

*Cause  
Committee*

December 18, 1978

Mr. Wallace Froiseth  
Honolulu, Hawaii 96817

Aloha Wally:

Please have a proposal prepared stating your goals and objectives along with a budget for the year 1979-80 for the ~~Ender~~ committee. I also need a list of those individuals who will be serving on your committee. At the montly Board meeting on January 4, 1979, each chairperson will be discussing his or her proposal.

Send this information to Marlene by Tuesday, January 2, 1979.

Mahalo for your cooperation.

Sincerely,

Michael A. Tongg  
President  
POLYNESIAN VOYAGING SOCIETY

CANOE COMMITTEE

1979 - 1980

WALLACE FROISETH, Chairperson  
Honolulu, Hawaii 96818  
Phone: [REDACTED]

Homer Hayes  
HAYES GUARD SERVICE  
1019 University Avenue  
Suite 6A  
Honolulu, Hawaii 96826  
Phone: 941-3392

Alex Jakubenko  
Drydock Supervisor  
KEEHI DRYDOCK  
24 Sand Island Road  
Honolulu, Hawaii 96819  
Phone: 841-0402

Residence: [REDACTED]  
Honolulu, Hawaii 96819

Dr. Arthur Kamisugi  
McDonald's Office Building  
1060 Young Street  
Suite 201  
Honolulu, Hawaii 96814  
Phone: 523-2402

John Kruse  
[REDACTED]  
Lihue, Hawaii 96766  
Phone: [REDACTED]

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Page Two  
Canoe Committee 1979 - 1980

David B. K. Lyman, III  
Waters Transport - Harbor Pilots Quarters  
Box 397 Aloha Towers  
Honolulu, Hawaii 96809  
Phone: 548-6289

Marion Lyman Mersereau  
**CAMP MOKULEIA**  
68-729 Farrington Highway  
Waialua, Oahu 96791  
Phone: 637-9500/4716

(Send all her mail to Camp Mokuleia)

Mother's address)

Renee Miller  
[REDACTED]  
Kailua, Hawaii 96734  
Phone: [REDACTED]

Buddy McGuire  
HAWAII EMPLOYERS COUNCIL  
2682 Waiwai Loop  
Honolulu, Hawaii 96819  
Phone: 836-1511

Gordon Piianaia  
KAMEHAMEHA SCHOOLS  
Kapalama Heights  
Honolulu, Hawaii 96817  
Phone: 842-8391/8590

Page Three  
Canoe Committee 1979 - 1980

Charles Reeves

Honolulu, Hawaii 96815  
Phone: 955-8111 (Honolulu Police Department)

Steve Somsen

set  
96734

Jo-Anne and Leon Sterling

(Messages may be left at the PVS office  
841-3966)

Nainoa Thompson

Michael A. Tongg  
MIRIKITANI AND TONGG  
173 South Kukui Street  
Honolulu, Hawaii 96813  
Phone: 523-2441

(Send all mail to his business address)

Maka'ala Yates

(Temporary address)

Captain Cook, Hawaii 96704

Benjamin B. C. Young, M.D.  
Student Affairs for School of Medicine  
UNIVERSITY OF HAWAII  
1960 East West Road Room C203  
Honolulu, Hawaii 96822  
Phone: 948-7423

12

DOCUMENTS CAPTURED AS RECEIVED



March 21, 1978

Report to Polynesian Voyaging Society, on damages to Hokule'a

Check off list:

Port and Starboard

<u>Iako</u>	<u>Lashing</u>	<u>Joist</u>	<u>Stantion Post</u>
1	Ok - Caulk	None	None
2	Ok	ok	ok
3	ok	ok	ok
4	ok	ok	Replace 1
5	ok	ok	ok
6	ok	ok	Replace 1
7	ok	ok	Replace 1
8	ok	ok	Replace 1
9	ok	ok	Replace 1
10	ok	Replace	Replace 1
11	ok	ok	ok
12	Seal & Caulk	None	None

Repairs Needed:

1. Mo'o (gunwales) 3/8 Marine plywood
2. Booms (2) Ihu and Hope  
Material: Douglas Fir
3. Port and Starboard Manus (Fiberglass)
4. Hatch Covers  
Modification: Higher combing 6 to 8 inches  
Secure with dogs
5. Hale - Same conformation  
Material: Hau and Bamboo
6. Galley - Marine plywood 1/4 inches
7. Sails - Ihu and Hope (New and Old sails were lost)
8. Stantion Posts (8) 2 extras  
Material: Hau 6" Diameter  
Post 5' Long

*Manus - forward  
- hope -  
Main lashings  
in good shape -  
Gunwales have  
to be replaced  
- forward boom  
lost  
boom  
cracked -*

Structural repairs for Hokule'a

<u>Crossbeams (Iako</u>	<u>Lashing</u>	<u>Joist</u>	<u>Stantion Post</u>
#1	OK/Caulk	None	None
#2	OK	OK	OK
#3	OK	OK	OK
#4	OK	OK	Replace 1
#5	OK	OK	OK
#6	OK	OK	Replace 1
#7	OK	OK	Replace 1
#8	OK	OK	Replace 1
#9	OK	OK	Replace 1
#10	OK	Replace	Replace 1
#11	OK	OK	OK
#12	Seal/Caulk	None	None

1. Manus patch and seal, cut ducthmen, also check caulking. Patch hole in starboard manu (fiberglass).
2. Deck needs to be sanded, replace bad decking and bamboo.
3. Hatch covers - combing brought up to 6 to 8 inches secure with dogs.
4. Mo'os (gunwales) 3/8 plywood (marine).
5. Booms - Ihu and Hope, use of Douglas fir.
6. Sails - Ihu and Hope
7. Hale - Same conformation. Hau and bamboo
8. Galley - 1/2" Marine plywood.
9. Stantion Post - Hau 6" diameter. #8 5' Long (2 extras)

Running and Standing Rigging

1. Halyards / Cleats
2. Tristing / Cleats
3. Sheet Lines / Cleats
4. Shrouds/Doughnuts
5. Stays/Doughnuts

ILLEGIBLE

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.

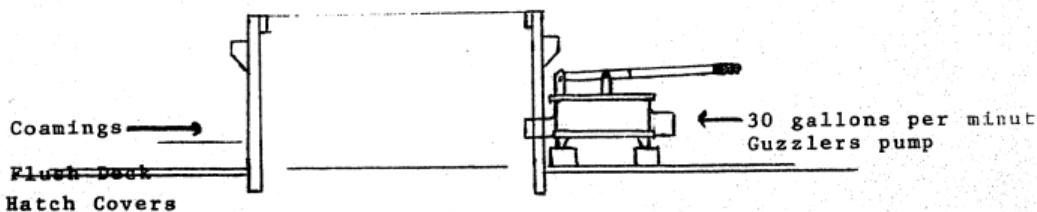
Since the lost of the canoe's sails, Mr. Leon A.P. Sterling, contacted Mr. Ben Finney, for drawings of the canoe. Specifications were taken and submitted to Mr. Sonny Nelson, sailmaker. The sails are now being made up. A deposit of \$250.000 was paid to Mr. Nelson.

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.

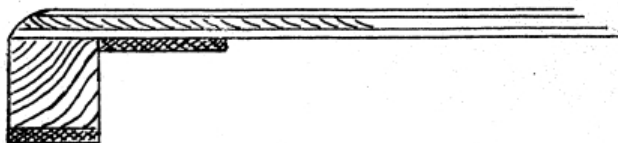
Modifications:

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 Kapono, 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

*Open to date  
#1815-92*

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.

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 (p. 2) 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

Hokule'a

STANDING AND RUNNING RIGGING	\$16,500.00
WOOD FOR REPAIR DAMAGED AND NEW SECTION	4,750.40
HARDWARE FOR HATCHES	751.54
LUMBER FOR HATCHES	362.40
TOOL LIST	610.78
SAFETY EQUIPMENT	24,059.04
SAIL REPAIR KIT	242.04
COOKING EQUIPMENT	<u>1,407.04</u>
TOTAL	<u>\$48,683.24</u>

Hokule'a

STANDING AND RUNNING RIGGING

<u>Quantity</u>	<u>Item</u>	<u>Unit</u>	<u>Total</u>
3	Sets of Sails	2,000.00	6,000.00
4,800'	5/8 Dacron rope	.70	3,360.00
2,400'	1/2 Dacron rope	.50	1,200.00
2,400'	3/8 Dacron rope	.30	720.00
4,800'	1/4 Dacron rope	.15	720.00
1	Set splash guards	4,000.00	4,000.00
	Misc. wood for blocks cleats, and guides		500.00
	TOTAL		16,500.00

WOOD FOR REPAIR DAMAGED AND NEW SECTIONS

33	Sheets 4x8x3/8 Marine Plywood	1,980.00
33	Sheets 4x8x1/4 Marine Plywood	990.00
200	2"x2" Mahogany	1,000.00
14	Pieces 1"x12"x12 Clear Douglas fir	256.00
14	Pieces 1"x4"x12 Clear Douglas fir	64.00
	Eroxy Glue, Paint, Sand Paper & Glue, Soft Pad	460.00
	TOTAL	4,750.40

HARDWARE FOR HATCHES

4	Portholes	71.14	284.56
20	SS Lashing Hooks	1.42	28.40
2 Gal.	Epoxy Glue	37.37	74.74
84'	Shock cord	1.26	105.84
20	SS eye straps	.79	15.80
140'	Rubber gasket	.73	102.20
140'	Surgical tubing		140.00
	TOTAL		751.54

LUMBER FOR HATCHES

14 pcs.	1x12x10' Clear Fir	18.30	256.20
14 pcs.	1x4x12' Clear Fir	4.60	64.40
4 Bx.	Nails Bronze 1" (12lb)	2.10	8.40
16 Bx.	Nails Bronze 1 1/4	2.10	33.40
	TOTAL		362.40



Hokule'a

TOOL LIST

<u>Quantity</u>	<u>Item</u>	<u>Unit</u>	<u>Total</u>
1	Brace	23.99	23.99
1	Set of bits	24.99	24.99
2	Screw driver bits for brace	1.79	3.58
1	Push drill w/bits	15.99	15.99
1	Hand drill w/bits	12.99	12.99
1	Set woodchisels	19.98	19.98
1	Square	9.29	9.29
2	Hammers	12.95	25.90
2	Hand saws	14.99	28.98
1	Tree saw	6.49	6.49
1	Folding ruler	5.95	5.95
2	Tape rulers 25' & 100'		40.00
2	Surform block planes	8.99	17.98
2	Lineman pliers	7.59	15.18
1	Long pliers	6.39	6.39
1	Adjustable pliers	7.39	7.39
1	Mechanic pliers	5.79	5.79
2	Sets screw drivers	7.99	15.98
1	Socket set 3/8 drive	45.95	45.95
1	Set box wrenches	15.99	15.99
1	Set open wrenches	13.95	13.95
2	Adjustable wrenches	9.99	19.98
2	Vice grips	5.39	10.78
2	6" C clamps		25.00
2	Wooden clamps #4		40.00
1	Vice 4"		35.00
1	Contour gauge	5.29	5.29
2	Spoke or draw knives		25.00
1	Block plane		20.00
4	Rolls electrical tape		5.00
4	Cans WD-40		12.00
1	Set wood files and wood rasps		50.00
	TOTAL		610.78

Hokule'a

SAFETY EQUIPMENT

<u>Quantity</u>	<u>Item</u>	<u>Unit</u>	<u>Total</u>
4	ERIB	200.00	800.00
48	Hand held flares	31.98	1,535.04
	Parachute		
4	Very Pistol	60.00	240.00
48	25mm Parachute flares	14.00	672.00
48	25mm Meteor flares	4.00	192.00
24	Smoke Distress signal flares	34.00	816.00
24	Water dye markers	4.00	96.00
20	Hand held strobe lights	60.00	1,200.00
20	Signal mirrors	2.00	40.00
4	Police type whistles	2.00	8.00
2	Radar reflectors	40.00	80.00
4	Man overboard strobe light	90.00	360.00
2	Man overboard marker w/flag	70.00	140.00
2	Ring buoys 30" Diameter	40.00	80.00
20	Life jackets type 11	7.00	140.00
20	Safety harness	16.25	325.00
4	Air horns w/extra cannisters		96.00
2 5 lb			
2 2 1/2 lb	CO-2 Fire Extinguishers		103.00
4	Distress Flags		20.00
2	6V. Spotlights	30.00	60.00
4	3 Cell flashlights D-cell	16.00	64.00
4	12V Spotlight	30.00	120.00
6	YD. Guzzler Pumps w/Hose	117.50	705.00
1	Case 6V Batteries		
1	Case 12V. Batteries		
2	Cases D-Cell Batteries		
2	12V. HD Marine Batteries		
	Spare Bulbs		
1	CB 3 Channel Radio/hand held		300.00
	CB		250.00
2	Side lights		154.00
1	Stern lights		77.00
1	Anchor light		77.00
1	12' Surfboard		
2	10 Man life raft		3,000.00
1	Sea anchor		1,179.00
4	Anchor w/line		
1	65 Horse power engine		8,000.00
2	12 Gallon gas tank		300.00
20	Life Jacket lights		80.00
1	Set charts pubs & Navi & Misc. Gear		1,600.00
6	Fenders		150.00
20	Sleeping bags		1,000.00
	TOTAL		24,059.04

Hokule'a

SAIL REPAIR KIT

<u>Quantity</u>	<u>Item</u>	<u>Unit</u>	<u>Total</u>
4	Sail needles	.27	1.08
4	Sail needles	.24	.96
4	Sail needles	.21	.84
4	Sail needles	.19	.76
4	Sail needles	.19	.76
4	Sail needles	.21	.84
4	Sail needles	.77	3.08
2	Sail makers palm L/R hand	16.00	32.00
2	Spools Dacron sail twine unwaxed	1.62	3.24
2	Spools Dacron sail twine waxed	1.62	3.24
4	Braded Dacron twine	.37	1.48
1	Wood and brass 2' folding ruler		15.00
1	Wood and brass calipers		7.00
1	SS Rigging knife		46.00
2	Marlin spikes		36.00
2	Sisscors lg./sm.		45.00
6	Blocks of bees wax	.92	5.52
4	Cans of liquid wip	2.91	11.64
2	Rolls of Dacron tape	6.30	12.60
1	Sail repair bag		15.00
	TOTAL		242.04

Hokule'a

COOKING EQUIPMENT

<u>Quantity</u>	<u>Item</u>	<u>Unit</u>	<u>Total</u>
2	SS Stock Pot 8 qt.	37.40	74.80
2	SS Stock Pot 12 qt.	44.30	88.60
1	SS Tea Pot 8 qt.	79.00	79.00
1	SS Frying Pan		25.00
20	SS Bowls 1 1/2 qt.	3.00	60.00
2	SS Bowls 4 qt.	6.20	12.40
4	SS Serving Spoons	3.35	13.40
1	SS Spatula		4.60
2	Wooden Spoons	.45	.90
2	SS Serving Prongs	2.10	4.20
2	SS Serving Ladles	5.10	10.20
24	Dessert Spoons (Per Doz.)	6.86	13.72
24	SS Dinner Forks	6.86	13.72
1	Chef's Knife 10"	34.50	34.50
1	Chef's Knife 10" Thin Blade	29.00	29.00
1	Boning Knife 5 1/2"	12.50	12.50
1	Boning Knife 5 1/2" Curved	12.50	12.50
1	Cutting Board 18x24x1/2	29.95	29.95
6'	Neotex Non-Skid Pad 26" Wide	3.15	18.90
1	2 Burner Stove w/2 1/2 gal. tank	256.55	256.55
2	SS can Openers		
20	Plastic Coffee Cups		40.00
4	2 Gal. Buckets	2.00	6.00
2	Galley Lights	20.00	20.00
2	Sandwich Spreaders	3.30	6.60
2	Hot Pots		120.00
1	2 Burner stove and tank		300.00
1	Cooler 115 qt.		120.00
	TOTAL		1,407.04

# POLYNESIAN VOYAGING SOCIETY

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

July 17, 1978

*Office Copy  
Leave in  
file!!*

**PRESIDENT**  
MICHAEL A. TONGG  
**VICE PRESIDENT**  
JO ANNE STERLING  
**TREASURER**  
ANTHONY GUERRERO, JR.

**SECRETARY**  
RENEE MILLER

**BOARD OF DIRECTORS**  
PAIGE KAWALO BARBER  
KEALIPUAIMOKU FROISETH  
DAVID B. K. LYMAN, III  
JERRY K. MULLER  
SIEGFRIED RAMLER  
AUGUST YEE  
BENJAMIN B. C. YOUNG, M.D.

## ADVISORY BOARD

CHARMAN AKINA, M.D.  
FRED CACHOLA, M.D.  
KENNETH P. EMORY, PH.D.  
BEN R. FINNEY, PH.D.  
WALLACE F. FROISETH  
SAM KAAI  
HERB KAWAINUI KANE, M.F.A.  
G. ZULU KAUIHI  
PO'OMAI KAWANANAKOA  
ED KEALANAHELE, REVEREND  
JOHN KRUSE  
FRANCIS KAINOA LEE  
GORDON PIANAIA

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 Kamehameha Schools shop area.

Training classes for men have been set up and scheduled.

HAWAII



TAHITI

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.

# POLYNESIAN VOYAGING SOCIETY

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

July 17, 1978

**PRESIDENT**  
MICHAEL A. TONGG  
**VICE PRESIDENT**  
JO ANNE STERLING  
**TREASURER**  
ANTHONY GUERRERO, JR.

**SECRETARY**  
RENEE MILLER

**BOARD OF  
DIRECTORS**

PAIGE KAWELO  
BARBER

KEALIPUAIMOKU  
FROISETH

DAVID B. K. LYMAN, III

JERRY K. MULLER

SIEGFRIED RAMLER

AUGUST YEE

BENJAMIN B. C.  
YOUNG, M.D.

## ADVISORY BOARD

CHARMAN AKINA, M.D.

FRED CACHOLA, M.D.

KENNETH P. EMORY, PH.D.

BEN R. FINNEY, PH.D.

WALLACE F. FROISETH

SAM KAAI

HERB KAWAINUI

KANE, M.F.A.

G. ZULU KAUHI

PO'OMAI KAWANANAKOA

ED KEALANAHELE,

REVEREND

JOHN KRUSE

FRANCIS KAINOA LEE

GORDON PIANAIA

**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.

HAWAII



TAHITI

BICENTENNIAL VOYAGE OF REDISCOVERY  
HOE AKU I KA WA'A

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.



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 no 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.

# POLYNESIA VOYAGING SOCIETY

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

August 3, 1978

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GORDON PIHANAIA

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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P TENNIAL VOYAGE OF REDISCOVERY  
MOE AKU I KA WA'A

26

# POLYNESIAN VOYAGING SOCIETY

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*office  
copy  
Leave in  
file!!  
also filed under  
Hokule'a  
Schedules/Itens  
needed*

August 3, 1978

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GORDON PIJANAIA

TO: BOARD OF DIRECTOR'S  
FROM: CANOE COMMITTEE  
SUBJECT: ITEMS NEEDED FOR HOKULE'A

On July 28, 1978, the Canoe Committee held their meeting at Kamehameha School. The attached list are items discussed and approved by the Canoe Committee for Hokule'a. These items are needed for any voyage-either a day sail or extended inter-island sail.

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BICENTENNIAL VOYAGE OF REDISCOVERY  
HOE AKU I KA WA'A

Hokule'a

STANDING AND RUNNING RIGGING

<u>Quantity</u>	<u>Item</u>
2	Sets of Sails
2,400	5/8 Dacron rope
1,200	1/2 Dacron rope
2,400	3/8 Dacron rope
2,400	1/4 Dacron rope
1	Set splash guards
	Misc. wood for blocks
	cleats, and guides
600' 3/4"	Samson Line

WOOD FOR REPAIR DAMAGED AND NEW SECTION

4	Sheets 1/2 Marine Plywood
3	Sheets 1/4 Marine Plywood

TOOL LIST

1	Brace
1	Set of bits
2	Screw driver bits for brace
1	Push drill with bits
1	Hand drill with bits
1	Set woodchisels
1	Square
2	Hammers
2	Hand saws
1	Tree saw
1	Folding ruler
2	Tape rulers 25'
2	Surform block planes
1	Lineman pliers
1	Long pliers
1	Adjustable pliers
1	Mechanic pliers
2	Sets crew drivers
1	Socket set 3/8 drive
1	Set box wrenches
1	Set open wrenches
2	Adjustable wrenches
2	Vice grips
2	6" C clamps
2	Wooden clamps #4
1	Vice 4"

TOOL LIST (continued)

<u>Quantity</u>	<u>Item</u>
1	Contour gauge
2	Spoke or draw knives
1	Block plane
4	Rolls electrical tape
4	Cans WD-40
1	Set wood files and wood rasps

SAFETY EQUIPMENT

2	ERIB
24	Hand held flares
	Parachute
6	Smoke Distress signal flare
6	Water dye markers
8	Hand held strobe lights
8	Signal mirrors
6	Police type whistles
2	Radar reflectors
2	Man overboard strobe light
1	Man overboard marker with flag
2	Ring buoys 30" Diameter
10	Life jackets type II
8	Safety harness
2	Air horns with extra cannisters
2	10 pound CO-2 Fire Extinguishers
2	Distress Flags
2	6V. Spotlights
2	3 Cell flashlights D-cell
	Spare bulbs
	HD Battery
2	Side lights
1	Stern lights
1	Anchor light
1	20 Man life raft
1	Sea Anchor with line
1	Anchor with line
1 dozen	Spare spark plugs
	Spare line
2 flags	Hawaiian and American
1	Compass
1	Set of Charts
1	Set Plotting Equipment
1	Anemometer
1	RDF

SAFETY EQUIPMENT (continued)

<u>Quantity</u>	<u>Item</u>
1	Taft Log
1	Medical Kit
1	Underwater Camera-Education Committee

SAIL REPAIR KIT

4	Sail needles
4	Sail needles
4	Sail needles
4	Sail needles
4	Sail needles
4	Sail needles
4	Sail needles
2	Sail makers palm L/R hand
2	Spools Dacron sail twine unwaxed
2	Spools Dacron sail twine waxed
4	Braded Dacron twine
1	Wood and brass 2' folding ruler
1	Wood and brass calipers
1	SS Rigging knife
2	Marlin spikes
2	Scissors large and small
6	Blocks of bees wax
4	Cans of liquid wip
2	Rolls of Dacron tape
1	Sail repair bag

COOKING EQUIPMENT

2	SS Stock Pot 8 quart
1	SS Stock Pot 12 quart
1	SS Tea Pot 8 quart
1	SS Frying Pan
16	SS Bowls 1 1/2 quart
2	SS Bowls 4 quart
4	SS Serving Spoons
1	SS Spatula
2	Wooden Spoons
2	SS Serving Prongs
2	SS Serving Ladles
24	Dessert Spoons

Page Four  
Hokule'a

COOKING EQUIPMENT (continued)

<u>Quantity</u>	<u>Item</u>
1	Chef's Knife 10"
1	Boning Knife 5½"
1	Cutting Board 18x24x½
	Neotex Non-Skid Pad 26" wide
1	2 Burner Stove with 2½ gallon tank
2	SS Can Openers
16	Plastic Coffee Cups
4	2 gallon buckets
2	Galley Lights

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GORDON PIANAIA

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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BICENTENNIAL VOYAGE OF REDISCOVERY  
HOE AKU, I KA WA'A



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.
-

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 adjustment
- 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

## MINUTES

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FRANCIS KAINOA LEE

GORDON PIHANAIA

### **CANOE COMMITTEE MEETING**

November 8, 1978  
791 Sunset Avenue

### **Attendance:**

FROISETH, Wallace  
STERLING, Jo-Anne  
STERLING, Leon  
THOMPSON, Nainoa  
TONGG, Michael

M. Among  
K. Froiseth

The meeting was called to order at 6:45 P.M. The purpose of the meeting was to review the report from the U. S. Coast Guard along with ideas and recommendations from the Canoe Committee, and to plan the course for the completion and repairs for Hokule'a. M. Tongg expressed that the deadline for the completion of Hokule'a should be January 1, 1979, and tests should be done before she sails again.

The Coast Guard report was reviewed as follows:

- A. COAST GUARD - "There is no evidence that an inclining experiment was ever conducted. I have recommended that such an experiment be accomplished before any further sea-going operations be undertaken."

CANOE COMMITTEE - It was agreed that this experiment could be done with caution. The problem lies with uprighting Hokule'a and the damages that might be involved. Further discussion with the Coast Guard needs to be done regarding this experiment.

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BICENTENNIAL VOYAGE OF REDISCOVERY  
HOE AKU I KA WA'A

35

- B. COAST GUARD - "That lashing be renewed as necessary to ensure structural integrity."

CANOE COMMITTEE - The Coast Guard report did not specify where the lashings appeared to have exceeded their useful life. Feels that they might be talking about the cross pieces. The Canoe Committee will look over the lashings and replace those that are needed. It was also suggested to take a sample of the lashing and send it out to test its strength.

- C. COAST GUARD - "All compartment hatch coamings raised at least 10" from the deck, and fiberglassed for re-enforcement."

CANOE COMMITTEE - The hatch coamings have been raised, but not fiberglassed. The Canoe Committee felt that fiberglassing was not necessary for the strength of the hatch coamings and will discuss this point with the Coast Guard.

- D. COAST GUARD - "All compartment hatch covers made watertight with secure fastenings and tested satisfactorily."

CANOE COMMITTEE - At present the hatch covers are water tight with screwed in half rings on each side to hold bungee shock cords that are pulled over each of the four corners. A simple test was made while on drydock with water hose pressure about June 1978. Testing for her neutral buoyancy will be discussed with the Coast Guard.

- E. COAST GUARD - "All deck scuppers have a freeing port area of not less than 9 square inches per running foot of bulwark."

CANOE COMMITTEE - The scupper holes do not comply with the minimum ratio requirements of the Coast Guard. The scupper holes in all end and second to rear compartments were increased in size from 2" to 2 1/2". Also additional holes were added on the inside of rear compartments. It is felt that 3" diameter holes in every foot would materially weaken the hull. Also all decks where the crew sleep would be awash even if scupper flaps were installed. Two points will be discussed with the Coast Guard: a. more scupper holes will weaken the hull of Hokule'a, b. the crew will be sleeping in water. Further tests need to be done.

- F. COAST GUARD - "That spray shields be designed so that water, to the maximum extent possible, is deflected from the deck."

CANOE COMMITTEE - It was agreed that the spray shields could be improved from its present design. The shields need improvement around the fit of the iaku. This is where it actually takes in water. A boot should be fitted around the iakus. Further discussion regarding the spray shields was left open for another time.

- G. COAST GUARD - "That one fixed hand bilge pump be installed, capable of pumping not less than 10 GPM, in each of the following compartments Nos. 2 port and starboard, and Nos. 6, port and starboard. These pumps should be capable of operation without removing the compartment hatch covers."

CANOE COMMITTEE - This has been done. Hokule'a has 30 GPM instead of 10 GPM. The pumps were installed but taken off for safety reasons. The covers need completion. L. Sterling pointed out that the Coast Guard refers to compartments #2 and #6 compartments port and starboard. This should be clarified with the Coast Guard and numbered #1 and #7 compartments that take in water.

- H. COAST GUARD - "That solid floatation (e.g., styrofoam, polystyrene) be inserted in each of the following compartments: Nos. 1 port and starboard, and Nos. 7, port and starboard.

CANOE COMMITTEE - L. Sterling feels that #0 and #8 port and starboard hulls should have the floatation gear. When #1 and #7 compartments are full of water, they have a tendency to bring the vessel down further into the water than she should be. M. Tongg recommended putting the same type of material that boogie boards are made of into the compartments. More discussion and more testing needs to be done in this area.

- I. COAST GUARD - "I would like to emphasize that all of the safety and lifesaving equipment carried on board will be of minimal value unless all members of the crew are knowledgeable and familiar with its use."

CANOE COMMITTEE - W. Froiseth indicated that this is a matter of thorough training of the crew members as to the location and use of all safety equipment on board.

It was decided by the Canoe Committee to schedule Saturday and Sunday, December 2 and 3, 1978 to complete most of the work on Hokule'a. A generator will be needed at Pier 12, so a request must be made to A. Guerrero. W. Froiseth suggests in getting some type of material to preserve the sails.

The meeting was adjourned at 8:30 P.M.

27

December 19, 1978

TO: MICHAEL A. TONGG  
FROM: LEON STERLING, Vessel Supervisor  
SUBJECT: CANOE COMMITTEE REPORT  
December 1 - 15, 1978

- December 1 - - Prepare tools, stanchion rails to be moved to canoe
- 2 - Workshop at Pier 12 on Hokule'a
- 3 - Workshop at Pier 12 on Hokule'a
- 4 - Repair hale, wind damages, work on booms
- 5 - Representation-Bishop Museum & Kamehameha School; work on booms
- 6 - Class on rigging, docking with and without engine
- 7 - Refinish running boards, sand, tape and prep
- 8 - Refinish running boards, sand, tape and prep
- 9 - Workshop at Pier 12 on Hokule'a
- 10 - Workshop at Pier 12 on Hokule'a
- 11 - Install pumps #1 & 7 Port hull, varnish post
- 12 - Install pumps #1 & 7 Starboard hull, install shock cord

Page Two  
Canoe Committee Report  
December 19, 1978

- December 13 - Install shock cord on hatchhies
- December 14 - Recut and fit safety rail - aft lash in place
- December 15 - Wip ends of rope @lashings and standing rigging

December 12, 1978

TO: BOLYNESIAN VOYAGING SOCIETY  
BOARD OF DIRECTORS

FROM: CANOE COMMITTEE

SUBJECT: WORKSHOP/HOKULE'A  
December 2 and 3, 1978  
(

The following is an outline of the work that needs to be done on Hokule'a for the above weekend.

- A. STANCHION POST
1. Cut to fit
  2. Drill and dowel
  3. Notch top of post for rail
  4. Drill post for lashing
  5. Sand post/prep for varnish
  6. Lash post
- B. BILGE PUMPS
1. Install/temporary for line up mounting screws
  2. Drill holes through deck for screws
  3. Measure and cut pump hose
  4. Install clamps (hose)
  5. Caulk and mount pumps
- C. BULK HEADS - FORE AND AFT ABOVE AND BELOW DECKS
1. Measure and cut, plywood to fit (If backing is needed, install, glue and screw)
  2. Caulk, install bulkheads with brass screws and wing nuts, below decks.)



Page Two  
WORKSHOP/HOKULE'A December 2 and 3, 1978  
December 12, 1978

- D. LASHING
  - 1. Install inboard of mo'o's (gunwales) curved section of i'ako's.
- E. MO'O's CAULKING
  - 1. Inside Hull
- F. INSTALL BOTH STARBOARD AND PORT SWEEPS

Workshop / Honolulu

Dec. 2, 1978

① STANCHION POST

- ✓ A - Cut to fit
- ✓ B - Drill + clew
- ✓ C - Notch top of post for rail
- ✓ D - Drill Post for lastine
- ✓ E - Sand Post / ~~for~~ FOR VARNISH
- ✓ F - LAB Post

② BIDGE PUMPS

- A - INSTALL / TEMPORARY FOR LINE UP MOUNTING SCREWS.
- B - Drill Holes + CAULK deck FOR SCREWS.
- C - MEASURE & cut Pump Hose
- D - install clamps (hose)
- E - CAULK + MOUNT PUMPS

③ BULK HEADS - FORE & AFT  
Starboard & Below Decks

- ✓ A - MEASURE & CUT, PLYWOOD TO  
Fit (IF BACKING IS NEEDED,  
install, glue & screws)
- ✓ B - CAULK, INSTALL bulk HEADS  
with BRASS SCREWS &  
(WINE NUTS, below decks)
- C -

④ LASTING

- ✓ A - Install inboards of  
MOJO'S (CANWALERS) CURVED  
SECTION OF IAKO'S.

⑤ MOJO'S CAULKING  
✓ INSIDE HULL

⑥ ✓ INSTALL BOTH STARBOARD &  
PORT SWEEPS

# POLYNESIAN VOYAGING SOCIETY

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

December 14, 1978

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GORDON PIANAIA

**TO:** BOARD OF DIRECTORS-POLYNESIAN VOYAGING SOCIETY  
**FROM:** CANOE COMMITTEE  
**SUBJECT:** WORK TO BE COMPLETED - HOKULE'A

**I. STANCHION POST**

- A. Sand
- B. Varnish (seven coats depending on weather)

**II. PUMPS**

- A. Install pumps

**III. SANDING**

- A. Both inside hulls
  - 1. Prep - final coat of ivory shell paint
  - 2. #220 sand paper
- B. Sand gunwales
  - 1. Prep - final varnish coat
  - 2. #220 sand paper
- C. Navigators platform - after safety rail/raise to match existing rail

**IV. STEERING PADDLES**

- A. Adjust safety lines to i'ako

**V. BULK HEADS - above decks**

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HOE AKU I KA WA'A

44

Page Two  
Work to be Completed - HOKULE'A  
December 14, 1978

- V.     BULKHEADS - above decks
  - A. Sand and prep for base coat
  - B. Four coats, ivory shell
- VI.    PUMP COVERS
  - A. Covers for pumps
  - B. Sand and prep - base coat
  - C. Four coats ivory shell
- VII.   LASHINGS
  - A. Complete lashing
  - B. Sheet line cleats - hope
- VIII.  GAFF AND BOOM
  - A. Mark for triesting lines
  - B. Sheet lines for boom
  - C. Gaff, final coat - spar varnish
  - D. Booms - seven coats

## STANCHION Post

A - SAND

B - VARNISH (7 COATS)

(Depositing on weather)

## Pumps

A - Inshore pumps

## SANDWICH

A - Both inside hulls

Prep for Final coat of

"Ivory shell" paint

#220 SAND PAPER

B - SAND Gun holes

PREP - Final Varnish coat

#220 S. P.

NAVIGATORS Platform

AFTER Safety Rail / LASSIE

to install existing Rail.

## STEERING PARADOLUS

A. ADJUST safety lines to 1'AKO

## BULK HEADS

### ABOVE decks

Sand + Prap for base coat  
4 coats, "Ivory shell"

## Pumps covers

~~in preparation~~ covers for  
pumps -

Sand + prap - base coat  
4 coats "Ivory shell"

## Lashings

Complete lashing - cleats  
SHORT line cleats - "HoPE"

• CAFF & BOOM

MARK FOR TRUSSING LINES,  
SHORT LINES FOR BOOM

CAFF, FINAL COAT - "SPAR  
VARNISH

BOOMS - SEVEN COATS

Work to be done  
Dec. 9 & 10, Sat & Sun.)

\* Varnish depends on weather



# POLYNESIAN VOYAGING SOCIETY

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

December 12, 1978

*also  
filed under  
Hokule'a  
activities*

## PRESIDENT

MICHAEL A. TONGG

## VICE PRESIDENT

JO ANNE STERLING

## TREASURER

ANTHONY GUERRERO, JR.

## SECRETARY

RENEE MILLER

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ED KEALANAHELE,

REVEREND

JOHN KRUSE

FRANCIS KAINOA LEE

GORDON PIHANAIA

TO: POLYNESIAN VOYAGING SOCIETY  
BOARD OF DIRECTORS

FROM: CANOE COMMITTEE

SUBJECT: WORKSHOP/HOKULE'A  
December 2 and 3, 1978

The following is an outline of the work that needs to be done on Hokule'a for the above weekend.

- A. STANCHION POST
1. Cut to fit
  2. Drill and dowel
  3. Notch top or post for rail
  4. Drill post for lashing
  5. Sand post/prep for varnish
  6. Lash post
- B. BILGE PUMPS
1. Install/temporary for line up mounting screws
  2. Drill holes through deck for screws
  3. Measure and cut pump hose
  4. Install clamps (hose)
  5. Caulk and mount pumps
- C. BULK HEADS - FORE AND AFT ABOVE AND BELOW DECKS
1. Measure and cut, plywood to fit (If backing is needed, install, glue and screw)
  2. Caulk, install bulkheads with brass screws and wing nuts, below decks.)

HAWAII



TAHITI

BICENTENNIAL VOYAGE OF REDISCOVERY  
HOE AKU I KA WA'A

Page Two  
WORKSHOP/HOKULE'A December 2 and 3, 1978  
December 12, 1978

- D.     LASHING  
1.    Install inboard of mo'o's (gunwales) curved  
       section of i'ako's.
- E.     MO'O's CAULKING  
1.    Inside Hull
- F.     INSTALL BOTH STARBOARD AND PORT SWEEPS

## Canoe Committee Meeting 1-11-79

Attended by

4. Renee Miller
8. Leon Sterling
7. Jo-Anne Sterling
5. Buddy McGuire
6. Gordon Punaia
2. Dave Lyman
3. Marion (Lyman) - ? Mueseneau
9. Michael Torgg
1. Wallace Frobiseth

### Items of discussion

① Annual Budget (attached)

② Two Year Schedule (attached)

③ List of Captains (attached)

④ Request to Kamehameha Schools for use of shop facilities and storage - preparations for Tahiti voyage etc.

⑤ Costs of interisland trips estimated at \$150 dollars (food/fuel) one way.

⑥ Safety items being purchased.

⑦ Tests after receiving materials ordered and installed (line to complete rigging)

## Hobulea Two Year Schedule

1979

Jan - Completion - Test - CG Clearance

Feb-March - Kealahou Bay, Hawaii  
Cast Cooks Celebration

March-April-May - Navigational Research & Training

June - Windward Side Oahu - Haleiwa - Kualoa

July - Maui

Aug - Molokai

Sept - Kauai

Grant  
Program

Oct-Nov - Honolulu - Training Teachers P12

Dec-Jan-Feb - Windward side Oahu (Ranalo)  
(Possible Tahiti Voyage)

March - Annual Maintenance

April-May - Haleiwa

June-July - Maui, Kauai

Aug-Sept - Kahului Maui

Oct-Nov-Dec - Annual Drydock & Maintenance  
Preparation for Tahiti Voyage

1980

# Annual Maintenance Budget - Hobule'a

Vessel Supervisor 24,000.

Drydocking - One Week 1,000.

Paints, Caulking (8 gal top/w. - 3 gal Bottom/so. 600.

Assorted items - Water oil, Nails, screws wood 200.

Engine overhaul - fuel - oil - plugs etc 400.

Batteries - lights - flashlights - brungs cord etc 400.

Hatch cover gaskets - glue 100.

Sails - per set 1500. / 3 years 500.

## Running gear lines

$\frac{3}{8}$ " - 2400' - 1,680.  
 $\frac{1}{2}$ " - 1200' - 600.  
 $\frac{3}{8}$ " - 2400' - 720.  
 $\frac{1}{4}$ " - 2400' - 360.

3360. / 3 years 1120.

Lashing (clabos) 4800' - 1440. / 3 years 500.

Misc item replacement. 100.

Life jackets 20 - 18. 360 / 3 years 120.

Radio - V.H.F. 50.

Total

## List of Honolulu Captains

9. Gordon Piianaiia
7. Dave Lyman
8. Kimo Lyman
11. Leon Stirling
10. Norman Piianaiia
12. Nainoa Thompson
6. John Ruse
5. Buff Kealana
1. Abe Ahee
3. Sam Kalalan
4. Kauraka Kapahelehu
2. Wallace Irwin

# POLYNESIAN VOYAGING SOCIETY

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

## CANOE COMMITTEE MEETING

Thursday, January 11, 1979  
791 Sunset Avenue  
6:00 P.M.

### PRESIDENT

MICHAEL A. TONGG

### VICE PRESIDENT

JO ANNE STERLING

### TREASURER

ANTHONY GUERRERO, JR.

### SECRETARY

RENEE MILLER

### BOARD OF DIRECTORS

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SAM KAAI

HERB KAWAINUI  
KANE, M.F.A.

G. ZULU KAUHI

PO'OMAI KAWANANAKOA

ED KEALANAHELE,  
REVEREND

JOHN KRUSE

FRANCIS KAINOA LEE

GORDON PIIANAIA

### Attendance:

FROISETH, Wallace  
LYMAN, David  
MERSENEAU, Marion Lyman  
MILLER, Renee  
MCGUIRE, Buddy  
PIIANAIA, Gordon  
STERLING, Jo-Anne  
STERLING, Leon  
TONGG, Michael

### ITEMS OF DISCUSSION

- A. Annual Budget (Attached)
- B. Two Year Schedule (Attached)
- C. List of Captains (Attached)
- D. Need request to Kamehameha Schools for use of shop facilities and storage - preparations for Tahiti voyage, etc.
- E. Costs of interisland trips estimated at \$150.00 (food and fuel) one way.
- F. Safety items being purchased.
- G. Tests after receiving materials ordered and installed (line to complete rigging)

HAWAII



TAHITI

BICENTENNIAL VOYAGE OF REDISCOVERY  
HOE AKU I KA WA'A

521

Page Two  
Canoe Committee Meeting  
Thursday, January 11, 1979

A. ANNUAL MAINTENANCE BUDGET - HOKULE'A

Vessel Supervisor	\$24,000.00
Drydocking - One Week	1,000.00
Paints, Caulking (8 gallons top/25.00) (3 gallons bottom/50.00)	600.00
Assorted Items Watco Oil, Nails, Screws, wood	200.00
Engine Overhaul Fuel, Oil, Plugs, etc.	400.00
Batteries, Lights, Flashlights, Bungee Cord	400.00
Hatch Cover Gaskets Glue	100.00
Sails - per set (\$1,500.00 for three years)	500.00
Running Gear Lines 5/8" - 2400' - \$1,680.00 1/2" - 1200' - 600.00 3/8" - 2400' - 720.00 1/4" - 2400' - 360.00	1,120.00
TOTAL for three years \$4,360.00	
Lashing - Iakos - 4800' \$1,440.00 for three years	500.00
Miscellaneous Items Replacement	100.00
Life Jackets - 20 \$18.00 - \$360.00 for three years	120.00
Radio - V.H.F.	50.00
TOTAL	<u>\$29,090.00</u>



Page Three  
 Canoe Committee Meeting  
 Thursday, January 11, 1979

B. TWO YEAR SCHEDULE

1979	January	Completion, Test, Coast Guard Clearance
	February	Kealahou Bay, Hawaii
	March	Captain Cook's Celebration
	March	Navigation Research and Training
	April	Navigation Research and Training
	May	Navigation Research and Training
	June	Windward Side Oahu - Haleiwa - Kualoa
	July	Maui
	August	Molokai
	September	Kauai
1980	GRANT PROGRAM	
	October	Honolulu, Teacher's Training
	November	Pier 12
	December	Windward Side of Oahu (Kaneohe)
	January	(Possible Tahiti Voyage)
	February	
	March	Annual Maintenance
	April	Haleiwa
	May	Haleiwa
	June	Nawiliwili, Kauai
	July	Nawiliwili, Kauai
	August	Kahului, Maui
	September	Kahului, Maui
	October	Annual Drydock and maintenance
	November	Preparation for Tahiti voyage
	December	Preparation for Tahiti voyage

Page Four  
Canoe Committee Meeting  
Thursday, January 11, 1979

C. LIST OF HOKULE'A CAPTAINS

AHEE, Abraham  
FROISETH, Wallace  
KALALAU, Sam  
KAPAHULEHUA, Kawika  
KEALANA, Buffalo  
KRUSE, John  
LYMAN, David  
LYMAN, Kimo  
PIIANAIA, Gordon  
PIIANAIA, Norman  
STERLING, Leon  
THOMPSON, Nainoa

# POLYNESIAN VOYAGING SOCIETY

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

COAST GUARD TESTING  
HOKULE'A  
Wednesday, January 31, 1979  
PIER 4

## PRESIDENT

MICHAEL A. TONGG

## VICE PRESIDENT

JO ANNE STERLING

## TREASURER

ANTHONY GUERRERO, JR.

## SECRETARY

RENEE MILLER

## BOARD OF DIRECTORS

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KANE, M.F.A.

G. ZULU KAUIHI

PO'OMAI KAWANANAKOA

ED KEALANAHELE,  
REVEREND

JOHN KRUSE

FRANCIS KAINOA LEE

GORDON PIANAIA

## I. ATTENDANCE

### Polynesian Voyaging Society

FROISETH, Wallace

JAKUBENKO, Alex

KAUKA, Kaipo

SOMSEN, Steve

STERLING, Leon

STERLING, Jo Anne

TONGG, Michael

M. Among

### United States Coast Guard

BENTLEY, Clay

LOVELAND, Woody

SHOCKLEY, Jim

## II. INVENTORY ON HOKULE'A DURING TESTS

Life Preservers

Gas

Pump

Anchor

Buoy Rings - 2

Line

## III. PURPOSE AND REASON

(As told to M. Among by Woody Loveland)

Purpose: Damaged stability test

Reason: To make sure that Hokule'a is safe and seaworthy. We will take measurements of both her starboard and port hulls before and after the tests. To test her under the worst conditions, that is, with one complete hull flooded. This is the practical application test, all the mathematical calculations have been done.

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BICENTENNIAL VOYAGE OF REDISCOVERY  
HOE AKU I KA WA'A

IV. SCHEDULE OF TESTING

8:15 A.M. Prayer by L. Sterling. Under motor, Hokule'a departs Pier 12.

8:30 A.M. Arrived at Pier 4 (Coast Guard Station) where Hokule'a was tied in front of Cape Corwin. Met by Woody Loveland and Coast Guard contingency.

8:56 A.M. W. Froiseth and J. Sterling dropped dinghy into water for marking of both port and starboard hulls. They were assisted by Woody Loveland.

9:17 A.M. Pump brought on board and starboard hatch openings number 4, 3, and 5 were flooded.

(To avoid confusion of numbering, I have called it hatch openings instead of compartments, and I counted forward going aft on Hokule'a.)

9:42 A.M. Completed flooding of hatch opening 3, 4, & 5.

Measurements were taken of both port and starboard hulls by Woody Loveland. All persons on board left the vessel while measurements were taken.

10:00 A.M. Flooded hatch openings 2, 1, 7, and 6 on starboard hull.

10:08 A.M. Measurements were taken with all hatches flooded by Woody Loveland. Note: One individual with the Coast Guard remained on board while measurements were being taken.

Immediately following the flooding of the starboard hull, a halyard line was attached to the top of the mast and pulled at a 45 degree angle on the starboard side of Hokule'a.

Purpose: (As told to M. Among by W. Loveland) To test stability of vessel in one hull. Coast Guard calls it the "seat of the pants" test.

10:15 A.M. Second pump brought on board to enable faster discharge of water.

10:23 A.M. W. Froiseth began pumping out water from number 7 hatch opening. Took a total of 13 minutes.

Note: Hose keeps bouncing off bottom. Needs to be placed at a 45 degree angle.

J. Sterling pumping number 1 dry, while K. Kauka and Coast Guard pumping out 3, 4, 5, and 6.

10:42 A.M. All hatch openings pumped dry.

Hokule'a was motored back to Pier 12, where her compartments were wiped dry and she was put back in order to rest and recuperate from the ordeal.

MATERIALS - SAFETY AND EQUIPMENT  
January 1979

(Received and stored by W. Froiseth)

<u>AMOUNT</u>	<u>ITEM-MODEL DESCRIPTION</u>
2	EPiRB's Class "B" - 200 to 300 mile range Model ACR/RLB-12 (Batteries not connected)
4	Automatic Anchor Lights - Model 452. One Battery
2	Beam guns - Model ACR/L-6 1/4 mile range, no batteries, one lamp cracked
2	Fire Extinguishers - Model 2A105A. Fully charges. Super 210S, Tri-Class, Dry Chemical, Nos. - CK 520743, CK520754 with brackets.
7	Police or Signal whistles - Perko #349 - Plastic
1	Falcon Commander 3 Air Horn with 3-14 gas cans
2	Man Overboard Strobe Lights (no batteries) (Need 2-6V screw type)
1	2 Tube Chart holders - Plastic - One Chart of each Hawaiian Island included (8)
3	Icarus - Hand held rocket propelled parachute. Red Flare Distress Signals
1	Mayline Parallel Rule - No. 5502
6	Water Dye Markers (Olim)
1	Distress Flag (Plastic - Olim 24" x 24" Int. Orange)
2	Flags 2' x 3' (1 Hawaiian, 1 U.S.)
2	Books for logs - Minning Transit #82-0030 KDE Water Resistant
1	Hand Held Anemometer - Model BT Serial 573 (Sims #78783)
1	Hand Bearing Compass - "Mini Compass" in wood box. Tritium gas capsule-Offshore Instrument Ltd. - Cowes, Isles of Wight
2	Sails with bags (Main and misson)

60

Page Two  
MATERIALS - SIBETY AND EQUIPMENT

Stored on Hokule'a

<u>AMOUNT</u>	<u>ITEM-MODEL DESCRIPTION</u>
2	Rihggbuys on Hokule'a
20	Life Jackets
2	Anchors with chaingand 600' line

March 7, 1979

CANOE COMMITTEE

Revised Two Year Schedule  
Hokule'a

1979	January	Completion Test, Coast Guard Clearance
	February	Refurbishing
	March	Preparation for Training Program
	March	Navigational Research and Training
	April	Navigational Research and Training
	May	Navigational Research and Training
	June	Windward Side of Oahu - Kualoa North Shore - Haleiwa (June 15, 16, 17 Workshop at Camp Mokule'a)
	July	Maui
	August	Molokai
	September	Kauai
	GRANT PROGRAM	
	October	Honolulu Teacher's Training
	November	Pier 12
	December	Windward Side of Oahu - Kaneohe
1980	January	Windward Side of Oahu
	February	Windward Side of Oahu (Possible Tahiti Voyage)
	March	Annual Maintenance
	April	Haleiwa
	May	Haleiwa
	June	Nawiliwili, Kauai
	July	Nawiliwili, Kauai
	August	Kahului, Maui
	September	Kahului, Maui
	October	Annual Drydock and Maintenance
	November	Preparation for Tahiti Voyage
	December	Preparation for Tahiti Voyage

# POLYNESIAN VOYAGING SOCIETY

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

March 2, 1979

**PRESIDENT**  
MICHAEL A. TONGG  
**VICE PRESIDENT**  
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**TREASURER**  
ANTHONY GUERRERO, JR.

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RENEE MILLER  
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PO'OMAI KAWANANAKOA  
ED KEALANAEHELE, REVEREND  
JOHN KRUSE  
FRANCIS KAINOA LEE  
GORDON PIAANAIA

TO: BOARD OF DIRECTORS  
FROM: CANOE COMMITTEE  
SUBJ: PROGRESS REPORT - HOKULE'A

Saturday  
February 24, 1979

At 0810, Hokule'a left Pier 12 for Keehi Drydock with W. Froiseth, L. Sterling, J. Sterling, Elizabeth Lima, and Pamela Loretta aboard.

Upon arrival at Keehi Drydock, Alex Jakubenko and one yard worker supervised Hokule'a's haul out.

The first coat of bottom paint was applied to the hulls after they were cleaned of algae, barnacles and sanded. A. Guerrero and N. Thompson were present at this time.

Sunday  
February 25, 1979

The second coat of bottom paint was applied.

The la hope, gaff, and boom were delievered to Keehi Drydock from Kamehameha School with Alex Jakubenko's truck. Sails were fitted, halyards and triesting lines were made ready.

Third coat of bottom paint applied. La hope, gaff and boom are now in place.

Canoe launched at 1645 hours and departed for Pier 12 at 1715 hours with arrival at 1750 hours.

N. Thompson, D. Panahpour, J. Sterling, L. Sterling were present for Sunday's operation.

Note: \$118.25 was spent for paints, brushes, rollers, sandpaper. Through the efforts of Alex Jakubenko, the PVS was not charged for the drydocking facilities at Keehi.

HAWAII



TAHITI

BICENTENNIAL VOYAGE OF REDISCOVERY  
HOE AKU I KA WA'A

63



Page Two  
Canoe Committee Progress Report  
March 2, 1979

Saturday  
March 2, 1979

Bent sails, main (ihu) and missen (hope)  
gaff and boom

Took measurements for sheet lines and  
prepared temporary sheet lines. Sailed  
Hokule'a to test the sails and sheet lines.  
(She was sailed straight out of Honolulu  
Harbor - tacked out and back)

Tested VHF radio - operable

Fifteen individuals participated in Saturday's  
event.

64

Leon

Date: March 20, 1979

From: Leon A. P. Sterling, Canoe Chairman

Subject: Hokule'a's participation in the Maritime Week  
Memorial Sailing - Sponsored by the Propellar  
Club of the United States.

CAPTAIN: James "Kimo" Lyman  
First Mate: Leon A. P. Sterling

Crew: Kauka, Kaipo  
Lau, Kahala  
Stroup, Dixon  
Mersebau, Marion  
Bell, Wailani  
Liljestrand, Robert  
Marullo, Gerry  
Johnson, Larry  
Miller, Renee  
Miller, Phil  
Muller, Jerry  
Woodward, Ralph  
Lyman, Molly  
Stroup, Mike

Total members: 14

Departure: 1400 from the bridge

1405 under sail from Honolulu Harbor  
1520 abeam natatorium  
20 MPH Wind  
SEas 3'  
1530 came about  
1610 Power boats made a circle  
1604 came about  
1616 came about, sailing towards power boat,  
circle on a close reach  
1625 leis over  
1723 all secured at pier #12  
1726 M. Mersebau's leg went through the puka  
on the port side.

68

M E M O R A N D U M

June 27, 1979

TO: BOARD OF DIRECTORS  
STEERING COMMITTEE

FROM: LEON STERLING, Acting Chairman  
Canoe Committee

SUBJ: LIST OF ITEMS THAT HAVE NOT BEEN COMPLETED ON  
HOKULE'A

SAILS:

Complete the sheet lines and bridles on the booms.

Attach the safety lines to the mast. These lines hold the mast and gaff together.

La Hope sail must be rerigged to the boom. The sail might have to be cut at the top because of the pressure on the gaff.

Splash Guards must be installed and checked for a tight fit.

WOOD:

Replace the bamboo on the deck. The deck needs oil.

Install the navigators platforms with new wood.

Reseal flush decks on both hulls.

Complete the decking on the iakos, out board of the hulls.

Sand and varnish all areas that show wear.

Make new line guides and attach them to the masts just below the yokes.

Install duck boards and shelves in the compartments.

LASHINGS:

Check all lashings for stretch. Relash as soon as possible - steering paddles, stanchion posts, safety rails, hale.

MEMORANDUM: ~~UPDATE~~ ITEMS THAT HAVE NOT BEEN COMPLETED ON HOKULE'A  
Page Two  
June 27, 1979

LASHINGS: (continued)

Remove the lashings from one of the iakos and send it to the manufacturer for testing, and replace with new line.

Drill new holes in moo's for lashing of the splash guards.

HALE:

Lauhala is ~~needed to cover the~~ ~~hale~~. Larry Johnson has made the contact for the lauhala mats.

A new hale has to be made for the galley, and items purchased to equip the galley.

17 May 1979

To: Board of Directors, Polynesian Voyaging Society  
From: Canoe Committee (acting Chairman)

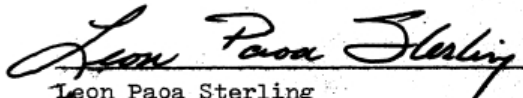
Please let this letter serve as a formal proposal to the Board of Directors of the Polynesian Voyaging Society for the continued use of the Hokule'a after June 1st, 1979 by Nainoa Thompson in order to achieve the following objectives:

1. The continuation of a program to develop proper safety procedures at sea.
2. The further accumulation of canoe performance data.
3. The development of an on-board navigational training and research program.

We are grateful for the use of the Hokule'a during the months of March, April, and May of 1979 to achieve these stated objectives. However, we have found that the objectives could not be met satisfactorily in that time frame. It was felt that in order to fully realize our goals, a program of continued use of the Hokule'a would be necessary.

We feel that all the Board Members will agree that the voyage to Tahiti using the techniques of non-instrument navigation is a serious under-taking. We hope that the Board Members will understand the need for regular and continued research and training in this area.

We understand that crew training and other programs such as workshops will begin sometime after June 1st. We would request that the Hokule'a be made available for the objectives outlined above when such use does not conflict with any other scheduled activity..

  
Leon Paoa Sterling  
Acting Chairman, Canoe Committee

Date: ~~March~~ <sup>May</sup> 20, 1979

From: Leon A. P. Sterling, Canoe Chairman

Subject: Hokule'a's participation in the Maritime Week  
Memorial Sailing - Sponsored by the Propellar  
Club of the United States.

CAPTAIN: James "Kimo" Lyman  
First Mate: Leon A. P. Sterling

Crew: Kauka, Kaipo  
Lau, Kahala  
Stroup, Dixon  
Mersebau, Marion  
Bell, Wailani  
Liljestrand, Robert  
Marullo, Gerry  
Johnson, Larry  
Miller, Renee  
Miller, Phil  
Muller, Jerry  
Woodward, Ralph  
Lyman, Molly  
Stroup, Mike

Total members: 14

Departure: 1400 from the bridge

1405 under sail from Honolulu Harbor  
1520 abeam natatorium  
20 MPH Wind  
SEas 3'  
1530 came about  
1610 Power boats made a circle  
1604 came about  
1616 came about, sailing towards power boat,  
circle on a close reach  
1625 leis over  
1723 all secured at pier #12  
1726 M. Mersebau's leg went through the puka  
on the port side.

# POLYNESIAN VOYAGING SOCIETY

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

## CAPTAIN'S CHECKLIST

The Captain is responsible for Hokule'a and all personnel. This list is to assist him/her to ensure the safety of the vessel and her crew. After checking each item, the Captain must sign on the last page of this form.

### I. PREDEPARTURE CHECK LIST

- ☒ A. Crew picked, informed on sail, and ready.
- ☒ B. All personnel informed on time of departure, estimated voyage time, and estimated time of arrival.
- ☒ C. Inform all personnel to arrange for own transportation home after arrival.
- ☒ D. Arrange for tow boat if needed, *1645*
- ☒ E. Approval obtained and arrangements made for anchorage.
- ☒ F. Arrange for Kahu to perform pule.

### II. HOKULE'A AND EQUIPMENT

- ☒ A. Hulls okay - no damage
- ☒ B. All compartments completely dry
- ☒ C. Two anchors and anchor lines (for bow and stern)
- ☒ D. Four pumps, one in each end compartment (check if working) and two spares.
- ☒ E. Two hand buckets and two hand bailers

~~1 BUCKET~~

HAWAII



TAHITI

BICENTENNIAL VOYAGE OF REDISCOVERY  
HOE AKU I KA WA'A

73

Page Two  
CAPTAIN'S CHECKLIST

II. HOKULE'A AND EQUIPMENT (continued)

- ☒ F. Four securing lines, one in each end compartment and two fore and aft spring lines mid ship #4.
- ☒ G. Running Lights - one red/green, one white (check if *Nav. comp* working) and anchor light - extra batteries and bulbs *Star #5*
- NONE H. Repair equipment (chaffing gear, sail patch kit, two knives, black tape, spare small line, batteries for light) in #4 port hull compartment. Wood and tools.
- NONE I. Inspect towing bridel, both line and iako.
- NONE J. Tow line in forward hatch (Not anchor line)
- ☒ K. Inspect sails for holes, chaffing. Repair if needed.
- ☒ L. Inspect all running gear - stays, shrouds, sheet lines, tec., for secure ties and wear.
- ☒ M. Open up both sails, check all lines, trice up if all clear.
- ☒ N. Inspect outboard motor, mount, and check if sufficient fuel. *Gas - 100 OIL*
- NONE O. Regular paddles - at least six on board.
- ☒ P. Two steering paddles and center sweep, all operational.
- NONE Q. Two secondary steering paddles, all operational.
- ☒ R. *1 BROKE 3 LOOSE*  
Check all rails - all securely tied down.  
*RETIED AFTER STANTION POST - 2 PORT 2 STAR*
- ☒ S. All hatch covers closed and cords secured to covers.
- NONE T. Four hand light (flashlight) - operational with extra battery and bulbs, two D cell and two GV spotlights.
- NONE U. Foul weather gear
- NONE V. Sleeping bags if needed.

III. SAFETY EQUIPMENT

- ☒ A. Life Jackets (one per person, stored in each compartment two per compartment located in 2, 3, 5, and 6-total 16)  
*20 & 4 PORT*



Page Three  
CAPTAIN'S CHECKLIST

III. SAFETY EQUIPMENT (continued)

- ☒ B. First Aid Kit #5 STAR
- ☒ C. Fire Extinguishers - 2 #5 PORT #5 STAR
- ☐ D. All safety and survival equipment - ~~SOME~~  
No RADAR or EPIRB

IV. SUPPLIES

- ☒ A. At least twenty gallons fresh water on board. - 10 GAL.
- ☒ B. Food - sufficient for trip
- NONE C. Fishing gear

V. PERSONNEL ON BOARD HOKULE'A

- NONE A. Waivers signed by each person on board.
- ☒ B. Inform all personnel - No alcoholic beverages and illegal drugs while under sail.
- ☒ C. Instruct all persons on man overboard procedures.
- ☒ D. Make sure everyone knows where life jackets and medical kit located.
- ☒ E. Responsibilities - establish watches and steering with length of time for shifts.
- ☒ F. Check to see that each person on board can swim.

VI. ARRIVAL CHECK LIST

- ☒ A. Assign watch while Hokule'a is at anchor.
- ☒ B. Account for all equipment before leaving Hokule'a.
  - ☒ 1. Three sweeps
  - NONE 2. Two steering paddles
  - NONE 3. All regular paddles
  - ☒ 4. All life jackets

Page Four  
CAPTAIN'S CHECK LIST

VI. ARRIVAL CHECK LIST (continued)

- ☒ 5. Two anchors and anchor lines
- ☒ 6. Six pumps
- ☒ NONE 7. Tow line
- ☒ NONE 8. Hand lights
- ☒ 9. Fire extinguisher, safety survival equipment
- ☒ C. Secure all equipment in locked hatch; i.e., running lights, first aid kit, and other small gear located #5 port and starboard.
- ☒ D. Report unusual incidents immediately (damage, personnel, loss, etc.) BROKEN STATION & BAMBUR (A) #5 PORT
- ☒ E. Put all gear possible in hatches.
- ☒ F. Trist sails - lower spars - lower or raise masts where needed.
- ☒ G. All anchors and/or lines secured properly for all weather conditions.
- ☒ H. Boat and all hatches cleaned and hatches pumped dry.
- ☒ I. Close all hatch covers.
- ☒ J. Report arrival - Call Canoe Committee Chairman
- ☒ K. Mail this report along with a copy of the ship's log to the office and include waivers.

I or my first mate have personally checked all items above and affix my signature to attest to this fact.

Signed: Ken Lyman  
Captain

Leon Pava Stely  
First Mate

Date: May 20 1979

Date: May 20 1979

Location: Los Angeles

Arrival Time: \_\_\_\_\_

Date: May 20 1979

1980 - canoe prep  
moving to the island  
on Hokule'a

M E M O R A N D U M

June 27, 1979

TO: BOARD OF DIRECTORS  
STEERING COMMITTEE

FROM: LEON STERLING, Acting Chairman  
Canoe Committee

SUBJ: LIST OF ITEMS THAT HAVE NOT BEEN COMPLETED ON  
HOKULE'A

SAILS:

Complete the sheet lines and bridles on the booms.

Attach the safety lines to the mast. These lines  
hold the mast and gaff together.

La Hope sail must be rerigged to the boom. The  
sail might have to be cut at the top because of  
the pressure on the gaff. \* *Maybe new sail if not so  
much cut - more sail area on back sail*

Splash Guards must be installed and checked for a  
tight fit. \* *Some on now*

WOOD:

Replace the bamboo on the deck. The deck needs oil.

Install the navigators platforms with new wood.

\* \* Reseal flush decks on both hulls.

Complete the decking on the iakos, out board of the  
hulls.

Sand and varnish all areas that show wear.

? Make new line guides and attach them to the masts  
just below the yokes.

Install duck boards and shelves in the compartments.

LASHINGS:

\* \* Check all lashings for stretch. Relash as soon as  
possible - steering paddles, stanchion posts,  
safety rails, hale.

77

MEMORANDUM: LIST OF ITEMS THAT HAVE NOT BEEN COMPLETED ON HOKULE'A  
Page Two  
June 27, 1979

LASHINGS: (continued)

*OK* Remove the lashings from one of the iakos and send it to the manufacturer for testing and replace with new line.

Drill new holes in moo's for lashing of the splash guards.

HALE:

Lauhala is needed to cover the hale. Larry Johnson has made the contact for the lauhala mats.

A new hale has to be made for the galley, and items purchased to equip the galley.

MEMORANDUM

June 28, 1979

TO: LEON STERLING, Acting Chairman  
Canoe Committee

FROM: MAR

SUBJ: BISHOP MUSEUM/NORTHERN ILLINOIS UNIVERSITY

As discussed, I have confirmed with Pat Edmondson, Education Department, Bishop Museum the use of HOKULE'A for:

DATE: Monday, July 9, 1979

TIME: 2:30 P.M.

PLACE: Pier 12

GROUP: BISHOP MUSEUM/NORTHERN ILLINOIS UNIVERSITY

PAX: 30

REMARKS: The group will meet at Pier 12 and requests only a one to two hour sail.

Pat Edmondson has been informed of the policy that whoever goes on board Hokule'a must be a member of the Society and sign a "Release from Liability" form. These forms have been sent to her along with the membership forms.

The group will also be making a donation to the Society along with the membership fees.

In case of bad weather would it be possible to arrange for a canoe orientation in place of the sail?

Leon, please let me know if you need further information or require any assistance.

Mahalo for your help.

*Mar*

cc: Michael Tongg  
✓ Gordon Piianaia  
Jan Dill

attachment (1)



**BISHOP MUSEUM ASSOCIATION**

BERNICE P. BISHOP MUSEUM P.O. BOX 6037  
HONOLULU, HAWAII 96818, TELEPHONE 847-3511

June 7, 1979

Board of Directors  
Polynesian Voyaging Society

Re: Use of Hokule'a

Gentlemen,

I am planning a portion of an Hawaiian field study project for 25 students from Northern Illinois University during the month of July. To be able to start this program with Polynesian voyaging and the Hokule'a would not only be the perfect but the very logical beginning for their studies.

Would your schedule permit having the Hokule'a at Kualoa Park on Monday afternoon, July 9? The participants would, of course, join the Society at \$2.00 per membership and would also like to make a contribution.

I look forward to hearing from you.

Most sincerely,

Pat Edmondson  
Education Department  
Bishop Museum

202 - 0335

June 12, 1979

To: Board of Directors

From: Leon P. Sterling, Canoe Chairman

Subject: Inventory, USCG Testing, Proposal/Bishop Museum

INVENTORY

1. Nainoa Thompson
2. Inventory turned over to Capt. Buff Keaulana
3. Inventory on return from Waianae
4. Present inventory on the canoe

5. Missing items (1 30" O ring bouy 40.00  
1 hand held strobe light 60.00

*ON THE DATE*

*Capt. Keaulana took  
OVER THE VESSEL THERE.  
ONLY 1 O-RING PRA*

UNITED STATES COAST GUARD

June 12 (Tues) testing done on the scuppers holes

*DISCOVERED 1 3/4" CT LOUCLAND O.K.*

PROPOSAL

Pat Edmundson, Bishop Museum (recommendation: Pier 12)

CANOE COMMITTEE REPORT

*Title:*

*Canoe Committee*

CAMP MOKULEIA WORKSHOP

Friday, June 15, 1979 to Sunday, June 17, 1979

The voyage will be extended for the benefit of non-instrument navigation both going to Haleiwa and return. Canoe performance and testing will be done.

**\*\*Note:** On Saturday, June 16, 1979, Hokule'a will be used for orientation for the Board of Directors attending the workshop.

HO'I ANA I KE KAI (Waianae Coast Pilot Project)

Depart Honolulu Harbor on Sunday, May 27th for Pokai Bay. Buffalo Keaulana has been contacted and the crew has been confirmed for the trip to Pokai Bay.

Return Honolulu Harbor, Pier 12 on Saturday, June 2nd. Crew Selection for the return trip is in the process of being finalized due to the availability of personnel.

5/17/79 mar

82



TO: Board of Directors

FROM: Leon P. Sterling, Canoe Chairman

SUBJECT: USCG Testing

METHOD: Test consisted of plugging of the freeing ports in the port hull, then filling the hull with water up to the top of the iako's. The plugs are removed, and the time taken to see how long it takes to drain, from the flush deck.

FORMULAR:

HULL - 42' long - 40" wide - 15" deep

42x12x40x15  
231 cubic " per gal  
1,309 gallons

14.54 gal per sec.  
870 gal per min.

Scuppers of freeing ports

19 2" holes  
11 2½" holes

Total area 113.7 sq. in per hull

During the test number 4 hatch leaked due to a chaffed gasket. Water in the compartment was up to the second stringer, none of the other hatches leaked

Pump was supplied by the USCG

Present:

USCG representative  
Leon P. Sterling  
Gordon Pitania  
JoAnne K. Sterling

ILLEGIBLE

June 13, 1979

Polynesian Voyaging Society  
P.O. Box 6037  
Honolulu, Hawaii, 96818  
Mr. Michael Tongg, President

Dear Mike,

I have been in contact with Mr. John Kaupiko, Chairman of the 1979 Molokai - Oahu canoe race, to be held on Sunday September 29, 1979.

Mr. Kaupiko extends an invitation for the Hokule'a to participate in this event, primarily at the finish line fronting Fort De Russy.

I felt that this letter of recommendation for the above be presented at this time for approval, Mr. Kaupiko will follow with a letter to the board.

Sincerely,

*John H. Sterling*

To: Board of Directors  
Steering Committee  
From: Leon A.P. Sterling

Subject: Maintenance on the Hokule'a

August 4, 1979

Present at Pier #12: Captain Gordon Piiania  
Leon Sterling  
Steve Somsen  
Joanne Sterling  
Tava Taupu (from Kona)  
Buddy McGuire  
Heather Vannatta (7 yrs old)

1. Port and starboard compartments were completely unloaded of gear, scrubbed and washed for mildew.
2. Compartments checked for leakage, from the flush deck.
3. Re-lashed aft stanchion posts, also crossbeams from aft's manus.
4. Re-adjusted La Hope sail on the one part stay leading to the sheet lines.
5. Oiled all work work on the canoe with Watco oil.
6. Stripped Hale of its temporary covers.

Under Captain Gordon Piiania's authority, Joanne Sterling has to this date been working in putting together a master control inventory list.

Accomplished thus far:

1. Cleaned out the Kamehameha School club house, for storage of supplies and gear belonging to the canoe.
2. Purchased all items, needed for the galley.
3. Gathered all gear from Mr. Wallace Froiesth's home.
4. Inventoried all gear, including the balance at the club house.

By the end of next week, all supplies and gear will be situated at Kamehameha School.

To: Board of Directors  
Steering Committee

From: Leon P. Sterling  
Canoe Chairman

Subject: Canoe Report

*OK - H. P. Sterling 9/1/79*

Floatation Gear - Contacted several outlets for inner tubes,  
have secured eight (8) truck sizes.

Caulking - Checked and re-caulked inside the compartments.  
Starboard #3 and Port #3 still shows signs of water  
seepage. Caulking on the flush between the deck  
and hull is giving way due to age and fluxing of  
the hull.  
One bad section Port #4 top deck was repaired.

\* To correct the flush deck is a major operation,  
and would recommend that this project be done  
when the canoe is hauled out at the end of the  
year.

Flush Deck - A compound was used to the areas that were  
chafed or worn out.

Galley - Now in construction for storing the  
Propane stove and necessities to accommodate the  
crew on their meals.

Hale - "Tonga Trading Company" President, Mr. Mulikihaamea  
Matekitoga, graciously donated 4x3 matting to cover  
the hale. These pieces are now being sewn together,  
however it will not be used till the 1980 voyage, in-  
stead visque and plastic tarps will shelter the hale.

\*Note: Mr. Mulikihaamea Matekitoga  
Foreign Trade Port  
Pier #39  
96817

Letter of thanks....

Inventory - Canoe's gear has been stored at Kamehameha School  
Inventory master files have been established.

Mo'o's - Sanded and re-varnished Port side.

HOKULE'A  
WORKSHOP - PIER #12

DATE: September 15, 1979

LOCATION: Pier # 12

TIME: 8:00

Work Detail

- 1 - STEERING PADDLES  
Re-lash cradles - *Yes*  
Re-adjust safety lines - *Yes*
- 2 - STANCHION POSTS  
Re-lash post in the aft section
- 3 - CAULKING  
Iakos through the manus - *PAU*
- 4 - GASKETS  
Re-place all worn gaskets on hatch covers - *PAU - ONLY 4 COVERS TO REPLACE WITH RUBBER GASKETS.*
- 5 - SPLASH GUARDS  
Under the pola - *PAU*  
Inboard both hulls - *NELSON'S WAS NOT THROUGH WITH SPLASH GUARDS - PICK UP TUES.*
- 6 - PUMPS  
Secure intake hose for pumps in end compartments
- 7 - SCUPPER PLUGS  
Check all scupper plugs for fit for each compartments. Holes have to be drilled and a line attached. - *PAU*
- 8 - FLOATATION  
Inner tubes have to be inflated, secured in manus - *PAU*
- 9 - SHELVES AND DUCK BOARDS  
Sort and check for damages - *PAU*
- 10 - HALE  
Re-enforce the hale - *PAU*  
Secure canvas bunks -  
Cover with plastic covering - *PAU*
- 11 - HULLS  
Scrub hulls below the water line - *No*
- 12 - GALLEY  
Wash all new equipment, store - *PAU*
- 13 - COMPARTMENTS

(OVER)

Check for water  
Sort all equipment, place in proper compartments — PAU

14 - CANOE

Scrub down canoe — *YES*  
Wetco the deck, teardrops, iakos, mast steps, cross-  
beams running across the manus, travel plaques. — *N/O*

*K- REMOVED BARK FROM VIBES STANCHION POSTS -  
FOR NAVI PLATFORM.*

All members that will take part on this day, PLEASE bring your  
lunch and a cooler for soft drinks.

I would suggest that you also wear a hat or any type of pro-  
tective covering from the sun.

Leon Paoa Sterling  
Vessel Supervisor

*Notes: Letter of Mr. Aho:*

✓ ① *Mr. Riddle*

*96825*

*< FOR USE OF HIS SKIFF >  
IN WORK DETAIL ~~AND~~ THROUGHOUT  
THE WORK - FOR LASHING PURPOSES.*

② *Kamohamohala School*  
*ATTENTION: MR. RICHARD CHINE*  
*c/o MOTOR POOL*

*{ FOR USE OF TRUCK TO + FROM  
TRANSFERRING boom + gaff.  
+ 4 inner tubes.*

③ *Art Nelson's Sailmaker*  
*ATT: Sonny Nelson + STAFF*

*{ In his prompt response to  
the re-adjustments to the  
La Hope Sail.*

④ *CRATIC Aiwoti*

*{ Donations of 10 inner  
tubes - use for  
floatation. (will call you on  
address)*

⑤ *Roy's Kam Center Services*  
*STATION - TERACO*

*ATT: ROY'S IZAKI:*

*{ FOR NOT CHARGING <sup>US</sup>  
FOR REPAIRS TO INNER TUBES -  
The only chg. was labor.*

*94*

## HOKULE'A WORKSHOP

September 15, 1979

SIGN-UPSHEET

1. Leanne Steeling -
2. Leon Stephens -
3. Buddy McGuire -
4. ~~Shirley Park~~ -
5. ~~William Messer~~ -
6. ~~Marlene Amory~~ -
7. ~~Iseldina Manello~~ -
8. Steve Somsen -
9. Michael A. Tongg -
10. Nathan Wang -
11. Kolo BARBER
- 12.
- 13.
- 14.
- 15.



To: Board of Directors, Steering Committee

From: JoAnne K. Sterling, Board of Director, Inventory Controller

Subject: Hokule'a's Operating and Expense Format

Below are called "Store Titles", the following will explain the meaning of these titles and give information which will assist men in taking proper care of articles and stores placed in their custody.

Quartley or yearly operative costs, will project our over-all expense to maintain Hokule'a. Vessel allotments for "Store Titles", will bring a better understanding of monies designated to these Titles.

#### GENERAL INFORMATION ON STORE TITLES

##### TITLES A

First cost of Hokule'a

Titles A - Articles on board, therefore, are the hull, machinery, and all permanent fittings.

##### TITLES B

Ships equipage, or articles which make the canoe manageable, habitable, and serviceable as a vessel, special tools, etc.

##### TITLE C

Operating expense

This includes pay of vessel supervisor, or crew, value of rations, stationary, paints, gas and oil, other expense incidental to the maintenance of the canoe.

##### TITLE D

All repairs

That is repair to Title A Articles and repair to canoe's equipment, repairs to machinery ashore, including the floating dock at Pier #12.

##### TITLE E

Modification to the vessel.

##### TITLE F

These are stores carried by the supply officer and, when issued become Title C.

### Vessel Allotments

Assigned allotments of a certain amount of money each quarter, whatever it may be for the use in the up-keep, repair and operation of the vessel. This allotment is expended under Titles B through F.

#### Example:

The vessel supervisor has an allotment for the quarter of a specified amount. Which ever Title he has draw from, these items are charged against and must be paid for out of his ALLOWED ALLOTMENT.

Vessel allotments should be handled by the Vessel Supervisor, in the event of a long voyage or inter-island sail, Titles can then be assigned to qualified crew members.

CANOE HOKULE'A'S OPERATING EXPENSE

August through September 10, 1979

TITLE C

Operating Expense

Inventory

- a - Cardboard file
- b - Labels, pencils, inventory sheets  
folders, accountants work pad

38.22

TITLE C

Maintenance

- a - Brushes, buckets, watco oil, thinner  
sandpaper, contact cement, liquid  
carpet, paints, glue, caulk
- b - Patch kit, nipples, capes

246.81

TITLE C

Galley

Construction and materials

- a - Plywood, nails, glue, hinges,

248.03

Operating Supplies

- a - SS stock pots, SS bowls, coffee cups,  
serving spoons, forks & spoons, frying  
pans, knives, ladles, tongs, can openers,  
hot pots, etc..

522.27

TITLE D

Repairs

#40 HP Johnson Engine

8.27

ILLEGIBLE

98

Expenditures:

Operating expense

Title C

• Inventory	38.22
• Maintenance	246.81
Galley (Construction)	248.03
Galley (Operational)	522.27

Title C - Total 1,055.33

Title D

Repairs - machinery	8.27
---------------------	------

Title C & D -Total 1,0636.60

M E M O R A N D U M

October 17, 1979

TO: BOARD OF DIRECTORS  
FROM: LEON P. STERLING  
SUBJ: CANOE REPORT

A workday was scheduled for Hokule'a on September 15, 1979 and the following work was completed:

- Steering Paddles - relashed cradles  
readjusted safety lines
- Caulking - Iakos through the manus
- Gaskets - prep work completed on four hatch covers
- Splash Guards - placed under the pola
- Scupper Plugs - holes drilled and line attached to  
scupper plugs and fitted for each compartment
- Floatation - inner tubes inflated and secured in manus
- Shelves and Duck Boards - sorted and checked for damages
- Hale - re-enforced and covered with plastic
- Galley - washed all new equipment and stored
- Compartments - sorted allequipment and placed in proper  
compartments
- Canoe - scrubbed down
- Removed bark from vivee stanchion posts for navigator's platform.

The following individuals participated in the workshop: Jo-Anne Sterling, Leon Sterling, Buddy McGuire, Stanley Park, M. Lyman-Mersereau, Marlene Among, Geraldina Marullo, Steve Somsen, Michael Tongg, Nathan Wong, Kolo Barber.