

Also included in the request was the

A. history of PVS & Hokulo'a

B. Progress Reports by

1. Cense Comm
2. Leon Stirling - V. Supervision
3. Nainoa Thompson - Navigator

C. Workshops

Mar

POLYNESIAN VOYAGING SOCIETY

BOX 6037 / HONOLULU / HAWAII 96818 / (808) 841-3966

*File
Alu Like*

September 15, 1978

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FRANCIS KAINOA LEE
GORDON PIHANA

TO: ALU LIKE Native Hawaiian Programs

FROM: BOARD OF DIRECTORS
POLYNESIAN VOYAGING SOCIETY

SUBJECT: EXTENSION OF POSITION REQUESTS AND APPROVED BUDGET ALLOCATION

Mahalo nui loa for providing our POLYNESIAN VOYAGING SOCIETY with the positions we requested. We are requesting that these positions be extended in your next fiscal budget commencing October 1, 1978. These positions are very much needed to keep our Society effective and efficient in meeting our aims and objectives in serving the community in research, education, and experimental Polynesian canoe voyaging.

Our canoe, HOKULE'A, is still not completely refurbished. There is still work that needs to be done on her so that she will be completed and safe to sail again. The society will be using her on inter-island voyages as a "floating classroom", where we will be training individuals on the techniques and skills of canoe voyaging. She will also be used on exhibits, so that individuals may go on her as a multi-sensory learning experience to supplement lectures of her. We hope to have her go on a long voyage again so that we may do more research on long voyages.

At present, our office has had an influx of requests for lecture presentations, exhibits, and workshops from different educational institutions as well as the general community. In order to serve the needs of these requests, it is mandatory that we keep our office staffed with the following positions.

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BICENTENNIAL VOYAGE OF REDISCOVERY
HOE AKU I KA WA'A

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September 15, 1978

<u>TITLE</u>	<u>ROLE AND FUNCTION</u>
Seamen	Training Function Reconsturction Maintenance Sailing Instruction Sessions
Education Coordinator	Links public and private schools into a regular scheduled annual program using curriculum and canoe visits. Coordinates implementation of all activities carried out by the Educational Committee of PVS in the furtherance of the objectives of said society, as specified in its Charter of Incorporation Acts with Education Committee as clearing center for educational information pertaining to Polynesian voyaging in general and Hokule'a in particular, as such information becomes available through activities of PVS Surveys interest, supplies needs and distributes information to schools and community groups in regard to educational programs and activities pertaining to Polynesian voyaging Coordinates the creation, production, sale, and distribution of educational materials pertaining to Polynesian voyaging Coordinates and supervises community workshops and lecture programs pertaining to Polynesian voyaging Coordinates and supervises visits by schools or community groups to Hokule'a in collaboration with Canoe Committee and arranges for appropriate lectures, explanations and handouts.

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September 15, 1978

TITLE

ROLE AND FUNCTION

Education Coordinator
(continued)

Initiates and coordinates the gathering, utilization and appropriate application of prints and audiovisual information resulting from Hokule'a's voyages

Maintains appropriate filing system for all data and records pertaining to the educational activities of PVS

Attends all Education Committee meetings, takes notes, prepares and distributes minutes to all appropriate persons.

Administrative
Secretary

Provides stability of daily operations

Receives and records all telephone calls/ messages as necessary

Makes appointments in coordination with PVS activities as determined by the President

Provides information regarding PVS activity as necessary

Takes dictation and types letters, reports, etc

Sets up, organizes, and maintains file systems as assigned

Assists with preparation of PVS program reports and special summaries; assembles information as necessary

Operates standard office machines

When available, provides committees with clerical assistance as assigned by the President

Assists the President in coordination of statewide activities

Assumes other tasks and responsibilities as determined by the President of PVS

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At present our office is in the process of developing:

- Polynesian Voyaging Society brochure
- Display posters for the Children's Book Project to be placed:
 - The Planetarium display case of Hokule'a
 - The Bishop Museum gift shop
 - The PVS office
 - Commercial outlets that will lend us shelf space
 - Workshops and exhibits
- 30 minute slide presentations for:
 - School audience
 - General audience
 - Business organizations and fund raising projects
- Large easel pad presentation visually depicting information on the PVS and its activities and accomplishments, past, present, and future.
- Photo collage on display on the PVS Ohana
- Colating newspaper articles in a bound binder on the activities of Hokule'a that can be used as a resource for anyone interested in researching the voyages of Hokule'a.
- Updating presentation materials already on hand and developing new materials. Maps and charts on currents, wind, stars, foods and other related subjects on voyaging. These will be developed on cardboard backing with acetate overlays.
- Updating Speaker's Bureau with a calendar of events and speakers
- Building a working model to scale of Hokule'a with 3 feet hulls that can be used at lecture presentations at the schools
- Continually developing a centralized resource filing system (color coded) that can be used and utilized by everyone as a nucleus where all unified and comprehensive data on voyaging can be located.
- Assisting with newsletter

The Canoe Committee will be scheduling inter-island voyages as soon as Hokule'a is ready to sail scheduling and events will be coordinated through the staff. Hokule'a will be used as a floating classroom. These activities will be under the direction of the Education Committee and Canoe Committee.

The Education Committee is working on their resource activity book, Na Hana Huaka'i (The Voyaging Works). It is still in the process of being reedited. The administrative secretary, and the education coordinator will be doing the retyping of all the edited materials. Kamehameha Schools will be publishing the book, and the PVS, with Cecilia Kapua Lindo as editor hopes to ha Na Hana Huaka'i on the market as soon as possible.

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ALU LIKE
September 15, 1978

Mahalo once again for supporting us with a staff these past months. We ask for your serious consideration in our request to keep our staff on board for another fiscal year.

Aloha pumehana,

Michael A. Tongg

Michael A. Tongg
President
POLYNESIAN VOYAGING SOCIETY

encl.

mar/MAT

Due to the influx of school and community requests for speakers on Polynesian voyaging, our office has developed a basic presentation which we modify according to the audience attending and the amount of time available. Our presentation is geared to the groups we are addressing, and each group requires a different presentation. Our four main target groups are:

- (1) the schools
- (2) the general community
- (3) the professional associations
- (4) the media

We are trying to extend and develop our Speaker's Bureau. In the past the Speaker's Bureau relied solely on volunteers who were members of the crew on Hokule'a's voyages. Because most of them have professional careers that absorb a great amount of their time, it has been difficult to depend on their availability whenever a request for a speaker comes in.

At present our office staff is being utilized in all of the presentations. The following is an outline for a general presentation. As we continue to service the community, we will continue to develop and refine our materials, as each presentation serves a new avenue of growth as we learn from our experiences.

GENERAL PRESENTATION

SPEAKERS: Willene Wailani Bell
Education Coordinator

Leon Paoa Sterling
Vessel Supervisor

Marlene Among
Administrative Assistant

- I. Introduction and History by Education Coordinator
 - A. Birth of Hokule'a
 - B. Voyages
 - C. Rebirth of Cultural Pride and Commitment as a Result of Hokule'a
- II. Goals and Objectives of Polynesian Voyaging Society by Education Coordinator
 - A. Voyaging
 - B. Research
 - C. Education
 - D. Aesthetics

- III. Presentation of Film and Slides by Education Coordinator
- IV. Canoe Construction, Sailing and Navigation Skills, Riggings and Lashings by Vessel Supervisor
- V. Food Preparation & Plants for Sea Voyaging; Coconut Basket Weaving and Sennit Making by Administrative Assistant
- VI. Question and Answer Period by Education Coordinator
Vessel Supervisor
Administrative Assistant

* The seamen accompany the speakers and help with visual aids and demonstrations.

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FRANCIS KAINOA LEE

GORDON PIANAIA

IMMEDIATE, SHORT RANGE AND LONG RANGE OBJECTIVES

The long range objectives would be extended Polynesian voyages, which is, in fact, the main purpose for which the Society was established. Research and educational material could be obtained from each voyage.

Short range and immediate range objectives could be established with inter-island sails, workshops and seminars.

It should also be noted that the objectives of the Education Committee could fit in well with this type of practical implementation plan. For instance, workshops and seminars could be placed in between voyages.

Lastly, the asthetic goals such as culture background, spirit, and friendship could be blended into immediate, short, and long range accomplishments.

Further objectives:

- Increase cultural pride, respect, and interest in the Polynesian heritage
- Demonstrate respect and gratitude for all persons by promoting goodwill in thoughts and actions
- Acquire, document, and provide information relating to Hokulea's voyage to Tahiti and back through the

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BICENTENNIAL VOYAGE OF REDISCOVERY
HOE AKU I KA WA'A

Page Two
OBJECTIVES

development of photos, slides, songs, tapes, books, graphs, maps, films, reports and other educational media.

- Define, extract, and classify data of studies made on the trip to Tahiti and back, and list from these findings the advantages and problems encountered on the voyage.
- Formulate and execute plans to provide more accurate information and opportunities in Polynesian voyaging and settlement (Pre 1778 -1978)
- Provide a dynamic learning experience through the use of Hokule'a as the principal teaching aid on Polynesian voyaging.
- Conduct regular workshops on Polynesian voyaging (canoe building, food preparation, maritime possibilities etc.)
- Develop the finest educational center on Polynesian voyaging for all who are interested.

POLYNESIAN VOYAGING SOCIETY

BOX 6037 / HONOLULU / HAWAII 96818 / (808) 841-3966

September 28, 1978

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JOHN KRUSE

FRANCIS KAINOA LEE

GORDON PIANAIA

TO: MICHAEL A. TONGG
FROM: NAINOA THOMPSON
SUBJECT: NAVIGATION REPORT
September 1-15, 1978

- Class sessions with Will Kyselka at the Planetarium
- Refining and studying with previous data
- Observing and recording of data in night and day skies
- Reading of various texts

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September 6, 1978

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JOHN KRUSE

FRANCIS KAINOA LEE

GORDON PIANAIA

TO: Michael A. Tongg
FROM: Nainoa Thompson
SUBJECT: Navigation Progress Report
August 15th - September 1st, 1978

1. Planetarium sessions with Will Kyselka
a. More investigation of ideas
2. Observation of Heavens
a. Sun's path of movement
b. Star and Moon
3. Studying

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JOHN KRUSE

FRANCIS KAINOA LEE

GORDON PIANAIA

August 24, 1978

TO: MICHAEL A. TONGG, PRESIDENT

FROM: NAINOA THOMPSON

SUBJECT: PROGRESS REPORT-NAVIGATION
August 1 - August 15, 1978

Academics:

Completed Kealaikeahiki article with
Will Kyselka and Ray Lanterman

Continued sessions at the planetarium
with Will Kyselka

Refinement of ideas within notebook

Field Work:

Day and nite observations of the heavens

* Continued work on equipment needed for navigational
aids.

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BICENTENNIAL VOYAGE OF REDISCOVERY
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August 15, 1978

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JOHN KRUSE

FRANCIS KAINOA LEE

GORDON PIIANAIA

TO: Michael A. Tongg, President
FROM: Nainoa Thompson
SUBJECT: Navigation Progress Report
July 17-August 1, 1978

- A. Developing a plan to organize my studies
- B. Continued sessions at planetarium with Will Kyselka dealing with star paths. Sessions lasting two to three hours
- C. Observations of heavens (on land) dealing with sessions at Planetarium
- D. Working on reports:
 1. "Star Navigation"
 2. Kealaikahiki
- E. Worked on equipment needed for future navigation study

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July 17, 1978

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JOHN KRUSE

FRANCIS KAINOA LEE

GORDON PEIANAIA

TO: MICHAEL TONGG, PRESIDENT, PVS
FROM: NAINOA THOMPSON - NAVIGATOR
SUBJECT: PROGRESS REPORT
July 1 through July 15, 1978

A. ORGANIZING A PLAN

A way of going about in an organized manner with the time available to learn about non-instrument navigation in specific terms of a round trip voyage between Hawaii and Tahiti, with the available resources.

B. PLANETARIUM SESSIONS

Meeting with Will Kyselka ten to twelve hours weekly at the planetarium. Discussing, re-searching and refining ideas, about the possible ways of non-instrument navigation.

Also needed was transcribing and documenting the research done at planetarium.

C. OBSERVATIONS OF THE HEAVENS

Day time observations - watching the sun's path at different time intervals.

Night time observations - Watching the stars, moon and planets in terms of their relationship with the research being done in the non-instrument navigation.

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Page Two
PROGRESS REPORT
NAINOA THOMPSON - NAVIGATOR

D. PREPARING EQUIPMENT FOR AIDING IN OBSERVING THE HEAVENS

1. A camper truck
2. A sea ray (24 feet) and also radio installation
3. Plans for possible double hull canoe

E. READING OF RELATED TEXTS IN NON-INSTRUMENT NAVIGATION

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JOHN KRUSE

FRANCIS KAINOA LEE

GORDON PIIANAIA

September 20, 1978

TO: MICHAEL A. TONGG

FROM: LEON STERLING, Vessel Supervisor, HOKULE'A

SUBJECT: PROGRESS REPORT
September 1 - September 30, 1978

- Extensive courses in modern navigation
 - a. Two hours, once a week given by Steve Somsen at Kamehameha School
 - b. Three hours every working day
- Constructed hale on Hokule'a
- Preparing and near completion a five-part braid of coconut sennit chafing gear for the sails of Hokule'a. When completed it will be 500 feet long
- Classes in food preparation
- Completed a 48 hour course in survival
 - a. Swam to an island and survived
 - b. Swimming techniques
 - 1. Drownproffing
 - 2. Fishing
 - 3. Different cooking techniques
 - 4. Learned techniques for protecting oneself against the elements
- Reading currents, winds and seas

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ANNUAL VOYAGE OF REDISCOVERY
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Page Two
Progress Report - Leon Sterling
September 30, 1978

- Canoe Handling
 - 1. Had the use of Gordon Piianai'a's canoe and went through basic seamanship
- Scrubbed hulls and cleaned Hokule'a
- Fabrication of more teardrops
 - 1. Will do away with donuts and use teardrops.
-

POLYNESIA VOYAGING SOCIETY

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August 3, 1978

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ED KEALANAHELE, REVEREND

JOHN KRUSE

FRANCIS KAINOA LEE

GORDON PIANAIA

TO: BOARD AND COMMITTEE MEMBERS
FROM: LEON PAOA STERLING
SUBJECT: HOKULE'A TRAINING PROGRAM REPORT
July 15 to July 31, 1978

Location: Kamehameha School
Canoe Workshop

1. In process of refinishing spars and paddles. Sand and varnish - steering paddles and rails completed. Now working on fixed masts and gaffs.
2. Cut new cleats, donuts, and tear drops. They need to be shaped, sanded and varnished.
3. Lauhala sail has been laid out and a line has been taken from it to make a new boom for the la hope sail.
4. Classes have already started and conducted by myself. Subjects: Different canoe designs and sail designs, wave patterns, wind, currents, lines, usage on canoe. Total of twelve hours. Boys doing well.
5. During the past storm, I babysat the canoe and added more mooring lines to ensure she would not breakaway. Had the surge gotten really bad I would have moved her out. Fortunately, everything went well.

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July 17, 1978

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ED KEALANAHELE,
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JOHN KRUSE

FRANCIS KAINOA LEE

GORDON PI'IANA'IA

TO: POLYNESIAN VOYAGING SOCIETY

FROM: LEON PAOA STERLING-VESSEL SUPERVISOR

SUBJECT: HOKULE'A TRAINING PROGRAM

Finalization's are being made with several key people
to start the programs which are listed below:

A. CANOE

By: Leon Sterling
Now in Progress

1. Function
2. Design
3. Various parts of the canoe
4. Maintenance
5. Wood work
6. Raw materials

B. RIGGING

By: Leon Sterling

1. Shroud lines
2. Halyard lines
3. Sheet lines
4. Stays
5. Triesting lines
5. Anchor
7. Docking lines
8. Knots
9. Splicing
10. Wipping
11. Lashing

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HOE AKU I KA WA'A

- C. SAILS By: Leon Sterling
1. Points of Sail
 2. Points of trim
 3. Sail repair
 4. Maintenance of sails
 5. Lashing of sails to booms and gaff
- D. TACKING By: Leon Sterling
1. Procedure/coming about
 2. Use of center sweep
 3. Trimming/placement of booms
- E. HELMSMANSHIP By: Leon Sterling
1. Port and Starboard paddles
 2. Center sweep
 3. All aspects depending on weather conditions , steering and safety rules. Comprehension to all elements.
- F. WATCH DUTIES By: Leon Sterling
1. Overall procedures
- G. ANCHORING By: Leon Sterling
1. Methods of anchoring
- H. ENGINE By: Leon Sterling
1. Operation
 2. Maintenance
- I. RESCUE TECHNIQUES By: Linda McCleary
Sea Grant Research
1. Safety equipment and their uses
 2. Man overboard
 3. Survival gear
 4. Red Cross (McCreary)
 5. Ocean Survival
 6. Drowning Techniques (McCreary)
- J. FIRST AID By: Charman Akina, M.D.
1. Physical Fitness

Page Three
Hokule'a Training Program

K. NAVIGATION

By: Steve Somsen
Instructor University of
Hawaii-Navigation

1. Instrument
2. Plotting

L. HISTORY

By: Homer Hayes

1. Polynesians
2. Canoes

M. TERMINOLOGY

By: Leon and Homer

1. Common phrases used in boating

Kawika Kapahulehua has offered his expertise in all the phases of the Training Program. Also, please note that all the instructors are donating their time to the Training Program.

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POLYNESIAN VOYAGING SOCIETY

BOX 6037 / HONOLULU / HAWAII 96818 / (808) 841-3966

July 17, 1978

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TO: POLYNESIAN VOYAGING SOCIETY
EXECUTIVE OFFICERS-BOARD OF DIRECTORS

FROM: LEON PAOA STERLING
HOKULE'A VESSEL SUPERVISOR

SUBJECT: JULY 1 TO JULY 15, 1978
PROGRESS REPORT

On July 12, 1978, Hokule'a was launched from Keehi Drydock. Due to the time element (hour's notice from the drydock) it was virtually impossible to notify all the Board members. However, Michael Tongg, Wally Froseith, Moku Froseith, myself and Keola Jones (trainee) were on hand to give a prayer before she was lowered into the water.

At 2:10 P.M. the same day, Keola, myself and Joanne Sterling moved the canoe over to her permanent berth at Pier 12.

Reported below is the progress of Hokule'a:

HULLS

Re-sanded, prepare for a second coat of Z-Spar Mahogany brown.

Note: Due to the inexperience of trainees to achieve a mirror finish, an expert boat painter was hired from the yard to paint the final coat on the hulls.



Page Two
July 1 - July 15, 1978 Progress Report

HULLS (continued)

Anti-fouling paint has been applied to the hulls, at what is estimated to be the water line. When the canoe is fully rigged which will add more weight to her, a new water line must be painted on, either by haul out or a mud flat at low tide.

MANU'S

Three coats of Z-Spar Ivory Shell were used on the manu's. Method of painting: paint, sand, re-paint, etc.

MO'O'S

Three coats of Z-Spar Ivory Shell, on the gunwales, one coat is needed. Cap rails painted with clear varnish, six coats were applied, one only is needed.

STEERING PADDLES

Sanded, Five more coats of clear varnish will complete the process.

STANCHION POSTS

Planned to shape, sanded, re-fit and to be lashed in place. Varnish seven coats are needed.

SAFETY RAILS

Rails are located on the stanchion posts. Five more coats of varnish, still in process.

CAULKING

Mo'o's were lashed in place and caulked. Areas to be caulked: manu cross pieces, inside mo'o, lash holes.

ENGINE LOCATION AND OPERATION

Coast Guard regulations requires that the canoe be equipped with an engine to maneuver into ports. It would be impossible to control a five to seven ton vessel coming into a dock using just the sails especially in heavy air.

The mount for the Johnson 40 HP engine is of a highly sophisticated design. In order to operate the engine, one must sit on the hood of the engine operating it with body control. It leaves the operator with little or no sight of direction, obstructions, in-coming vessels or proper alignment for docking. One had to rely on a crew member on deck for directions,

Page Three.
July 1 - July 15, 1978 Progress Report

ENGINE LOCATION AND OPERATION (continued)

Due to several near collisions it was felt that a set of controls must be added to insure crew and vessel safety at all times. Now installed aft of the canoe is a single lever control to operate the throttle and gears. The steering is done through the tiller set up. Both the controls are mounted on deck, port side, and in now way interfering with any of the normal operational procedures conducted on board. Helmsman now has a clear sight and judgement of any situation that may occur.

Work will be divided between the canoe at Pier 12 and the Kamehameha Schools.

Note: Pier 12 lacks the facilities of water, electric power and parking, and NO SECURITY FOR THE CANOE.

Recommendation: To install and build onto the existing floating dock, a barricade with use of lock and key.

CONCLUSION

The Polynesian Voyaging Society should be made aware that the canoe has just a few hand tools and nothing in the way of power tools. Mr. Wally Froeseith and myself have during this time been able to operate on what we both have. Power tool rentals incurred at the drydock is due to what we both lack in our stock. Mr. Alex Jakubenko took it upon himself in allowing me to use the drydock workshop to conduct all of the canoe's reconstruction on the woodwork. It is one of Amfac's policies that the workshop is for employee's only.

I wish to express that without the use of Kamehameha School's canoe workshop the Society would be without the proper working tools. It is gratifying to know that the canoe, HOKULE'A will continue to bring about the beliefs of her existence.

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Hokule'a Navigation Class

Course Outline

- 6 SEP 78 Introduction
WEDS Definition of Coastal Piloting
Definition of Celestial Navigation
Basic Navigational Terms
- 13 SEP 78 The Chart
WEDS Using the Chart with the Navigators Instruments
Various Exercises
The Magnetic Compass; methods of use, errors, and adjustments
- 20 SEP 78 The Chart and Compass continued
WEDS The Coast Pilot & The Pilot Charts
The Light List & Local Notice to Mariners
Tides, Currents, & Weather
- 27 SEP 78 Coastal Piloting Review
WEDS Celestial Navigation:
Basic Overview & History
Why does it work ?
Sun, Moon, Planets, & Stars
- 4 OCT 78 Coastal Line of Position vs. Celestial Circle of Position
WEDS The Celestial Fix
Problem #1 The Sun for Noon Latitude
Problem #2 The Sun for Afternoon Line of Position (s)
Problem #3 Using #1 & #2 to determine The Celestial Fix
- 11 OCT 78 More Celestial Problems and Solutions:
WEDS Using the Sun, Moon, Planets, and Stars
- 18 OCT 78 A Day in the Life of a Navigator
WEDS What to Pack if YOU are the Navigator
How to do without certain pieces of equipment
Special Navigational Situations
Celestial Navigation Review

All classes will begin at 7:00 p.m. on Wednesday evenings.

There will be at least one short quiz held during the course.

Our meeting place will be in the classroom building next to the Canoe Shop
at the Kamehameha School.

Please call Steve Somsen at [REDACTED] at any time if you have any questions.

POLYNESIAN VOYAGING SOCIETY

BOX 6037 / HONOLULU / HAWAII 96818 / (808) 841-3966

July 17, 1978

*Office Copy
Leave in
file !!*

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TO: BOARD OF DIRECTORS
POLYNESIAN VOYAGING SOCIETY

FROM: WALLACE F. FROISETH

SUBJECT: CANOE COMMITTEE REPORT

The Hokule'a was relaunched from drydock on Wednesday, July 12, 1978 at which time Leon Sterling blessed the canoe with Hawaiian salt, then taken to Pier 12 where she is presently moored.

The additional persons have been hired making a total of five seapersons and a supervisor.

The gunnels (mo'o) have been completed and tied, painted, all caulked, with the cap rail varnished and looks great.

All necessary bamboo have been replaced and the deck planks oiled.

Both #4 hatches have had u-bolts, cables and locks installed for on-board security of equipment.

Outboard motor controls have been installed for ease of operation and a large approved gas tank purchased for use aboard.

At present all equipment is being sanded and refinished such as, masts, spars, booms, outboard iako planks, steering sweeps, etc. This being done at Kanehameha Schools shop area.

Training classes for men have been set up and scheduled.

HAWAII



TAHITI

BICENTENNIAL VOYAGE OF REDISCOVERY
HOE AKU I KA WA'A

Page Two
CANOE COMMITTEE REPORT
WALLACE FROISETH

There is an outstanding bill of about \$200.00 in the open account still maintained at Keehi Drydock for the purpose of miscellaneous small items needed such as sand paper, varnish, etc.

It is hoped that funds from the State will be forthcoming soon that will enable us to buy the necessary rope and sails to complete the Hokule'a refitting.

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To: Polynesian Voyaging Society
From: Canoe Committee; Mr. Wallace Froiseth, Chairman
Subject: Progress Report, Hokule'a

A. Work Completed

1. Raised all 14 hatches to 11" high off deck
Finished complete with beading at corner joints and painting.
2. New covers for hatches completed and installed and all hatch covers have double rubber seals installed.
3. Patched all glass worn spots and holes on manu's, filled spots and sanded and ready to paint.
4. Entire hulls patched and sanded ready to paint. (Probably Monday 6/5/78)
5. Fabricated and glued on raised gunnel ends of Starboard hull
(Port hull to be glued on Friday 6/2/78)
6. Milled gunnel top rails ready to install when gunnels have been calked and tied on. (Probably will be done when afloat because we have to vacate the Drydock next week.)
7. All new gunnels made and painted ready to calk and tie onto hulls once raised ends are glued on.
8. Worm shoe repaired, patched, glassed, calked as needed and treated for worms - ready for hull paint.
9. Set up one 30 G P M pump in each end compartment of hulls, so they can be worked without opening hatch covers.
(Two spares also purchased as per Coast Guard Recommendation.)
10. Scupper holes in compartments #6 & #7 of both hulls have been increased in size from 2" to 2½" in diameter and a third 2½" hole added on the inboard sides only of both these compartments.
11. Picked up motor mount and cleaned up ready for use with motor when afloat.

Canoe Committee Progress ... Continued:

B. Immediate Work to be Accomplished:

1. Recalk port bow manu ----- Friday
 2. Glue on port hull raised gunnel ends ----- Friday
 3. Paint both hulls ----- Monday
 4. Calk and tie on gunnels to hulls ----- Hopefully before we
come off drydock next week.
 5. Put on gunnel rails
 6. Replace hau rail posts.
 7. Seal end compartments. (Major job)
 8. Buy and install bungee (shock cord on hatch covers.)
- C. Cost of materials and equipment to date about \$2700.00
- D. It is expected that the Hokule'a will proably come off
Drydock this coming first week of June 1978.

Respectfully submitted,

Wallace F. Froiseth
Canoe Committee Chairman
6/1/78

To: Polynesian Voyaging Society

From: Canoe Committee, Mr. Wallace Frosieth, Chairman

Subject: Progress Report, Hokule'a

On March 27, 1978, a crew of ten people, supervised by Mr. Wallace Frosieth, went into Waihole Valley. Hau logs were cutted, transported to Pier #12, stripped and soaked along side of the pier for a period of 3 weeks.

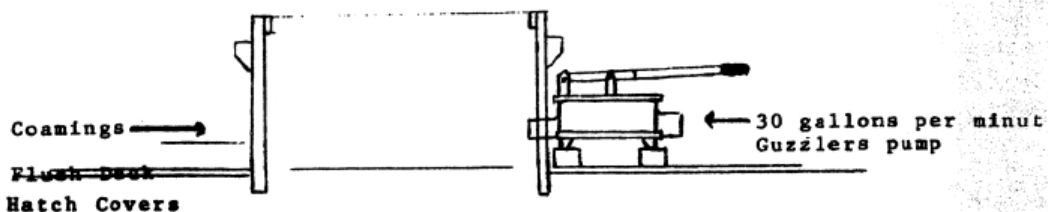
Since the lost of the canoe's sails, Mr. Leon A.P. Sterling, contacted Mr. Ben Finney, for drawings of the canoe. Specifications were taken and submitted to Mr. Sonny Nelson, sailmaker. The sails are now being made up. A deposit of \$250.000 was paid to Mr. Nelson.

The canoe canvas, that covered the both hulls, were taken back to "Manu Lewa", sails for repairs. A deposit was also made to Mr. Bob Ewing. A total of \$250.00.

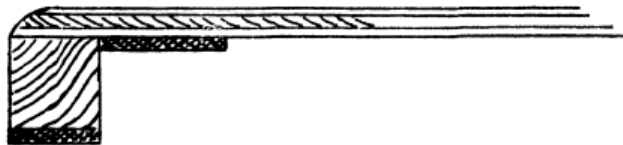
Modifications:

Coamings

Original design of the coamings were $1\frac{1}{2}$ " off the existing hull decks. They have now been raised to $10\frac{3}{8}$ ".



Rubbber gaskets size $1\frac{3}{4}$ and $1\frac{1}{2}$ " were installed to the hatch covers.



Water pumps "Guzzlers" 600H, were installed to compartments 1's and 7's. Capacity of these pumps are 30 gals per minutes.

List of work details performed, by myself, Mr. Leon A.P. Sterling, and his wife Jo-Anne. Both Mr. Michael McGuire, and Mr. Chad Baybayan, donated their services one week-end. Mr. Clifford Kapon, has dropped by periodically to work on the canoe.

1. Both hulls have been sanded, patched and ready for painting.
2. Starboard and Port bows, patched/fiberglass
3. Stanchion posts (hau) ready for replacement to original positions
4. Starboard and Port manu's, sanded, fiberglass/ready for painting
5. Removed damaged bamboo from the Pola (platform)
Permit from the State Forestry, bamboo was cutted from the Kahili Valley area, and now stored at Kamehameha School.
6. Fourteen (14) coamings have been modified, and installed.
7. Fourteen (14) hatch covers have all been installed with rubber gaskets. Double security.
8. Fabricated by Leon: 2 Tool boxes, measuring 4'x1'
2 Storage boxes for safety supplies, measuring 18"x12"
9. Now in the process of installing the gunwales (Mo'o).
Materials: Clear fir and Mahogany

Submitted to the board, is a cost invoice of materials and millwork that Hokule'a has incurred up to this date.

Additional work to be done:

1. Fabricate the Hale (house)
2. Fabricate the galley
3. Construct the "Ihu" boom
4. New cleats and doughnuts
5. Standing and running rigging
6. Sand masts and gaffs, repair any damages
7. Replace all safety gear
8. Replace all caulking on the canoe
9. Water test all modifications (newly constructed)

Repair work at Keéhi Drydock, is estimated from two to three weeks, before the Hokule'a is ready to go into the water.

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IMMEDIATE, SHORT RANGE AND LONG RANGE OBJECTIVES

The long range objectives would be extended Polynesian voyages, which is, in fact, the main purpose for which the Society was established. Research and educational material could be obtained from each voyage.

Short range and immediate range objectives could be established with inter-island sails, workshops and seminars.

It should also be noted that the objectives of the Education Committee could fit in well with this type of practical implementation plan. For instance, workshops and seminars could be placed in between voyages.

Lastly, the asthetic goals such as culture background, spirit, and friendship could be blended into immediate, short, and long range accomplishments.

Further objectives:

- Increase cultural pride, respect, and interest in the Polynesian heritage
- Demonstrate respect and gratitude for all persons by promoting goodwill in thoughts and actions
- Acquire, document, and provide information relating to Hokulea's voyage to Tahiti and back through the



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Page Two
OBJECTIVES

development of photos, slides, songs, tapes, books, graphs, maps, films, reports and other educational media.

- Define, extract, and classify data of studies made on the trip to Tahiti and back, and list from these findings the advantages and problems encountered on the voyage.
- Formulate and execute plans to provide more accurate information and opportunities in Polynesian voyaging and settlement (Pre 1778 -1978)
- Provide a dynamic learning experience through the use of Hokule'a as the principal teaching aid on Polynesian voyaging.
- Conduct regular workshops on Polynesian voyaging (canoe building, food preparation, maritime possibilities etc.)
- Develop the finest educational center on Polynesian voyaging for all who are interested.

POLYNESIAN VOYAGING SOCIETY

BOX 6037 / HONOLULU / HAWAII 96818 / (808) 841-3966

September 15, 1978

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GORDON PIANAIA

TO: ALU LIKE Native Hawaiian Programs
FROM: Board of Directors
Polynesian Voyaging Society
SUBJECT: Extension of Position Requests and Approved Budget Allocation

Mahalo nui loa for providing our Polynesian Voyaging Society with the positions we requested. We are requesting that these positions be extended in your next fiscal budget commencing October 1, 1978. These positions are very much needed to keep our Voyaging Society effective and efficient in meeting our aims and objectives in serving the community in research, education, and experiential Polynesian canoe voyaging.

Our canoe, Hokule'a, is still not completely refurbished. There is still work that needs to be done on her so that she will be completed and safe to sail again. The society will be using her on inter-island voyages as a "floating classroom", where we will be training individuals on the techniques and skills of canoe voyaging. She will also be used on exhibits, so that individuals may go on her as a multi-sensory learning experience to supplement lectures of her. We hope to have her go on a long voyage again so that we may do more research on long voyages.

At present, our office has had an influx of requests for lecture presentations, exhibits, and workshops from different educational institutions as well as the general community. In order to serve the needs of these requests, it is mandatory that we keep our office staffed with the following positions.

HAWAII



TAHITI

BICENTENNIAL VOYAGE OF REDISCOVERY
HOE AKU I KA WA'A

<u>POSITIONS</u>	<u>PARTICIPANT</u>	<u>SALARY RANGE</u>	<u>WORK SITE</u>	<u>COMMENCED</u>
Vessel Supervisor	Leon Paoa Sterling	\$1,000.00/5.78	Hokule'a	March 27, 1978
Navigator	Charles Thompson	700.00/4.04	Hokule'a	June 5, 1978
Seamen:	Michael Keola Jones	640.00/3.70	Hokule'a	June 13, 1978
	Abel John	640.00/3.70	Hokule'a	June 17, 1978
	Anthony Naliielua	640.00/3.70	Hokule'a	June 17, 1978
Administrative Secretary	Marlene Among	800.00/4.62	Bishop Museum	May 8, 1978
Education Coordinator	Willene Wailani Bell	1,000.00/5.78	Bishop Museum	June 5, 1978

* All participants work a 40 hour week.

<u>TITLE</u>	<u>ROLE/FUNCTION</u>
Vessel Supervisor	<u>CANOE RECONSTRUCTION, MAINTENANCE & TRAINING</u> - Woodwork/ Fiberglass - Lashing/Rigging - Sailing - Provisions Food Equipment - Redesign as required - Quality control - Instructional materials/Sessions - Instructional courses (navigation; water safety) <u>SEAMANSHIP AND TRAINING</u> - Water safety - Canoe handling - Physical/Mental/Spiritual Preparation - Survival Preparation
Navigator	<u>RESEARCH/DATA</u> - Research/Testing - Training/Seamen crew - Consultation/Instruction - Monthly Reporting - Securing/Maintaining Pertinent Documentation
Seamen (4)	<u>TRAINING FUNCTION</u> - Reconstruction - Maintenance - Sailing - Instructional Sessions

TITLE
Administrative
Secretary

ROLE/FUNCTION

PROVIDES STABILITY OF DAILY OPERATIONS

- Receives and records all telephone calls/messages as necessary.
- Makes appointments in coordination with PVS activities as determined by the President.
- Provides information regarding PVS activity as necessary.
- Takes dictation and types letters, reports, etc.
- Sets up, organizes, and maintains file systems as assigned.
- Assists with preparation of PVS program reports and special summaries; assembles information as necessary.
- Operates standard office machines.
- When available, provides committees with clerical assistance as assigned by the President.
- Assists the President in coordination of statewide activities.
- Assumes other tasks and responsibilities as determined by the President of PVS.

Education Coordinator

LINKS PUBLIC AND PRIVATE SCHOOLS INTO A REGULAR SCHEDULED ANNUAL PROGRAM, USING CURRICULUM AND CANOE VISITS.

- Coordinates implementation of all activities carried out by the Educational Committee of PVS in the furtherance of the objectives of said society, as specified in its Charter of Incorporation.
- Acts with Education Committee as clearing center for educational information pertaining to Polynesian voyaging in general and Hokule'a in particular, as such information becomes available through activities of PVS.
- Surveys interest, supplies needs and distributes information to schools and community groups in regard to educational programs and activities pertaining to Polynesian voyaging.
- Coordinates the creation, production, sale, and distribution of educational materials pertaining to Polynesian voyaging.
- Coordinates and supervises community workshops and lecture programs pertaining to Polynesian voyaging.
- Coordinates and supervises visits by schools or community groups to Hokule'a in collaboration with Canoe Committee and arranges for appropriate lectures, explanations and hand-outs.
- Initiates and coordinates the gathering, utilization and appropriate application of print and audiovisual information resulting from Hokule'a's voyages.
- Maintains appropriate filing system for all data and records pertaining to the educational activities of PVS.
- Attends all Education Committee meetings, takes notes, prepares and distributes minutes to all appropriate persons.

At present our office is in the process of developing:

- A Polynesian Voyaging Society brochure
- Display posters for the Children's Book Project to be placed in:
 - * The Planetarium display case of Hokule'a
 - * The Bishop Museum gift shop
 - * The PVS Office
 - * Commercial outlets that will lend us shelf space
 - * Workshops and exhibits
- 30 minute slide presentations for:
 - * School audience
 - * General audience
 - * Business organizations and fund raising projects
- Large easel pad presentation visually depicting information on the PVS and its activities and accomplishments, past, present and future.
- Photo collage (already on display today) on the PVS Ohana.
- Collating newspaper articles in a bound binder on the activities of Hokule'a that can be used as a resource for anyone interested in researching the voyages of Hokule'a.
- Promotional and educational handouts that will be given out at workshops.
- Updating presentation materials already on hand and developing new materials. * Maps and charts on currents, wind, stars, foods and other related subjects on voyaging. These will be developed on cardboard backing with acetate overlays.
- Updating "Speaker's Bureau" with a calendar of events and speakers.
- Building a working model to scale of Hokule'a with 3 feet hulls that can be used at lecture presentations at the schools.
- Continually developing a centralized resource filing system (color coded), that can be used and utilized by everyone as a nucleus where all unified and comprehensive data on voyaging can be located.
- Assisting with the newsletter.

The canoe committee will be scheduling inter-island voyages as soon as Hokule'a is ready to sail. Scheduling and events will be coordinated through the staff. Hokule'a will be used as a "floating classroom". These activities will be under the direction of the Education Committee and Canoe Committee.

The Education Committee is working on their resource activity book, Na Hana Huaka'i (The Voyaging Works). It is still in the process of being reedited. The administrative secretary, and the education coordinator will be doing the retyping of all the edited materials. Kamehameha Schools will be publishing the book, and the PVS, with Cecilia Kapua Lindo as editor hopes to have NA HANA HUAKA'I on the market as soon as possible.

Mahalo once again for supporting us with a staff these past months. We ask for your serious consideration in our request to keep our staff on board for another fiscal year.

aloha punehana

Polynesian Voyaging Society
Board of Directors
Michael Tongg, President

wwb

POLYNESIAN VOYAGING SOCIETY

BOX 6037 / HONOLULU / HAWAII 96818 / (808) 841-3966

May 31, 1979

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Alu Like
P. O. Box 27384
Chinatown Station
Honolulu, Hawaii 96827

Attention: Bob Moore

Re: Request for Extension of CETA Positions and
Budget Allocations, Polynesian Voyaging Society

Dear Mr. Moore:

Pursuant to our telephone conversation of May 30, 1979 and your subsequent telephone conversation with Anthony Guerrero, please find enclosed a Resume of Mr. Guerrero relating to his background and ability in the area of administration.

Also, pursuant to your request, it is our desire or anticipation that we will hire Marlene Among at the end of this period, September 1979, provided that our fund raising drives are successful.

Also, per your request, I have enclosed a copy of the training schedule and program which Miss Among is to go through for the current months of May, June, July, August and September. This document was submitted with my previous letter of May 29, 1979. However, please note the one change which was added to this scheduling which requires that Miss Among had the additional duty of coordinating and assisting the project director for the 1980 Tahiti voyage. The purpose of these duties will provide her with additional skills and training to enhance her ability as an administrative director.

Again, thank you for your time and assistance in this matter. Should you have any questions, please feel free to call me.

Mahalo,

Enclosure

POLYNESIAN VOYAGING SOCIETY

Michael A. Tongg
MICHAEL A. TONGG
President

HAWAII

TAHITI



BICENTENNIAL VOYAGE OF REDISCOVERY
HOE AKU I KA WA'A

DO

ILLEGIBLE

TRAINING PROGRAM
ADMINISTRATIVE ASSISTANT

	MARCH APRIL MAY	JUNE JULY AUGUST	SEPT OCT NOV	DEC JAN FEB
Responsible for supervising (program planning, imple- mentation and evaluation	Familiarization Learning program Program development	Minimal evaluation basic proposal	Modification in management structure	Review Evaluate
Responsible for supervising and coordinating staff and volunteers including inter- viewing, hiring recommenda- tions, training, etc.	Familiarization Interrelationship Seminars; workshops	Determining work efficiency	Management analysis; review changes if any	Follow thru
Preparation of reports, including conclusions, recommendations regarding budgeting, education, operating procedures, office services and work flows	Collection of data; review systems and proceedures Evaluate work load	Minimal evaluation; Report systems modifi- cation Maintenance	Changes, modifica- tions, update,	Review Refine
(Public Relations, cultural approaches	Meeting the people	Getting the job	Measure of results	Evaluate
Assume other tasks and respon- sibilities as determined by by the Board of Directors				

POLYNESIAN VOYAGING SOCIETY

BOX 6037 / HONOLULU / HAWAII 96818 / (808) 841-3966

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MICHAEL A. TONGG

VICE PRESIDENT

JO ANNE STERLING

TREASURER

ANTHONY GUERRERO, JR.

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REVEREND

JOHN KRUSE

FRANCIS KAINOA LEE

GORDON PIANAIA

SUBMITTED TO:

Alu Like
P.O. Box 27384
Chinatown Station
Honolulu, Hawaii 96827

PROPOSAL TITLE:

Request for Extension of
CETA Positions and Budget
Allocation:
POLYNESIAN VOYAGING SOCIETY

APPLICANT:

Polynesian Voyaging Society
P.O. Box 6037
Bishop Museum
Honolulu, Hawaii 96818
841-3966

HAWAII



TAHITI

BICENTENNIAL VOYAGE OF REDISCOVERY
HOE AKU I KA WA'A

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I. GOAL STATEMENT:

To establish the POLYNESIAN VOYAGING SOCIETY as the central resource center on Polynesian voyaging by training the staff in Polynesian voyaging, so they in turn may train others in this area study that encompasses every aspect of Hawaiian culture.

II. BACKGROUND:

In 1778, when Captain James Cook rediscovered Hawai'i, he estimated 300,000 native Hawaiians. By 1840, the Hawaiian race dwindled down to 70,000 people.

When Cook, the missionaries, immigrants and others came to the Hawaiian Islands tremendous and tragic changes took place. The islands, isolated from the outside world, were suddenly invaded by an influx of people. Diseases were introduced, the kingdom was overthrown by foreigners, and the culture was uprooted. Such rapid transition had devastating effects which proved almost fatal to the entire Hawaiian race.

In the 1840's, the popular saying of the day was "Na kanaka o ku'u wale aku no i ka uhahe." ("The people freely gave up their souls and died.") Physical and psychological death had been the choice of many Hawaiians who could not cope with the despair that overwhelmed them.

The calamitous results of the past still plague many Hawaiians today. They have the highest incidence of poverty, high school dropouts, and unemployment of any racial group in Hawai'i. Preventive measures have to be implemented and applied. When people have inadequate education, a limited knowledge of their cultural roots, poor self esteem, and where families are disoriented, societal problems escalate. Education therefore is the key to building up self-worth, self-sufficiency, and self-direction.

Along with the social ills, the 1970's show a resurgence of interest and hope for the Hawaiian culture among Hawaiians. There is a vitality and commitment among American Hawaiians to learn about their culture, to uplift themselves and their heritage through education. A deliberate search is being made for Hawaiian identity. Regrettably, Hawaiian culture has been regarded irrelevant in the past. However, on November 7, 1978, voters of Hawai'i realized this need and voted on promoting and implementing Hawaiian studies into the school system and community. This was an amendment proposed by members of the Constitutional Convention of 1978.

A renaissance in Hawaiian culture is evidenced by the founding of the POLYNESIAN VOYAGING SOCIETY in 1973. Its purpose has been to do research work in Polynesian voyaging canoes, Polynesian navigational system, Polynesian culture and all the other arts and artifacts that made migration and settlement of the Hawaiian Islands possible by the first settlers. Multi-racial members of the Society built the Hokule'a, a double hulled canoe, in 1974, trained a crew in 1975, and sailed from Hawai'i to Tahiti and

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II. BACKGROUND: (continued)

back to Hawai'i in 1976. The three year plan became a life-size reality which received strong community support and culminated as a special Bi-centennial Project from Hawai'i.

The 60 foot, twin hulled canoe called Hokule'a was designed to answer the questions of whether the ancient Polynesians regularly navigated the 3,000 mile course between Hawai'i and Tahiti. Builders of the canoe found that centuries before Columbus, Polynesians aboard voyaging canoes explored a huge triangle of the earth's surface, with Hawai'i, Easter Island and New Zealand as its outer limits. Guided by the stars, currents, birds, winds, and ocean swells, they accomplished incredible feats of navigation and seamanship as they sailed across thousands of miles of open ocean.

Though Hokule'a was built mainly of modern materials, such as plywood and fiberglass, its lines were authentic and reconstructed from sketches by explorer Captain James Cook and other explorers.

In 1976, seventeen men who made up the crew of Hokule'a, sailed it to Tahiti. One of the key men was the navigator, Mau Piailug, from Satawal in Micronesia. Mau, a strong 44 year old, became a full fledged navigator at the age of 18, and sailed throughout the central Carolines without relying on any navigational instruments. Mau was assisted by Rodo Williams, a Tahitian and former schooner captain, and David Lewis, a Caucasian who had studied with traditional navigators in Tonga and Micronesia. None of the three used any instruments during the voyage nor did they receive any hint of their position from the escort vessel that accompanied Hokule'a on this 3,000 mile journey. Half of the crew who went on the voyage were Hawaiians. Hokule'a reached Tahiti after 34 days and was received by a jubilant crowd of 15,000 Tahitians, the largest crowd in the memory of that island. Hokule'a helped to answer the question of whether the ancient Polynesians could have navigated the 3,000 miles covered between Hawai'i and Tahiti without instruments.

The impact it made on cultural awareness and appreciation continues to inspire the development of many projects about Polynesian voyaging. Many educational programs and materials have been developed by the Education Committee of the POLYNESIAN VOYAGING SOCIETY because of Hokule'a's birth. Four children's books and a teacher's guide were written about Polynesian voyaging. The subject of the CHILDREN'S BOOK PROJECT was conceived by Dr. Kenneth Emory and coordinated by Nancy Mower. Dr. Emory suggested that the stories be based on the oral tradition of High Chief Mo'ikeha, and his family who migrated from Tahiti to Hawai'i. Chants, genealogy and legend tell about this seafaring family that made about 6 voyages between Hawai'i and Tahiti, in 1100 A.D.

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II. BACKGROUND: (continued)

These publications are currently used in over 160 schools in the State of Hawai'i and throughout the United States and abroad. Over 3,000 of the originally printed 5,000 books have been sold. One thousand Resource Curriculum Guides were originally printed and 1,000 more had to be reprinted because of requests for them. The State Library RUSH list approved all books and gave the Resource Curriculum Guide a "highly recommended" status.

During the school year 1977-1978, the SPEAKERS' BUREAU of the Polynesian Voyaging Society was able to reach a large number of students in Hawai'i's schools. Members of the crew spent countless hours during the year making presentations. The speakers utilized films, slides, models and other audio and visual materials. In addition, an overview of Polynesian voyaging and the Hokule'a was presented to many community groups and organizations.

The scheduling of schools and community groups was an ongoing process which resulted in an avalanche of requests for presentations. The BUREAU was unable to supply the demands of speakers. However, the number of requests indicated that Hokule'a had and will always have a lasting effect on the people of Hawai'i. The SPEAKERS' BUREAU had a successful year and the requests for presentations for 1979 have been carried out.

Target Audience Figures - 1977-78

Total Elementary Audience	6,369
Total High School (Intern) Audience	6,094
Total College/University Audience	374
Total Community/Organization Audience	3,908
Total School (K-12) Audience	12,463
Total Adult Audience	4,746
Total Audience (all ages)	17,209

Hokule'a was used as a teaching aid or "floating classroom" during the year 1977-78. CANOE VISITATION with commentary by crew members took place on Oahu, Moloka'i, Lana'i, Hawai'i, and Kaua'i. The canoe visited all of the neighboring islands by the end of summer, 1979.

Community response was outstanding and all indications showed that Hokule'a should continue to be used as a "floating classroom". During interisland trips, new crewmen were introduced to the Hokule'a. The practical experience gained was invaluable and should be continued.

The ART MOBILE of the Department of Education, contracted the POLYNESIAN VOYAGING SOCIETY to develop a special exhibition on voyaging for presentations to Oahu and other schools on the neighboring islands during 1977-78. Under the direction of Rowena Keaka

II. BACKGROUND: (continued)

and the design planning of Mikilani Ching, the ART MOBILE reflected the theme of Hokule'a and Polynesian voyaging. On Kamehameha Day, June 11, 1977, the ART MOBILE was the center of attraction following the parade. It was open for display at Kapi'olani Park and was visited by hundreds of children and adults.

In cooperation with the NATIONAL GEOGRAPHIC SOCIETY, five prints of the film "The Voyage of the Hokule'a" were given to the POLYNESIAN VOYAGING SOCIETY. Since the national television broadcast and the movie screenings in January, 1977, the films are available on a loan basis to schools and other groups on all islands.

A beautiful and sensitive "Film of Hokule'a's Launching" was produced by Tip Davis, a former director of the POLYNESIAN VOYAGING SOCIETY. Five prints of the film were given to the POLYNESIAN VOYAGING SOCIETY. The films are available on a loan basis to schools and other groups on the islands.

The Education Committee of the POLYNESIAN VOYAGING SOCIETY has committed itself to developing the data gathered by the Steering Committee and Canoe Committee and educating others, especially our children and teachers about the incredible courage, skills and achievement of the Polynesian voyagers. Members of the committee are in the process of developing a slide-tape presentation of Hokule'a's journey from Hawai'i to Tahiti and back. They will also develop taped glossaries and songs, and possibly films on Polynesian voyaging. Na Hana Hua Ka'i or The Voyaging Works is a resource and activity book now being developed by the Education Committee. The book provides charts, illustrations, maps and a comprehensive coverage of Polynesian voyaging. The concepts covered in the book are environmental education, reading, history, geography, science, language, mathematics, religion, music, arts and crafts.

The dramatic creation and epic voyage of the Hokule'a is a history of great magnitude. The impact it made on cultural awareness and appreciation continues to inspire the development of more projects about Polynesian voyaging. It can only have lasting effects with continued support and encouragement by the community.

Hokule'a can help guide Hawaiians back to their cultural roots and give them insight into the awesome courage and intelligence of their ancestors that will explode the myths and negative stereotyping about Polynesians.

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III. PROBLEM STATEMENT:

- a) There is a lack of knowledge and expertise in the public and private educational systems to facilitate the cultural and educational aspects of Polynesian voyaging and settlement.
 - b) There is only one resource center in the world, the POLYNESIAN VOYAGING SOCIETY, that can provide adequate knowledge and information in the area of Polynesian migration and settlement.
 - c) There is a lack of knowledge and appreciation about the cultural roots (Polynesian mariners) of the native Hawaiians that negates positive self-concepts and stifles the productive performance of native Hawaiian children, and adults in the present societal structures.
 - d) There is a need to train individuals to plan, manage and disseminate information and training workshops; to continue voyaging experiments, gather data, and develop materials based on this research; and to promote positive relationships between the various local, national and international, public and private agencies and groups.
 - e) There is a need to develop reproducible editions of student and teacher materials for the elementary, intermediate, and secondary levels on Polynesian voyaging.
 - f) There is a need to effect a cooperative working relationship between the Department of Education and other educational organizations as a precedent for future cooperative ventures in the development of additional programs about Hawaiian culture, namely Polynesian migration and settlement.
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IV. SPECIFIC OBJECTIVES:

- a) To train staff in planning, managing, and controlling activities of the POLYNESIAN VOYAGING SOCIETY.
- b) To train staff in collecting, sorting, analyzing, writing, producing pertinent research data.
- c) To train staff in systems management and budget control.
- d) To train staff for curriculum design, programming and evaluation.
- e) To train staff and community groups and individuals in Polynesian voyaging and settlement.
- f) To train staff to impart to educational systems positive approaches based on cultural practices (ohana, ho'oponopono, etc.)
- g) To train staff to understand the ethnic values and lifestyles of the Polynesians so they will interact in a meaningful, culturally enriching manner with persons of diverse ethnic backgrounds.
- h) To train staff to establish and maintain positive linkages with public and private groups.
- i) To train staff to use the Hokule'a as a floating classroom to train individuals on the theory of ancient and modern sailing, non-instrumental navigation, and safety at sea.
- j) To train staff on the concepts and techniques of Polynesian voyaging.

V. METHODS:

- I. The staff of the POLYNESIAN VOYAGING SOCIETY, under the guidance of their advisors (Dr. Dixon Stroup, Dr. Barbara Hunt, Dr. Kenneth Emory, Dr. Ben Finney, Will Kyselka, Homer Hayes, August Yee, and Anthony Guerrero) and supervisors (Michael A. Tongg and Cecilia Kapua Lindo) will:
 - a) Collect raw materials gathered on Hokule'a's trip to and from Tahiti
 - b) Decode and validate materials already on hand
 - c) Develop a resource bank where unified and comprehensive materials on Polynesian voyaging, culture and history can be tapped
 - d) Innovate and coordinate means and methods to assemble, compile, and screen
 - e) Keep abreast on current maritime developments by utilizing scientific data from University experiments on oceanography and related subjects
 - f) Centralize all relevant and pertinent data into POLYNESIAN VOYAGING SOCIETY office
 - g) Disseminate information through educational materials, workshops, seminars, exhibits and presentations
- II. Develop and provide a training site based on Polynesian voyaging that encompasses all areas of Hawaiian culture
 - a) In-training of Administrative Secretary to Administrative Assistant to develop her knowledge and skills so that she may administer and coordinate the activities of the resource center and the activities of the Steering, Canoe, Education, Manpower, Membership, Public Relations, and Fund-Raising committees of the POLYNESIAN VOYAGING SOCIETY, by:
 - 1. In-house administration
 - 2. Program planning, implementation, and evaluation
 - 3. Supervising and coordinating staff and volunteers, including interviewing, hiring recommendations, and training

V. METHODS: (continued)

II. Develop and provide a training site based on Polynesian voyaging that encompasses all areas of Hawaiian culture (continued)

4. Promoting the POLYNESIAN VOYAGING SOCIETY through public relations
5. Planning and carrying out the aims of the Board and committees of the POLYNESIAN VOYAGING SOCIETY
6. Managing the financial budget of the POLYNESIAN VOYAGING SOCIETY

b) On-going training of the Education Coordinator to:

1. Develop curriculum materials which will be replicable for use in public and private schools
2. Develop an educational program to provide students who are not reached by the main stream academic programs with a marine-oriented, based learning experience
3. Provide public with materials and speaking engagements to make them aware of the natural relations between ancient Hawaiian marine skills including proper management of the ocean resources and its applicability to modern day marine practices through audio-visual aids developed by the Education Committee
4. Provide materials for students and teachers with an in depth Hawaiian cultural, historical orientation to the seafaring heritage of the Polynesian people, with emphasis on ancient Hawaiian marine traditions
5. Develop materials with achievement oriented learning situations on Polynesian voyaging that will reenforce the students' self esteem, and self-confidence
6. Develop, a pool or cadre of educators, crew-perons and others who have the entry level knowledge and experience in carrying out educational objectives in Polynesian voyaging
7. Effect a cooperative working relationship between the DOE and other existing educational organizations as a precedent for future cooperative ventures in the development of additional programs, especially in Polynesian voyaging
8. Develop, coordinate and implement effective workshops specifically for students and teachers and others interested in Polynesian voyaging

V. METHODS: (continued)

II. Develop and provide a training site based on Polynesian voyaging that encompasses all areas of Hawaiian culture (continued)

b) On-going training of the Education Coordinator to:
(continued)

9. Develop and write grants for production of educational materials
10. Develop writing and speaking skills

VI. TRAINING PROGRAM

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TRAINING PROGRAM
ADMINISTRATIVE ASSISTANT

	MARCH APRIL MAY	JUNE JULY AUGUST	SEPT OCT NOV	DEC JAN FEB
Responsible for supervising program planning, implementation and evaluation	Familiarization Learning program Program development	Minimal evaluation basic proposal	Modification in management structure	Review Evaluate
Responsible for supervising and coordinating staff and volunteers including interviewing, hiring recommendations, training, etc.	Familiarization Interrelationship Seminars; workshops	Determining work efficiency	Management analysis; review changes if any	Follow thru
Preparation of reports, including conclusions, recommendations regarding budgeting, education, operating procedures, office services and work flows	Collection of data; review systems and proceedures Evaluate work load	Minimal evaluation; Report systems modifi- cation Maintenance	Changes, modifica- tions, update,	Review Refine
Public Relations, cultural approaches	Meeting the people	Getting the job	Measure of results	Evaluate
Assume other tasks and responsibilities as determined by the Board of Directors				

JOB DESCRIPTION

Position: Administrative Assistant
Responsible to: President
POLYNESIAN VOYAGING SOCIETY (PVS)

Responsibilities:

- 1) Responsible for all program planning implementation and evaluation.
- 2) Responsible for all data collection and assessments and dissemination.
- 3) Oversees all program activities as determined by the Board of Directors.
- 4) Provides training to staff and selected community groups and leaders.
- 5) Responsible for coordination of all office procedures and supervision of office staff.
- 6) Represents Board of Directors at all public meetings as requested by the Board of Directors.
- 7) Assumes other tasks and responsibilities as determined by the Board of Directors.
- 8) Coordinates activities with Education Committee.
- 9) Establish rapport with agencies, groups and individuals as representative of the Board of Directors.
- 10) Prepare reports including considerations and recommendations for solutions of administrative problems.
- 11) Interpret operational policies

Minimum Requirements:

- Able to organize and set up program office procedures
- Experience in State or Federally funded programs
- Experience in office management
- Experience in program development implementation and monitoring

TRAINING PROGRAM FOR THE EDUCATION COORDINATOR

MARCH, APRIL, MAY

WORKSHOPS

The trainee will learn to coordinate and implement effective workshops on Polynesian voyaging.

1. Workshops are planned for Haleiwa, Mokuleia, Kualoa, and Kamehameha Schools (1979-80).
2. Trainee will learn to write schedules, learn techniques and approaches to teaching Polynesian Voyaging.
3. Trainee will learn to plan diversified workshops for students, youngsters, adults, teachers, and those who are interested.
4. Trainee will learn how to carry out the workshop aims of the Canoe and Education Committees of the Polynesian Voyaging Society.
5. Hokule'a will be included in some of the workshops. Participants attending the outdoor workshops will have an opportunity to feel and see the canoe and learn about the components and functions of the canoe.

Trainee will learn to coordinate workshops with Education and Canoe Committee chairpersons so that Hokule'a can be used as an educational aid.

JUNE, JULY, AUGUST

INSTRUCTIONAL MATERIALS AND EDUCATIONAL PROGRAMS ON POLYNESIAN VOYAGING

The trainee will learn to create and produce instructional materials and set up programs on Polynesian voyaging.

1. Trained to gather and use appropriate application of print and audio-visual information resulting from Hokule'a's voyages.
2. Trained to develop curriculum materials which will be replicable for use in public and private schools.
3. Trained to develop an educational program to provide students who are reached by the main stream academic programs with a marine-oriented, culture based learning experience.
4. Trained to provide public with materials and presentations to make them aware of the natural relationships between ancient Hawaiian marine skills including proper management of resources and its applicability to modern day marine practices through audio-visual aids developed by the Education Committee.
5. Provide materials for students and teachers with an in depth Hawaiian, cultural, historical orientation to the seafaring heritage of the Polynesian people, with emphasis on ancient Hawaiian marine traditions.
6. Trained to develop materials with achievement oriented learning situations that reinforce the students self-esteem and self-confidence.
7. Trained to develop a pool or cadre of educators, crewpersons and others who have the entry level knowledge and experience in Polynesian voyaging.
8. Trained to effect a cooperative working relationship between the D.O.E. and other existing educational organizations as a precedent for future cooperative ventures in development of additional programs especially in Polynesian voyaging.

TRAINING PROGRAM FOR THE EDUCATION COORDINATOR (continued)

SEPTEMBER, OCTOBER, NOVEMBER

GRANT WRITING

Trainee will learn the sequential steps of effective grant writing.

Trainee will be:

1. Directed to find out what kinds of grants are available.
2. Trained to follow procedure and identify specific and significant kinds of information relative to the grant (abstract, need, objectives, program, etc.)
3. Trained to write with clarity and effectiveness while applying for grant.
4. Guided to gather data for grant and assisted by 2 members of the Education Committee of the Polynesian Voyaging Society.

JOB DESCRIPTION

Position: Educational Coordinator

Responsible to: Education Committee Chairperson
POLYNESIAN VOYAGING SOCIETY (PVS)

Responsibilities:

- 1) Coordinates implementation of all activities carried out by the Educational Committee of PVS in furtherance of the objectives of said society, as specified in its Charter of Incorporation.
- 2) Acts with Education Committee as clearing center for educational information pertaining to Polynesian voyaging in general and Hokule'a in particular, as such information becomes available through activities of PVS.
- 3) Surveys interest, supplies needs and distributes information to schools and community groups in regards to educational programs and activities pertaining to Polynesian voyaging.
- 4) Coordinates the creation, production, sale, and distribution of educational materials pertaining to Polynesian voyaging.
- 5) Coordinates and supervises community workshops and lecture programs pertaining to Polynesian voyaging for schools and community groups.
- 6) Coordinates and supervises visits by schools or community groups to Hokule'a in collaboration with Canoe Committee and arranges for appropriate lectures, explanations, and hand-outs.
- 7) Initiates and coordinates the gathering, utilization and appropriate application of print and audiovisual information resulting from Hokule'a's voyages.
- 8) Maintains appropriate filing system for all data and records pertaining to the educational activities of PVS.
- 9) Attends all Education Committee meetings, takes notes, prepares and distributes minutes to all appropriate persons.
- 10) Assume other tasks and responsibilities as determined by the Education Committee Chairperson.

Minimum Requirements:

- B. A. or equivalent education and experience in Education or related area

The trainees will be evaluated every three months by their supervisors, Michael A. Tongg and Cecilia Kapua Lindo. Evaluations will be written and submitted to the trainee and Alu Like.

Advisors to the Program:

Dr. Dixon Stroup - Professor of Oceanography at the University of Hawaii. He is presently working with the Steering Committee of the POLYNESIAN VOYAGING SOCIETY in organizing the class studies program for the proposed 1980 voyage to Tahiti via the Marquesas and Tuamotus.

Dr. Barbara Hunt - Chairman of the Department of Education at the Bishop Museum. Projects underway include development of educational materials based on Museum research in Pacific cultures and natural history and the building of the Hall of Discovery, a new Bishop Museum facility oriented to youth. Dr. Hunt serves on the Education Committee of the POLYNESIAN VOYAGING SOCIETY.

Dr. Kenneth Emory - Pioneer in the Archaeology of Polynesia since 1920. Author of more than 100 publications and teacher to many prominent investigators, Dr. Emory has gained world-renown for his work and is regarded as Dean of Pacific Anthropology. Dr. Emory is on the Advisory Board of the POLYNESIAN VOYAGING SOCIETY.

Dr. Ben R. Finney - Associate Professor of Anthropology, University of Hawai'i Research Associate, East-West Center. Dr. Finney is a specialist in Pacific anthropology and teaches the basic anthropology course on Hawaiian culture. He has done extensive research on Hawaiian and Tahitian culture, including the construction and testing of a 40 foot replica of an ancient Hawaiian double canoe. Dr. Finney is on the Advisory Board of the POLYNESIAN VOYAGING SOCIETY.

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Advisors to the Program: (continued)

Will Kyselka - Professor of Science Education at the University of Hawaii and Professor of Geology/Lecturer at the Bishop Museum Planetarium. Dr. Kyselka is presently working with the Steering Committee of the POLYNESIAN VOYAGING SOCIETY in organizing the non-instrumental navigation classes for the 1980 voyage to Tahiti.

Homer Hayes - Hawaiian historian and lecturer on Hawaiian history and culture. He was a participant in the establishment of the City of Refuge at Honaunau, Kona, Hawai'i. He is acting chairman for the committee regarding the establishment of the Honokihaa-Kaloko National Park. He is a present member of the University of Hawai'i Committee for the Preservation of Hawaiian Language and Culture. Mr. Hayes is a Board of Director for the POLYNESIAN VOYAGING SOCIETY.

August Yee - Leading businessman in Honolulu and an owner of Holiday Mart Department Stores. His strong interest in Hawaiiana and Polynesian history has led him to support this program. Mr. Yee is a Board of Director for the POLYNESIAN VOYAGING SOCIETY.

Anthony Guerrero - Vice President and Branch Supervisor for First Hawaiian Bank. Mr. Guerrero is Treasurer for the POLYNESIAN VOYAGING SOCIETY and oversees fiscal management for the Society.

Gordon Pi'ianai'a - Director of the Hawaiian Studies Institute of the Kamehameha Schools. Mr. Pi'ianai'a has been associated with the POLYNESIAN VOYAGING SOCIETY in various roles in the past three years. On the return trip to Hawai'i in 1976, he served as a crew member on the Hokule'a. Mr. Pi'ianai'a is the co-chairman of the Education Committee.

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VII. EVALUATION

Period covering May 1978 to April 1979.

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IX. PROJECTED SEMINARS/WORKSHOPS

MOKULEIA WORKSHOP
FOR
OFFICERS AND COMMITTEE PERSONS OF THE POLYNESIAN VOYAGING SOCIETY

June 15, 16, 17, ---1979

June (June) 15, Po'alima (Friday)

10:00 a.m.	Meet at Pier 11 to board Hokule'a to Mokuleia
4:00 p.m.	Hokule'a reaches destination (Mokuleia)
4:00-6:00	Settle accommodations, set up camping gear
6:00-6:45	Pā'ina (Dinner)
7:00-7:15	Pihana Kanaka (Assembly) 'Ohana (Gathering for prayer) Introduction for PVS Officers, committee heads, instructors Dissemination of name tags, written materials, program
7:15-8:00	"The Spirit of 'Ohana and the Polynesian Voyaging Society" Cecilia Kapua Lindo
8:00-9:00	"Identifying Star Constellations Related to Polynesian Navigation" Nainoa Thompson Will Kyselka
9:00....	E Wala'au (Talk Story) E Ho'onanea (Relax) E Maka Hiamoe (Go to Sleep)

June (June) 16, Po'aono (Saturday)

7:00-8:00 a.m.	Pā'ina (Breakfast)
8:00-8:15	Pihana Kanaka (Assembly) 'Ohana (Gathering for prayer)
8:15-9:15	"The Polynesian Voyaging Society, Its Purpose and Contributions to Hawai'i and the World" Mike Tongg, Wally Froeseith, Gordon Pi'ianai'a, Cecilia Lindo
9:15-10:00	"Slide Presentation of Hokule'a" Gordon Pi'ianai'a, Wailani Bell, Others?
10:00-12:00	CONCURRENT SESSIONS (Class divided into 2 groups- Red tags will go to Hokule'a, others will watch movie) Ki'ionioni (Movie) "Voyage of Hokule'a" by National Geographic (90 minutes) and Getting acquainted with Hokule'a Learning about the various parts and functions of the famous wa'a kaulua (double-hulled canoe) Sailing?????

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page 2
Mokuleia Workshop

12:00-12:45	Pā'ina (Lunch)
12:45- 2:00	CONCURRENT SESSIONS (Class divided into two groups - Yellow tags will go to the Hokule'a, others watch movie) REPEAT CONCURENT SESSIONS (Check program scheduled for 10:00 -12:00 a.m.)
2:00- 3:00	"Rigging, Lashing, Sailing a Wa'a Kaulua" Leon Paoa Sterling, Wally Froseith, Others?
3:00- 4:00	"Plants Taken on Sea Voyages"
4:00- 5:00	"Food Preparation for Long Sea Voyages" Paige Barber, Moku Froseith
5:00- 6:00	
6:00- 7:00	Pā'ina (Dinner)
7:00- 7:30	Ki'ionioni (Movie) "Launching of the Hokule'a " by Tip Davis
7:30- 8:45	Talk by our President, Others
8:45.....	E wala'au (Talk Story) E ho'onanea (Relax) E maka hiamoe (Go to Sleep)

Iune (June) 17, Sabati/La Pule (Sunday)

7:00- 8:00 a. m	Pā'ina (Breakfast)
8:00- 8:15	Pihana Kanaka (Assembly) 'Ohana (Gathering for Prayer)
8:15- 9:15	"Polynesian Voyaging Canoes, Symbolisms and Religious Ceremonies" Homer Hayes
9:15-10:45	"Experiences of Short and Long Voyages Aboard the Hokule'a" Dave Lyman, Leon and Jo-Anne Kahanamoku Sterling, Gordon Pi'ianai'a
10:45-11:30	Himeni a me na Hula (Singing, Dancing) Songs and Dances about the Wa'a Kaulua Jerry Muller, Others? Closing Remarks
11:30	Ua Pau (Finished)



THE HAWAII STATE ASSOCIATION OF PARLIAMENTARIANS
CORDIALLY INVITES ALL INTERESTED PERSONS TO ITS

14TH ANNUAL WORKSHOP

DATE: APRIL 21, 1979 TIME: 8:30 AM to 3:00 PM

PLACE: ALA MOANA AMERICANA HOTEL

COST: \$15.00-COFFEE BREAK AND LUNCHEON
INCLUDED.

WOULD YOU KNOW HOW TO DELAY ACTION, OR STOP DEBATE ON A MOTION? IF YOU
WERE THE CHAIR, DO YOU HAVE A VOTE? DO YOU KNOW WHAT SHOULD BE RECORDED
IN THE MINUTES? SHOULD THE MOTION TO LAY ON THE TABLE "KILL" A QUESTION?

IF QUESTIONS SUCH AS THESE HAVE CAUSED YOU PROBLEMS IN THE PAST, COME TO
HSAP'S WORKSHOP IN PARLIAMENTARY PROCEDURE AND GET THE ANSWERS.

INSTRUCTION WILL BE GIVEN BY REGISTERED PROFESSIONAL PARLIAMENTARIANS ON
SUCH SUBJECTS AS: BOARDS AND COMMITTEES; MOTIONS; HOW TO PREPARE AN AGENDA;
NOMINATIONS AND ELECTIONS; AND BASIC RULES, WHICH WILL INCLUDE A PRACTICE
SESSION.

INVITE YOUR FRIENDS, BUSINESS ASSOCIATES, FELLOW STUDENTS, AND MEMBERS OF
YOUR ORGANIZATION TO ATTEND WITH YOU. THE OPPORTUNITY TO BECOME BETTER-
INFORMED THROUGH AN INCREASE IN PARLIAMENTARY KNOWLEDGE SHOULD RESULT IN
SHORTER, AND MORE PROFESSIONALLY CONDUCTED MEETINGS IN THE FUTURE-WHICH
SHOULD BE REASON ENOUGH TO ATTEND THE WORKSHOP.

TIME IS BEING SCHEDULED DURING THE DAY FOR ANSWERING ANY QUESTIONS RELATIVE
TO PARLIAMENTARY PROCEDURE THAT MAY HAVE BOTHERED YOU IN THE PAST, AND THAT
YOU ARE WELCOME TO BRING TO THE WORKSHOP FOR DISCUSSION.

IN ORDER TO PLAN ADEQUATELY, WE MUST KNOW AS SOON AS POSSIBLE HOW MANY
PERSONS WILL BE IN ATTENDANCE. PLEASE SEND IN YOUR RESERVATION, ALONG
WITH YOUR CHECK FOR \$15.00, SOON!

SEE YOU THERE; TILL THEN.....ALOHA!

Dorothy Connell, Chairman. Ph. [REDACTED]

PLEASE USE THIS FORM FOR YOUR RESERVATION FOR HSAP'S WORKSHOP, APRIL 21, 1979

MAKE CHECK PAYABLE TO: HSAP. (AMOUNT:\$15.00)

NAME: Marlene B. Among and Michael A. Tongg PHONE: [REDACTED]

ADDRESS: P.O. Box 6037 /Bishop Museum ASSOC.: Polynesian
Honolulu, Hawaii 96818 Voyaging Society

MAIL TO: MISS JOSEPHINE DAY, [REDACTED] HONOLULU, HI. 96813

NO RESERVATIONS ACCEPTED AFTER APRIL 14, 1979

"Where there is no law, but every man does what is right in his own eyes,
there is the least of real liberty."

---Henry M. Robert.

11
Page
Missing
Mae's
Training Sheet

POLYNESIAN VOYAGING SOCIETY

BOX 6037 / HONOLULU / HAWAII 96818 / (808) 841-3966

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Alu Like
P.O. Box 27384
Chinatown Station
Honolulu, Hawaii 96827

PROPOSAL TITLE:

Request for Extension of
CETA Positions and Budget
Allocation:
POLYNESIAN VOYAGING SOCIETY

APPLICANT:

Polynesian Voyaging Society
P.O. Box 6037
Bishop Museum
Honolulu, Hawaii 96818
841-3966

HAWAII



TAHITI

BICENTENNIAL VOYAGE OF REDISCOVERY
HOE AKU I KA WA'A

74

DRAFT

October 9, 1979
DISCOVERERS' DAY WORKSHOP

Sponsored by the Polynesian Voyaging Society and Kamehameha Schools

PROGRAM SCHEDULE			
Pihana Kanaka (Assembly)	Registration Oli (Chant of Gratitude For All That Hokule'a Means To Us) Introduction of the PVS Education Committee and Other Instructors Opening Remarks - Michael Tongg, PVS President Announcements - Gordon Pi'ianai'a (Facilities, Directions)		
8:00 - 8:25			
CONCURRENT			
SESSIONS	ROOM A	ROOM B	ROOM C
<u>SESSION 1</u>	<u>Techniques Used In Teaching Polynesian Voyaging</u>	<u>Hokule'a As An Educational Tool</u>	<u>Attitudes, Ancient Mariners Had About The Sea</u>
8:30 - 9:30	Teacher's Guide 4 Children's Books Activity Book C. Lindo	W. Froseith G. Pi'ianai'a L. Sterling	D. Stroup
<u>SESSION 2</u>	<u>The Abstract Made Simple Coaching In Identifying Stars Related To Polynesian Voyaging</u>	<u>Identifying Plants and Animals Taken On Long Sea Voyages</u>	<u>Migration, Then Settlement (Land, Ahupua'a)</u>
9:45 - 10:45	N. Thompson W. Kyselka	A. Ikeoka C. Lindo	M. Kelly
<u>SESSION 3</u>	<u>How Foods Were Prepared For Open Voyages</u>	<u>Attitudes, Symbolisms Valued by Ancient Mariners</u>	<u>Arts and Crafts That Kept Children Busy On Open Voyages</u>
10:45 - 12:00	P. Barker M. Froseith	H. Hayes M. Pescaia	R. Keaka M. Kim
12:00 - 12:45	LUNCH (DISPLAY OF MATERIALS ON POLYNESIAN VOYAGING) W. Bell M. Among		
<u>SESSION 4</u>	<u>Simplifying Polynesian Navigation (Winds, Currents, Bird Flights)</u>	<u>Identifying the Different Kinds of Polynesian Canoes</u>	<u>Experiences Aboard the Hokule'a (Inter-Island, Open Ocean)</u>
1:00 - 2:00	S. Somsen L. McCreary G. Pi'ianai'a	B. Hunt N. Lyman	M. Lyman Others? B. Young
<u>SESSION 5</u>	<u>Teaching Children's Songs and Dances About the Polynesian Voyagers</u>	<u>Attitudes About the Traditional Routes Taken By the Mariners</u>	<u>Creative Activities (Puzzles, Games, Chart And Techniques In Teaching, Map Skills, Longitude, Latitude)</u>
2:00 - 3:00	Mahoe, Harbottle?	G. Pi'ianai'a Others? N. Thompson	N. Lyman Others? M. Pescaia
3:00 - 3:15	EVALUATION TIME		

ILLEGIBLE