

Accession No.: 93-01

PROCESSING RECORD
SCRIPPS INSTITUTION OF OCEANOGRAPHY ARCHIVES

Hardy, Kevin Richard 1953-

Kevin Richard Hardy Papers, 1989-1993

Bulk 1990-1992

PHYSICAL DESCRIPTION: 4 mss, 1/2 Lmss, 91 slides, videotapes, floppy disk

DESCRIPTION: The accession consists of papers documenting the Scripps Ocean Technology Forum Human Powered Submarine Team and the design, construction, and racing of Sub DUDE. The initial organizing meeting of the team was held at Scripps Institution of Oceanography on March 31, 1990. The initial team goal was to design a human powered submarine which would participate in the Second International Human Powered Submarine Races off Boca Raton, Florida in June 1991. The meeting was called by Kevin Hardy who organized the team. Lockheed Advanced Marine Systems donated the vessel GOSSAMER ALBACORE to the team. This vessel had participated in the First International Human Powered Submarine Races. Kevin Hardy and the team planned to reduce GOSSAMER ALBACORE to a bare hull, redesign it and reconstruct it. The redesigned vessel was called SubDUDE. Scripps Ocean Technology Forum Human Powered Submarine Team members included D. Aglietti, P. Armstrong, Michel Boudrias, W. Hagey, R. Rartley, C. Gongwer, E. Mead, Kimball Millikan, F. Sloan, Todd Switzer and E. Trevino. SubDUDE sponsors included Lockheed, Interspace, Aerated Engineering, Darrow Painting, Emerson-Cumings/Grace Syntactics, Scubapro and the Scripps Institution of Oceanography. SubDUDE participated in the Second International Submarine races and was the fastest non-propeller vessel in the contest. The SubDUDE team petitioned the Guinness Book of Records to establish a world speed record for human powered vessels with determinant methodology. The petition was granted, and SubDUDE set a new non-propeller human powered vehicle speed record on August 21, 1992 earning it a place in the 1994 Guinness Book of Records.

The accession includes correspondence, notes, memoranda, photographs, video tape recordings, newspaper articles, references, financial records and other material documenting the SubDUDE team, design, testing and construction of SubDUDE, the participation of SubDUDE in the Second International Human Powered Submarine Races and the effort to place a SubDUDE speed record in the Guinness Book of Records. The papers were created and/or collected by Kevin Hardy. Four folders on the Ocean Technology Forum 1990-1992 were integrated into the collection on July 28, 1995.

**Kevin Richard Hardy
Papers, 1989-1993
Accession Number 93-01**

BOX	FOLDER TITLE
1	Kevin Hardy Notebook; 1990-1991
	1990-1991
	1990-1991
	Kevin Hardy Notes, 1991
	SubDUDE Correspondence, 1990-1992
	Dave Aglietti, SubDUDE Notebook, Entry Forms, Public Relations, Miscellaneous, 1991
	Submarine Team Meeting, 19 June 1990
	Submarine Team Travel, 1991
	Submarine Team Travel Notebook
	Marine Technology Society Paper [Hardy, Kevin. "Lessons and Wisdom from the Human Powered Submarine Races." 1991]
	SubDUDE Hatch Names, n.d.
	SubDUDE Publicity; 1989-1990
	1991
	1992
	Scubatow 1 and 2, 1990
	The Second International Human Powered Submarine Races; June 1991
2	General Information [Notebook, 1990-1991]\
	Mandatory Progress Report, 2 February 1991

BOX	FOLDER TITLE
2	<p>Newsletter for Contestants, 1990-1991</p> <p>Submarine Entry and Registration Forms, 1991</p> <p>SubDUDE Presentation to Judges, 14-23 June 1991</p> <p>Financial Records, 1990-1991</p> <p>1305 Scripps Industrial Associates [Funding], 1 July 1990 - 30 June 1991</p> <p>1487 [Marine Technology Society Fund], 1990</p> <p>3525 [Fund], 1 July 1990 - 30 June 1991</p> <p>9666 [Fund], 1 July 1990 - 30 June 1991</p> <p>Submarine Quest Cost, Gossamer Albacore, 1989</p> <p>SubDUDE Dinner, 4 October 1991</p> <p>Come Party with the SubDUDEs, 9 October 1992</p> <p>Photographs, 1992</p> <p>SubDUDE Photographs</p> <p>SubDUDE Photographs</p> <p>SubDUDE Illustrations</p>
3	<p>References</p> <p>Gossamer Albacore, n.d.</p> <p>Submarine, n.d.</p> <p>SubDUDE Sponsor Guide, 1991</p> <p>Submarine Thank Yous, 1991</p>
5L	<p>Guinness Book of World Records, 1992</p>

BOX	FOLDER TITLE
3	<p>Petition to Establish World Speed Records for Underwater Human Powered Vehicles with Determinant Methodology, Guinness Book of World Records</p> <p>Petition to Establish World Speed Records for Underwater Human Powered Vehicles with Determinant Methodology, Guinness Book of World Records</p> <p>Guinness Book of World Records [Notebook], Kevin Hardy, 1992</p> <p>Guinness Book of World Records [Notebook], Kevin Hardy, 1992</p>
3	<p>Guinness Book of World Records [Notebook], Kevin Hardy, 1992</p>
4	<p>Ocean Technology Forum</p> <p style="padding-left: 40px;">1990: 1989 OTF General Plan</p> <p style="padding-left: 40px;">1991</p> <p style="padding-left: 40px;">1992</p> <p>Floppy disk, 3 1/2 X 3 3/4</p> <p style="padding-left: 40px;">Guinness, n.d.</p> <p style="padding-left: 40px;">SubDUDE, n.d.</p>
Media	<p>Video Cassette Tapes, VHS</p> <p style="padding-left: 40px;">GUINNESS, KUSI News re SUBDUDE, 8/21/92</p> <p style="padding-left: 40px;">Sub-Human II, n.d.</p> <p style="padding-left: 40px;">'91 SUB RACE, SCI AMER, Michael Pelisser, Ocean Tech Systems, 50 min. rough edit, 10-23-91</p> <p style="padding-left: 40px;">Submarine Races, unedited by G Egstrom, 40 min., n.d.</p> <p style="padding-left: 40px;">Guinness Record Run: SubDUDE, Time Trial Footage, TV coverage by San Diego Channels 8 and 10, 8-21-92</p> <p style="padding-left: 40px;">Guinness Record Tape, 8-21-92</p> <p style="padding-left: 40px;">Channel 10 News, May 28th 1991</p>

BOX FOLDER TITLE

Media Video Cassette Tapes, 8mm

SUB HUMAN PWR, 60 min., n.d.

SubDUDE, Channel 10 footage, n.d.

Guinness Record Run, SubDUDE, 110 min., 8-21-92

ROV '91, HP Sub Race Site Survey, 1991
Sub-Human II: Guinness Run, 10-24-92

35mm SLIDES

SLIDE TITLE

- | | |
|---------|---|
| 1 | [Men with Cal Poly Submarine loaded on truck] |
| 2 | [Submarine with people on beach] |
| 3 – 4 | [Public with submarines on grass lawns] |
| 5 | [People with yellow submarine on beach] |
| 6 | [Men with “Subdude” SIO/Lockheed submarine on beach] |
| 7 | [Launching submarines into water from beach] |
| 8 | [People with orange submarine on beach] |
| 9 | [Launching “Subdude” SIO/Lockheed submarine] |
| 10 | [Empty submarine launch trolley on beach] |
| 11 | [Public with “Subdude” SIO/Lockheed submarine on beach] |
| 12 – 16 | [People launching submarine in water] |
| 17 | [Submarine in water] |
| 18 | [Submarine in water with people waving] |

SLIDE	TITLE
19 – 21	[Men on small boat and Jet ski]
22	[Data in table]
23	[Man wheeling yellow submarine on ground]
24	[“Team Wahoo, Perry Trittech” submarine]
25	[Submarine]
26	[Man working on purple and black submarine]
27	[People working on purple and black submarine]
28	[People working on clear submarine]
29	[Yellow submarine parked by R/V and truck]
30	[People on small boat in water]
31	[People wading in water]
32	[“Subdude” SIO/Lockheed submarine on land]
33	[“Autec Stingray” submarine underwater]
34 – 36	[“Subdude” SIO/Lockheed submarine on land]
37	[“Autec Stingray” submarine underwater]
38	[“Subdude” SIO/Lockheed submarine on land]
39	[People with “Subdude” SIO/Lockheed submarine on land]
40	[People floating on water]
41 – 42	[People launching “Autec Stingray” submarine into water]
43	[People launching “Subdude” SIO/Lockheed submarine into water]
44	[“Manolin” submarine with “for sale” sign]

SLIDE	TITLE
45	[Yellow submarine underwater]
46	[Yellow submarine on land with men posing as superheroes]
47	["Subdude" SIO/Lockheed submarine in water]
48	[Public with "Subdude" SIO/Lockheed submarine on beach]
49	[People working on "Subdude" SIO/Lockheed submarine]
50	["Subdude" SIO/Lockheed submarine on beach]
51	["Subdude" SIO/Lockheed submarine on land]
52	[Inside of submarine]
53	["Subdude" SIO/Lockheed submarine underwater]
54	["Subdude" SIO/Lockheed submarine with open hatch underwater]
55	["Subdude" SIO/Lockheed submarine underwater with diver]
56	["Benthos" submarine on land]
57	["Subdude" SIO/Lockheed submarine underwater]
58	["Subdude" SIO/Lockheed submarine underwater with person inside]
59	["Subdude" SIO/Lockheed submarine underwater]
60	["Subdude" SIO/Lockheed submarine underwater with diver emerging]
61	["Subdude" SIO/Lockheed submarine on land]
62	["Subdude" SIO/Lockheed submarine underwater with diver and open hatch]
63	["Subdude" SIO/Lockheed submarine underwater]
64	[Yellow submarine on land with two men posing as superheroes]

SLIDE	TITLE
65	[Team Effort with yellow submarine on land, two men posing as superheroes blowing bubbles]
66	["Team Wahoo, Perry Trittech" submarine on land, with "USF Enterprise" submarine in background]
67	[Yellow submarine underwater]
68	[Yellow submarine on land with two men posing as superheroes]
69	["Subdude" SIO/Lockheed submarine underwater with diver inside]
70	["Subdude" SIO/Lockheed submarine underwater with diver outside]
71	["Subdude" SIO/Lockheed submarine underwater with diver inside]
72	["Subdude" SIO/Lockheed submarine on land]
73	[Man working on inside of "Subdude" SIO/Lockheed submarine]
74	["Subdude" SIO/Lockheed submarine underwater]
75	["Subdude" SIO/Lockheed submarine underwater with equipment in nose]
76	[Diver with "Subdude" SIO/Lockheed submarine underwater]
77	["Subdude" SIO/Lockheed submarine underwater]
78	["Subdude" SIO/Lockheed submarine with diver underwater]
79	["Subdude" SIO/Lockheed submarine underwater]
80	["Subdude" SIO/Lockheed submarine underwater with open hatch]
81	["Subdude" SIO/Lockheed submarine half submerged]
82 – 83	["Subdude" SIO/Lockheed submarine underwater]
84	[Public with "Subdude" SIO/Lockheed submarine on beach]
85	["Subdude" SIO/Lockheed submarine underwater]\

SLIDE	TITLE
86	[Three men lounging in shade]
87	["Subdude" SIO/Lockheed submarine on beach]
88	[Man wading in water]
89	["Subdude" SIO/Lockheed submarine half submerged in water]
90	[People with yellow submarine on land]
91	[Diagram of functional sequence through time trials]