

## James A. Yoder, Biographical Sketch

### Education

1970 B.A. Botany, DePauw University  
1974 M.S. Oceanography, University of Rhode Island  
1979 Ph.D. Oceanography, University of Rhode Island

### Experience

2005- Vice President for Academic Programs and Dean. Senior Scientist in Chemistry Department. Woods Hole Oceanographic Institution, MS #31, Woods Hole, MA 02543; Telephone 508-289-2200, FAX 508-457-2188; Email <jyoder@whoi.edu>

1989-2005: Graduate School of Oceanography, University of Rhode Island. Promoted to Professor, July, 1992, tenure granted in July, 1993. Associate Dean of Oceanography, 1993-1998. Interim Dean of Oceanography, January, 2000 -July, 2001.

2001- 2004: Intergovernmental Personnel Agreement (IPA) assignment as Director, Division of Ocean Sciences (OCE), National Science Foundation (NSF). Chair, National Ocean Partnership Program (NOPP) Interagency Working Group (IWG), 2001-2004; Member, NOPP Executive Committee (EXCOM); NSF Representative to Council of Environmental Quality (CEQ) Interagency Ocean Policy Group (IOPG); NSF Representative to the Joint Subcommittee for Oceans; NSF Representative to the Marine Mammal Commission (MMC) Advisory Committee on Acoustic Impacts on Marine Mammals; Alternate U.S. Delegate to the Group on Earth Observations (GEO).

1996-97: Intergovernmental Personnel Agreement assignment to NASA Headquarters. Program Manager of Ocean Color/Oceanic Biology/Biogeochemistry Program in the Mission to Planet Earth Division.

1986-88: Visiting Senior Scientist, Jet Propulsion Laboratory. Assigned as: Manager, Ocean Productivity Program, Oceanic Processes Branch, NASA Headquarters.

1978-89: Skidaway Institute of Oceanography, University System of Georgia. Promoted to Professor, 1989. ( 2-year leave of absence, 1986-88).

### Synergistic Activities

2006-: Chair of the International Ocean Color Coordinating Group (IOCCG) (SCOR). Represents IOCCG to the Scientific Committee on Oceanic Research (SCOR) and to the Committee on Earth Observing Satellites (CEOS).

2005-: Carbon Cycle Scientific Steering Group which meets twice per year to discuss carbon cycle research priorities with representatives from 7 Federal agencies; Chair: 2005-2007.

2006-2007: Member, Committee on Scientific Accomplishments of Earth Observations from Space. Board on Atmospheric Sciences and Climate, NAS/NRC.

2005-2007: ORION Executive Steering Committee (NSF); Chair: 2006-2007.

2003-2005: Member, NASA's Earth System Science and Applications Advisory Committee (ESSAAC).

2000-2002 : President, The Oceanography Society (TOS).

### Recent Scientific Publications Relevant to this proposal

- 2006** Yoder, J.A. and M.A. Kennelly. What have we learned about ocean variability from satellite ocean color imagers? *Oceanography* 19: 152-171.
- 2004** Uz, M. and J.A. Yoder. High frequency and mesoscale variability in SeaWiFS chlorophyll imagery and its relation to other remotely sensed oceanographic variables. *Deep-Sea Res. II*, **51**: 1001-1017
- Schollaert, S.E., T. Rossby and J.A. Yoder. Gulf Stream cross-frontal exchange: possible mechanisms to explain inter-annual variations in phytoplankton chlorophyll in the Slope Sea during the SeaWiFS years. *Deep-Sea Res. II*. **51**: 173-188.
- 2003** Yoder, J.A. and M.A. Kennelly. Seasonal and ENSO Variability in Global Ocean Phytoplankton Chlorophyll Derived from Four Years of SeaWiFS Measurements. *Global Biogeochemical Cycles*, **17** (4), 1112.
- 2001** Uz, M., J.A. Yoder and V. Osychny. Global remotely sensed data supports nutrient enhancement by eddies and planetary waves. *Nature*. **409**: 597-600.

#### **Other Scientific Publications**

- 2005** Mouw, Colleen B., and James A. Yoder. Primary production calculations in the Mid-Atlantic Bight, including effects of phytoplankton community size structure. *Limnol. Oceanogr.* 50: 1232-1243.
- 2002** Yoder, J.A., S.E. Schollaert and J.E. O'Reilly. Climatological phytoplankton chlorophyll and sea-surface temperature patterns in continental shelf and slope waters off the Northeast U.S. coast. *Limnology and Oceanography* **47**:672-682.
- Siegel, D.A., S. C. Doney, and J. A. Yoder, The North Atlantic spring phytoplankton bloom and Sverdrup's critical depth hypothesis, *Science*, **296**: 730-733.
- 2001** Yoder, J.A., J.K. Moore and R. N. Swift. Putting together the big picture: Remote-sensing observations of ocean color. *Oceanography* **14**:33-40.
- McGillicuddy, D.J., Jr., V.K. Kosnyrev, J. Ryan, and J.A. Yoder. Covariation of mesoscale ocean color and sea surface temperature patterns in the Sargasso Sea. *Deep-Sea Research II* **48**: 1823-1836.

**Collaborators Outside WHOI and URI Within the Past 48 Months:** D. Karl (UH), M. Uz (U.Md), M. Follows (MIT), H. Ducklow (U. Md), E. Hofmann (ODU), C. McClain (NASA-GSFC), S.E. Schollaert (U. Md), P.S. Bontempi (NASA HQ), N. B. Nelson (UCSB), D.A. Siegel (UCSB), J.E. O'Reilly (NOAA-NMFS), J. Campbell (UNH), D. Antoine (France), W. Balch (Bigelow), M. Behrenfeld (OSU), N. Hoepffner (JRC), Lohrenz (USM), J. Marra (LDEO), A. Morel (France), J. Ryan (MBARI), M. Briscoe (ONR), M. McNutt (MBARI), P. Jumars (U. Maine), A. Clark,

**Postdoctoral Advisor:** D.Menzel, Skidaway Institute of Oceanography

**Graduate Advisor:** T.J. Smayda, University of Rhode Island

**Graduate Students** (Total 5 Ph.D., 8 M.S.) and list of advisees during past 5 years.

Dr. Darryl Keith, Ph.D. 2004, U.S. Environmental Protection Agency, Narragansett, RI.

Ms. Colleen Mouw, MS. 2004, Ph.D. candidate, University of Rhode Island