BEFORE THE STATE OF NEW JERSEY
BOARD OF PUBLIC UTILITIES

IN THE MATTER OF THE PETITION OF
FISHERMEN'S ATLANTIC CITY WIND FARM, LLC FOR THE APPROVAL OF THE STATE WATERS PROJECT AND AUTHORIZING OFFSHORE WIND RENEWABLE ENERGY CERTIFICATES

DIRECT TESTIMONY OF DAVID E. DISMUKES, PH.D. ON BEHALF OF THE NEW JERSEY DIVISION OF RATE COUNSEL

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ATTACHMENT A – SUMMARY OF QUALIFICATIONS

ATTACHMENT B – Updated Assessment of the Net Economic Benefits of the
Fishermen’s Atlantic City Windfarm (“FACW”)
DIRECT TESTIMONY OF

DAVID E. DISMUKES, PH.D.

ON BEHALF OF THE

NEW JERSEY DIVISION OF RATE COUNSEL

BPU DOCKET No. EO11050314V

I. INTRODUCTION

Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS?

A. My name is David E. Dismukes. My business address is 5600 One Perkins Place

Drive, Suite 5-F, Baton Rouge, Louisiana, 70808.

Q. PLEASE STATE YOUR OCCUPATION AND CURRENT PLACE OF

EMPLOYMENT?

A. I am a Consulting Economist with the Acadian Consulting Group ("ACG"), a

research and consulting firm that specializes in the analysis of regulatory, economic,

financial, accounting, statistical, and public policy issues associated with regulated and

energy industries. ACG is a Louisiana-registered partnership, formed in 1995, and is

located in Baton Rouge, Louisiana. A summary of my qualifications is provided in

Attachment A.

Q. DO YOU HOLD ANY ACADEMIC POSITIONS?

A. Yes. I am a Professor, Associate Executive Director, and Director of Policy

Analysis at the Center for Energy Studies at the Louisiana State University ("LSU"). I

am also an Adjunct Professor in the E. J. Ourso College of Business Administration

(Department of Economics), an Adjunct Professor in the School of the Coast and the
Environment (Department of Environmental Sciences), a co-director of the Coastal Marine Institute, and member of the graduate faculty at LSU. My primary responsibilities at LSU in these various capacities include teaching, conducting service activities, administering and supervising the work of various research units, and conducting my own research in energy and environmental policy issues.

Q. DOES YOUR RESEARCH EXPERIENCE INCLUDE THE ANALYSIS OF ANY OFFSHORE ENERGY DEVELOPMENT?

A. Yes. Over the past 17 years, I have conducted a significant amount of grant-funded research on a wide range of infrastructure development topics related to offshore energy production and transmission. This research also includes several comprehensive analyses of the onshore economic impacts created by offshore energy infrastructure development. A large portion of my work has been funded, and utilized, by the U.S. Department of the Interior, Bureau of Ocean Energy Management (“BOEM,” the Agency formerly known as the Minerals Management Service or “MMS”).

Q. DOES YOUR TESTIMONY PROVIDE A DETAILED DESCRIPTION OF YOUR EDUCATION AND EXPERIENCE?

A. Yes. Attachment A to my testimony provides my academic vita that includes a full listing of my publications, presentations, and pre-filed expert witness testimony, expert reports, expert legislative testimony, and affidavits.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. I have been retained by the New Jersey Division of Rate Counsel ("Rate Counsel") to provide an expert opinion to the Board of Public Utilities ("BPU" or “Board”) on the revised offshore wind ("OSW") development application submitted by
Fishermen’s Atlantic City Windfarm, LLC (“FACW”). Specifically, I was asked by Rate Counsel to review the proposed FACW project for consistency with N.J.S.A. 48:3-87 et seq. and N.J.A.C. 14:8-6, et. seq., pertaining to the statutory requirements under the Offshore Wind Economic Development Act ("OSWEDA"),¹ as well as to provide an expert assessment pertaining to questions of public interest and the net economic benefits of the FACW project relative to its proposed Offshore Wind Renewable Energy Certificate ("OREC") proposal. My complete findings are included within the report entitled Updated Assessment of the Net Economic Benefits of the Proposed Fishermen’s Atlantic City Windfarm (FACW), and attached to this Direct Testimony as Attachment B.

Q. HOW IS THE REMAINDER OF YOUR TESTIMONY ORGANIZED?

A. My testimony is organized into the following sections:

- Section II: Summary of Recommendations
- Section II: Overview of the FACW Proposal
- Section III: Scope of Review
- Section IV: Rate Impacts and Net Economic Benefits
- Section V: Other Project Concerns
- Section VI: Conclusions and Recommendations

II. SUMMARY OF RECOMMENDATIONS

Q. WOULD YOU PLEASE SUMMARIZE YOUR RECOMMENDATIONS?

A. I recommend that the Board not approve the FACW project and reject its requested OREC plan since they are not in the public interest and do not meet the statutory requirements of the OSWEDA. The proposed FACW project, and its proposed

¹ Administrative rules pertaining to the OSWEDA were approved by the Board in N.J.A.C. Section 14:8-6.
OREC plan, do not produce a net economic benefit to New Jersey ratepayers, and, if approved and developed, could lead to a loss of 8,109 job-years and a loss of $132 million in net economic output on net present value ("NPV") terms. The proposed FACW project should also be rejected since it is deficient in a number of other areas and leaves open a wide range of questions regarding many important project details.

III. OVERVIEW OF FACW PROPOSAL

Q. WILL YOU PLEASE DESCRIBE FACW’S PROPOSED PROJECT?

A. Yes. In May 2012, Fishermen’s Atlantic City Windfarm, LLC ("FACW" or "the project") submitted an Amended Application to the New Jersey Board of Public Utilities requesting permission to build a state waters offshore windfarm project. FACW proposes to use five (5) 5 megawatt ("MW") offshore wind turbine generators for a total project capacity of 25 MW. The turbines will be supplied by Xiangtan Electric Manufacturing Group, Ltd ("XEMC"). The project will be built in state waters, approximately 2.8 miles east of the coastline of Atlantic City, New Jersey. The project is expected to cost $ million and FACW is requesting ratepayer financial support at a starting rate of $ per OREC. The OREC price will escalate at an annual rate of percent. The net present value of the anticipated stream of ratepayer financial support for the project is estimated to be $ million.

Q. IS THIS THE FIRST APPLICATION FACW HAS MADE FOR APPROVAL OF AN OSW PROJECT AND ASSOCIATED OREC PLAN?

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3 Amended Application, Testimony Exhibit 3, p. 3.
4 Staff Letter to FACW, July 13, 2012.
5 Amended Application, Testimony Exhibit 9, p. 2.
6 Amended Application, Testimony Exhibit 9, p. 2, p.5.
7 Amended Application, Testimony Exhibit 9, p. 5.
A. No. In February 2011, FACW submitted a Verified Petition to the Board requesting permission to build an offshore wind farm project in state waters. The Board issued an Order on May 16, 2011, requiring FACW to file an amended petition dated May 19, 2011. The original FACW application was based on a proposed 30 MW nameplate capacity-rated windfarm using six 5 MW direct drive wind turbines supplied by XEMC. This project was proposed at the same location as the current application some 2.8 miles offshore, and was anticipated to cost $[redacted] million. FACW ultimately withdrew this application after the Staff of the Board of Public Utilities (“Board Staff”) and Rate Counsel filed separate expert witness testimonies recommending rejection of the FACW proposal. The current application represents FACW’s second attempt at approval of an OSW project and OREC financing plan.

Q. HOW DOES FACW PROPOSE TO FINANCE THE CURRENTLY-PROPOSED PROJECT?

A. FACW has not been able to provide exact details of how the project will be financed. While FACW’s pro forma analysis shows that the project will be financed by [redacted], the Company’s response to BPU discovery did not commit to this specific financing arrangement. Instead, FACW states:

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9 Response to NJBPU-Econ-17.
Projects based on such a high degree of debt financing (80 percent), relative to equity financing, are often thought to be more risky since the consequences of equity owner losses, due to project cancellation, are considered to be much greater for a highly debt-financed project than one financed on a more balanced debt to equity ratio.

Q. HOW WILL PROJECT COSTS BE RECOVERED FROM RATEPAYERS?

A. Project costs are proposed to be recovered from ratepayer financial support of $... per OREC for each megawatthour (“MWh”) of electricity produced by the FACW project. On a NPV basis, the requested ratepayer financial support is estimated to be $... million. Additional details about the FACW project are provided in Sections 1 and 4 of the Report attached to my direct testimony.

Q. IS XEMC’S PARTICIPATION IN THIS PROJECT LIMITED TO BEING A TURBINE PROVIDER?

A. No. XEMC will also serve as a significant financial partner in the FACW project holding up to a ... ownership share in the overall project.10 XEMC’s participation as majority project owner is an important difference between the current application and FACW’s prior project proposal.

IV. SCOPE OF REVIEW

Q. WILL YOU DESCRIBE THE VARIOUS AREAS EXAMINED IN THE REPORT PROVIDED IN ATTACHMENT B OF YOUR DIRECT TESTIMONY?

A. Yes. The Report provides an examination of the Company’s proposal, including an examination of the Company’s equipment type and vendors, its proposed project

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10 Amended Application, Appendix C, p. 6.
financial plan, project economics, and an estimate of the project’s projected rate impacts and net economic benefits. The purpose of the analysis is to assess the proposed project’s consistency with the statutory elements of the OSWEDA, including an analysis of whether the proposed project will yield positive net economic benefits for New Jersey.

Q. WHAT SOURCES DID YOU CONSULT IN CONDUCTING YOUR ANALYSIS?

A. In addition to reviewing the project proposal, I examined a wide range of publicly available information from government and technical publications and trade journals. Additionally, through this proceeding, Rate Counsel has issued eight separate sets of data requests to FACW, comprised of 191 individual requests, about various aspects of its proposed project. A complete listing of sources consulted during the course of my analysis is provided in Appendix 7 of the Report.

VI. RATE IMPACTS AND NET ECONOMIC BENEFITS

Q. CAN YOU PLEASE SUMMARIZE THE RESULTS OF YOUR ANALYSIS OF THE PROPOSED PROJECT’S EFFECT ON UTILITY RATES?

A. Yes. Section 5 of my Report estimates that, on an annual basis, the proposed FACW project will increase rates by between $16 million to $31 million per year. Over a twenty-year time frame, I estimate that the proposed FACW project will lead to a rate increase of some $208 million.

Q. CAN YOU PLEASE SUMMARIZE THE RESULTS OF YOUR ANALYSIS OF THE PROPOSED PROJECT’S NET ECONOMIC BENEFITS?

A. Yes. As explained in greater detail in Section 6 of the Report, I estimate that the proposed FACW project will result in a negative net economic impact (benefit) to New
Jersey ratepayers of nearly $132 million in economic output on a NPV basis and a loss of
8,109 job-years. My analysis of the project estimates that the negative economic
benefits, or economic harm, created by the significant rate increase created by this
project, far exceed the positive economic development benefits this project could create
during its construction and operational activities.

VII. OTHER PROJECT CONCERNS

Q. DO YOU HAVE ANY OTHER CONCERNS REGARDING THE
PROPOSED FACW PROJECT?

A. Yes. The Company’s proposal is deficient in a number of other areas and leaves open
a wide range of questions regarding many important project details including:

1) FACW is proposing to use a relatively new turbine vendor and technology
for this project:

a. FACW has not provided any evidence that the direct drive
technology will result in lower overall project costs, and OREC
prices, relative to a gearbox technology.

b. There appears to be no price discount by the vendor to compensate
or serve as an offset for its relatively new technology or lack of
experience in Western renewable energy markets.

c. Share prices for XEMC, the Company’s vendor and financial
partner, have shown a number of dramatic and consistently
downward movements over the past 18 months comparable to
other Chinese wind manufacturing companies.
d. U.S.-Chinese trade relationships for renewable energy
manufacturing have become increasingly constrained. The U.S.
Department of Commerce ("USDOC") has opened a number of
investigations on this matter leading to negative final or
preliminary findings. XEMC, to date, has not been specifically
identified by the USDOC as a company engaging in questionable
anticompetitive trade practices.

2) At $\text{[redacted]}$/kW, FACW’s proposed project is more expensive, on a per kW
basis, than most completed wind projects in Europe. FACW’s proposal is
also between $\text{[redacted]}$/kW to $\text{[redacted]}$/kW more expensive than four proposed
U.S. wind projects. If approved, FACW will be the third most expensive
OSW project in the world.

3) FACW’s OREC proposal is too high and not competitive with other
proposed U.S OSW projects.

4) FACW has not been able to provide specific details on how its project will
be financed. Based upon the information currently available, it appears
the FACW project will be heavily debt-financed.

5) To date, FACW has not provided a complete set of translated financial
statements.

6) If approved, the FACW project will impose unreasonable rate impacts.
The rate impact analysis included in FACW’s application overstates
various offsets to its proposed OREC costs and understates the negative
impact this proposal could have on ratepayers.
7) FACW's net economic benefit results are flawed and unreasonable and based upon: (a) over-estimated in-state expenditures; (b) over-estimated impacts per dollar investment and/or under-estimates of the negative consequences of project rate impacts; and (c) the inclusion of several questionable benefits that are not known and measurable with any degree of certainty.

VIII. CONCLUSIONS AND RECOMMENDATIONS

Q. WOULD YOU PLEASE SUMMARIZE YOUR RECOMMENDATIONS?

A. I recommend that the Board not approve the FACW project and reject its requested OREC plan since they are not in the public interest and do not meet the statutory requirements of the OSWEDA. The proposed FACW project, and its proposed OREC plan, do not produce a net economic benefit to New Jersey ratepayers, and, if approved and developed, could lead to a loss of 8,109 job-years and a loss of $132 million in net economic output on NPV terms. The proposed FACW project should also be rejected since it is deficient in a number of other areas and leaves open a wide range of questions regarding many important project details.

Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY FILED ON DECEMBER 17, 2012?

A. Yes it does. However, I reserve right to supplement my testimony if any updated or additional information becomes available during the course of this proceeding. I also reserve the right to supplement my testimony after further and more detailed review of FACW’s late-filed discovery that includes a translated set of financial statements. These
financial statements were provided by FACW less than one week prior to the intervenor

testimony filing deadline and are still not complete.
ATTACHMENT A
**DAVID E. DISMUKE, PH.D.**

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**EDUCATION**

Ph.D., Economics, Florida State University, 1995.
M.S., Economics, Florida State University, 1992.
M.S., International Affairs, Florida State University, 1988.

Master's Thesis: *Nuclear Power Project Disallowances: A Discrete Choice Model of Regulatory Decisions*

Ph.D. Dissertation: *An Empirical Examination of Environmental Externalities and the Least-Cost Selection of Electric Generation Facilities*

**ACADEMIC APPOINTMENTS**

Louisiana State University, Baton Rouge, Louisiana

**Center for Energy Studies**

2007-Current       Director, Division of Policy Analysis
2006-Current       Professor
2003-Current       Associate Executive Director
2001-2006          Associate Professor
2000-2001          Research Fellow and Adjunct Assistant Professor
1995-2000          Assistant Professor

**School of the Coast and the Environment (Department of Environmental Studies)**

2010-Current       Adjunct Professor

**E.J. Ourso College of Business Administration (Department of Economics)**

2006-Current       Adjunct Professor
2001-2006          Adjunct Associate Professor
1999-2000          Adjunct Assistant Professor
Florida State University, Tallahassee, Florida

**College of Social Sciences, Department of Economics**

1995 Instructor

**PROFESSIONAL EXPERIENCE**

Acadian Consulting Group, Baton Rouge, Louisiana

2001-Current Consulting Economist/Principal
1995-2000 Consulting Economist/Principal

Econ One Research, Inc., Houston, Texas

2000-2001 Senior Economist

Florida Public Service Commission, Tallahassee, Florida
Division of Communications, Policy Analysis Section

1995 Planning & Research Economist

Division of Auditing & Financial Analysis, Forecasting Section

1993 Planning & Research Economist
1992-1993 Economist

Project for an Energy Efficient Florida &
Florida Solar Energy Industries Association, Tallahassee, Florida

1994 Energy Economist

Ben Johnson Associates, Inc., Tallahassee, Florida

1991-1992 Research Associate
1989-1991 Senior Research Analyst
1988-1989 Research Analyst

**GOVERNMENT APPOINTMENTS**

2007-Current Louisiana Representative, Interstate Oil and Gas Compact Commission; Energy Resources, Research & Technology Committee.

2007-Current Louisiana Representative, University Advisory Board Representative; Energy Council (Center for Energy, Environmental and Legislative Research).

2003-2005  Member, Energy and Basic Industries Task Force, Louisiana Economic Development Council

PUBLICATIONS: BOOKS AND MONOGRAPHS


PUBLICATIONS: PEER REVIEWED ACADEMIC JOURNALS


**PUBLICATIONS: PEER REVIEWED PROCEEDINGS**


PUBLICATIONS: OTHER SCHOLARLY PROCEEDINGS


PUBLICATIONS: BOOK CHAPTERS


PUBLICATIONS: BOOK REVIEWS


**PUBLICATIONS: TRADE AND PROFESSIONAL JOURNALS**


PUBLICATIONS: REPORTS AND OTHER MANUSCRIPTS


GRANT RESEARCH


17. **Principal Investigator.** “Marginal Oil and Gas Properties on State Leases in Louisiana: An


**ACADEMIC CONFERENCE PAPERS/PRESENTATIONS**


ACADEMIC SEMINARS AND PRESENTATIONS


PROFESSIONAL AND CIVIC PRESENTATIONS


10. “The Impact of Legacy Lawsuits on Conventional Oil and Gas Drilling in Louisiana.”


“Overview and Issues Associated with the Deepwater Horizon Accident.” (2010).


49. “Potential Impacts of Cap and Trade on Louisiana Ratepayers: Preliminary Results.”


86. “Hurricanes, Energy Supplies and Prices.” Presentation before the Louisiana Department of Natural Resources and Atchafalaya Basin Committee Meeting. November 8, 2005. Baton Rouge, LA.


116. “Regional Transmission Organization in the South: The Demise of SeTrans”  
Presentation before the LSU Center for Energy Studies Industry Associates Advisory  

117. “Affordable Energy: The Key Component to a Strong Economy.” Presentation before the  
National Association of Regulatory Utility Commissioners (“NARUC”), November 18,  
2003, Atlanta, Georgia.

118. “Natural Gas Outlook.” Presentation before the Louisiana Chemical Association,  
October 17, 2003, Pointe Clear, Alabama.

119. “Issues and Opportunities with Distributed Energy Resources.” Presentation before the  

120. “What’s Happened to the Merchant Energy Industry? Issues, Challenges, and Outlook”  
Presentation before the LSU Center for Energy Studies Industry Associates Advisory  

121. “An Introduction to Distributed Energy Resources.” Presentation before the U.S.  
Department of Energy, Office of Renewable Energy and Energy Efficiency, State Energy  
Program/Rebuild America Conference, August 1, 2002, New Orleans, Louisiana.

122. “Merchant Energy Development Issues in Louisiana.” Presentation before the Program  
Committee of the Center for Legislative, Energy, and Environmental Research (CLEER),  

123. “Power Plant Siting Issues in Louisiana.” Presentation before 24th Annual Conference  
on Waste and the Environment. Sponsored by the Louisiana Department of  

124. “Merchant Power and Deregulation: Issues and Impacts.” Presentation before the Air  
and Waste Management Association Annual Meeting. Baton Rouge, LA, November 15,  

125. “Moving to the Front of the Lines: The Economic Impact of Independent Power  
Production in Louisiana.” Presentation before the LSU Center for Energy Studies  
Merchant Power Generation and Transmission Conference, Baton Rouge, LA. October  

126. “Economic Impacts of Merchant Power Plant Development in Mississippi.” Presentation  
before the U.S. Oil and Gas Association Annual Oil and Gas Forum. Jackson,  

127. “Economic Opportunities for Merchant Power Development in the South.” Presentation  
before the Southern Governor's Association/Southern State Energy Board Meetings.  


EXPERT WITNESS, LEGISLATIVE, AND PUBLIC TESTIMONY; EXPERT REPORTS, RECOMMENDATIONS, AND AFFIDAVITS


Maryland. In Re: the Delmarva Power and Light Company General Rate Case. On the Behalf of the Maryland Office of the People’s Counsel. Issues: Capital tracker mechanisms/reliability investment mechanisms, reliability issues, regulatory lag, class cost of service, revenue distribution, rate design.


32
of Fine Particulate Matter and Ozone and Correction of SIP Approvals. On the Behalf of the Louisiana Public Service Commission. Issues: Impacts of environmental costs on electric utilities, compliance requirements, investment cost of mitigation equipment, multi-area dispatch modeling and plant retirements.


cost tracker policy issues.


On the Behalf of the Office of the Attorney General, Office of Ratepayer Advocacy. Issues: Revenue decoupling; target infrastructure replacement program rider; revenue distribution; and rate design.


wells and subsurface property, economic lives and production decline curve trends.


58. Legislative Testimony (2006). Senate Committee on Natural Resources. Senate Bill 655
Regarding Remediation of Oil and Gas Sites, Legacy Lawsuits, and the Deterioration of State Drilling.


68. Expert Testimony: ANR Pipeline Company v. Louisiana Tax Commission (2005), Number 468,417 Section 22, 19th Judicial District Court, Parish of East Baton Rouge,
State of Louisiana Consolidated with Docket Numbers: 480,159; 489,776; 480,160; 480,161; 480,162; 480,163; 480,373; 489,777; 489,778; 489,779; 489,780; 489,803; 491,530; 491,744; 491,745; 491,746; 491,912; 503,466; 503,468; 503,469; 503,470; 515,414; 515,415; and 515,416. In re: Market structure issues and competitive implications of tax differentials and valuation methods in natural gas transportation markets for interstate and intrastate pipelines.


Pool. Company examined: AEP-SWEPCO.


REFEREE AND EDITORIAL APPOINTMENTS

Referee, 2010-Current, Economics of Energy & Environmental Policy
Referee, 1995-Current, Energy Journal
Contributing Editor, 2000-2005, Oil, Gas and Energy Quarterly
Referee, 2005, Energy Policy
Referee, 2004, Southern Economic Journal
Referee, 2002, Resource & Energy Economics
Committee Member, IAEE/USAEE Student Paper Scholarship Award Committee, 2003

PROPOSAL TECHNICAL REVIEWER


PROFESSIONAL ASSOCIATIONS


HONORS AND AWARDS


Omicron Delta Epsilon (1992-Current)

Interstate Oil and Gas Compact Commission (IOGCC) ”Best Practice” Award for Research on the Economic Impact of Oil and Gas Activities on State Leases for the Louisiana Department of Natural Resources (2003).

Distinguished Research Award, Academy of Legal, Ethical and Regulatory Issues, Allied Academics (2002).

Florida Public Service Commission, Staff Excellence Award for Assistance in the Analysis of Local Exchange Competition Legislation (1995).

**TEACHING EXPERIENCE**

Energy and the Environment (Survey Course)
Principles of Microeconomic Theory
Principles of Macroeconomic Theory


Lecturer, Electric Power Industry Environmental Issues, Field Course on Energy and the Environment. (Dept of Environmental Studies).

Lecturer, Electric Power Industry Trends, Principles Course in Power Engineering (Dept. of Electric Engineering).

Lecturer, LSU Honors College, Senior Course on “Society and the Coast.”

Continuing Education. Electric Power Industry Restructuring for Energy Professionals.


“Demand Modeling and Forecasting for Regulators.” Michigan State University, Institute of Public Utilities, Forecasting Workshop, Charleston, SC. March 7-9, 2011.


THESIS/DISSERTATIONS COMMITTEES

Active:
3 Thesis Committee Memberships (Environmental Studies)
1 Ph.D. Dissertation Committee (Economics)

Completed:
5 Thesis Committee Memberships (Environmental Studies, Geography)
2 Doctoral Examination Committee Membership (Information Systems & Decision Sciences, Education and Workforce Development)
1 Senior Honors Thesis (Journalism, Loyola University)

LSU SERVICE AND COMMITTEE MEMBERSHIPS

Co-Director/Steering Committee Member, LSU Coastal Marine Institute (2009-Current).

CES Promotion Committee, Division of Radiation Safety (2006).

Search Committee Chair (2006), Research Associate 4 Position.
Search Committee Member (2005), Research Associate 4 Position.

Search Committee Member (2005), CES Communications Manager.

LSU Graduate Research Faculty, Associate Member (1997-2004); Full Member (2004-2010); Affiliate Member with Full Directional Rights (2011-current).

LSU Faculty Senate (2003-2006).


LSU Faculty Senate Committee on Public Relations (1997-1999).

LSU Faculty Senate Committee on Student Retention and Recruitment (1999-2003).

**PROFESSIONAL SERVICE**


Committee Member (2006), International Association for Energy Economics ("IAEE")
Nominating Committee.

Founding President (2005-2007) Louisiana Chapter, USAEE.

Secretary (2001) Houston Chapter, USAEE.