

## **CURRICULUM VITAE**

### **LARRY P. ATKINSON**

Eminent Professor and Samuel and Fay Slover Professor of Oceanography

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**Date of Birth:** August 6, 1941

**Place of Birth:** Ames, Iowa

#### **EDUCATION:**

1964 B.S. University of Washington, Seattle

1967 M.S. University of Washington, Seattle

1972 Ph.D. Dalhousie University, Halifax, Nova Scotia, Canada

#### **EXPERIENCE:**

1959-1961 Teaching Assistant, Western Washington State College

1961-1964 Research Assistant, University of Washington

1964-1966 Graduate Student, University of Washington

1966 -1968 Research Associate, Duke University Marine Laboratory

1968- 1972 Graduate Student, Dalhousie University

1972- 1974 Research Associate, Skidaway Institute of Oceanography

1974-1976 Assistant Professor, Skidaway Institute of Oceanography

1976-1982 Associate Professor, Skidaway Institute of Oceanography

1976-1982 Adjunct Associate Professor, School of Geophysical Sciences, Georgia Institute of Technology

1982- 1985 Professor, Skidaway Institute of Oceanography

1982-1985 Adjunct Professor, School of Geophysical Sciences, Georgia Institute of Technology

1985- 1992 Smith Professor and Eminent Scholar, Old Dominion University, Department of Oceanography

1990-2003 Director, Center for Coastal Physical Oceanography, Old Dominion University

1992-1997 Chair, Department of Oceanography, Old Dominion University

1992- present Samuel and Fay Slover Professor, Department of Oceanography, Old Dominion University

2001 – 2004 National Office for Sustained and Integrated Ocean Observing (Ocean.US) in Arlington, Va.

#### **EDITORSHIPS:**

1988-1990 Editor, Journal of Geophysical Research-Oceans

1990-1992 Senior Editor, Journal of Geophysical Research-Oceans

1993-1997 Managing Editor, Oceanography

#### **AWARDS:**

1990 Elected Fellow of the American Association for the Advancement of Science

1990 State Council on Higher Education in Virginia, Outstanding Researcher nominee

#### **MEMBERSHIPS:**

American Geophysical Union

American Association for the Advancement of Science

The Oceanography Society

The American Meteorological Society

The Marine Technology Society

## PUBLICATIONS :

1965 Richards, F. A., J. D. Cline, W. W. Broenkow, and L. P. Atkinson. Some consequences of the decomposition of organic matter in Lake Nitinat, an anoxic fjord. *Limnol. Oceanogr.*, 10:185-201 (suppl.).

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1969 Atkinson, L. P. and U. Stefansson. Particulate aluminum and iron in sea water off the southeastern coast of the United States. *Geochem. Cosmochem.*, 33:1449-1453.

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1972 Atkinson, L. P. Electrolytic calibration technique for dissolved nitrogen determination in seawater by onstream stripping gas chromatography. *Anal. Chem.*, 44:885-887.

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1976 Atkinson, L. P. and J. Hall. Methane distribution and production in the Georgia salt marsh. *Estuarine Coastal Sci.*, 4:667-686.

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- 1976 Atkinson, L. P. Modes of Gulf Stream intrusions into the South Atlantic Bight shelf waters. *Geophys. Res. Lett.*, 4(12):583-586.
- 1977 Atkinson, L. P., W. M. Dunstan and J. Natoli. Analysis and control of volatile hydrocarbon concentrations (e.g. Benzene) during oil bioassays. *Water Air and Soil Pollution*, 8:235-242.
- 1978 Atkinson, L. P., J. O. Blanton, and E. Haines. Shelf flushing rates based on the distribution of salinity and freshwater in the Georgia Bight. *Estuarine Coastal Mar. Sci.*, 7(5):464-472.
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- 1983 Paluszkiwicz, T., L. P. Atkinson, E. S. Posmentier, and C. R. McClain. Observations of a loop current frontal eddy intrusion onto the West Florida Shelf. *J. Geophys. Res.*, 88(C14): 9639-9651.

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1985 Lee, T. N., V. Kourafalou, J. D. Wang, W. J. Ho, J. O. Blanton, L. P. Atkinson, and L. J. Pietrafesa. Shelf Circulation from Cape Canaveral to Cape Fear during Winter. In *Oceanography of the Southeastern U.S. Continental Shelf, Coastal and Estuarine Science*, Vol. 2, American Geophysical Union, 33-62.

1985 Yoder, J. A., L. P. Atkinson, S. S. Bishop, J. O. Blanton, T. N. Lee, and L. J. Pietrafesa. Phytoplankton dynamics within Gulf Stream intrusions on the Southeastern United States continental shelf during summer 1981. *Continental Shelf Res.*, 4: 611-635.

1985 Bush, K. A., J. O. Blanton, and L. P. Atkinson. Summary and future plans for South Atlantic Bight Oceanography. In Oceanography of the Southeastern U.S. Continental Shelf, L. P. Atkinson, D. W. Menzel, and K. A. Bush (eds.), *Coastal and Estuarine Science*, Vol. 2, American Geophysical Union, Washington, D.C., 153-156.

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1986 McClain, C. R., S. Y. Chao, L. P. Atkinson, J. O. Blanton, and F. de Castillejo. Wind driven upwelling in the vicinity of Cape Finisterre, Spain. *J. Geophys. Res.*, 91(C7): 8470-8486.

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1987 Atkinson, L. P. and T. J. Berger. Oceanographic Observations During Gale. *Chin. J. Oceanol. Limnol.*, 5(4):309-317.

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- 1989 Atkinson, L. P., E. Oka, S. Y. Wu, T. J. Berger, J. O. Blanton, and T. N. Lee. Hydrographic variability of southeastern United States shelf and slope waters during the GALE experiment: winter 1986. *J. Geophys. Res.*, 94(C8):10,699-10,713.
- 1989 Lee, T. N., E. Williams, J. Wang, R. Evans, and L. P. Atkinson. Response of South Carolina Continental Shelf Waters to Wind and Gulf Stream Forcing during Winter of 1986. *J. Geophys. Res.*, 94(C8):10,715-10,754.
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- 1991 McClean-Padman, J., and L. P. Atkinson. Baroclinic Circulation over the Blake Plateau. *J. Geophys. Res.*, 96(C11):20,42-120,432.
- 1991 Lee, T. N., J. Yoder, and L. P. Atkinson. Gulf Stream Frontal Eddy Influence on Productivity of the Southeast United States Continental Shelf. *J. Geophys. Res.*, 96(C12): 22,191-22,205.
- 1991 Moran, M., L. R. Pomeroy, E. S. Sheppard, L. P. Atkinson, and R. E. Hodson. Distribution of Terrestrially Derived Organic Matter on the Southeastern U.S. Continental Shelf. *Limnol. Oceanog.*, 36(6): 1,134-1,149.
- 1994 Blanton, J., F. Werner, C. Kim, L. Atkinson, T. Lee, and D. Savidge. Transport and fate of low density water in a coastal frontal zone. *Cont. Shelf Res.*, 14(4):401-427.
- 1994 Atkinson, L. P. and P. Tester. Low salinity water in the Gulf Stream off North Carolina. in *Special NOAA Report - Coastal Oceanographic Effects of Summer 1993 Mississippi River Flooding*, Michael J. Dowgiallo, Editor.
- 1994 Paffenhofer, G. A., L. P. Atkinson, T. N. Lee, P. G. Verity, and L. R. Bullock, III. Distribution and abundance of thaliaceans and copepods off the southeastern U.S.A. during winter, *Cont. Shelf. Research*, 15(2/3):255-280.
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- 1998 A. Valle-Levinson, C. Li, T. C. Royer and L. P. Atkinson. Flow regimes at the Chesapeake Bay entrance. *Cont. Shelf Res.*, 18, 1157-1177.
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JGOFS/LOICS Paper, in prep

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1977 Hofmann, E. E., L. J. Pietrafesa, L. P. Atkinson, G. A. Paffenhofer, and W. M. Dunstan. A mathematical model of nutrient distribution in coastal waters. Center for Marine and Coastal Studies, North Carolina State University, Technical Report No. 77-2.

1977 Pietrafesa, L. J., D. A. Brooks, R. D'Amato, and L. P. Atkinson. Preliminary data report, physical/dynamical observations made in Onslow Bay; summer, fall and winter, 1975. Center for Marine and Coastal Studies, North Carolina State University, Technical Report No. 77-05.

1977 Atkinson, L. P., G. A. Paffenhofer, and W. M. Dunstan. Hydrographic and biological observations at an anchor station off St. Augustine, Florida, 9-14 April 1975 (R/V EASTWARD Cruise E1G75). Georgia Marine Science Center Technical Report 77-4.

1977 Singer, J. J., L. P. Atkinson, W. S. Chandler, and P. G. O'Malley. Hydrographic observations in Onslow Bay, North Carolina: July-August 1976 (OBIS V), Data Graphics. Georgia Marine Science Center Technical Report 77-6.

1978 Atkinson, L.P. The results of four oceanographic cruises in the Georgia Bight. Georgia Marine Science Center Technical Report 78-1.

1978 Chandler, W. S., L. P. Atkinson, J. J. Singer, P. G. O'Malley and C. V. Baker. A CTD System: Description, operation, data acquisition and processing. Georgia Marine Science Center Technical Report 78-7.

1978 O'Malley, P. G., L. P. Atkinson, J. J. Singer, W. S. Chandler, and T. N. Lee. Hydrographic observations in the Georgia Bight (April 1977). Georgia Marine Science Center Technical Report 78-5.

1979 Deschamps, J. R., L. P. Atkinson, J. J. Singer, W. S. Chandler, and T. N. Lee. Hydrographic observations in the Georgia Bight (December 1976). Georgia Marine Science Center Technical Report 79-1. 97 pp.

1979 Atkinson, L. P., A. L. Edwards, J. J. Singer, W. S. Chandler, and G. A. Paffenhofer. Hydrographic observations in the Georgia Bight (July 1977). Georgia Marine Science Center Technical Report 79-3. 126 pp.

- 1979 McCarthy, J. E., L. P. Atkinson, J. J. Singer, and W. S. Chandler. Hydrographic observations off Savannah, Georgia (Winter/spring 1976).
- 1979 Lasley, S. R., L. P. Atkinson, J. J. Singer, and W. S. Chandler. Hydrographic observations in the Georgia Bight (April 1978). Georgia Marine Science Center Technical Report 79-5.
- 1979 Kim, H. H., C. R. McClain, L. R. Blain, W. D. Hart, L. P. Atkinson, and J. A. Yoder. Ocean chlorophyll studies from a U2 aircraft platform. NASA Technical Memorandum 80-574. 27 pp.
- 1980 Singer, J. J., L. P. Atkinson and W. S. Chandler. Onslow Bay XBT Data: 1975 (OBIS I, II, III and IV). Georgia Marine Science Center Technical Report 80-2. 114 pp.
- 1980 Singer, J. J., L. P. Atkinson, W. S. Chandler, and S. S. Bishop. Hydrographic observations off Savannah and Brunswick, Georgia (March, May and September, 1977 and January 1978). Georgia Marine Science Center Technical Report 80-1. 105 pp.
- 1986 Berger, T. J., W. S. Chandler, C. Kim, and L. P. Atkinson, SPREX. Preliminary hydrographic data report. ODURF Technical Report 86-1, Old Dominion University Research Foundation, Norfolk, Virginia. 105 pp.
- 1986 Lovingwood, R. L., K. A. Bush, W. S. Chandler, and L. P. Atkinson. GABEX II Hydrographic Data Report. ODURF Technical Report 86-3, Old Dominion University Research Foundation, Norfolk, Virginia.
- 1987 Berger, T. J., W. S. Chandler, C. Kim, and L. P. Atkinson. SPREX Hydrographic Data Report Volume 2 Cape Hatteras. ODURF Technical Report 87-1, Old Dominion University Research Foundation, Norfolk, Virginia.
- 1987 Chandler, W. S., C. Kim, E. Oka, S. Y. Wu, K. A. Bush, P. S. Maher, and L. P. Atkinson. GALE Hydrographic Data Report January 1986. ODURF Technical Report 87-5, Old Dominion University Research Foundation, Norfolk, Virginia. 355 pp.
- 1987 Chandler, W. S., K. A. Bush, C. Kim, T. J. Berger, and L. P. Atkinson. SPREX Hydrographic Data Report Volume 3 Chlorophyll and Nutrients. ODURF Technical Report 87-11, Old Dominion University Research Foundation, Norfolk, Virginia.
- 1988 Chandler, W. S. and L. P. Atkinson. SPREX Hydrographic Data Report Volume 4 R/V Cape Florida Station Profiles. ODURF Technical Report 88-2, Old Dominion University Research Foundation, Norfolk, Virginia. 201 pp.
- 1988 Chandler, W. S., E. Oka and L. P. Atkinson. SPREX Hydrographic Data Report Volume 5 R/V Cape Hatteras Surface Maps and Station Profiles. ODURF Technical Report 88-3, Old Dominion University Research Foundation, Norfolk, Virginia. 117 pp.

1988 Chandler, W. S., L. P. Atkinson, and C. Kim. FLEX Hydrographic Data Report R/V Iselin Station Profiles, Maps, Sections, SAIL, and Beach Data. ODURF Technical Report 88-5, Old Dominion University Research Foundation, Norfolk, Virginia. 180 pp.

1991 Chandler, W. S. and L. P. Atkinson. WINTER '90 Hydrographic Data Report CTD Station Profiles, Sections, Nutrients, SAIL. ODURF Technical Report 91-2, Old Dominion University Research Foundation, Norfolk, Virginia.

1997 Heilman, L., A. Valle-Levinson and L. P. Atkinson. Current conditions at the oceanographic systems test and evaluation facility (OSTEF): Final Report. CCPO Technical Report 97-02.

1998 Valle-Levinson, A. and L. Atkinson. Water circulation of the Nansemond River in the Vicinity of the Route 125 Bridge. Final Report. CCPO Technical Report 98-02.

1999 Woody, Catherine, Eddie Shih, Jerry Miller, Thomas Royer, Larry Atkinson and Richard Moody. Salinity measurements in the coastal ocean. Workshop Review. Sept. 1998. CCPO Technical Report 99-01.

#### **PROPOSAL REVIEW PANELS, ADVISORY COMMITTEES, EDITORIAL BOARDS, ETC.**

Member, EASTWARD Scheduling Committee, University National Oceanographic Laboratory System. 1976 to 1979.

Proposal Review Panel. National Science Foundation "Biological Effects of Coastal Upwelling." Annapolis, Md. 13 to 14 September 1979.

Program Review. U.S. Environmental Protection Agency "The Chesapeake Bay Program." Hampton, VA 26 - 30 November 1979.

Shoreline Assistance Committee, Department of Natural Resources, State of Georgia. Meets monthly to rule on shoreline construction permits, 1982 to 1986.

NASA OSTA1 Ocean Color Experiment in situ Experiment Team Member, 1983 to 1986.

Editorial Board, Springer-Verlag Lecture Note Series in Coastal and Estuarine Studies, 1983-1985.

Committee on effectiveness of oil spill dispersants in the ocean. National Academy of Sciences, National Research Council, Marine Board, 1985 to 1988.

Proposal Review Panel, National Science Foundation, Physical Oceanography, 1986.

Advisor to MMS Scientific Advisory Panel (NAS), 1988.

University National Oceanography Laboratory Ship Advisory Committee, 1988 to 1992.

Vice Chairperson to the Scientific Committee (SC) of the Outer Continental Shelf Advisory Board, Minerals Management Service, 1990 to 1992.

Coastal Ocean Prediction Systems Interim Scientific Planning Committee, 1989 to 1990.

U.S. WOCE Hydrographic Program Implementation Panel, 1989 to 1992.

University National Oceanographic Laboratory Ships Council, 1989 to 1991.

Chairperson of the Scientific Committee of the Outer Continental Shelf Advisory Board, Minerals Management Service, 1992 to 1994.

Member, Scientific Committee of the Outer Continental Shelf Advisory Board, Minerals Management Service, 1994 to 1995.

Chesapeake Research Consortium. Member of Board, 1993 to present.

Coastal Ocean Program. National Science Foundation, Member Steering Committee, 1994 - 1996.

Middle Atlantic Regional Research Program. Trustee, 1993 to 1995.

Fleet Improvement Committee, University National Laboratory Oceanographic System, Member, 1995 - 1997.

Subcommittee on Environmental Information for Select Outer Continental Shelf Areas under Moratoria. Department of Interior, Minerals Management Service, Co- Chair. 1996 - 1998.

Chair, Board of Trustees, Chesapeake Research Consortium. Member of Board, 1996 - 2001.

Fleet Improvement Committee, University National Laboratory Oceanographic System, Chair, 1997 - 2003.

National Research Council, Marine Board. 1998-2000.

National Association of State Universities and Land-Grant Colleges. Board of Oceans and Atmospheres. Member. 1998 to present.

University representative to the University Corporation for Atmospheric Research. 1999 - present.

Land-Ocean Interactions in the Coastal Zone (LOICZ) Continental Margin Task Team (CMTT) member. 1998 - present.

Minerals Management Service Workshop on the Physical oceanography of the slope and rise of the Gulf of Mexico. Workshop Chair. New Orleans. September 2000.

ICES Study Group on Management of Integrated Data. 2003 - Present

GOES-R HES Coastal Water imager Science Team. 2004 – present.

Mid-Atlantic Coastal Ocean Observing Regional Association, interim steering committee. 2004 – Present

Chesapeake Bay Observing System, interim steering committee, 2004 – present.

### **WORKSHOPS, MEETINGS, AND SYMPOSIA:**

Controlled Ecosystem Pollution Experiment, December, Miami, Florida, 1972.

Sources and Sinks of Carbon Monoxide and Methane Symposium, August 15-17, 1972, St. Petersburg, Florida.

Application of Mass Spectrometry to Environmental Problems, November 5-7, 1972, Athens, Georgia.

Global Atmospheric Transport Experiment, Miami, Florida, May, 1973.

Controlled Ecosystem Pollution Experiment, February 10-13, La Jolla, California, 1974.

"An oceanographic research program for the continental shelf off the S.E. United States." U.S. Energy Research and Development Administration, October 8-9, Augusta, Georgia 1974.

American Geophysical Union, April 16-20, 1973, Washington, D.C.

IDOE Symposium on Shelf Dynamics "Chemical and Physical Oceanography of the Georgia Shelf," April 3-6, 1974, Annapolis, Maryland.

Gordon Conference on Chemical Oceanography January 14-18, 1974, Santa Barbara, California.

American Society of Limnology Oceanography, June 1975, Halifax, Nova Scotia. Paper: "The volume, frequency and effect of Gulf Stream intrusions on the South Atlantic Bight."

American Meteorological Society, Symposium on the Marine Boundary Layer, Seattle, Washington, 29 March - 2 April, 1976.

American Institute of Biological Sciences, Symposium on the Ecology and Management of the Continental Shelf, New Orleans, Louisiana, 30 May - 3 June, 1976. Paper: "Physics

Chemical Processes in Continental Shelf Waters."

American Society of Limnology and Oceanography, Symposium of the South Atlantic Bight, Savannah, Georgia 21-24 June, 1976. Paper: "Hydrographic Observations in Onslow Bay."

American Meteorological Society, Symposium on the Marine Boundary Layer, Seattle, Washington, 29 March - 2 April, 1976.

American Institute of Biological Sciences, Symposium on the Ecology and Management of the Continental Shelf, New Orleans, Louisiana, 30 May - 3 June, 1976. Paper: "Physics Chemical Processes in Continental Shelf Waters."

"Conference on Environmental Studies Program on the South Atlantic Continental Shelf Area." Bureau of Land Management, October 1976, Atlanta, Georgia.

Workshop on Anoxia in the Mid-Atlantic Bight, Washington, D.C. October 15-16, 1976. National Science Foundation.

Southeastern Estuarine Research Society, "Nearshore Transfer Processes." Brunswick, Georgia, November 15, 1976.

Gordon Research Conference on Chemical Oceanography, "Chemical Transfer Processes in the South Atlantic Bight." Santa Barbara, California, January 24-27, 1977.

First Conference on the Continental shelf, "Intrusions and Flushing." Raleigh, North Carolina, March 30 - April 1, 1977.

Estuarine Research Society, "Chemical and physical transfer processes in the coastal zone off Georgia." Mt. Pocono, PA, 3-5 October, 1977.

Nearshore Ecosystems, Duke University Marine Laboratory, Beaufort, North Carolina, 2-3 December 1977.

Gordon Research Conference on Chemical Oceanography, "Chemical Transfer Processes in the South Atlantic Bight." Santa Barbara, California, January 24-27, 1977.

First Conference on the Continental Shelf, "Intrusions and Flushing." Raleigh, North Carolina, March 30 - April 1, 1977.

Estuarine Research Society, "Chemical and physical transfer processes in the coastal zone off Georgia." Mt. Pocono, PA, 3-5 October, 1977.

Conference on Nearshore Ecosystem, "Chemical and physical processes in coastal waters." Florida State University, Tallahassee, 13-15 April, 1978.

American Society of Limnology and Oceanography Annual Meeting, "The volume and effect of Gulf Stream intrusions in Onslow Bay and a predictive model,"

Space and Time Symposium. Victoria, B.C., 19-22 June, 1978.

Southeastern Estuarine Research Federation, Hilton Head, SC, 26-28 October, 1978.

American Chemical Society, Savannah, GA, 6-10 November 1978. Talk: "Tracers of river water in the coastal zone."

Grundy CTD Conference, San Diego, CA, 12-15 March, 1979. Talk: "9825 based CTD data acquisition system."

American Geophysical Union, Washington, 17-21 June, 1979. Talk: "Topographical influences on the Gulf Stream." (with J. O. Blanton).

Bureau of Land Management. "Environmental Effects of Oil Exploration on the Outer Continental Shelf." Atlanta, Georgia 8-9 November 1979.

International Symposium on Coastal Upwelling. Three co-authored papers were presented: "Upwelling along the Gulf stream front of the southeastern coast of the United States;" "Upwelling processes in the South Atlantic Bight;" "Upwelling off the southeastern coast of the United States an overview." University of Southern California, Los Angeles, CA. 4-8 February, 1980.

U.S. Department of Energy. "Environmental Consequences of Offshore Thermal Energy Conversion." Brookhaven National Laboratory, Upton, New York, 22 - 24 January, 1980.

American Geophysical Union, San Francisco, CA. December 1980. Talk: "Oceanographic climatology of the southeastern U.S. continental shelf waters."

American Society for Limnology and Oceanography, Seattle, WA. December 1980. Talk: "Nutrient sources to the southeastern U.S. shelf waters: rivers, recycling, and the Gulf Stream."

American Geophysical Union, San Francisco, CA. December 1981. Talk.

American Geophysical Union ASLO Joint Meeting, San Antonio, TX. February 1982. Talk.

Workshop on Gulf Stream Structure and Variability. Raleigh, North Carolina April, 1982.

American Society for Limnology Oceanography Raleigh, NC, June 1982. "Hydrography and nutrients in the SAB."

American Geophysical Union San Francisco, CA, December 1982. Talks.

NORDA. "Chemical Variability in Frontal Regions." Bay St. Louis, Mississippi, September, 1983.

American Society for Limnology Oceanography/American Geophysical Union New Orleans, January 1984. "Overview of OPUS."

ONR workshop on Coastal Transition Zone. Monterey, CA 8-10 May 1984, invited panel leader.

University of Delaware, Invitational Seminar Series, Oct. 1985, "Physical hydrography of upwelling near Pt. Conception, California."

University of Maryland, Invitational Seminar Series, Oct. 1985, "Physical hydrography of upwelling near Pt. Conception, California."

NSF Workshop of Global Ocean Ecology. Wintergreen, VA, 10-13 May 1988.

Duke University Marine Laboratory, June 1988, "What we have learned about shelf dynamics in the last 20 years." 50th Anniversary Celebration invited speaker.

American Geophysical Union Baltimore, MD, June 1988. Talk: "Hydrographic Variability During Gale."

University of North Carolina, Marine Sciences Seminar, April 5, 1989. Talk: "Nitrate and Buoyancy Fluxes on the Southeastern U.S. Continental Shelf: Results from GALE."

ODU Alumni Associate/Academic Affairs Committee, Norfolk, Virginia, January 24, 1990. Talk: "Review of CCPO."

ODU Alumni Association/Young Alumni Council, Norfolk, Virginia, May 2, 1990, "Oceanography at ODU."

Duke Marine Laboratory and National Marine Fisheries Laboratory, Beaufort, North Carolina, April 1991, "Nutrient Flux to the Shelf During Winter Conditions."

Horn Point Environmental Laboratory, Cambridge, Maryland, October 9, 1991. Talk: "Comments on Nutrient Supply to Shelves."

American Geophysical Union, Ocean Sciences Meeting, New Orleans, Louisiana, January 1992. Paper presented: "Gulf Stream Frontal Eddy Influence on Productivity of the Southeast U.S. Continental Shelf."

The Oceanography Society. February 1993. "Hydrography of the Old Bahama Channel." Seattle, WA.

IAI Workshop on Comparative Studies of Oceanic, Coastal, and Estuarine Processes. "Eastern United States coastal processes and global change." (invited). August 1993. Montevideo, Uruguay.

American Geophysical Union, Ocean Sciences Meeting, San Diego, California. February 1994. "Low salinity water into the North Atlantic Ocean".

Northeastern Gulf of Mexico Physical Oceanography Workshop. Minerals Management Service. Invited Convener. April 5 - 7, 1994. Tallahassee, Florida

Nitrogen Dynamics in the North Atlantic. UNESCO/SCOR. Block Island. May 8-14. 1994. Invited participant.

American Geophysical Union, Spring Meeting, Baltimore. June 1995. "Critical aspects of the shelf break in cross-shelf transfer." Invited.

*Workshop on Global Change Research in the Americas*, August 28-30, 1995, Belém, Brazil

LOICZ Open Science Meeting, Noordwijkerhout, The Netherlands, November 1997, "Role of shelf-ocean exchange on material flux". Invited.

LOICZ Continental Margin Task Team, Texel, The Netherlands, November 1997. "Processes that exchange material across the continental margin". Invited.

American Society of Naval Engineers, Tidewater Section, Virginia Beach, November 1997, Environmental Symposium, 97. Invited Moderator.

Minerals Management Service, Department of the Interior, New Orleans, Dec 1997. Information Transfer Meeting. "Physical Setting/Description of the Manteo Area". Invited Presentation. Tom Curtin and Lorraine Heilman co-authors.

American Geophysical Union, Ocean Sciences Meeting, San Diego, Feb. 1998. Co-Author on 4 papers and posters.

Hydrographic Surveying for Nautical Charting. Course offered in Seattle, Washington. April 1998. Coordinator in cooperation with College of Sciences, Continuing Education and NOAA Office of Charting.

Great Australian Bight Workshop. Invited Paper. September 1998. Port Lincoln, South Australia, Australia.

1999 Atkinson, L. P., Lorraine Heilman and Tom Curtin. Bathymetric and physical oceanographic description of the Manteo Lease Area. p. 497-508. U. S. Department of the Interior, Minerals Management Service, Gulf of Mexico OCS Region, New Orleans, La. OCS Study MMS 99-0042. 710 pp. Invited Presentation.

1999. Charleston Bump Colloquium. Charleston, South Carolina. Oct. 1999. "Gulf Stream and shelf physical oceanography at the Charleston Bump: Deflection, bimodality, meanders and upwelling. Bane, Atkinson, and Brooks. Presented by Bane.

2000. Continental runoff and ocean margin fluxes. Atkinson, Royer, Grosch, Sugimoto and Curtin. Invited Presentation. AGU/ASLO Ocean Sciences, January 2000.

2000. Carbon fluxes at continental margins: a strategy for global synthesis. Liu, Hall, Talaue-McManus and Atkinson. Invited Poster. AGU/ASLO Ocean Sciences, January 2000. Presented by Liu.

2000. Transverse variability of the flow in an energetic tidal channel. Caceres, Valle-Levinson and Atkinson. AGU/ASLO Ocean Sciences, January 2000. Presented by Caceres.

2000. Near-shore and shelf dynamics. AGU/ASLO Ocean Sciences, January 2000. Invited Presider.

2000. Continental margin biogeochemical fluxes I: Regional Studies. AGU/ASLO Ocean Sciences, January 2000. Invited Presider.

2000 Observations along the Chilean coastline and comments on the ocean margins. University of Concepcion. December 2000. Invited presentation.

2001 Ocean margins and the global carbon assessment: status and continental task team activities. IGBP Open Science Meeting. Amsterdam. Invited Presentation.

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2005 The Second Annual IOOS Implementation Conference, "Setting National Priorities for the Integrated Ocean Observing System: The U.S. Ocean and Coasts Contribution to the U.S. IEOS. May 3-5, 2005, Arlington, VA.

2005 The International Council for the Study of the Sea Study Group on Management of Integrated Data (SGMID)\* (Co-chairs: Peter Wiebe, USA, and Christopher Zimmermann, Germany), at IPIMAR,\* Lisbon, Portugal from 11-13 April 2005

2005 The Oceanography Society June 6-10, 2005 at UNESCO Headquarters, Paris, France. DEVELOPMENT OF A SURFACE CURRENT MAPPING SYSTEM USING HIGH FREQUENCY RADAR FOR U.S. COASTAL WATERS Larry P. Atkinson, Jack Harlan (NOAA).

2006 US/EU-Baltic International Symposium. May 23-25, 2006. Klaipeda, Lithuania. "Establishing a National HF Radar Network for the U.S. IOOS". Larry Atkinson and Jack Harlan.

2007 Marine Technology Society Oceans 2007, Vancouver, BC. Surface Current Mapping in the Lower Chesapeake Bay, Larry Atkinson; Teresa Garner; Jose Blanco

2008 MTS Oceans 2008, Oct 2008, Quebec City, Quebec. 15-18 September. "Surface Current Mapping in the Lower Chesapeake". Larry Atkinson, Jose Blanco and Teresa Garner.

2008 State of Knowledge of the Southwest Atlantic Ocean Margin, Montivideo, Uruguay. 16-22 November. "Biogeochemical fluxes in the South Atlantic in the Global context". Larry Atkinson.

2008 Environmental Research Needs in Support of Potential Virginia Offshore Oil and Gas Activities, Dec. 3-4, MMS Workshop, Williamsburg, VA. "Physical oceanography of the Virginian Sea", Larry Atkinson.

2009 American Meteorological Society Summer Community Meeting, Norman, Oklahoma, 10-13 August. Measurement and model requirements for offshore wind energy. Larry Atkinson and Jose Blanco.

2009 Marine Technology Society Annual Meeting, Biloxi, MS, Oct. 26-29, 2009. "HFR surface currents observing system in lower Chesapeake Bay and Virginia coast", Larry Atkinson, Teresa Garner, Jose Blanco, Chris Paternostro, Patrick Burke.

2010 OCB NACP Coastal Carbon Synthesis Workshop Agenda December 11-12, 2010 San Francisco, CA. "Plenary talk: Continental shelf-ocean exchange". Larry Atkinson, Jose Blanco and John Huthnance.

#### **Presentations related to Ocean.US activities**

2002 Feb. Hawaii NOPP town hall with Yoder

2002 July 9. Va Tech

2002 September 12. Scripps Faculty meeting

2002 September 12. Scripps Observing System conference with politicians

2002 September 25. UNOLS Meetings in DC

2002 October 7. CCPO ODU

2002 October 9. Ann Arbor USGOSSC

2002 October 22. NRC Committee on Implementation of Seafloor Observatories.

2002 October 24. Mid-Atlantic Bight Meteorology and Oceanography Meeting at CCPO

2003 31 March and 1 April. Regional Summit in DC.

2003 7-11 April. EGU-AGU Poster Presentation. Nice, France.

2003 29 April. SURA Committee on SCOOP. DC.

2003 5-8 May. JGOFS Final Open Science Meeting. Invited Presentation.

2003 20 May. "Internet-scale Sensing Infrastructure for Oceanography". Sponsored by Intel, OSU and NSF. Skamania, WA

2003 21-23 May. "Information technology (IT) needs to support ocean research in the coming decade". Skamania, WA

2003 4-6 June TOS/OI. Poster Presentation. New Orleans.

2003 17 June. Poster Exhibit. Council for National Science Funding. Washington DC.

2003 23-24 June. CSC Regional RFP panel review. Charleston, SC

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### **CONSULTING:**

USDI, Bureau of Land Management

Texas Instruments,

Exxon

Science Applications International Corporation (SAIC)

JAYCOR, Inc.

ARCO

Dynalysis of Princeton

Falcon Drilling

Hunton and Williams

### **OTHER:**

Local Chairman, American Society of Limnology and Oceanography, Annual Meeting 1976. Savannah, GA.

Coordinator for the Department of Energy Workshop on the Ocean Margins, Virginia Beach, Virginia, June 1990.

External Reviewer, Department of Applied Ocean Physics, Rosenstil School of Marine and Atmospheric Sciences. University of Miami, March 1994.

Quality Review Board, MMS and Scripps Institution of Oceanography, "Santa Barbara Channel Study" 1995 to Present.

Quality Review Board, MMS and Science Applications International Inc., "Desoto Canyon Study". 1997 to Present.

**COURSES TAUGHT:**

Ocean 605 Introductory Physical Oceanography, 1986-1990

Ocean 602 Methods in Physical Oceanography, 1986-1992

Ocean 710/810 Descriptive Regional Oceanography, 1991-1994, 2002

Ocean 405/505 - Physical Oceanography. 1996.

Ocean 306 – Survey of Oceanography. Fall 1998, Spring 1999, Fall 1999, Spring 2000.

Ocean 691 - Seminar. F1997, S1998.

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Ocean 711/811 - Regional Oceanography - Fall 2005

Ocean 895 - Seminar in ocean observing - Fall 2005

Special Topics on a variety of topics

**UNIVERSITY SERVICE:**

1987 - 1988 Committee on the University's Mission and Objectives

1988 - 1990 Committee for Academic Affairs Strategic Planning

1992 - 1997 Chair, Department of Oceanography

1991 - 2004. Director, Center for Coastal Physical Oceanography

1998 - 2000 Faculty Senate

1998 - 2004. Executive Director. Cooperative Institute of Coastal Physical Oceanography.

1999 - 2000 Chair, Promotion and Tenure Committee. Faculty Senate.

2002 - Present. University Eminent Scholars Committee

2004 – Present Coordinating Maritime Initiative at ODU

2005 - Present. Department Promotion and Tenure Committee

2005 - Present. Undergraduate Committee.

**STUDENTS GRADUATED or Current Students:**

Lovingwood, Rebecca L., August 1987. Thesis, "Processes Which Create and Destroy Stratification in the South Atlantic Bight During GABEX II." L. P. Atkinson, Chmn., L. Y.

Maher, Patmarie S., December 1988. Nonthesis Master's Degree.

Kim, Cheolsoo, December 1990, Ph.D. Thesis, "Freshwater Transport on the Continental Shelf of the Southeastern United States ." L. P. Atkinson, Chmn., G. T. Csanady, J. Klinck, J. O. Blanton.

Becker, Peter, August 1995, Ph.D. Thesis, "The Effect of Arctic River Hydrological Cycles on Arctic Ocean Circulation". L. P. Atkinson, Chmn, J. Klinck, A. D. Kirwan, S. Levitus.

David Ruble, December 1996. Non-thesis Master's Degree.

Moody, Richard. 1999. Non-Thesis Master's Degree

Chris Katzenmiller. 2005. MS.

Jose Blanco. 2004. PhD

**STUDENT COMMITTEES** at Old Dominion University

Moses, Joy. 1986. MSc. "Storm surge predictions at Sewell's Point with local wind, pressure, and previous surge as surge predictors in Chesapeake Bay"

Pelegri, Jose Lius. 1992. PhD. "Diapycnal mixing and mass transfer in western boundary currents"

Hommel, Dorlisa L. 1992. MSc. "Plankton transport patterns and residence times around a tall seamount: simulation results"

Moisan, John. 1993. PhD. "Modeling nutrient and plankton processes in the California coastal transition zone"

Mullen, Caitlin P. 1994. PhD. "Flow kinematics and dynamics of the Gulf Stream from composite imagery"

Dekshenieks, M. M. 1996. PhD. "The effects of environmental variability on the population structure of the eastern shore oyster (*Crassostrea virginica*): a modeling study"

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Eggelston, Jana. MS.

Eggelston, Robert. MS

Lane, Ruth MS.

Kumar, Ajoy. 1996. PhD. "Observation of shelfwater overturning the southern slope sea"

Reiss, Chris. 1997. PhD. "Influence of physics on the distribution of ichthyoplankton across the Chesapeake Bay plume"

Smith, David 1999. PhD.

#### **STUDENTS ADVISED** or Graduated at other Universities (in recent years)

Miller, Jerry. 1992. PhD. University of Miami. "Gulf Stream meanders and frontal eddies in the South Atlantic Bight" (on committee)

Goschen, W. S. 1991. PhD. University of Port Elizabeth, South Africa. "Ocean dynamics associated with prominent capes and bays off the south coast of South Africa" (on committee)

O'Malley, P. G. 1981. MSc. Georgia Institute of Technology. "The effect of summertime shelf break upwelling on nutrient flux in southeastern United States continental shelf waters" (advisor)

#### **FUNDING HISTORY**

Prior to 1990 my funding was primarily several large grants from the Department of Energy and the National Science Foundation. Over that period the total amount of funding was approximately \$2.6M.

In the 90's my funding involved support for CCPO and personal efforts to develop international collaborative efforts with universities in Chile. The Center was been supported by a grant from the Commonwealth at levels of ca \$800,000 per year between 1991 and 1995, and at the \$300,000 per year level since then.

In the late 90's and early 2000's I was supported by a \$2.5M Coastal Ocean Technology System grant (earmark) initiative for the Virginia Coastal Ocean Observing System. I also had a grant of \$220,00 from ONR for work with VT and \$169,999 for work with the Wallops group.

Recently I have funding from NOAA via Rutgers to maintain the CODAR sites in the lower Bay and coastal Va. Also have funding from MMS and (DOE maybe) for offshore wind research.

See Current and Pending for up to date list.

### **Proposals Submitted and Funded**

Started in 1999 to keep track of proposals for the University bookkeeping.

"U.S. - Chile Program: A study of the marine ecosystem of the Chilean Inland Sea" a NSF international programs project. 4/1/96 - 3/31/99. \$57,569.

Continued funding for work in Chile and other parts of the East Pacific will be provided by a grant to SIO and CICESE to form an "Eastern Pacific Consortium". I'm on the steering committee.

"Research opportunities for Program Officers (ROPO) for Dr. Tom Curtin" from the Office of Naval Research. 2/1/95 - present. \$42,000. \$14,000 per year.

"Nutrient fluxes through the Chesapeake Bay mouth". \$77,764. With Arnaldo Valle-Levinson and Lou Codispoti. 2/1/1999 to 1/31/2000. In for renewal.

A collaboration with NOAA/NOS has resulted in a \$50k contract to start an Instrument Field Evaluation Site in the lower Chesapeake Bay. This continues at about \$50k per year.

"Support for the Office of the Fleet Improvement Committee Chair to Develop the Biennial Review". Sub-contract from URI. NSF Funding. 5/1/99 to 4/31/00. \$10,000.

"IPA Funding for Gary Magnuson". NOAA. Annually ending 3/31/00. \$400,000 total.

"Various NOAA task orders". NOAA. About \$50,000 annual.

"Biological responses to topographically induced upwelling of the Gulf Stream". With G. Paffenhoffer and others. NSF. \$1,229,687. Declined. 12/99.

"Development and testing of an antifouling method for the measurement of salinity". Tom Royer PI, Atkinson, Shoenbach. NSF. \$199,000. Funded.

"Development of a stratification parameter as an indicator of Chesapeake Bay Health". EPA. \$23,000. 1999. Declined. Co PI's. Grosch, Klinck, Royer, Valle-Levinson and Locarnini.

"Analysis of long term trends in Chesapeake Bay". EPA. \$23,000. Declined.

"Support for JGOFS/LOICZ workshop of CMTT on eastern and western boundary currents". LOICZ/JGOFS. \$20,000. December 2000. Funded.

"Community Planning for Ocean Observations, Long Term Time Series and Observatory Systems". About \$300,000. NSF. August 2001. Funded through 2005 with no cost extensions.

"Heterogeneous teams of autonomous vehicles: advanced sensing and control". \$220,000. July 2005 to July 2006. Office of Naval Research.

"Coastal Obs II". \$169,000 from NOAA via CIT. One year ending 2006.

Not up to date – see current and pending

**Local Service** (for the university, started 1/1/00)

January, 2000 Presentation to Crab Creek Dredging Educational Forum. Norfolk. Invited by neighborhood association.

Occasional advisor to Elizabeth River Project

Organizing Virginia Coastal Ocean Observing System with local maritime community.

Organizing a local section of the Marine Technology Society.

2010 – lead for ODU Climate Change and Sea Level Rise Initiative