksonville Zoological Park:	Southern Ground Hornbill
New York Zoological Park:	Pink Pigeon
	Pesquet's Parrot
Oklahoma City Zoo:	Guianan Crested Eagle
	Ornate Hawk Eagle
Sea World, San Diego:	King and Emperor Penguins

REPTILES

Dallas Zoo:	Australian Snapping Turtle
Detroit Zoological Park:	Beaded Lizard
Fort Worth Zoological Park:	Yellow-Spotted Amazon Turtle
Honolulu Zoo and	
San Antonio Zoological Gardens:	Madagascar Angulated Tortoise

INVERTEBRATES

Seattle Aquarium:	Giant Pacific Octopus
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(D. Anderson)

Hawaii



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chapman

The Honolulu Advertiser

Wednesday, September 21, 1983 A-3

THE DOTTED LINES: **Tommy Holmes** says the Friends of the Falls of Clyde are looking for a volunteer to paint the name of the ship on the fantail stern. The name is already painted on the front (stem) of the ship, but it's the rear that faces people ashore and needs identification. Paint and materials will be provided . . . The \$415,000 expansion of HCT's Fort Ruger Theatre is nearly pau, with finishing touches being applied before the grand opening on Sun. The real opening will be for the premiere of **Bob Magoon's** "Aloha" on Oct. 6 □ □ □

DIS AND DOT: Then there's the Haleiwa Theatre. **Susan Nunes** and **Franklin Luke** found a bit of grafitti there — and included it in their just-published "Essential Moke 1984 Coloring Calendar" — in which the "S" was scratched out of a "No Smoking" sign . . . **Caroline K. Shaw** wonders what we'll call Kikelo the Crocodilian, the caiman in Nuuanu Reservoir, if we discover that it's really a caiwoman? . . . Does this mean a return of the ERA — Equal Reptiles Amendment? . . . **Beverly Nelson** of Honolulu, the only female auctioneer in the western United States, is preparing for a gala formal blessing and art exhibit at her H.L. Nelson Co. on Sat. □ □ □

ISLE STYLE: No ghosts have been spotted yet, but there are already big cracks appearing in the new UH law school building, reminding some folks in Manoa of the ill-fated F Tower of the College of Business Administration that was built on an ancient, sacred Hawaiian site . . . **Dame Leatairangi**, queen of the Maori people, visited the Maori village at the Polynesian Cultural Center, where she was honored. While in Hawaii, she is the guest of our royal **Kawananakoa** family . . . Crocodilians aren't the only creatures in Hawaii enjoying duck feasts. Syndicated Palm Desert restaurant critic **Lee Stanley** was in town last week, eschewing Nuuanu Reservoir for **Randy Lee's** Willows in Moiliili, where he declared the boneless duck "the best I have ever had, anywhere!" . . .

HERE AND THERE: **Steve Kaiser, Ingrid Kang** and **Marilyn Lee** of Sea Life Park are off to Vancouver, B.C., to attend the American Assoc. of Zoological Parks and Aquariums



Talisman

convention, where Steve will deliver a lecture on "New Method of Rearing Green Sea Turtles" . . . **Greg Marshall** of TAD America in Mapunapuna was in Washington, promoting Hawaii and his company during a nat'l communications convention, and lunched with former Miss Hawaii **Keone Cook Talisman** and Sen. **Spark Matsunaga** at the Capitol. Spark was so congenial that Greg says he's tempted to vote Democratic for the first time next year . . . In town researching a big spread on Hawaii is **Ann Warren** of "D" magazine in Dallas and Houston City magazine . . . Winning an award was good enough for architects **Pete Wimberly** and **Jerry Allison**, but they were especially honored that their Aga Khan Award for Architecture was presented by His Highness the **Aga Khan** and His Excellency **Kenan Evren**, president of the Turkish Republic, in Istanbul □ □ □

"Legends Of The Sea"

at Sea Life Park

featuring The Turtle of Tamarua
begins October 24, 1983



In addition to Sea Life Park's regular marine show, teachers of grades 1, 2, or 3 may now request "Legends of the Sea." The one-hour docent program offers students an opportunity to learn about the green sea turtle in a factual, sensory-aided presentation. Illustrations, vocabulary cards, simulated models and props such as a green sea turtle shell, hatchling specimens and a skull are used by the docent to share information about this endangered species.

The second portion of this program involves the presentation of a 20-minute play based on a Polynesian legend called "Turtle of Tamarua." Children walk through the archway which leads them to the enchanted village of Tamarua (on the Island of Mangaia).

Here they meet Princess Ina who is taking care of her almost blind father. As the play unfolds, students respond enthusiastically to the process of learning through creative expression. In the end, the coconut palm is presented as a gift to Ina from the Prince of Sea Turtles. As in all legendary folklore, the arrival of natural wonders, such as the coconut, is explained as one way which people believed it came into being.

PROGRAM DATES: October 24, 1983 through
June 11, 1984

PROGRAM DAYS/TIMES: Mondays, 9:00 a.m.-11:45
a.m.—includes all regular
Sea Life Park shows

GRADE LEVELS: 1 - 3

STUDENT MAXIMUM: 130

RESERVATIONS: 923-1531, Reservations Office

MORE INFORMATION: 259-7933, Sea Life Park
Education Department



Conference on pest control

The third annual Hawaii Pest Control Conference will be held tomorrow and Tuesday in the Ala Moana Banquet Hall.

The conference will address such issues as controlling pesticides and striking a balance between protection of the environment and effective pest-control measures.

The conference is co-sponsored by the University of Hawaii College of Tropical Agriculture and Human Resources and the Hawaii Pest Control Association.

The registration fee, including lunch tomorrow, is \$45. The fee for one-day attendance is \$30. For information and registration, call Barry Brennan at 948-8352.



**town
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Pro-life speakers

The Pearson Foundation Inc. of Hawaii will hold its third state conference 8:30 a.m. to 4 p.m. Thursday at St. Anthony's Retreat Hall, 3351 Kalihi St.

The keynote speaker will be Ernest Ohloff, executive director of the National Committee for the Human Life Amendment Corp. of Washington. Speakers in the pro-life movement also will participate.

The registration fee is \$10 and includes lunch and snacks. For reservations, call Eunice Ching, 947-5377, 9 a.m. to noon weekdays.

and environment

the Belgian Minister of Foreign Affairs and was head of his nation's Energy Department.

The lunch is sponsored by the Hawaii International Services Agency of the state Department of Planning and Economic Development and the Pacific and Asian Affairs Council.

Reservations are \$11 per person and can be made by calling the HISA office, 548-8597. The deadline for reservations is noon Jan. 26.

Sea Life Park programs

The Sea Life Park is offering two new programs for students: the first teaches younger children about sea turtles and the second teaches older students about aquaculture.

The program about turtles is for children in grades one through three, according to Marilyn Lee, director of the park's education department. The program includes a lecture on turtles and a play, "The Turtle of Tamarua," every Monday.

Available to students in high school or older is a lecture tracing the history of aquaculture in Hawaii. A presentation on a fishing village, the importance of the sea to the ancient Hawaiians and modern aquaculture is held on Wednesdays during the school year.

Admission to the park is \$1.50 for elementary school students and \$1.75 for secondary school students; the programs are included in that price.

For more information phone the park's education department at 259-7933. To make reservations, call 923-1531.

Sea Life Park is proud to announce a
"SENSE-SATIONAL MARINE EDUCATION PROGRAM"
 beginning October 24!

In addition to Sea Life Park's regular marine shows, teachers of grades 4, 5 or 6 may now request the "Sense-sational Marine Education Program." The one-hour docent-operated program enables students to experience two of four different marine learning stations available at each grade level.



Mondays

Grade Level 4:

Invertebrates and vertebrates of the ocean

1

Touch and Feel Pool

2

Fish Observation

3

Oysters and Pearls

4

Dolphin Observation

Wednesdays

Grade Level 5:

Habitats and Adaptations of Marine Animals

1

Sea Birds of Hawaii

2

Sea Lions and Seals

3

Sea Turtles of Hawaii

4

Penguins

Fridays

Grade Level 6:

A Look Inside Out

1

Corals of Hawaii

2

Fish Dissection

3

Plant Discovery

4

Whales

The program is scheduled Monday, Wednesday and Friday Mornings from 8:45 a.m. to 12:00 noon.

October 24, 1983, through June 11, 1984.



Sea Life Park requests that 1 adult aide accompany each 10 students.

For reservations call:

Sea Life Park
 2222 Kalakaua Avenue, Suite 1309
 Honolulu, Hawaii 96815

923-1531

For more detailed information:

Education Department
 Sea Life Park
 Makapuu Point, Oahu 96795

259-7933

SEA LIFE PARK

Bill - FYI



August 31, 1983

Mr. George Balazs
National Marine Fisheries
Hawaii Institute of Marine Biology, #303
P.O. Box 1346
Kaneohe, HI 96744

Dear George,

Thank you very much for agreeing to participate as a lecturer in the Fall 1983 Sea Life Park Training and Instructional Workshop for volunteer docents. Your special expertise will make our program a valuable and beneficial experience for the docents.

The workshop will begin September 9. We look forward to your presentation on Sea Turtles on October 12. A lecture schedule is enclosed; if there is any conflict with your schedule, please inform us as soon as possible.

The University of Hawaii Environmental Studies and Marine Options Programs and the Hawaii Pacific College Cooperative Education Program have approved two to three semester units of credit for the volunteer Docent Workshop. The curriculum review committees would like a resume for each lecturer. If you have not submitted a resume in the past, or if your information needs up-dating, kindly supply us with a copy of your resume or additional information as soon as possible.

Again, thank you for your support and enthusiasm in promoting marine education for all. We look forward to hearing from you soon!

Aloha,

Marilyn C. Lee
Education Coordinator

ML/mp

enclosure

SEA LIFE, INCORPORATED:

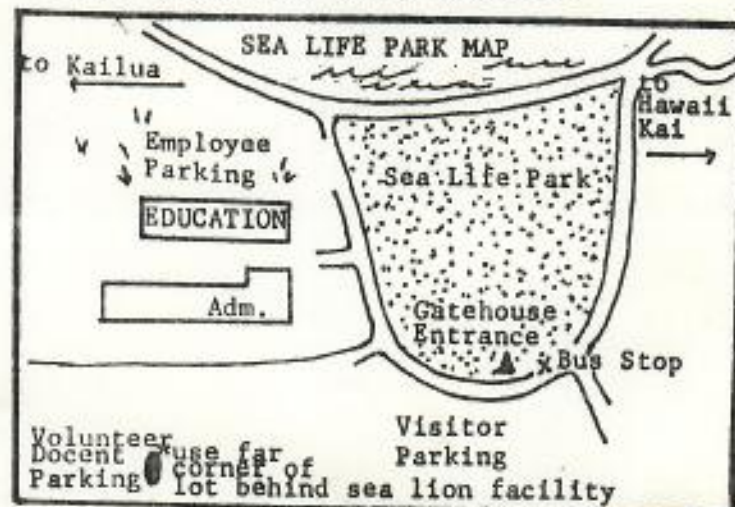
PARK: Makapuu Point • Waimanalo, Hawaii 96795 • Phone 259-7933

SALES OFFICE: 2222 Kalakaua Avenue • Suite 1309 • Honolulu, Hawaii 96815 • Phone 923-1531

VOLUNTEER DOCENT PROGRAM
TRAINING AND INSTRUCTIONAL WORKSHOP SCHEDULE

<u>DATE</u>	<u>TOPIC</u>	<u>LECTURER</u>	<u>DOCENT</u>
F Sept. 9	Orientation	Marilyn Lee Mary Pickett	Kay Allen
M Sept. 12	Fish Observation	Steven Kaiser	Clyde Kakazu
W Sept. 14	Sea Lions and Seals	Ingrid Kang	Coni Strauch Vivian Stewart
F Sept. 16 (8:00 am)	Corals of Hawaii	Art Reed	Jane Jones Jo Pieper
M Sept. 19 (8:00 am)	Invertebrates of the Ocean - A Microcosm	Mary Pickett	Barbie Thorstad Sue Bannister Shirley White
W Sept. 21	Break		
F Sept. 23	Plant Discovery	Keith Wooliams	Sue Powell Mildred Bachman
M Sept. 26	Dolphin Observation	Marlee Breese	Meredith Luck
W Sept. 28	Sea Birds of Hawaii	Ingrid Kang	Mack Palk Faye Domke
F Sept. 30	Whales Whaling	Jon Lauterbach Jane Jones	Ridgely Keeley Betsey Grimmer
M Oct. 3	Oysters and Pearls	Marilyn Lee	Betty Smith
W Oct. 5	Hawaiian Fishponds and Aquaculture	Richard Fassler	Colleen Leggatt
Th Oct. 6	Penguins	Peter Luscomb	Pat Wiencke Audrey George
F Oct. 7	Fish Dissection	Steven Kaiser	Nancy Childs Michele Turner
M Oct. 10	Discover's Day Holiday		
W Oct. 12	Sea Turtles	George Balazs	Kay Allen
F Oct. 14 (8:30 am)	Teaching Methodology Practice Sessions Evaluations by Groups	Turtle of Tamarua Cast/Crew: Sallie Bearden, Carol Bohn, Signy Brown, Cindy Chism, Patty Oshiro, Jessica Putnam, Coni Strauch	
M Oct. 17 (8:30 am)	Teaching Methodology Practice Sessions Evaluations by Groups		
W Oct 19 (8:30 am)	Teaching Methodology Practice Sessions Evaluations by Groups		
F Oct 21 (8:30 am)	Teaching Methodology Practice Sessions Evaluations by Groups		

UNLESS NOTED OTHERWISE, SESSIONS BEGIN PROMPTLY AT 9:00 A.M. in the SEA LIFE PARK EDUCATION BUILDING.



SEA LIFE PARK

THE TURTLE OF TAMARUA
GRADE LEVELS 1-3 MARINE EDUCATION PROGRAM

Students are gathered around Sea Life Park's Turtle Lagoon to learn about the green sea turtle in a factual, sensory-aided presentation given by a trained volunteer docent. Illustrations, vocabulary cards, simulated models and props such as a green sea turtle shell, hatchling specimens and a skull are used by the docent to share information about this endangered species.

The second portion of this program involves the presentation of a play based on a Polynesian legend called the Turtle of Tamarua. Children walk through the archway which leads them to the enchanted land of Tamarua.

BACKGROUND ON THE TURTLE OF TAMARUA PLAY

The Turtle of Tamarua: From The Sky-Eater and other South Sea Tales, Holding, James, Abelard-Shuman, New York, 1965.

Characters

Ina: Beautiful princess of Tamarua on the island of Mangaia.
Turtle Prince: Prince of all the sea turtles and in love with Ina.
Kui: Almost blind chief of Tamarua and Father of Ina.
Mai: Girlfriend of Ina.
Narrator/Storyteller

Settings

Tamarua, village on the Island of Mangaia: Kui and Ina's House
The Lagoon
Vegetable and Fruit Patches
The Turtle's Grave

Summary

Ina, a young girl of 11 years, had to take care of her almost blind father by herself as she had no brothers or sisters and mom had passed on to the spirit land. Ina never complained about all the chores she had--food gathering, food growing, housekeeping and caring for her father. She was admired by many of the young men. Each evening, Ina would bathe in a secluded bay of the lagoon near her house. One day, a turtle came by and chatted with her. They became very good friends. The Turtle asked for her hand in marriage but she thought he was joking--but she then realized he was serious and wanted to bring her back to his kingdom. He turned himself into a handsome young man but Ina was concerned about her father and asked if she could bring him to the kingdom also. Turtle said that the other turtles would not accept another human except her as his wife. Humans have caused too much harm to them. Ina said she could not leave her father. Turtle said he respected her decision and would leave her a gift to remember him by...the gift would also help make her life easier in caring for her father--in fact, it would be useful for all the villagers! A great rain came that flooded the village up to the doorsteps; a turtle messenger was left on Ina's doorstep; the Turtle told her that she must bury the turtle messenger in a very special place; she should visit and tend this place every day; eventually, a coconut palm tree grew there--this plant provided Ina and the village people with food and many uses. The coconut is representative of the Turtle as the shell is hard as the Turtle's shell and the liquid inside is of the same clear and limpid fluid as the sad Turtle's tears...the sadness expressed by Turtle because Ina would not marry him.

PROGRAM DATES: November 15, 1982 - June 6, 1983

PROGRAM DAYS/TIMES: Mondays, 9:00 am - 11:45 am--includes all regular Sea Life Park shows

GRADE LEVELS: 1 - 3

STUDENT MAXIMUM: 130

RESERVATIONS: 923-1531, Reservations Office

MORE INFORMATION: 259-7933, Sea Life Park Education Department

SEA LIFE PARK

TURTLE OF TAMARIA--INTRODUCTORY LECTURE ON SEA TURTLES

INTRODUCTION: (AT THE STATUE DECK) Welcome to Sea Life Park! My name is _____ and I will be a character in the turtle play you will soon see. First, however, I would like to share with you some information about sea turtles at the Turtle Lagoon. I would like you all to follow me and gather around the lagoon. Please allow those students who are shorter to stand in front so everyone can observe the turtles. Everyone--follow me!
(WALK TO THE LAGOON)

(AT THE TURTLE LAGOON) (AFTER ALL ARE COMFORTABLY ARRANGED) I would like you to use your eyes and ears to learn about turtles...so, LOOK and LISTEN VERY CAREFULLY. I also have some turtle props. You may touch the props as you walk past them when I have completed my talk--be very careful when you handle these (SWEEP HAND OVER PROPS) as they are very SPECIAL items--a lot of hard work went into preparing them.

Today, I would like to tell you about ONE kind of sea turtle--the Green Sea Turtle (POINT TO) lives in our Hawaiian waters. Most of them live in the Northwestern Leeward Islands (SHOW ON MAP). Most of these islands are a part of the Hawaiian National Wildlife Refuge --the animals that live there are all protected by law. (SHOW TURTLE POSTER) All 7 kinds of sea turtles are endangered species--can someone tell me what that means? (THERE ARE FEWER OF THE ANIMALS LIVING AND THEY MAY BECOME EXTINCT IF WE DON'T HELP PROTECT THEM) Does anyone know what extinct means? (THERE WON'T BE ANY MORE _____ LIVING ON THIS EARTH) For example, the dinosaurs are all extinct now.

(SHOW SHELL) Here I have a green sea turtle shell. This shell is on loan to Sea Life Park from the National Marine Fisheries Service. We have a special permit so that we can share it with you. What colors do you see on the green sea turtles in our lagoon and on this shell? (BROWN, BLACK, YELLOW) Yes! But they do have green fat and that's how they got their name. The body of the turtle is attached to its shell. Can turtles pull their head and legs inside their shell? (RESPONSES) Land turtles or turtles that live on land can pull their head and legs inside their shell but turtles that live in the ocean cannot pull their head and flippers inside their shell. (ROLE PLAY) Let's see if we can pull our head and arms inside our bodies!

(TURN SHELL OVER AND POINT TO THE BACKBONE) Can you tell me what part of the turtle's body this is? (BACKBONE, SPINE, VERTEBRAE) Right! Animals that have backbones are called vertebrates (SHOW VOCABULARY CARD) Let's all say vertebrate together--vertebrate! Are we vertebrates? (RESPONSES) Let's all find our backbones! (RUN HAND DOWN BACKBONE)

The Hawaiian name for the green sea turtle is HONU (SHOW VOCABULARY CARD). Let's all say HONU together! (PROMPT UNISON WITH HAND MOTION) "HONU"!

Can someone tell me who is a relative of the turtle? (LIZARD, ALLIGATOR, CROCODILE...) Yes! These animals are all in the family called (PROMPT UNISON WITH HAND MOTION) _____ (REPTILE) Right! They all breathe air--you will notice our turtles popping up for air every once in a while. (ALLOW TIME FOR OBSERVATION)

(SHOW EGGS) These are the eggs of a green sea turtle--what do they remind of you of? (PING PONG BALLS) Yes, they do! They are not as brittle as a regular egg. This is a model of a sea turtle nest (SHOW TURTLE NEST MODEL) Up to 100 eggs can be laid. When the sea turtle baby breaks through its egg, it must climb to the surface of the sand. Then it hurries to the ocean where it lives. The baby sea turtle weighs only about one ounce when born. This salt weighs one ounce (SHOW SALT IN PALM OF HAND). Hold it as you come by to discover how light a baby sea turtle would be. (SHOW HATCHLING SPECIMEN) This is a baby sea turtle that did not live. If they grow to become adults, they may be 3 feet long (USE HAND MOTIONS) and weigh up to 300 lbs--probably more than your mom or dad weighs!

SEA LIFE, INCORPORATED:

PARK/EDUCATION DEPARTMENT: Makapuu Point . Waimanalo, Hawaii . Phone 259-7933

RESERVATIONS: 2222 Ke`akaua Avenue . Suite 1309 . Honolulu, Hawaii . Phone 923-1531

(SHOW SKULL) This is a green sea turtle skull. Look at the teeth--they don't look like ours! What do you think they eat? (SEAWEED/ALGAE/LIMU) We have a very long word for animals that eat plants. Does anyone know what they are called? (RESPONSES) They are called herbivores (SHOW VOCABULARY CARD). Let's all say herbivore together (PROMPT UNISON WITH HAND MOTIONS)--herbivore!

(PEER INTO LAGOON) Let's see if we can find a boy turtle and a girl turtle! The boy turtles have long, thick tails and the girl turtles have short tails. (OBSERVE AND ALLOW STUDENTS TO POINT OUT BOYS VS GIRLS)

The sea turtles that live in Hawai'i are very special--they are the only ones that come out of the water to sunbathe. It is called basking (SHOW VOCABULARY CARD) The next time you go the beach you can tell your parents that you're basking just like the green sea turtle!

(SINCE WE COULDN'T SEE THE TURTLES' TAILS VERY WELL IN THE WATER, YOU WOULD SURELY BE ABLE TO SEE THEM WHEN THEY ARE BASKING OR SUNBATHING!)

REVIEW

What kind of sea turtles did we talk about today? Green Sea Turtle

What is the Hawaiian name for Green Sea Turtle? Honu

What does Honu eat? Limu

What are animals with a backbone called? Vertebrates

CLOSING: Remember, all the sea turtles are endangered species and we need to help protect them so they won't become extinct. Please share your new information about sea turtles with your family and friends. (IF TIME PERMITS--DO YOU HAVE ANY QUESTIONS?) Now that you know a little about the Green Sea Turtle, let's go on to see the legend of the Turtle of Tamarua--follow me!

SEA LIFE PARK

THE TURTLE OF TAMARUA--A PLAY BASED UPON A POLYNESIAN LEGEND--GRADES 1-3

CHARACTERS: Narrator
Ina
Kui
Mai
Turtle Prince

ACT I SCENE I

NARRATOR: (STAGE LEFT ENTER, CENTER STAGE) Aloha, Keikis (WAIT FOR RESPONSE). Today, we of the enchanted land of Sea Life Park are going to share with you the legend of the Turtle of Tamarua. Who knows what a legend is? (RESPOND FAVORABLY TO RESPONSES) Tamarua is a tiny village on an island in the South Pacific. It is NOT a Hawaiian legend. The Turtle of Tamarua is probably a Green Sea Turtle that is also found in our Hawaiian Islands. You remember the ones we saw in the lagoon a little while ago.

This legend is about a princess named Ina and a Turtle Prince who loves her. Their story explains how coconuts might have come into the world. It will be presented to you in a play. The characters will come alive.

(HUSH/PAUSE) Listen! I think I hear our princess coming. This is Ina and this is the Turtle Prince. Don't you think our Turtle Prince looks like the turtles we just saw? Well, you always need to use your imagination a little in a legend. (EXIT STAGE LEFT)

INA: (ENTER STAGE LEFT--REFLECTING TO HERSELF) My, (PAUSE) I still have to pick taro and the sweet potato, kumara, for my father's dinner. I have no brothers or sisters to help me and Mother has passed onto the spirit world (LOOKING UP SADLY). Kui, my father is almost blind, as well. (SIGH) I will not complain. (INA SETS OUT TO PICK TARO AND KUMARA FROM RIGGED PLANT CONTAINERS) That should be enough. (INA NOTICES FATHER SITTING DOWN IN FRONT OF THE HUT) Good afternoon, father. How are you today?

KUI: (SEARCHING FOR HIS DAUGHTER WITH HIS EARS) Is that you, my daughter, Ina?

INA: Yes, Chief Kui. (INA SITS NEXT TO FATHER AND TAKES HOLD OF HIS HAND)

KUI: I am feeling fine today. Perhaps we could go fishing. You could bait my hooks and help me catch fish again.

INA: Very well, father (INA LEADS FATHER TO FISHING SITE WHERE FISHING POLE IS READY) Here father (INA HANDS HIM THE POLE)

KUI: Thank you, Ina. (WAITS FOR A WHILE) I felt a tug! Quick, get a basket! (INA FETCHES BASKET...KUI PULLS UP RIGGED FISH)

INA: What a fine fish father! Let's go back and have dinner. (INA LEADS KUI BACK AND STARTS TO PREPARE FISH)

ACT I SCENE II

NARRATOR: (ENTER STAGE LEFT CENTER STAGE) Now, it is early evening in Tamarua. (DROP MOON AND STARS) Ina must prepare the fish for her father's dinner. (INA'S MOTIONS REFLECT PREPARATION OF FISH) Soon Ina will finish and go for a bath in the pond next to her hut. She has done so for the past years and probably will always do so. (EXIT STAGE LEFT)

INA: I am done now, father. Why don't you eat while I go bathe? (INA HANDS KUI FISH AND TARO/SWEET POTATO)

(INA NOW MAKES WAY TO POND WITH CLOTH AS TOWEL) The water looks cold tonight.

(STICKS FOOT IN POND--PROLONGED SHUDDER) Brrrrrr, it is cold! (INA HEADS FOR THE CENTER ROCK) I guess I will make the best of it. (SPLASHES HERSELF WITH WATER, TRYING NOT TO SHUDDER)

TURTLE P: (ENTERS STAGE LEFT AND TAPS INA ON SHOULDER) Good evening, Ina.

INA: (SURPRISED) Hello there turtle. Are you taking a bath also?

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TURTLE P: I was swimming by and saw you here. You are very beautiful, if I may say so.
(TURTLE LOWERS HEAD, SHYLY)

INA: (MODESTLY) Thank you and I can return the compliment because you are a very handsome sea turtle.

TURTLE P: Would you mind if I stayed and talked with you?

INA: Of course not. (INA PATS SHELL)

TURTLE P: Won't you try and catch me for your father's dinner?

INA: No, you don't have to worry. I could never harm you and, anyway, my father does not like turtle meat. Besides, (PAUSE) how did you know about my father and my name?

TURTLE P: I know many things. Let's not ask questions. (TURTLE P AND INA SPLASH AROUND A FEW TIMES) I shall come back tomorrow. Will that be alright?

INA: Certainly. I come here every day. (TURTLE P EXITS STAGE LEFT AND INA GOES BACK TO HUT AND SITS DOWN IN FRONT OF THE HUT)

ACT II SCENE I

NARRATOR: Ina has met a sea turtle with whom she talks and swims. The next day, she is going to pick fruit with her friend, Mai. (EXIT STAGE LEFT)

INA: (MAI ENTERS STAGE LEFT) Good day, Mai. Are you ready to pick fruit?

MAI: Of course, Ina. (BOTH GIRLS PICK UP BASKETS AND PROCEED TO PICK FRUIT). You know Ina, (SMILING) my brother Mata likes you.

INA: (PICKING FRUIT) I thought so. He is nice. (STOPS PICKING FRUIT) I hope I will be married one day. Perhaps then I'll have someone to help me take care of my father. But for now, I can't leave my father.

MAI: No, I suppose not. (FINISH PICKING FRUIT) Well, I'm done now. I will see you later perhaps. (BEGIN EXITING STAGE LEFT)

INA: Good bye Mai. (WAVES GOOD BYE) It is almost night again (DROP MOON AND STARS) I had better start dinner. (GOES TO HUT AND BEGINS TO PREPARE DINNER)

KUI: (WHO HAS BEEN SITTING THERE ALL THIS TIME) Are you almost finished making dinner, Ina?

INA: Yes, father. (INA HANDS KUI PLATE WITH SWEET POTATOES AND FRUIT) I'm going to the pond to talk to the turtle now. (GOES TO POND)

TURTLE P: (HE'S BEEN WAITING FOR HER) Good evening, Ina.

INA: (TAKING HER PLACE ON THE ROCK) Good evening, Turtle. Forgive me Turtle, but I am very curious. How did you know my name and about my father last night?

TURTLE P: I didn't want to tell you but you are so beautiful I must speak the truth. I am no ordinary turtle, I am the Prince of the Sea Turtles and I have magical powers! That's how I knew your name. (LONG PAUSE) I like you very much, Ina. (DROP HEAD) I wish you would marry me and become my princess. (LOOKS UP)

INA: A Turtle Princess! No thank you! I am already a princess in Tamarua and I have to work harder than anyone else.

TURTLE P: If you married me, you would have hundreds of servants to wait upon you. You'll never have to work again!

INA: Thank you very much for asking me but I could not do so because I have to take care of my father, Kui.

TURTLE P: I knew you would say that. (COVERING FACE WITH HANDS AND APPLYING TEARS) (TAKE HANDS OFF TO SHOW TEARS)

INA: Don't cry Turtle, I didn't mean to hurt your feelings. Don't you want a turtle to be your princess?

TURTLE P: I fear that I could never love her as much as I love you.

INA: (SMILE) I'm much too young to marry anyone. But I think Mata, my friends' brother likes me.

TURTLE P: (TRY TO CRY HARDER) Is this Mata more handsome than I? Wait here and I'll be back in a minute. (EXIT STAGE LEFT) (TURTLE CHANGE TO PRINCE IN HUMAN FORM)

INA: (OFF ROCK AND CENTER STAGE IN FRONT OF AUDIENCE) (SPEAK TO STUDENTS) Isn't he a different sort of turtle? (RESPONSES) Should I leave my father? (RESPONSES) How about if I marry Mata? (RESPONSES) (TURTLE ENTERS STAGE LEFT--HOPEFULLY STUDENTS NOTICE AND POINT HIM OUT--INA NOTICES HIM AND STANDS UP TO TALK TO HIM)

TURTLE P: Suppose I looked like this all the time? (TURNING SLOWLY AROUND). Would you marry me then?

INA: (SURPRISED) You are certainly very handsome.

TURTLE P: Come with me and be my princess and I will stay like this.

INA: Could my father stay with us?

TURTLE P: (SHAKING HEAD) I'm afraid not. My people would accept you as my bride but not your father. One human they would be able to accept but another--no. Humans have hurt my people for many years. They would never be able to accept a possible enemy.

INA: Then I cannot marry you, Prince. I cannot leave my father.

TURTLE P: Very well, I understand and respect your decision. Since I cannot have you as my wife, I would like to give you a present that will help you take care of your father. The gift will also help all of the villagers in Tamarua.

INA: Thank you, o Prince. What is the gift?

TURTLE P: You'll know in time. Tonight, it will rain very hard and a turtle will be washed up onto your doorstep. It will be a messenger from me. You must bury him and visit the burial spot every day--you will be rewarded by a sight never seen before. (EXIT STAGE LEFT) Good bye Ina.

INA: Good bye Turtle Prince. (WAVING GOOD BYE)

ACT II SCENE II

NARRATOR: (ENTER STAGE LEFT) The village was flooded overnight and the rains left the turtle that the Turtle Prince had promised. (EXIT STAGE LEFT)

INA: This must be the turtle the Prince was talking about. (BURIES TURTLE--EXIT INTO HUT)

NARRATOR: Time passes quickly in Tamarua and Ina has visited the burial spot for many days now. One morning, she visited the burial spot like always and a small plant was found growing there. (INA FINDS PLANT) It was the beginning of a coconut tree. One of the most USEFUL plants ever found! Even to this day, the coconut is with us. From the leaves we can make baskets, mats, fans and even roofs with the coconut palm leaves. (MAI AND INA SHOW THESE OBJECTS TO THE STUDENTS). If you crack open a coconut (SHOW) you will find liquid inside that looks just like the turtle's tears. And, doesn't the hard shell of the coconut fruit remind you of the hard shell that the turtle has? (RESPONSES) This is one legend that perhaps explains how the coconut palm came into the world. Remember, sea turtles are now protected by Hawaiian laws so hopefully no one will hurt them. Also, remember this is only a legend--what is a legend? (RESPONSES) Will you help protect sea turtles from extinction? (HOPEFULLY STUDENTS WILL RESPOND FAVORABLY!) Thank you for visiting us at Sea Life Park. We hope that you have enjoyed our play. The cast of characters is played by Sea Life Park's Education Dept Volunteers. (INTRODUCE EACH PLUS THE CREW). Let's give our cast a round of applause! Your next major show is at 10:00 at the Ocean Science Theater...Come Again!

SEA LIFE PARK



March 20, 1979

George Balazs
Hawaii Institute of Marine Biology
Coconut Island
P.O. Box 1346
Kaneohe, Hawaii 96744

Dear George,

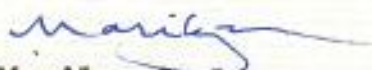
Enclosed is a brief outline of the content I would like to be covered for The Turtle Lecture.

We have recently obtained a green sea turtle head--of which you have the other parts, I understand! Anything special to know in removing fresh frozen turtle head meat and inners? Or should I use the basic recipe of boiling and some Biz?

If you have any comments and/or suggestions concerning the lecture outline, let me know. One of my very capable student volunteers is working on developing hand-out materials for the volunteer docents.

Will keep you informed!

Aloha,
SEA LIFE, INCORPORATED


Marilyn C. Lee
Education Coordinator

Enclosure
ML/mh

SEA LIFE PARK

TURTLES: Lecture date: April 5.

- I. Habitat
 - A. Geography
 - B. How Obtained
 - C. Environment

- II. Physical Appearances
 - A. Green
 - B. Hawksbill
 - C. Loggerhead
 - D. Galapagos

- III. Diet *SLP*
 - A. Variety
 - B. Amount
 - C. Time
 - D. Digestion
 - E. Vitamins- Why?

- IV. Reproduction and Offspring
 - A. Mating
 - B. Period of gestation
 - C. Birth
 - a. How
 - b. Where

- V. Relationships
 - A. To man
 - B. To other enemies

- VI. Ecology

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INFORMATION SUMMARY ON THE VANCOUVER AQUARIUM GREEN TURTLES

George H. Balazs
Southwest Fisheries Center Honolulu Laboratory
National Marine Fisheries Service, NOAA
Honolulu, Hawaii 96822-2396

Two green turtle, Chelonia mydas, were returned to Hawaii on March 20, 1986 from the Vancouver Aquarium. The turtles had originally been shipped to Vancouver in 1956 by Spencer Tinker, former Director of the Waikiki Aquarium. They were estimated to measure 45-50 cm in straight carapace length at that time. Transport of the turtles both to and from Vancouver was made courtesy of Canadian Pacific Airlines.

The turtles arrived in Hawaii in excellent condition and have been permanently housed at Sea Life Park on Oahu. Numerous color photos were taken of them on March 25th and April 9th. They were double-tagged on April 9th shortly before being moved into the Park's "Turtle Lagoon." Data are as follows:

Tag No.	Straight carapace		Curved carapace	
	Length	Width	Length	Width
NNW 780	78.6	58.3	82.5	69.0
NNW 781				
NNW 782	70.2	56.1	74.0	64.5
NNW 783				

While in Vancouver the turtles were held in an inside display tank with fluorescent lighting. Seawater temperature averaged about 25°C. Feeding occurred twice a week to satiation on a diet of frozen chopped fish.

The dorsal surfaces of the turtles are black, except for cream-colored seams between the scales on the head and flippers. The ventral surfaces are cream-colored or whitish. Upon arrival in Hawaii the turtles were completely free of algae and other fouling growth. However, by April 9th, some algal growth was present on the carapace and dorsal skin surfaces.

The larger turtle is clearly an adult male. Its tail is very thick at the base and measures at least 40 cm in length. The smaller turtle's tail measures only 29 cm and has a considerably smaller diameter to the base. This turtle is either an immature male, or an inter-sex individual. Upon being placed in the Turtle Lagoon, several of the existing male green turtles vigorously mounted this turtle to copulate.

About Kilo i'a

Issue No. 27

March 1983

Editor:

Leighton Taylor

Circulation:

Patricia Raines

Printing:

Tongg Publishing

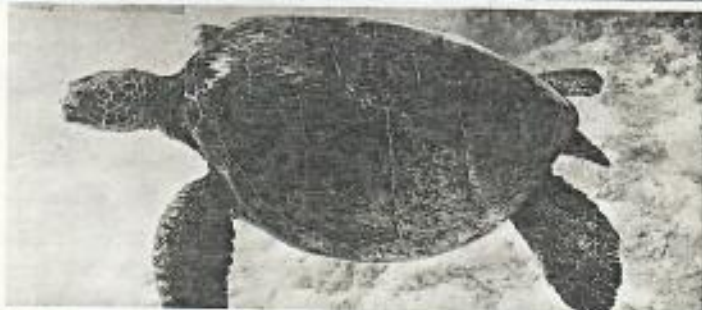
Kilo i'a is published bi-monthly by the Friends of the Waikiki Aquarium and is dedicated to increasing the community's knowledge of the Waikiki Aquarium and Hawaii's marine life.



WAIKIKI AQUARIUM

Kilo i'a

LOOKING AT THE SEA



Hawaiian Turtles in Canada

Throughout the years, sea turtles have been a popular attraction at the Aquarium. Visitors can currently see three species of them while learning about their unique ecology and threats to survival. The 11 inch olive ridley in gallery 1 offers a special treat since this species is seldom seen at such a young age. This particular one was found washed ashore on Mokolai, tangled-up in plastic line. He was sent to the Aquarium 15 months ago, has since been restored to health and is now growing. Sharing the outdoor seal pool is an active adolescent hawksbill, with its longer beak and spiny-edged shell, and a larger male loggerhead who sleeps quietly on the bottom most of the time.

The number of turtles at the Aquarium has waxed and waned over its 79 year history. Green turtles or Honu, the most common of Hawaiian sea turtles, were once heavily exploited for food but are now legally protected. In the past, when a surplus existed from too many donations, turtles were tagged for research and returned to the sea. Some of the green turtles released in this manner were later found happily breeding at French Frigate Shoals, 500 miles up the Hawaiian chain. In 1953, three surplus green turtles left the Aquarium under somewhat novel circumstances

—aboard Canadian Pacific Airlines. This interesting and nearly forgotten story was pieced together from an old newspaper article and recent correspondence with the Vancouver Aquarium where two of the turtles are still living 27 years later. These "high-flying" turtles were sent up to Canada by former Waikiki Aquarium Director, Spencer Tinker to help celebrate the grand opening of the Vancouver Aquarium. Sea turtles don't normally occur off Vancouver, so the gift has provided millions of Canadians the unique opportunity of seeing these amazing reptiles.

It's just possible that these immigrant turtles have set a record for the length of time a green turtle has been kept in captivity. No one really knows just how long they can live, so records like this are helpful. The growth rates are also of interest. During the 27 years, the two turtles, one male and one too small to determine its sex, grew from a shell length of about 19 inches to sizes of 32½ and 28½ inches.

If you are ever in Vancouver, please stop by and say Aloha to our old friends!

UH marine biologist George Balazs has been studying Hawaiian sea turtles for the past 11 years and is an active supporter of the Aquarium.

A PROPOSAL TO UNDERTAKE THE BREEDING
OF HAWKSBILL TURTLES IN CAPTIVITY AT SEA LIFE PARK

by

George H. Balazs
National Marine Fisheries Service
and
Hawaii Institute of Marine Biology

March 1981

Background

Three hawksbill turtles (Eretmochelys imbricata, an Endangered Species) are in captivity for commercial display purposes at Sea Life Park on the island of Oahu. The largest of these animals is a female of Hawaiian origin measuring 86 cm in carapace length that has been at the facility since the 1960s. The second largest is a 79-cm female that is the sole survivor of four hawksbill transferred to Sea Life Park by the author during 1974. These four turtles were originally obtained as hatchlings from Western Samoa in March of 1972. The third and smallest hawksbill (73 cm) is a male that was found as a hatchling at Malakahana Bay on Oahu in January of 1975.

The two female hawksbills are presently being held in Sea Life Park's "turtle lagoon" along with 19 green (Chelonia mydas) and two loggerhead (Caretta caretta) turtles. The male hawksbill resides in the Park's reef tank display along with a single 75-cm green turtle. During recent months the male has been repeatedly observed attempting to mate with the green turtle. It is not known if actual copulation has taken place, but such an occurrence is a distinct possibility. The male's tail has exhibited significant lengthening and enlargement, however, the size and characteristics of a fully mature adult have not yet been obtained.

The approximate ages of the three hawksbills are as follows:

86-cm Hawaiian female	>20 years
79-cm Western Samoan female	9 years
73-cm Hawaiian male	6 years

Experimental Procedure

An appropriate time has been reached to undertake a small breeding project with the hawksbills at Sea Life Park. As a first step, each female should be brought together with the male during separate time periods. Considering the smaller and therefore presumably more compatible size, the female from Western Samoa appears to offer the best possibility for copulation taking place. Each female could be alternately introduced into the reef tank display where the male is now located.

Another option would be to transfer the male-female pair to one of the holding tanks situated outside of the Park's display area. It would not be advisable to move the male to the turtle lagoon display due to the presence of relatively large numbers of turtles of different species.

The artificial sand beach associated with the turtle lagoon has been successfully used for nesting and hatchling production by green turtles in both 1976 and 1980. Hawksbills in the wild are generally less discriminating than green turtles in their nesting site requirements. It is therefore reasonable to expect the captive hawksbills at Sea Life Park to use the artificial beach should they become gravid.

The green turtle that has been the focus of the male hawksbill's attention and possible fertilization should eventually be transferred from the reef tank to the turtle lagoon so that access exists to a nesting beach. Although rare, specimens thought to be hybrids of the hawksbill and green turtle have been reported from other areas of the world.

Outcome

The breeding and successful production of hawksbill hatchlings in captivity at Sea Life Park would constitute the first case for this species known to the author. Few facilities that display sea turtles are equipped with a sand beach, consequently, the opportunities for captive breeding are currently very limited. Further achievements in this field by Sea Life Park will promote sea turtle conservation and serve as a model for other marine display facilities.

HISTORY OF SEA TURTLES AT SEA LIFE PARK - MORTALITIES -

Hawksbills

- ① POMAIIKAI - Adult male
(hatchling Jan 75
Makohana) Abscess on
neck - bitten by other turtles
- ② LARGEST FEMALE - DROPPED
WHILE LIFTING FROM TANK -
FULL OF DEVELOPING EGGS
- ③ Juvenile from Puleloa - Molokai
Raised by him in bucket - drowned
when stuck in SLP drain.
- ④ I, via HUMB, from W. Samoa.
MASSIVE internal body fat found
upon necropsy.

GREENS

- ① Very largest of original stock -
All flippers bitten bad, especially
hind flippers. Released into
the wild.

LOGGERTHEAD

- ① LARGEST FEMALE being held for Waikiki Aquarium. Bad abscess in pelvic region - Died - Necropsy by Dr. McKay.