

Accession No.: 84-18

PROCESSING RECORD  
SCRIPPS INSTITUTION OF OCEANOGRAPHY ARCHIVES

---

Scripps Institution of Oceanography. Physiological Research  
Laboratory, Office of the Director, (Scholander)

SIO Physiological Research Laboratory, Office of the Director,  
(Scholander) Records, 1963-1970

Physical Description: 14 mss, 3 oversize pieces, audio recordings

Description: The collection consists of subject files, speeches, photos, correspondence files, expedition files, proposals, reprints, files on individuals and research notes of Per Frederik Scholander (1905-1980), Director of the SIO Physiological Research Laboratory. The collection also includes 7 scrapbooks. These were compiled by Scholander and include photographs documenting his participation in expeditions. One album was compiled by Mrs. Scholander and includes newspaper clippings, photos, Christmas cards and other material documenting Scholander's life, 1958-1966. The collection also includes 3 open reel audio recordings of Scholander lectures, an oversize portrait of Scholander by James Faughn, a rendering of the PRL building (now Scholander Hall), and a congratulatory message in Latin by Ralph Lewin presented to Scholander on his 60th birthday.

**SIO Physiological Research Laboratory  
Office of the Director (Scholander)  
Records 1963-1970  
Accession Number 84-18**

<b>Box</b>	<b>Folder Title</b>
	<b>Correspondence series</b>
1	To File
	To File
	Alfven, Professor Hannes USPHS HE 08323-08 R.E.
	Benson, Andy
	D'Aoust, Brian, Student, Seattle
	DNA 100,000 RPM SBS GB8343 National Science Foundation
	Desert Research Institute, Reno
	Douglas, Everett L., Student, NEL
	Elsner, Robert
	Enns, Theodore
	Forest Science Institute
	Franklin, Dean
	Franklin, Dean
	Frazer, Matthew, on "Karluk" - Cairns Bandurski Tape
	Glosten, Ships Architect, Seattle
	Hammond, D.D., Hong Kong
	Hammond, D. D. , Hong Kong
	Stephan Hales Prize - H.T. Hammel
	Hargens, Alan (CV & Correspondence) Student, V.A. Hospital
	Hargens, Alan (CV & Correspondence) Student, V.A. Hospital

**Box****Folder Title****Correspondence series (continued)**

- |   |   |
|---|---|
| 1 | Hargens, Alan (CV & Correspondence) Student, V.A. Hospital                  |
|   | Hemmingsen, Dr. Edvard A.   |
|   | Hills, Brian - Australia  |
|   | Irving, Laurence  |
|   | Jessee, Hed Student   |
|   | Johansen  |
| 2 | Kerem, Student, Israel  |
|   | Kerem, Student, Israel  |
|   | Kerem, Student, Israel  |
|   | Krog, Hildur, Hon Degree Alaska   |
|   | Mordy, Wendell Allen, C.V.  |
|   | Murrish, David reprints   |
|   | Perez, Manoel, Brazil   |
|   | Piddington, Robert (Bob) W., Student, Australia                             |
|   | Prize for Vacquier, 1963  |
|   | Rahn, Hermann   |
|   | Scripps, Ellen Browning   |
|   | Schmidt, Nielsen  |
|   | Scholander, F.W.  |
|   | Scholander, P.F., Curriculum Vitae [add to box 1 Scholander Papers in IGPP] |
|   | Steen, Johan B. and Harold, Students, Norway, Academic File                 |
|   | Suess, Hans Edvard  |

**Box****Folder Title****Correspondence series (continued)**

- 2 Van citters, R. Dean, University of Washington, Med. School  
Vlasnoff, Vince  
Wells, J. Morgan, Student, NOAA, General File  
Went, Frits, Reno, Nevada  
White, Dr. Fred  
Wooster, Warren, Seattle  
Yananos, A. Aristides

**ALPHA HELIX series**

- [Alpha Helix File]  
[Alpha Helix File]  
[Alpha Helix File]  
Y.F. Lab Ship, Misc. Correspondence  
Y.F. Pictures  
Misc. Lab Ship Correspondence  
Misc. Lab Ship Correspondence  
Ship-Borne Lab, Proposal, 1960, NIH-NSF 1961-1962  
Funds Request
- 3 Alpha Helix, Construction  
Alpha Helix, Construction  
Alpha Helix, Advisory Board  
Alpha Helix, Insignia, Mermaids  
Alpha Helix, Ring Tank Decoration

**Box****Folder Title****ALPHA HELIX series (continued)**

3

Ship Description Article

Ship Launching

NIH-NSF, April 1961

"Oceanography 1960-1970"

Revised Budget to Proposal, UCSD-1546

The Scientific Programs

The Scientific Programs

Alpha Helix, Write-up

Scholander

R/V ALPHA HELIX, Introduction and Field Reports, 1966-1971

R/V ALPHA HELIX, Introduction and Field Reports, 1966-1971

R/V ALPHA HELIX, Introduction and Field Reports, 1966-1971

R/V ALPHA HELIX, Introduction and Field Reports, 1966-1971

Alpha Helix Reprints 1970-1971

Billabong, McNally, Faughn, Schmidt-Nielsen

Camanau River - Maurice Bernard

4

Alpha Helix, Amazon Expedition 1967

Abstracts, Amazon Expedition

New Guinea, Robert Hinchcliffe, 1968-69

New Guinea, Robert Hinchcliffe, 1968-69

New Guinea, Robert Hinchcliffe, 1968-69

Advisory Board

Advisory Board

**Box****Folder Title****ALPHA HELIX series (continued)**

4

Advisory Board

Advisory Board

Advisory Board

R/V ALPHA HELIX Progress Reports, Gen. File, 1970-1972

R/V ALPHA HELIX Progress Reports, Gen. File, 1970-1972

**PRL Contracts, Adm., etc. series**

NSF Research Grant Proposal: Negative Fluid Pressure in Matrices and Solutions and its Relation to Melting and Freezing. UCSD 3811 (5/1/71 - 4/30/74)

Saline Water Proposal

Griffis Found. \$250

Contributions Reprint Information

Comp. Cardio Vascular Physiol. Lab, Dr. Per F. Scholander, Elsher, Franklin, Dimond

Franklin's Patent

5

GM10521, Renewal, UCSD2987, Proposal to Renew Grant for yr(8?), July 1969

PFS GM 10521-09 GM-105 21-09 (not funded)

Renewal of NIH GMI 0521, UCSD 2987, Scholander (new budget) [yr 7]

Renewal of NIH GMI 0521, UCSD 2987, Scholander (new budget) [yr 7]

USPHS Research Grant Proposal: Marine Physiology: The Osmotic Effect of Gasses on Water. UCSD (5/1/71 - 4/30/74)

Clara Hamilton

NSF Research Ship Support: Support for Physiological Research Ship- R/V ALPHA HELIX. UCSD 3072 (2/1/70 - 1/31/71)

NSF Research Ship Support: Support for Research Program for Physiological Laboratory Ship, R/V ALPHA HELIX, UCSD 3073 (2/1/70 - 1/31/72)

<b>Box</b>	<b>Folder Title</b>
	<b>PRL Contracts, Adm., etc. series (continued)</b>
5	NIH Marine Physiology
	NIH Marine Physiology
	NIH Marine Physiology, GM 10521 - 07
	NIH Marine Physiology
	NIH Marine Physiology
	NIH Marine Physiology
	Grants & Applications USPHS GM 10521
	Grants & Applications USPHS GM 10521
	Grants & Applications GM - K3 - 7469
	NAS BIOL. Med. Panel
	Proposal 2-23-65
	ONR 2216(09)
	Travel Expense Voucher
6	Swimbladder, New Proposal
	PHS Swimbladder RG - 5979 (21601)
	PHS Swimbladder RG - 5979 (21601)
	PHS Swimbladder RG - 5979 (21601)
	NSF "Deep Diving"
	NSF "Deep Diving"
	Dr. French's Proposal - Lab. Building
	Dr. French's Proposal - Lab. Building
	Office of Naval Research
	Office of Naval Research

**Box****Folder Title****PRL Contracts, Adm., etc. series (continued)**

- 6
- ASTIA Customer Information and Forms
  - NSF Biological Facilities
  - NSF Scholander contract
  - Application for Public Health Service
  - Scholander, P.F. (Scripps Correspondence) Appointments, Committees, Curricula Vitae, Photos
  - Scholander, P.F. (Scripps Correspondence) Appointments, Committees, Curricula Vitae, Photos
  - South Sea Expedition, NAGA
  - South Sea Expedition, NAGA
  - South Sea Expedition, NAGA
- 7
- NAGA Shipments and Costs, 1960
  - NAGA Travel Expense Vouchers, PFS, 191959 - 63
  - NAGA Travel Expense Vouchers, PFS, 191959 - 63
  - NAGA Expedition (From May 1960, forward)
  - PHS NAGA RG 7114 (21602), For Naga final Report
  - Dimond's Electrocardiogram, NAGA Pearl Divers
  - Work Orders, Requisitions, 1962
  - Barrow RQ Data, NSF Barrow Lab, 1947-1948
  - Australian Aborigines, Cold Acclimation, 1957-1958
  - Arctic Institute Greenland Expedition, Field Report, 1958
  - Arctic Institute of North America (AINA), Greenland Expedition, 1958
  - Labrador Expedition, 1959
  - Labrador Expedition Funds Correspondence

<b>Box</b>	<b>Folder Title</b>
	<b>PRL Contracts, Adm., etc. series (continued)</b>
8	Argentina, Chile, Travel, International Congress, 1959
	Tierra Del Fuego, 1959
	Coconut Island (Air Force Proposal)
	Coconut Island Project
	Bimini Trip
	Bimini Travel
	Umiat Trip
	Scholander
	Vermilion Sea station, Jan 2 - March, 1963
	Baja California - Permisos & Bahia de Los Angeles Marine Station Information
	Passport and Selective Service Information, Immunizations; List of Consulates
	Tuamotu Expedition, NSF B5 - 0644
	Tuamotu Expedition, NSF B5 - 0644
	Tuamotu Expedition, NSF B5 - 0644
	Institute for Arctic Biology, Feasibility Committee
	Institute for Arctic Biology, Feasibility Committee
	Institute for Arctic Biology, Feasibility Committee
	University of Nevada, Desert Lab
	Desert Research Institute, University of Nevada
9	Desert Research Institute, University of Nevada
	Desert Research Institute, University of Nevada
	White Mountain Research Station
	Dolphin Expeditions – Peterson

<b>Box</b>	<b>Folder Title</b>
	<b>PRL Contracts, Adm., etc. series (continued)</b>
9	American Samoa Station
	Alice Springs station
	Bermuda Biological Station for Research
	Mission Bay Marine Research Foundation, Sea World
	Tropical Marine (NSF) Biology Lab
	Institute for Comparative Zoology, San Diego Zoo
	Marine Labs
	Marine Labs
	Marine Labs
	Eastropac
	Norwegian Symposium on Emergency Resuscitation, 5/29/67
	Norwegian Symposium on Emergency Resuscitation, 5/29/67
	Symposium - Buenos Aires
	Cold Adaptation (Symposium B.A.)
	University of Alaska Honorary Degree, Dr. Scholander, 1973
	Matrikel 1977, 1978
	Matrikel 1979, List of Nobel Prize Winners 1976, 1978
	Swedish Royal Academy of Science
	Nansen Award 1979
10	Uppsala University, 5th Centenary Honorary Degree, 1977
	Cosmo Club
	Societies Receipts
	Arctic Institute of North America

<b>Box</b>	<b>Folder Title</b>
	<b>PRL Contracts, Adm., etc. series (continued)</b>
10	Harvey Lecture # 128
	Swimbladder Lecture
	Diving Lecture
	Sap Lecture
	Lawrence Irving Building for Bioscience, University of Alaska, Dedication Speech. P.F. Scholander
	Cold Adaptation Lecture
	Freezing in Cold Blooded Animals and Plants Lecture
	Supercooled Fish Seminar
	MH Lecture 1972
	Lecture Amsterdam 1977
	Paper Slides for "Solvent Tension, its fundamental role in capillary, osmosis, and colligative properties."
	"Water States and Water Gates ..." Speech by Scholander
	Speech by Scholander, In Honor of Professor Ladd Prosser
	Ph.D. Dissertations, P.R.L. (Abstractions)
	Scholander Photos, n.d.
	Sabbatical Papers
	Sabbatical Research Outline
11	[Biography]
	[Biography]
	[Biography]
	University of Alaska Foundation, Irving Scholander Memorial
	University of Alaska Foundation, Irving Scholander Memorial

<b>Box</b>	<b>Folder Title</b>
	<b>PRL Contracts, Adm., etc. series (continued)</b>
11	<p>University of Alaska Foundation, Irving Scholander Memorial</p> <p>Final Publication Lists, Complete 7/84</p> <p>Publications Lists by Dr. Per F. Scholander</p> <p>Requests to submit articles</p> <p>Philosophical Society Memoirs, Hammel - Bullock</p> <p>Biographies, Annual Review of Physiology</p> <p>Diving</p> <p>Counter Current, Scientific American</p> <p>Wave-Riding Dolphins, WSF, GV 23899, RE</p> <p>Gas Analysis</p> <p>Sap Correspondence</p> <p>Solvent Tension Correspondence</p> <p>On the Role of Myoglobin in the Muscles of Penguins. P.F. Scholander &amp; W. Orris</p> <p>Some Osmotic Effects (Parameters) in Spawning Salmon Field Lab. Investigations, Oct 4, 1968</p> <p>Reports; Adaptation to Cold</p>
12	<p>Reports; Botany, 1932-37</p> <p>Reports; Methods, 1937-1952</p> <p>Reports; Methods, 1937-1952</p>
13	<p>Reports; Physiology III, 1955-1962</p> <p>Reports; Physiology IV, 1963-1973</p> <p>Reports; Physiology of Diving</p>
14	The Respiratory Function in Diving Mammals and Birds

<b>Box</b>	<b>Folder Title</b>
	<b>PRL Contracts, Adm., etc. series (continued)</b>
14	<p>Reports</p> <p>Applicants and Recipients (Contracts and Grants) Scholander, Per F., April 1958 - June 1963</p> <p>Laboratory - Ship and Related Home Base Facilities (Contracts and Grants), February 1961 - August 1963</p> <p>[Correspondence, 1979)</p> <p>National Academy of Science, Correspondence, October 1960-1971</p> <p>NSF Laboratory Ship and Related Home Base Facilities, G-24831, October 1959 - March 1969</p>
15	<p>[Assorted Photo Albums and Tape Reels]</p> <p style="text-align: center;"><b>Scrapbook series</b></p>
Oversize	<p><b>Scrapbook #1:</b> Created by Mrs. Scholander, 1958-1966? Contains newspaper articles in Swedish(?) and English, expedition photos, casual photos of Scholander, cards, invitations, some captions describe the contents, magazine articles on faculty life in La Jolla and magazine articles on Roger Revelle's transfer to Harvard.</p>
Oversize	<p><b>Scrapbook #2:</b> 11 large photos - from Australian expedition (1957?). 9 pages of proofs, 1 drawing of the Caprice (pencil) reproduction. The large photos contain pictures of an expedition to Australia with Aborigines undergoing experiments. There are two large portraits, one of an Aborigine, the other of a man possibly a member of the expedition. A reproduction of a (pencil?) drawing of the Caprice (ship) begins the album. It also contains nine pages of proofs from another expedition to a very cold region, possibly Alaska, somewhere within the Arctic circle.</p>
16	<p><b>Scrapbook #3:</b> 40 large photos, 2 pages of smaller photos from (Puerto Eden, Chile?). Some of the larger photos are reproductions of the proofs in the 2nd scrapbook. Some are portraits, some pictures of laboratories and various expeditions to cold and warm regions. The album begins with a photo reproduction of a pencil drawing of the Caprice Signed H. Jackson, 1963, it is the same as the one which begins the second scrapbook.</p>

**Box****Folder Title****Scrapbook series (continued)**

17

**Scrapbook #4:** Contains photos and letters documenting the launching ceremonies of the Alpha Helix.

**Scrapbook #5:** Documents Scholander's role in the rescue of air men in the C-47 transport plane near Cold Bay, 1945. 13 color photos, 3 pages newspaper clippings, 4 letters commending Scholander for his actions, 2 order for the soldiers medal to be awarded and the citation that goes along with the medal.

Oversize

**Scrapbook #6:** Scholander's 70th birthday, birthday greetings, cards, letters, telegrams (English and Swedish), 1 photograph (family, friends?), and 1 newspaper clipping, (Swedish).

Oversize

**Scrapbook #7:** 1 guest book, 1965, 1 folder containing a guest list and correspondence concerning Scholander's 60th birthday party. Colored and black and white photographs of a party. Some cards, handwritten letters (Swedish). typed letter and story with map, 8 telegrams and 2 newspaper clippings, 1965.