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CURRICULUM VITAE

Doron Nof

Distinguished Nansen Professor of Oceanography

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I. PROFESSIONAL AND PERSONAL HISTORY

A. Degrees

Ph.D., University of Wisconsin, Madison (Residency: Department of Atmospheric and Oceanic Sciences), 1972-76; M.S., Technion, Israel Institute of Technology (Hydrodynamics), 1970-1972; B.S., Technion, Israel Institute of Technology (Hydraulic Engineering), 1962-1966

B. Honors and awards, professional societies

1. External

Nansen Medal, European Geosciences Union, 2005

Fellow, Royal Meteorological Society; elected 1998

Fellow, Japan Society for the Promotion of Science (JSPS); 1995

Fellow, American Meteorological Society; elected 1993

2. Internal

Florida State University Superior Honors Teacher Award 1999-2000

Florida State University Professorial Excellence Program award 1998

Florida State University Teaching Incentive Program award 1998

Florida State University Named Professorship 2002

Florida State University Distinguished Research Professor 2003

C. University and scientific positions

Professor, Department of Oceanography, Florida State University, Tallahassee, Florida (1986-present); Associate Professor, Department of Oceanography, Florida State University (1981-1986); Research Assistant Professor, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Miami, Florida (1979-1981); Research Associate, Rosenstiel School of Marine and Atmospheric Science, University of Miami

(1978); Post-Doctoral Fellow, Institute of Ocean Sciences, British Columbia, Canada (1977)

D. Other affiliations

Associate, Geophysical Fluid Dynamics Institute, Florida State University (1981-present); Guest investigator and lecturer, Summer Program in Geophysical Fluid Dynamics Woods Hole Oceanographic Institution, Woods Hole, Massachusetts (portions of summer 1986, 1988, 1997)

E. University service

College of Arts and Sciences Tenure and Promotion Committee (1994-96)
Science Area, College of Arts and Sciences and University Committee, Professorial Excellence Program (PEP) (1996-97)

F. Professional associations

American Association for the Advancement of Science (member)
American Geophysical Union (member)
American Meteorological Society (Fellow)
European Geophysical Society (member)
Japan Society for the Promotion of Science (Fellow)
Royal Meteorological Society (Fellow)
Sigma Xi (member)

G. Other forms of professional recognition

Research on parting of the Red Sea (see articles 46 and 56, below) discussed in articles in *Science*, *New York Times*, *Los Angeles Times*, the *Britannica 1994 Yearbook of Science and the Future*, and on the Public Broadcast Service (PBS).

II. RESEARCH ACTIVITIES

A. Publications

Refereed publications in conventional oceanographic literature

1. Nof, D., 1978a: On geostrophic adjustment in sea straits and wide estuaries: Theory and laboratory experiments. Part I: One-layer system. *J. Phys. Oceanogr.*, **8**, 690-702.
2. Nof, D., 1978b: On geostrophic adjustment in sea straits and wide estuaries: Theory and laboratory experiments. Part II: Two-layer system. *J. Phys. Oceanogr.*, **8**, 861-872.
3. Nof, D., 1979: Generation of fronts by mixing and mutual intrusion. *J. Phys. Oceanogr.*, **9**, 298-310.
4. Nof, D., 1979: On man-induced variations in the circulation of the Mediterranean Sea. *Tellus*, **31**, 558-564.

5. Nof, D., 1980: The influence of varying bathymetry on inertial boundary currents. *Tellus*, **32**, 284-295.
6. Nof, D., 1981: On the dynamics of equatorial outflows with application to the Amazon's basin. *J. Mar. Res.*, **39**, 1-29.
7. Nof, D., 1981: On the beta-induced movement of isolated baroclinic eddies. *J. Phys. Oceanogr.*, **11**, 1662-1672.
8. Nof, D., 1982: On the movements of deep mesoscale eddies in the North Atlantic. *J. Mar. Res.*, **40**, 57-74.
9. Nof, D., 1983: On the response of ocean currents to atmospheric cooling. *Tellus*, **35**, 60-72.
10. Nof, D., 1983: The translation of isolated cold eddies on a sloping bottom. *Deep-Sea Res.*, **30**, 171-182.
11. Nof, D., 1983: On the migration of isolated eddies with application to Gulf Stream rings. *J. Mar. Res.*, **41**, 399-425.
12. Nof, D. and D. Olson, 1983: On the flow through broad gaps with application to the Windward Passage. *J. Phys. Oceanogr.*, **13**, 1940-1956.
13. Nof, D., 1984: On the interaction between thin isolated eddies and long-shore currents. *J. Phys. Oceanogr.*, **14**, 125-137.
14. Nof, D., 1984: Oscillatory drift of deep cold eddies. *Deep-Sea Res.*, **31**, 1395-1414.
15. Nof, D., 1984: Shock waves in currents and outflows. *J. Phys. Oceanogr.*, **14**, 1683-1702.
16. Nof, D., 1984: On the ellipticity of isolated anticyclonic eddies. *Tellus*, **37**, 77-86.
17. Cushman-Roisin, B., W. H. Heil and D. Nof, 1985: Oscillations and rotations of elliptical warm-core rings. *J. Geophys. Res.*, **90**, 11,756-11,764.
18. Nof, D., 1985: Joint vortices, eastward propagating eddies and migratory Taylor columns. *J. Phys. Oceanogr.*, **15**, 1114-1137.
19. Nof, D. and S. Im, 1985: Suction through broad oceanic gaps. *J. Phys. Oceanogr.*, **15**, 1721-1732.
20. Nof, D., 1986: The collision between the Gulf Stream and warm-core rings. *Deep-Sea Res.*, **33**, 359-378.
21. Nof, D., 1986: Geostrophic shock waves. *J. Phys. Oceanogr.*, **16**, 886-901.
22. Nof, D., 1986; Comments on 'The response of intense ocean current systems entering regions of strong cooling.' *J. Phys. Oceanogr.*, **16**, 996-999.
23. Nof, D., 1987: The bifurcation of outflows. *J. Phys. Oceanogr.*, **17**, 37-52.
24. Nof, D., 1987: Penetrating outflows and the dam-breaking problem. *J. Mar. Res.*, **45**, 557-577.
25. Nof, D., 1987: Vorticity control. *J. Phys. Oceanogr.*, **17**, 1758-1771.

26. Nof, D. and L. Simon, 1987: Laboratory experiments on the merging of anticyclonic eddies. *J. Phys. Oceanogr.*, **17**, 343-357.
27. Nof, D., 1988: The fusion of isolated nonlinear eddies. *J. Phys. Oceanogr.*, **18**, 887-905.
28. Nof, D., 1988: Outflows dynamics. *Geophys. Astrophys. Fluid Dyn.*, **40**, 165-193.
29. Nof, D., 1988: Draining vortices. *Geophys. Astrophys. Fluid Dyn.*, **42**, 187-208.
30. Nof, D. and S. Van Gorder, 1988: The propagation of gravity currents along continental shelves. *J. Phys. Oceanogr.*, **18**, 481-491.
31. Chapman, R. and D. Nof, 1988: The sinking of warm-core rings. *J. Phys. Oceanogr.*, **18**, 565-583.
32. Nof, D., 1988: Eddy- wall interactions. *J. Mar. Res.*, **46**, 527-555.
33. Nof, D., 1988: The propagation of 'streamers' along the periphery of warm-core rings. *Deep-Sea Res.*, **35**, 1483-1498.
34. Nof, D. and J. Middleton, 1989: Geostrophic pumping, inflows and upwelling in barrier reefs. *J. Phys. Oceanogr.*, **19**, 874-889.
35. Nof, D. and C. Shi, 1989: Interactions of cold- and warm-core rings with environmental shear. *J. Phys. Oceanogr.*, **19**, 890-900.
36. Nof, D., 1990: Why are some boundary currents blocked by the equator? *Deep-Sea Res.*, **37**, 853-874.
37. Nof, D., 1990: Modons and monopoles on a gamma-plane. *Geophys. Astrophys. Fluid Dyn.*, **52**, 71-87.
38. Nof, D., 1990: The role of angular momentum in the splitting of isolated eddies. *Tellus*, **42**, 469-481.
39. Nof, D., 1990: The breakup of dense filaments. *J. Phys. Oceanogr.*, **20**, 880-889.
40. Paldor, N. and D. Nof, 1990: Linear instability of an anticyclonic vortex in a finite depth ocean. *J. Geophys. Res.*, **95**, 18,075-18,080.
41. Nof, D., 1991: Orbiting eddies. *Tellus*, **43**, 64-67.
42. Nof, D., 1991: Fission of single and multiple eddies. *J. Phys. Oceanogr.*, **21**, 40-52.
43. Spitz, Y. and D. Nof, 1991: Separation of boundary currents due to bottom topography. *Deep-Sea Res.*, **38**, 1-20.
44. Nof, D., 1991: Lenses generated by intermittent currents. *Deep-Sea Res.*, **38**, 325-345.
45. Nof, D., N. Paldor, and S. VanGorder, 1991: Abyssal gyres. *Geophys. Astrophys. Fluid Dyn.*, **58**, 173-196.
46. Nof, D. and N. Paldor, 1992: Are there oceanographic explanations for the Israelites' crossing of the Red Sea? *Bull. Amer. Meteorol. Soc.*, **73**, 305-314.
47. Nof, D. and D. Olson, 1993: How do western abyssal currents cross the equator? *Deep-Sea Res.*, **40**, 235-255.

48. Nof, D., 1993: The penetration of Kuroshio water into the Sea of Japan. *J. Phys. Oceanogr.*, **23**, 797-807.
49. Nof, D. and W. Dewar, 1993: The drift of mid-ocean jets. *J. Phys. Oceanogr.*, **23**, 2313-2325.
50. Agra, C. and D. Nof, 1993: Collision and separation of boundary currents. *Deep-Sea Res.*, **40**, 2259-2282.
51. Nof, D., 1993: The beta-induced drift of separated boundary currents. *Deep-Sea Res.*, **40**, 2243-2257.
52. Nof, D., 1993: Generation of ringlets. *Tellus*, **45**, 299-310.
53. Shi, C. and D. Nof, 1993: The splitting of eddies along boundaries. *J. Mar. Res.*, **51**, 771-795.
54. Shi, C. and D. Nof, 1994: The destruction of lenses and generation of vortices. *J. Phys. Oceanogr.*, **24**, 1120-1136.
55. Nof, D. and W. Dewar, 1994: Alignment of lenses: Laboratory and numerical experiments. *Deep-Sea Res.*, **41**, 1207-1229.
56. Nof, D. and N. Paldor, 1994: Statistics of Wind over the Red Sea with application to the Exodus question. *J. Applied Meteorol.*, **33**, 1017-1025.
57. Nof, D., 1995: Choked flows and wind-driven interbasin exchange. *J. Mar. Res.*, **53**, 23-48.
58. Nof, D., 1995: Choked flows from the Pacific to the Indian Ocean. *J. Phys. Oceanogr.*, **25**, 1369-1383.
59. Nof, D., 1996: What controls the origin of the Indonesian throughflow? *J. Geophys. Res.*, **101**, 12,301-12,314.
60. Nof, D. and T. Pichevin, 1996: The retroreflection paradox. *J. Phys. Oceanogr.*, **26**, 2344-2358.
61. Lebedev, I. and D. Nof, 1996: The drifting confluence zone. *J. Phys. Oceanogr.*, **26**, 2429-2448.
62. Pichevin, T. and D. Nof, 1996: The eddy cannon. *Deep-Sea Res.*, **43**, 1475-1507.
63. Nof, D., 1996: Rotational turbidity flows and the 1929 Grand Banks earthquake. *Deep-Sea Res.*, **43**, 1143-1163.
64. Nof, D., 1996: Why are rings regularly shed in the western equatorial Atlantic but not in the western Pacific? *Prog. Oceanogr.*, **38**, 417-451.
65. Pichevin, T. and D. Nof, 1997: The momentum imbalance paradox. *Tellus*, **49**, 298-319.
66. Lebedev, I. and D. Nof, 1997: Collision of boundary currents: Beyond a steady state. *Deep-Sea Res.*, **44**, 771-791.
67. Borisov, S. and D. Nof, 1998: Deep, cross-equatorial eddies. *Geophys. Astrophys. Fluid Dyn.*, **87**, 273-310.

68. Nof, D., 1998: The 'separation formula' and its application to the Pacific Ocean. *Deep-Sea Res. I*, **45**, 2011-2033.
69. Nof, D. and S. Borisov, 1998: Inter-hemispheric oceanic exchange. *Q. J. Royal Meteorol. Soc.*, **124**, 2829-2866.
70. Nof, D. and S. Van Gorder, 1998: Intense nonlinear migrations of the Pacific warm pool. *Deep-Sea Res.*, **46**, 1705-1731.
71. Nof, D. and T. Pichevin, 1999: The establishment of the Tsugaru and the Alboran gyres. *J. Phys. Oceanogr.*, **29**, 39-54.
72. Pichevin, T., D. Nof and J. Lutjeharms, 1999: Why are there Agulhas rings? *J. Phys. Oceanogr.*, **29**, 693-707.
73. Nof, D. and S. Van Gorder, 1999: A different perspective on the export of water from the South Atlantic. *J. Phys. Oceanogr.*, **29**, 2285-2302.
74. Nof, D., 1999: Strange encounters of eddies with walls. *J. Mar. Res.*, **57**, 1-24.
75. Nof, D., 2000: Why much of the circulation in the Atlantic enters the Caribbean Sea and very little of the Pacific circulation enters the Sea of Japan. *Prog. in Oceanogr.*, **45**, 39-67.
76. Nof, D., 2000: Does the wind control the import and export of the South Atlantic? *J. Phys. Oceanogr.*, **30**, 2650-2667.
77. Nof, D. and S. Van Gorder, 2000: Upwelling into the thermocline in the Pacific Ocean. *Deep-Sea Res. I*, **47**, 2317-2340.
78. Simmons, H. and D. Nof, 2000: Islands as eddy splitters. *J. Mar. Res.*, **58**, 919-956.
79. Nof, D., 2001: China's development could lead to Bottom Water formation in the Japan/East Sea. *Bull. Am. Met. Soc.*, **82**, 609-618.
80. Nof, D. and T. Pichevin, 2001: The ballooning of outflows. *J. Phys. Oceanogr.*, **31**, 3045-3058.
81. Simmons, H. and D. Nof, 2002: The squeezing of eddies through gaps. *J. Phys. Oceanogr.*, **32**, 314-335.
82. Nof, D., 2002: Is there a meridional overturning cell in the Pacific and Indian Oceans? *J. Phys. Oceanogr.*, **32**, 1947-1959.
83. Nof, D., T. Pichevin and J. Sprintall, 2002: Teddies and the origin of the Leeuwin Current. *J. Phys. Oceanogr.*, **32** (9), 2571-2588.
84. Nof, D., N. Paldor and S. Van Gorder, 2002: The Reddy maker. *Deep-Sea Res. I*, **49**(9), 1531-1549.
85. Nof, D., 2003: The Southern Ocean's grip on the northward meridional flow. *Prog. Oceanogr.*, **56**(2), 223-247.
86. Nof, D. and S. Van Gorder, 2003: Did an open Panama Isthmus correspond to an invasion of Pacific water into the Atlantic? *J. Phys. Oceanogr.*, **33**(7), 1324-1336.
87. Paldor, N., A. Sigalov and D. Nof, 2003: The mechanics of eddy transport from one hemisphere to the other. *Q. J. Royal Met. Soc.*, **129**(591), 2011-2026.

88. Arruda, W. and D. Nof, 2003: The Mindanao and Halmahera eddies – twin eddies induced by nonlinearities. *J. Phys. Oceanogr.*, **33**, No. 12, pp. 2815–2830.
89. Nof, D. and A. M. De Boer, 2003: From the Southern Ocean to the North Atlantic in the Ekman layer? *Bull. Am. Met. Soc.* **85**, No.1, pp 79-88.
90. Nof, D., S. Van Gorder and T. Pichevin, 2004: A different outflow length scale? *J. Phys. Oceanogr.*, **34**, pp. 793-804.
91. Arruda, W., D. Nof and J. J. O'Brien, 2004: Does the Ulleung eddy owe its existence to beta and nonlinearities? *Deep-Sea Res. I*, **51**, 2073-2090.
92. De Boer, A. M. and D. Nof, 2004a: The exhaust valve of the North Atlantic. *J. Climate*, **17**, No. 3, pp. 417-422.
93. De Boer, A. M. and D. Nof, 2004b: The Bering Strait's grip on the northern hemisphere climate. *Deep-Sea Res. I*, **51**, 147-1366.
94. De Boer, A. M. and D. Nof, 2005: The island wind-buoyancy connection. *Tellus*, **57A**, 783-797.
95. Nof, D., 2005: The momentum imbalance paradox revisited. *J. Phys. Oceanogr.*, **35** (10), 1928-1939.
96. Huber, M and D. Nof, 2006: The ocean circulation in the southern hemisphere and its climatic impacts in the Eocene. *Paeogeography, paleoclimatology, and paleoecology* 231, 9-28.
97. Nof, D., I. McKeague, and N. Paldor, 2006: Is there a paleolimnological explanation for “walking on water” in the Sea of Galilee? *Journal of Paleolimnology*, **35**, 417-439.
98. Nof, D., VanGorder S., and De Boer, A. M. 2006: Does the Atlantic meridional overturning cell really have more than one stable steady state? *Journal of Climate*, submitted.

Publications in other refereed literature

- Nof, D., 1990: The breakup of outflows and the formation of 'Meddies'. *The Physical Oceanography of Sea Straits*, L. J. Pratt, ed., Kluwer Academic Publishers, 559-566.
- Nof, D., 1988: Nonlinear intrusions. *Mesoscale/Synoptic Coherent Structures in Geophysical Turbulence*, Nihoul & Jamart, eds., Elsevier Science Publishers B.V., Amsterdam, 113-134.
- Nof, D., 2003: Nonlinear outflows on a β -plane. *Nonlinear Processes in Geophysical Fluid Dynamics: A Tribute to the Scientific Work of Pedro Ripa*. Ed. O. U. Velasco Fuentes, J. Sheinbaum and J. Ochoa. Kluwer Acad.
- Nof, D., 2006: “Walking on water” and the geoscientists’ fear of social controversy. *Eos*, submitted.

B. RESEARCH GRANTS

<i>Dates</i>	<i>Agency</i>	<i>Title</i>	<i>Amount</i>
1979-81	ONR	Role of Diabatic Heating and Cooling in Boundary Current Dynamics	\$ 39,686
1981-82	ONR	Study of the Water Exchange between the Caribbean Sea and the Atlantic Ocean (through the Windward Passage)	30,054
1982-83	ONR	Mesoscale Processes in the Ocean	48,685
1983-85	ONR	Mesoscale Processes in the Ocean	134,001
1985-87	ONR	Mesoscale Processes in the Ocean	195,460
1987-88	ONR	Meso and Large-Scale Processes in the Ocean	178,190
1989-90	ONR	Mesoscale Processes in the Ocean	182,091
1987-90	NSF	Theoretical Studies of Eddy-Environment Interaction	147,658
1988	NOAA	Oceanic Current Model Development	9,950
1989	NOAA	Oceanic Current Model Development	9,950
1990-94	NSF	Non-linear Eddy-Environment Interactions	356,850
1991-92	ONR	Mesoscale Processes in the Ocean	161,571
1991-95	NSF	Nonlinear Processes in High Latitudes	240,000
1993	ONR	Nonlinear Supermesoscale Processes in the Ocean	34,445
1995-98	NSF	Flows through Multiple Gaps with Application to the Indonesian Throughflow	239,000
1995-96	NASA	Studies of Variable Climate Processes	122,400
1996-99	ONR	How Much Water Passes Through each of the Southern Indonesian Passages?	159,084
1996-99	NSF	Rings, Eddies and Retroflection as a Mechanism for Inter-basin Exchange	248,633
1997-98	NASA	Studies of Variable Climate Processes	76,867
1997-2000	BSF	Reddies as a means of exporting water from the Red Sea	76,450
1998-01	NASA	Zonal Propagation of Nonlinear Oceanic Anomalies	133,217
1998-01	NASA	Nonlinear Exchange Processes between the Pacific and the Indian Ocean	66,000
2000-02	NSF	The Role of Agulhas Rings in the Western South Atlantic	300,000

2001-02	ONR	The Tsushima Warm Current and Its Various Branches	115,864
2001-04	NASA	Variability of the Western Indian Ocean and Gulf of Aden	288,563
2003-07	NSF	The Agulhas-Brazil Current Domino	398,967
2003-06	NASA	The Role of the Bering Strait in the General Oceanic and Circulation Climate	72,000
2005-08	NSF	The Bering Strait as a Super Strait	269,872
2005-08	NSF	The Agulhas Current System: A Key Control of the Atlantic System	202,637
Total			\$4,778,257

C. Visiting scientists and post docs supported by research programs (for periods ranging from one month to a year)

1989	E. Chassignet	Rosenstiel School of Marine and Atmospheric Science, University of Miami
1989, 1990, 1993	N. Paldor	Hebrew University of Jerusalem, Jerusalem, Israel
1990	A. Kostianoy	Shirshov Inst. Oceanology, Russian Academy of Sciences, Moscow
1990	G. Shapiro	Shirshov Inst. Oceanology, Russian Academy of Sciences, Moscow
1991, 1992	V. Larichev	Shirshov Inst. Oceanology, Russian Academy of Sciences, Moscow
1992	A. Kubokawa	Hokkaido University, Sapporo, Japan
1995	H. Nishigaki	Oita University, Oita, Japan
2000, 2001, 2002	M. Stephens	Spelman College, Atlanta
2003	A. Wahlin	Oslo University, Norway

D. Invited and contributed talks (last five years)

Invited presentations

1997	SACC (South Atlantic Climate Change) Workshop	Guaruja, Brazil
1997	“The ‘separation formula’ and the Indonesian Throughflow”	IAMAS/IAPSO 1997 Joint Assembly, Melbourne, Australia

1998	SACC (South Atlantic Climate Change) Workshop	Miami, FL
1998	“Intense eastward migrations of the Pacific Warm Pool”	Japan Marine Sciences and Technology Center International Symposium, Kyoto, Japan
1999	“The export of upper water from the Southern Ocean and the associated upwelling,”	Slope Front Workshop, Lamont-Doherty, NY
2000	“The Southern Ocean’s grip on the meridional circulation”	EGS XXV General Assembly, Nice, France
2001	“Teddies and their sources”	EGS XXVI General Assembly, Nice, France
2002	“Teddies and the origin of the Leeuwin Current”	The 2 nd Meeting on the Physical Oceanography of Sea Straits, Villefrance, France
2002	“Teddies and the origin of the Leeuwin Current”	The Pedro Ripa Memorial Colloquium, CICESE, Ensenada, Mexico
2003	“The Reddy Maker”	EGS XXVII General Assembly, Nice, France
2003	“A new outflow length scale?”	IUGG2003 Meeting, Sapporo, Japan
2004	“Does the Oceanic Meridional Overturning Cell really have more than one stable state?”	2004 AGU Fall Meeting, San Francisco
2005	“Does the Oceanic Meridional Overturning Cell Really have more than one stable state??”	2005 Christian le Provost Colloquium, Toulouse, France
2005	“Abrupt Climate Change and the Oceanic Meridional Overturning Cell”	2005 EGU Congress, Vienna, Austria, Nansen Medal Lecture

Contributed presentations

1998	“The separation formula and its application to the upper warm layer in the Atlantic Ocean”	EGS General Assembly, Nice, France
1999	“The export of water from the Southern Ocean and the associated upwelling”	Arabian Marginal Seas and Gulfs Workshop, Stennis Space Center, MS

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| 2000 | “Is the transport of the meridional overturning cell in the Atlantic a function of the cooling rate or the wind field?” | AGU Ocean Sciences Meeting, San Antonio, TX |
| 2000 | “China’s development could lead to Bottom Water formation in the Japan/East Sea” | AGU Western Pacific Geophysics Meeting, Tokyo |
| 2001 | “Is the cross-equatorial flow in the Atlantic driven by high latitude winds or by the cooling of the North Atlantic?” | U.S. CLIVAR Atlantic Meeting, Boulder, CO |
| 2001 | “Is there a meridional overturning cell in the Pacific and Indian Oceans?”
“Could China’s development lead to Bottom Water Formation in the Japan/East Sea?”
“Teddies and the formation of the Leeuwin Current,” | IAPSO 2001 Symposium – An Ocean Odyssey, Mar del Plata, Argentina |
| 2002 | “Did an open Panama Isthmus correspond to an invasion of Pacific Water into the Atlantic?”
“Teddies and the origin of the Leeuwin Current;” | AGU Western Pacific Geophysics Meeting, Wellington, New Zealand |
| 2002 | “The Reddy Maker”
“The Southern Ocean’s grip on the Northward Meriodional Flow”
“Did an open Panama Isthmus correspond to an invasion of Pacific water into the Atlantic?” | AGU Fall Meeting, San Francisco, California |
| 2003 | “Was there an eastward or westward flow through the open Panama Gateway?” | EGS-AGU-EUG Joint Assembly, Nice, France |
| 2003 | “From the Southern Ocean to the North Atlantic in the Ekman layer?”
“The Bering Strait’s grip on the world climate” | IUGG2003 Meeting, Sapporo, Japan |

III. TEACHING ACTIVITIES

A. Students for whom I have been the major professor

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|--------------------------|---------------------------|
| S. Im (M.S., 1985) | I. Lebedev (Ph.D., 1995) |
| L. Simon (M.S., 1986) | S. Borisov (Ph.D., 1996) |
| R. Chapman (Ph.D., 1987) | T. Pichevin (Ph.D., 1996) |
| Y. Spitz (M.S., 1989) | H. Simmons (Ph.D., 2000) |

C. Agra (M.S., 1992)
 C. Shi (M.S. 1988, Ph.D., 1992)

W. Arruda (Ph.D., 2002)
 A. M. De Boer (Ph.D., 2003)

B. Students for whom I am currently the major professor

C. Sandal (currently a Ph.D. student)
 V. Zharkov (currently a Ph.D. student)

C. Student committees on which I have served other than as major professor (during the past five years)

Florida State University:

S. Bigorre (currently Ph.D.)	H. Huang (Ph.D., 2003)
M. Dottori (currently Ph.D.)	A. Leonardi (Ph.D., 2002)
D. Leonov (currently Ph.D.)	K. Mizoguchi (Ph.D., 2002)
J. Li (currently Ph.D.)	L. Zamudio (Ph.D., 2002)
B. Kara (Ph.D., 2003)	L. Zhong (Ph.D., 2002)
E. Kvaleberg (Ph.D., 2003)	S. Morey (Ph.D., 1999)
A. Montenegro (Ph.D., 2003)	N. Romano (Ph.D., 1999)

Other universities:

Examiner for J. Waworunto (Ph.D., University of Miami, 1999) and for P. Choboter (currently Ph.D., University of Alberta)
 “Opponent” for A. Wahlin (Ph.D., Göteborg University, Sweden, 2001)

D. Courses I have taught at Florida State University (during the past five years)

OCE 1001	Elementary Oceanography	3 credits
	Fall 98, Spring 01, Spring 03, Spring 05	
OCE 1001	Elementary Oceanography - Honors	3 credits
	Fall 99, Spring 02, Spring 04	
OCP 5259	Rings and Eddies as a Means of Heat Transfer	3 credits
	Spring 99, Fall 00	
OCP 5253	Introduction to Geophysical Fluid Dynamics	3 credits
	Spring 00, Fall 01, Fall 03, Fall 04, Fall 05	

E. Other forms of teaching and teaching recognition

An instrument developed by me to demonstrate physical oceanic processes to nonscientists was featured on the PBS educational television program “Scientific American Frontiers” (1994).