



**NATURAL RESOURCES MANAGEMENT OFFICE**  
2725 Judge Fran Jamieson Way, Building A-219, Viera, FL 32940

**Save Our Indian River Lagoon Citizen Oversight Committee  
Volunteer Application**

**Due: October 1, 2016**

**Name:** John G. Windsor, Jr.  
**Mailing Address:** 2324 S Fairway Drive  
**City:** Melbourne **State:** Florida  
**Zip Code:** 32901  
**Phone:** 321-725-8914 **Cell Phone:** Click here to enter text.  
**Email:** jwindsor@fit.edu

**Basic Requirements and Duties of Oversight Committee Members**

Applicants must commit to serving the public interest by providing stewardship of Lagoon Trust Funds, especially in relation to restoring health to the Indian River Lagoon, and must demonstrate expertise and experience in one or more of the following fields: science, technology, economics/finance, real estate, education/outreach, tourism, or lagoon advocacy. Knowledge of the water quality issues and the major sources of pollution affecting the lagoon are highly desirable.

Members will oversee progress and make recommendations to the Brevard County Board of County Commissioners (BOCC) on spending an estimated \$303 million from sales tax revenue to **Reduce** pollution sources to the lagoon, **Remove** legacy pollution from the lagoon bottom, **Restore** natural systems within the lagoon, and **Respond** to new information by recommending annual amendments to the Save our Indian River Lagoon Project Plan (SOIRLPP). Duties will include participation in meetings to evaluate data to measure progress towards plan implementation and lagoon health, review technology and alternative project proposals for reducing pollutants and improving water quality, assess the cost-effectiveness of the projects, and recommend plan revisions accordingly. The Committee shall address questions, concerns, and ideas from the public to improve the SOIRLPP. Applicants must be willing to ensure that the SOIRLPP reflects the most effective, timely and responsible means to restore the Indian River Lagoon and that the Save Our Indian River Lagoon Trust Fund is managed in the best interest of the public.

Please complete the following questions and statements.

1. Do you reside in Brevard County? Yes  No  Number of years 35

2. Are you willing to serve on the Committee for a minimum of two (2) years and be available to attend multiple weekday meetings annually, as needed? Yes  No

3. Please check next to one or more of the following that best match(es) your expertise:

Science

Economics/Finance

Education/Outreach

Lagoon Advocacy

Technology

Real Estate

Tourism

**FOR THE QUESTIONS BELOW, RESPONSES MAY BE UP TO ½ PAGE EACH**

4. Please list one or more reasons why you are personally interested in applying to serve as a member of the Save Our Indian River Lagoon Oversight Committee.

I have served on committees overseeing the health of the IRL for more than 3 decades. Governor's task force on IRL, SWIM Plan Development, IRLCCMP, and served as TAC Chair for the IRL NEP Technical Advisory Committee for more than 20 years. This plan is important and we need to ensure that restoration approaches taken are the best chosen at the time.

5. Please provide a brief overview of your background and experience (education, professional experience, and community volunteer experience) as it relates to your understanding of the SOIRLPP and the restoration needs of the Indian River Lagoon.

MA and Ph.D. from the College of William and Mary, Marine Science

Professor, Oceanography and Environmental Science, Florida Tech, 34 years; currently Professor Emeritus

As mentioned above, served as IRLNEP Technical Advisory Committee Chair for more than 20 years. I was the first chair.

I served as the facilitator of eight working groups of Brevard County citizens to develop the CM3P.

I think I understand the SOIRLPP pretty well. I helped to review it and helped to present it to the County Commission at the request of Natural Resources staff.

DRAFT Application Form 9/19/2016

6. Please describe what character, judgment, analytical, communication, and group consensus building strengths you would contribute to the purposes and duties of Save Our Indian River Lagoon Oversight Committee?

In addition to IRLNEP Chair for more than 20 years, I served as the facilitator of eight working groups of Brevard County citizens to develop the CM3P. Eight working groups made up of different stakeholders meeting every two weeks for several months over years to develop the plan.

7. Please describe the importance of committee members putting public interests first and avoiding real or perceived conflicts of interest in making recommendations for expenditure of the Save Our Indian River Lagoon Trust Funds.

In many of the committees on which of I have served, conflict of interest or perceived conflict of interest has been very important. Public interest must come first and I would always abstain where appropriate and have done so in the past.

**Additional Requirements**

In addition to this application, a resume/CV and at least one letter of recommendation are required. The letter of recommendation can be a personal recommendation from a professional in the same field and/or an endorsement by a reputable nonprofit organization.

**Send your application, resume, and letter(s) of reference to:**

Marie Winkler, Administrative Assistant to the Director

[Marie.Winkler@brevardfl.gov](mailto:Marie.Winkler@brevardfl.gov)

Phone: 321-633-2016, Fax: 321-633-2029

JOHN G. WINDSOR, JR.

Professor Emeritus, Oceanography and Environmental Science  
Department of Ocean Engineering and Science  
Florida Institute of Technology, Melbourne, Florida 32901  
321-674-7300, [jwindsor@fit.edu](mailto:jwindsor@fit.edu)

Professional Preparation

B.S., PMC Colleges, 1969 (Chemistry)  
M.A., College of William and Mary, 1972 (Marine Science)  
Ph.D., College of William and Mary, 1977 (Marine Science)

Appointments

2001-2016 Program Chair, Oceanography & Environmental Sciences. Department of Marine and Environmental Systems, Florida Institute of Technology  
1995-2016 Program Chair, Environmental Sciences, Division of Marine & Environmental Systems, Florida Tech.  
1992-2016 Professor, Division of Marine & Environmental Systems, Florida Tech.  
1982-1992 Associate Professor, Department of Oceanography & Ocean Engineering, Florida Tech.  
1978-1982 Sr. Project Scientist, Environmental Chemistry, Northrop Services, Inc., R.T.P., North Carolina.  
1976-1978 Research Associate, Department of Chemical Engineering, M.I.T., Cambridge, Massachusetts.  
1969-1976 Teaching/Research Assistant/Associate, Chemical Oceanography, V.I.M.S., Gloucester Point, Virginia.

Professional Interests

Organic geochemical processes; the transport and fate of naturally occurring and anthropogenically produced chemicals in the environment; environmental trace organic analysis. Dissolved oxygen depletion and eutrophication in coastal waters. Long term fate of the Indian River Lagoon system. The historical perspective of pollution. Environmental outreach. Environmental resource management and coastal zone management.

Publications

Smith, C.L., W.G. MacIntyre, C.A. Lake, J.L. Lake, and J.G. Windsor, Jr. 1976. Effects of Tropical Storm Agnes on the nutrient flux and distribution in the Lower Chesapeake Bay. Chesapeake Research Consortium, Inc., Publication No. 54, pp. 299-311.

Windsor, Jr., J.G., R.E. Laflamme, and R.A. Hites. 1979. Technical comment on neoplastic skin lesions in salamanders from a lagoon containing perylene. *Science* 198, 1280-1281.

Windsor, Jr., J.G. and R.A. Hites. 1979. Polycyclic aromatic hydrocarbons in Gulf of Maine sediments and Nova Scotia soils. *Geochimica Cosmochimica Acta* 43, 27-35.

Hites, R.A., R.E. Laflamme, and J.G. Windsor, Jr. 1980. Polycyclic aromatic hydrocarbons in marine/aquatic sediments. In: *Petroleum in the Marine Environment*, L. Petrakis and F.T. Weiss, (eds.), *Advances in Chemistry* 185, 289-313. American Chemical Society, Washington, D.C.

Hites, R.A., R.E. Laflamme, J.G. Windsor, Jr., J.W. Farrington, and W.G. Deuser. 1980. Polycyclic aromatic hydrocarbons in an anoxic sediment core from the Pettaquamscutt River (Rhode Island, USA). *Geochimica Cosmochimica Acta* 44, 873-879.

Hites, R.A., R.E. Laflamme, J.G. Windsor, Jr. 1980. Polycyclic aromatic hydrocarbons in the marine environment: Gulf of Maine sediments and Nova Scotia soils. In: *Hydrocarbons and Halogenated Hydrocarbons in the Aquatic Environment*. D. Mackay(ed) 397-405. Plenum Press, New York, NY.

Russwurm, G., J. Stikeleather, and J.G. Windsor, Jr. 1981. The design of a new sampling cartridge for the collection of organic vapors. *Atmospheric Environment* 15, 929-931.

Windsor, Jr., J.G., J.R. Mease, J.A. Stikeleather, and R.E. Means. 1984. Standards preparation for solid sorbent cartridges. In: *The Identification and Analysis of Organic Pollutants in Air*, L.H. Keith (ed.), 391-409, Butterworth, Boston, MA.

Windsor, Jr., J.G. and J. Steward. 1987. Water quality and sediment chemistry of the Indian River Lagoon. In: J. Steward and J. Von Armann (eds.) *The Indian River Lagoon Reconnaissance Report*. St. John's River Water Management District and South Florida Water Management District.

Windsor, John G. and R.A. Frease. 1989. Behavior of polycyclic aromatic hydrocarbons associated with coal and oil ash waste products used to construct an artificial reef off the east central coast of Florida. *Physicochemical and Biological Detoxification of Hazardous Wastes*. Technomic Publishing Co., Lancaster, Pa. pp. 142-148.

Holm, S.E. and J.G. Windsor, Jr. 1990. Exposure assessment of sewage treatment plant effluent by a selected chemical marker method. *Archives of Environmental Contamination and Toxicology* 19, 674-679.

Frease, R.A. and J.G. Windsor, Jr. 1991. Behaviour of selected polycyclic aromatic hydrocarbons associated with a stabilized oil and coal ash reef. *Marine Pollution Bulletin* 22(1), 15-19.

Tankersley, R.A., Windsor, J.G. and Hanselman, J.A., "InSTEP: A Researcher-Student-Educator Partnership to Enhance Integrated Science Education.", (2005). Conference Proceedings, Published Bibliography: Annual Meeting of the Florida Association of Science Teachers

Tankersley, R.A., Windsor, J.G. and Hanselman, J.A., "InSTEP: Enhancing Science Education Through Graduate Student-Teacher Partnerships.", (2006). Book, Conference Proceedings Bibliography: Annual Meeting of the Society of Integrated and Comparative Biology

Tankersley, R.A., Windsor, J.G. and Hanselman, J.A., Gravinese, P., "Partners in Education: Using Graduate Student-Teacher Teams to Enhance Science Instruction.", (2006). Conference Proceedings: Ocean Sciences Meeting, American Society of Limnology and Oceanography

Hanselman, J.A., R.A. Tankersley, and J.G. Windsor. InSTEP: A researcher-student-educator partnership to enhance integrated science education. (2006) Florida Institute of Technology, Melbourne, FL 32901. *Florida Scientist* 69 (Supplement 1) 8.

#### Presentations with Published Abstracts

Windsor, Jr., J.G., S.P. Parks, and H.M. Barnes, GC/MS analysis of aerosols generated by diesel exhaust. Presented at 28th Annual Conference on Mass Spectrometry and Applied Topics, New York, NY. May 26-30, 1980.

Stikeleather, J.A. and J.G. Windsor, Jr., The development of a fieldworthy Tenax cartridge and a standard preparation system. Presented at the National Symposium on Recent Advances in Pollutant Monitoring of Ambient Air and Stationary Sources. Raleigh, NC, May 4-7, 1982.

Windsor, Jr., J.G., Analysis of Tenax cartridge samples collected over the Houston Ship Channel area and in the Ohio River Valley. Presented at the National Symposium on Recent Advances in Pollutant Monitoring of Ambient Air and Stationary Sources. Raleigh, NC, May 4-7, 1982.

Windsor, Jr., J.G., Standards preparation for solid sorbent cartridges. Presented before the Division of

Environmental Chemistry at the National Meeting of the American Chemical Society, Kansas City, MO, September 13-17, 1982.

Windsor, Jr., J.G., The collection and analysis of volatile organic compounds in air. Presented before the Oceanographic and Atmospheric Sciences Division, Florida Academy of Sciences, Melbourne, FL, April 7-9, 1983.

Pogban, T. and J.G. Windsor, Jr. Polycyclic aromatic hydrocarbons in surface sediments of the Lagoon Ebrie, Ivory Coast. Presented before the Oceanographic and Atmospheric Sciences Division, Florida Academy of Sciences, St. Leo, FL, May 1-3, 1985.

Windsor, Jr., J.G., Marine pollution in Florida: The historical perspective. Presented before the Oceanographic and Atmospheric Sciences Division, Florida Academy of Sciences, Gainesville, FL, April 10-13, 1986.

Holm, S.E. and Windsor, J.G., Jr. 1986. Chemical monitoring of sewage effluents using saturated hydrocarbons and coprostanol in estuarine waters. Presented at Joint MTS/IEEE Conference and Exposition, September 23-25, 1986. Washington, D.C.

Frease, R. and J.G. Windsor, Jr. 1987. Polycyclic aromatic hydrocarbons associated with fossil fuel incineration wastes used to construct an artificial reef. Presented at Seventh International Ocean Dumping Symposium, Wolfesville, Nova Scotia, Canada. September 21-25, 1987.

Windsor, Jr., J.G. and R. Frease. 1988. Polycyclic aromatic hydrocarbons associated with an artificial reef constructed of coal and oil ash waste products. Presented before the International Conference on Physicochemical and Biological Detoxification of Hazardous Wastes, Atlantic City, New Jersey, May 3-5, 1988.

Webb, B.R. and J.G. Windsor, Jr. 1989. The impact of human development on the sediments of the north central segment of the Indian River lagoon. Presented before the Oceanographic and Atmospheric Sciences Division, Florida Academy of Sciences, Jacksonville, FL, March 30-April 1, 1989.

Frease, R.A. and J.G. Windsor, Jr. 1989. Polycyclic aromatic hydrocarbons associated with an artificial reef constructed of coal and oil ash waste products. Presented before the Oceanographic and Atmospheric Sciences Division, Florida Academy of Sciences, Jacksonville, FL, March 30-April 1, 1989.

Windsor, Jr., J.G. 1989. Stormy weather: A new theme for water quality monitoring in the Indian River lagoon. Presented before the Oceanographic and Atmospheric Sciences Division, Florida Academy of Sciences, Jacksonville, FL, March 30-April 1, 1989.

Windsor, Jr., J.G. 1989. Marine Field Projects: An established, unique undergraduate curriculum in oceanography and ocean engineering. Presented before the Oceanographic and Atmospheric Sciences Division, Florida Academy of Sciences, Jacksonville, FL, March 30-April 1, 1989.

Windsor, Jr., J.G. 1990. Oceanography from space: an approach for studying global change phenomena. Presented before the first Space Research Institute Symposium, Melbourne, Florida. February 27-28, 1990.

Frease, R.A. and J.G. Windsor, Jr. 1990. Partitioning behavior of polycyclic aromatic hydrocarbons associated with an artificial reef constructed of coal and oil ash waste. Presented before the Oceanographic and Atmospheric Sciences Section, Florida Academy of Sciences, Melbourne, FL, March 22-24, 1990.

Windsor, J.G. Jr. 1990. SEAS-Science Education at Sea: A model for an exciting, hands on, field oriented program in environmental education. Presented before the Science Education Division, Florida Academy of Sciences, Melbourne, FL, March 22-24, 1989.

Windsor, J.G. Jr. 1990. Water Quality Monitoring in the Indian River Lagoon: Where do we go from here?

Presented before the Oceanographic and Atmospheric Sciences Division, Florida Academy of Sciences, Melbourne, FL, March 22-24, 1990.

Windsor, Jr., J.G. 1990. Marine Field Projects: An established, unique undergraduate curriculum in ocean science. Presented before the 200th National Meeting of the American Chemical Society, August 26-31, 1990.

Windsor, J.G. Jr. 1990. SEAS-Science Education at Sea: A model for an exciting, hands on, field oriented program in environmental education. Presented before the International Meeting of the Marine Technology Society, Washington, D.C. September 25-28, 1990.

Windsor, J.G. Jr. 1991. Clean Clampaign: An innovative approach to toxic substances monitoring in Indian River Lagoon. US Environmental Protection Agency National Estuary Program Symposium on Indian River Lagoon, Melbourne, Florida. October 11, 1991.

Surma, J.S. and J.G. Windsor, Jr. 1993. The distribution of polycyclic aromatic hydrocarbons in sediments along Crane Creek, Florida. Presented before the Oceanographic and Atmospheric Sciences Section, Florida Academy of Sciences, Melbourne, FL, April 29-30, 1993.

Windsor, J.G. Jr. 1994. Maintaining a high quality, undergraduate oceanography program at a private university. Chapman Conference on the "Viability of Undergraduate Geosciences for the 21st Century." sponsored by the National Science Foundation, Sigma Xi and the American Geophysical Union.

Windsor, J.G. Jr. 1994. Toxic substances survey of Indian River Lagoon. Florida Society for Environmental Analysis, Cocoa Beach, FL, October 20-21, 1994.

Mckee, A, E.A. Irlandi, and J.G. Windsor, Jr. (2003) A study on water quality and its effect on *Halodule wrightii* in the north central segment of Indian River Lagoon. Florida Scientist Volume 66 (Supp. 1): 15

Chanson, M. and J.G. Windsor, Jr. (2003) Characterizing total suspended solids and turbidity in Crane Creek, Florida. Florida Scientist Volume 66 (Supp. 1): 15

J.G. Windsor, Jr., M. Chanson and D. Straccione (2004) Estimating sediment accumulation rates in Crane Creek, FL, from total suspended solids and streamflow measurements. Florida Scientist Volume 67 (Supp. 1): 17

J.G. Windsor, Jr. (2005) The effects of dredging on the distribution of PAH and phthalate esters in Crane Creek, FL, sediments. Florida Scientist Volume 67 (Supp. 1): 13

Windsor, J.G. 2006 The Future of the Indian River System Symposium revisited. Florida Scientist 69 (Supplement 1) 7.

Windsor J.G. Conclusions for "The Future of the Indian River System Symposium" revisited. Florida Scientist 69 (Supplement 1) 12.

Polycyclic aromatic hydrocarbons in sediments and clams from the Indian River Lagoon, Florida: 2006-2007 vs. 1992. J.G. WINDSOR. Presented before the Oceanographic and Atmospheric Sciences Division, Florida Academy of Sciences, Gainesville, FL, March 14-15, 2008. Florida Scientist (*Volume 71, Supp. 1*)

Development of a Comprehensive Maritime Management Master Plan (CM3P). M. CULVER, E. BROWN, J. LINDER, G. MAUL, and J. WINDSOR. Presented before the Oceanographic and Atmospheric Sciences Division, Florida Academy of Sciences, Ft. Pierce, FL, March 19-20, 2010. Florida Scientist (*Volume 71, Supp. 1*)

IRL Water Quality Concerns From Ponce de Leon to STS 135. John G. Windsor, Jr. Presented at Coastal Estuarine Research Foundation, Daytona Beach, FL November 7-10, 2011

#### Contract Reports

MacIntyre, W.G., C.L. Smith, J.C. Munday, V.M. Gibson, J.L. Lake, J.G. Windsor, Jr., J.L. Dupuy and W. Harrison. 1974. Investigation of surface films: Chesapeake Bay Entrance. EPA-670/2-73-099, U.S. Environmental Protection Agency, Washington, DC. 68p.

Windsor, Jr., J.G., S.P. Parks, G.L. Campbell, and A.L. Williams. 1980. Houston Ship Channel Study: June 1-12, 1980, Preparation and analysis of Tenax cartridges. NSI-ES-TR-80-12, Northrop Services, Inc., Environmental Sciences, Research Triangle Park, North Carolina. 45p.

Hubbard, S.A. and J.G. Windsor, Jr. 1982. Tenax methods and evaluation. NSI-ES-TR-82-05, Northrop Services, Inc., Environmental Sciences, Research Triangle Park, North Carolina. 67p.

Windsor, J.G., J.A. Stikeleather, S.P. Parks, and R.E. Means. 1982. The Ohio Valley Study: Collection and analysis of volatile organic compounds. Northrop Services, Inc., Environmental Sciences, Research Triangle Park, North Carolina. 204p.

Windsor, Jr., J.G. 1984. The development of a rapid, chemical quality assurance test for complex residual petroleum product: A feasibility study. Submitted to U.S. Environmental Protection Agency and the Department of Defense. Florida Institute of Technology, Melbourne, Florida. 43p.

Windsor, Jr., J.G. 1985. Nationwide review of oxygen depletion and eutrophication in coastal waters: Florida. A report to the National Oceanic and Atmospheric Administration. Florida Institute of Technology, Melbourne, Florida. 177p.

Windsor, Jr., J.G. 1987. Water Quality of the Indian River Lagoon. A report to the St. Johns River Water Management District. Florida Institute of Technology, Melbourne, Florida.

Windsor, Jr., J.G. 1988. A Historical Review of Water Quality and Sediment Chemistry of the Indian River Lagoon: A report to the Marine Resources Council of East Central Florida and the National Oceanic and Atmospheric Administration. Florida Institute of Technology, Melbourne, Florida.

Windsor, Jr., J.G. and J.M. Surma. 1993. Toxic Substances Survey for the Indian River Lagoon System. Volume II: Organic Chemicals in the Indian River Lagoon. Final Report to St. Johns River Water Management District, Palatka, Florida.

Windsor, Jr., J.G., J.H. Trefry and J. Kieffer. 2005. Crane Creek post assessment water quality, sediment quality, and sediment trapping efficiency final report. BCI Engineers and Scientists Project Report No. 19-10847.2 submitted to St. Johns River Water Management District.

#### Thesis or Dissertation Related to this Proposal

Perylene and PAH in Mississippi River Delta sediments. Kellie Lorking, M.S. Thesis, Department of Oceanography and Ocean Engineering, Florida Institute of Technology, December, 1984.

A comparative study of PAH in coastal lagoons of Florida and the Ivory Coast. Toure Pogban, M.S. Thesis, Department of Oceanography and Ocean Engineering, Florida Institute of Technology, March, 1985.

Tracking sewage effluents through chemical monitoring. Stewart Holm, M.S. Thesis, Department of Oceanography and Ocean Engineering, Florida Institute of Technology, December, 1986.

The organic chemical characterization of interstitial water from anoxic sediments. Diane Quimby, M.S. Thesis, Department of Oceanography and Ocean Engineering, Florida Institute of Technology, June, 1986.



The interactions of polycyclic organic matter with particles in the marine environment. Robert Frease, Ph.D., Oceanography Program, Division of Marine & Environmental Systems, Florida Institute of Technology, June, 1991.

Toxic substance investigation of Crane Creek, Florida. Jan Suurma, M.S. Thesis, Department of Oceanography and Ocean Engineering, Florida Institute of Technology, June, 1992.

Investigations of organic compounds in an ozonated major, aquarium facility. Alan Meyer, M.S. Thesis, Oceanography Program, Division of Marine & Environmental Systems, Florida Institute of Technology, December, 1995.

Herbicides in surface waters after storm events in Sebastian, Florida. Dana Erickson, M.S. Thesis, Environmental Science Program, Division of Marine & Environmental Systems, Florida Institute of Technology, August, 1998.

Water quality before, during and after the removal of muck sediment from Crane Creek in Melbourne, Florida. Delphine A. Garcia, M.S. Thesis, Oceanography Program, Division of Marine & Environmental Systems, Florida Institute of Technology, August, 1998.

Spatial distribution of epiphyte loadings on seagrass in the Indian River Lagoon. Robbyn Ranae Miller, M.S. Thesis, Environmental Science Program, Division of Marine & Environmental Systems, Florida Institute of Technology, May, 1997.

The Long-Term Effects of Dredging on Water Quality and Sediment Transport in Crane Creek and the Indian River Lagoon (IRL), Melbourne Florida. David A. Straccione, M.S. Thesis Environmental Science, Department of Marine and Environmental Systems, Florida Institute of Technology, Melbourne, Florida, December 2003.

Factors affecting turbidity and total suspended solids and the relationship between these parameters in Crane Creek, Melbourne Florida. Mareva Chanson, M.S. Thesis Chemical Oceanography, Department of Marine and Environmental Systems, Florida Institute of Technology, Melbourne, Florida, May 2004.

A biochemical comparison of dissolved silica concentrations in different physical environments in the Indian River Lagoon, Florida. Kelly A. Zargiel, Thesis Chemical Oceanography, Department of Marine and Environmental Systems, Florida Institute of Technology, Melbourne, Florida, December, 2007.

The Influence of Stormwater on Dissolved Fluorescent Material in Crane Creek, Turkey Creek and Adjacent Indian River Lagoon. Kathleen Theresa Gifford, Thesis Chemical Oceanography, Department of Marine and Environmental Systems, Florida Institute of Technology, Melbourne, Florida, December, 2009.

Supervised more than 40 M.S. Environmental Resource Management and Coastal Zone Management internship reports.

Total number of graduate students supervised 54; thesis/dissertation committee member for more than 70 M.S. and Ph.D. students.

### **Synergistic Activities**

2007-2015	Co-PI w/R. Tankersley, NSF GK-12 Integrated Science Teaching Enhancement Partnership, \$3.4 million dollars.
2012-2016	PI - COSEE Florida – NSF Centers of Ocean Science Education Excellence, \$300k
2008-2013	Development of Brevard County Maritime Management Master Program (CM3P)
2011	NOAA Workshop – Conflict Resolution in Coastal Management
2012	NOAA Workshop – Planning for Meaningful Evaluation

1991-2014 Chair, Indian River Lagoon National Estuary Program Technical Advisory Committee  
1991-2015 Indian River Lagoon National Estuary Program Advisory Board Member

In 2006 Dr. Windsor organized a two day symposium which highlighted 25 years of research on the Indian River Lagoon system, an estuary of national significance. He edited a special issue of the Florida Scientist dedicated to the Indian River Lagoon, published in 2007, and distributed to libraries and schools throughout the region.

Recruiting students to science careers has led Dr. Windsor to work very closely with secondary school systems. In recent years he (with colleagues) developed a systems approach to studying the Earth (funded by NASA) and developed undergraduate introductory and capstone courses integrating science, engineering, management and education. This course has been taught to primary and secondary school teachers. In 1997-1998 Faculty Excellence Award for Teaching went to the Dr. Windsor and his colleagues for "The Whole Earth Course."

Dr. Windsor collaborated with Dr. Tom Marcinkowski (Florida Tech) on Investigating and Evaluating Environmental Issues and Actions, a three-year National Science Foundation grant program for Florida teachers, Grades 6-12

Dr. Windsor developed the Science Education at Sea (SEAS) program at F.I.T. Field trips onboard F.I.T. research vessels have been conducted for more than eight years now. The focus of the workshops on the water have been man's impact on the environment. More than 5000 high school, community college and university students and faculty have measured water quality, collected plankton and fish, and sediments. Environmental investigations are used to stimulate the interests of students and faculty in chemistry, physics, mathematics and biology and to recruit them to careers in oceanography, ocean engineering and environmental sciences.

Dr. Windsor had directed the Marine Field Projects Program at F.I.T. for 15 of the past 25 years. Students in oceanography, environmental science and meteorology are required to participate in field studies during the summer preceding their senior year. Dr. Windsor integrated science teachers into the program. During the summer, they participate in all the field studies and generate curricula for the science programs at their home schools.

Dr. Windsor served as the State Director, Florida Junior Academy of Science, 1985-1990. Funding was obtained from A.A.A.S., \$1250, for 1986-1987, \$1500, for 1987-1988, \$ 750, for 1988-1989, \$1000, for 1990-1991. In 1989, he received the DISTINGUISHED SERVICE AWARD from FJAS, only the second one given in its history.

Duane E. De Freese, Ph.D.

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Indialantic, Florida 32903

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321-313-0764

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September 19, 2016

Letter of Recommendation: John Windsor, Ph.D.  
IRL Citizen Oversight Committee

ATTN: Marie Winkler:

Please accept this letter of recommendation to support Dr. John Windsor's application for appointment as a member of the Indian River Lagoon Citizen Oversight Committee. John's long history of leadership in Indian River Lagoon science, and strong personal commitment to community service qualify him as a person who would bring exceptional value to the IRL Oversight Committee. Dr. Windsor is one of the most experienced and trusted scientists within the IRL scientific community.

John has expertise in a number of topical areas that would be of great benefit to the committee. He served as chairman of the Technical Advisory Committee of the Indian River Lagoon National Estuary Program for many years. His experience with IRLNEP will help to ensure that implementation of the SOIRLPP will align with the 2017 revision of the IRLNEP Comprehensive Conservation Management Plan. John is a recognized expert in the field of marine chemistry and pollution. John's Indian River Lagoon expertise and experience is extensive. He has been an advocate for science-driven management of the IRL for many years.

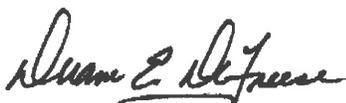
Dr. Windsor understands the scientific details and complexity of the Save Our Indian River Lagoon Project Plan. He also understands the importance of effective, efficient, responsible and transparent implementation of the plan.

I have known John for almost 4 decades, he is honest, observant, thoughtful, respectful, articulate, ethical and strategic in his thinking. Over the last 35 years, he has shared a message about restoring and managing Indian River Lagoon resources: Effective management of any resource requires personal ownership and accountability.

I can think of few individuals who would bring more credibility and respect to the IRL oversight committee than Dr. Windsor. John communicates a passionate message that good science leads to good Indian River Lagoon stewardship.

I make this personal recommendation, without hesitation.

Sincerely,



Duane E. De Freese, Ph.D.

September 27, 2016

Brevard County Natural Resources Department  
Attn: Marie Winkler, Administrative Assistant to the Director  
2725 Judge Fran Jamieson Way, A-219  
Viera, FL 32940

RE: IRL Citizen Oversight Committee  
Letter of Recommendation for John Windsor

To Whom It May Concern:

I am pleased to take this opportunity to provide a personal reference for Professor John Windsor and a recommendation for him as a member of the IRL Citizen Oversight Committee.

As project manager for the Brevard County Boating and Waterways Program, I have had the opportunity to work with John on a number of Indian River Lagoon related management and research projects. Through his position at the Florida Institute of Technology, John assisted in development of the Brevard County Comprehensive Maritime Management Master Plan (CM3P); working to establish an equitable balance between the environmental, recreational and economic needs of Brevard's waterways. He acted as a patient facilitator and educator for over 70 community based working group meetings in development of the CM3P, providing balanced insight into what were at times contentious topics and discussions. Additionally, I am presently working with John on the Brevard County managed Impacts of Environmental Muck Dredging research project, where acting as the project's research manager, he provides oversight and coordination for eight professional, multidisciplinary muck dredging research projects. His management of seven independent researchers, along with his candor and understanding of the diverse topics has provided clarity and usability to the research products.

In closing, I this have known John Windsor for over 13 years and have found him to possess the hard science background along with the communication skills necessary to relate his knowledge to the general public. I would highly recommend him as a member of the IRL Citizen Oversight Committee.

If you have any questions or need further clarification on anything contained in this letter, I can be reached by email at [mattculver@hotmail.com](mailto:mattculver@hotmail.com) or by phone at 321-768-6164.

Sincerely,



Matt C. Culver