

***Maine Aqua Ventus
Offshore Wind Demonstration Project
Experts Panel***

**June 23 5:30-7:30 pm Expert Panel
June 24 10:00-12:00pm Expert Open House
Monhegan School House
Public Welcome**

Biographies



Dr. Damian C. Brady, Assistant Professor
University of Maine School of Marine Sciences

Darling Marine Center
University of Maine
Walpole, ME 04573-3307:
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Ph.D. University of Delaware 2008

Research Areas

Dr. Brady has been an assistant professor at the Darling Marine Center in Walpole, ME since 2010. His research examines the influence of coastal activities as diverse as coastal development, aquaculture, and offshore wind energy development on marine ecosystems. Dr. Brady was the Environmental Monitoring lead on the DeepCwind Consortium and the New England Aqua Ventus projects. In this role, he developed the environmental monitoring plan for the Castine Deployment of the University of Maine's VoltturnUS 1:8th scale turbine.

His research looks at the spatial and temporal dynamics of water quality and organism behavior determine exposure and dictate the extent to which poor water quality impacts habitat function. Dr. Brady's work focuses on making the connection between water quality and living resources using numerical models that incorporate water quality monitoring and the ecophysiology of the affected organisms.



**Dr. Mario Teisl, Director and Professor
University of Maine School of Economics**

Office: 207 Winslow Hall

Phone: 207.581.3162 - E-mail: teisl@maine.edu

Ph.D. Agricultural and Resource Economics, University of Maryland

Research Areas

Information Policy; Environmental and Health Marketing/Labeling;
Valuation Economics;
International Environmental Policy; Technology Acceptance

Mario has won several UMaine awards: Graduate Dean's Recognition Award for Extraordinary Service to Graduate Studies (2012) and the Outstanding Researcher Award from the College of Natural Sciences,

Forestry and Agriculture (2002). Mario served on the Faculty Senate from 2004-2007.

In the summer of 2009 Mario was an Invited Researcher at the French National Institute for Agricultural Research, Nancy Research Centre in collaboration with Lorraine University and the French Institute of Forestry, Agricultural and Environmental Engineering. In 2005-06, Mario was awarded a year-long Teaching/Research Fulbright Scholar Award at the University of Zagreb Croatia.

Mario has been an active reviewer, or on editorial boards for several journals and granting agencies (e.g., U.S. EPA;) and an editor of books (e.g., Labelling Strategies in Environmental Policy).



Dr. Caroline Noblet, Assistant Professor

University of Maine School of Economics

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Phone: 207.581.3172 - E-mail: caroline.noblet@umit.maine.edu

Assistant Professor

Ph.D. Economic Psychology, University of Maine

M.S. Resource Economics and Policy, University of Maine

B.A. Economics and Environmental Science, Boston College

Research Areas

Environmental Behavior and Economic Psychology, Information Processing (eco-labels, message framing, etc.), Values in Sustainability Science, Food Systems, Environmental Economics, Regional Economic Development

Dr. Noblet is interested in answering the question: Why do people act the way they do towards the environment? This question takes her across academic disciplinary boundaries between the fields of economics, psychology and communication. Her research has focused on the role of motivation, pro-ecological worldview and provision of environmental information in making decisions about, and towards, the environment. Her research considers how individual values, constraints and backgrounds may inform decisions at both the consumer and policy level.

Last, but not least, she is always interested in considering the changing environmental and economic landscape of her home state Maine and welcomes the opportunity to work with Maine businesses and policy makers.

Dr. Noblet teaches a variety of courses focused on economics; environmental economics and energy. Many of her courses provide an opportunity to meet students early in their college career – a perfect time to start considering a major in economics! Dr. Noblet was proud to have been awarded the 2012 Outstanding Graduate Mentor Award, College of Natural Sciences, Forestry and Agriculture and the 2011 Professor of the Year Award from Sigma Phi Epsilon.



Prof. Habib Joseph Dagher, Ph.D., P.E.
Director, Advanced Structures and Composites
Center Principal Investigator, DeepCwind
Consortium

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Dr. Dagher is the founding Executive Director of the Advanced Structures & Composites Center, a National Science Foundation funded research Center housed in a 100,000 ft² laboratory with more than 180 full and part-time personnel. The UMaine Composites Center is a world leader in the development of low-cost, high-performance engineered materials for construction. The Center has worked with over 500 clients world-wide, and has received top national and international awards for its research. Dr. Dagher is author of over 100 publications, holds 25 U.S. and international patents with 8 additional patents pending. He has received numerous awards including the 2015 White House Transportation Champion of Change; the Carnegie Foundation Maine Professor of the Year; the Distinguished Maine Professor Award, the highest award given to a faculty member at UMaine; and the American Society of Civil Engineers Charles Pankow Innovation Award, the highest innovation award offered by the society. Dr. Dagher earned his Ph.D. in structural engineering from the University of Wisconsin-Madison, as well as two Masters Degrees in structural engineering and engineering mechanics. He joined the University of Maine faculty in 1985.

Dr. Dagher testified before the US Senate for a national commitment to deepwater offshore wind energy as a pathway to national energy independence. Under his leadership, University of Maine has gained national and international recognition for designing, fabricating and deploying the VoltturnUS 1:8, the first grid-connected offshore wind turbine in the US and the first floating turbine in the world made out of concrete and composite

materials. The innovative VoltturnUS design utilizes a modular concrete semisubmersible floating hull designed to reduce both capital and Operation& Maintenance costs, and to allow local manufacturing throughout the US and the World.



Dr. Anthony Viselli, P.E.

Manager, Offshore Model Testing and Structural Design

Ph.D., Civil/Structural Engineering, University of Maine 2014

M.S., Civil/Structural Engineering, University of Maine, 2008

B.S., Civil Engineering, University of Maine, 2006

Advanced Structures and Composites Center

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Dr. Anthony Viselli, P.E., is the manager of offshore model testing and structural design at the University of Maine Advanced Structures and Composites Center with over thirteen years of experience in the research, design, testing, and construction of innovative structures.

Dr. Viselli currently leads design efforts for the Centers offshore structure design programs as well as the new Alford W² Ocean Engineering Laboratory in the center. Dr. Viselli has helped to develop several showcase programs at the UMaine Composite Center including secure hybrid steel-composite marine freight containers with funding from the Department of Homeland Security, the VoltturnUS concrete floating foundation technology for offshore wind turbines funded by the US Department of Energy (DOE) and the State of Maine, light-weight composite towers for floating offshore wind turbines funded by the DOE, rapidly deployable composite/concrete land-based wind turbine towers, and the DeepCLiDAR buoy funded by the Maine Technology Institute and DOE. He acted as lead design engineer in each of these programs and generated numerous publications and patents related to this work. Through this work, Dr. Viselli has helped to bring over twenty million dollars of R&D funding to the center.

Dr. Viselli received his doctorate from the University of Maine in Civil Engineering with a focus in offshore structures. His dissertation title was “Model Test of a 1:8 Scale Floating Wind Turbine Offshore in the Gulf of Maine” which resulted in the design, fabrication, and testing of the first grid-connected offshore wind turbine in the US. His technical expertise includes offshore structures design constructed from concrete and steel, analysis of metocean data collected in the Gulf of Maine to support offshore structure design, model testing, pre-stressed concrete design, steel design, wood design, advanced structural analysis, FEA, composite structure design and analysis, composite manufacturing, and structural testing.



M. Wing Goodale, Ph.D. Candidate

Senior Deputy Director, Center for Ecology and Conservation Research Director
Biodiversity Research Institute, 276 Canco Road, Portland, ME 04103
207-839-7600 x219 wing_goodale@briloon.org

Wing Goodale has a B.A. in biology from Colorado College, an M.Phil. in human ecology from College of the Atlantic, and is a Ph.D. candidate in environmental conservation at UMass Amherst. He is a NSF IGERT fellow in the [UMass Offshore Wind Energy Program](#).

Goodale has worked at BRI since 2000 and is now the deputy director. At BRI, he has raised or helped managed over \$7.5 million of funds for more than 60 conservation biology projects. Goodale has served on municipal committees, environmental nonprofit boards, professional boards, and college boards, including the governor appointed Maine Board of Environmental Protection



R Scott Bodwell PE

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R. Scott Bodwell, P.E. is the founder and principal of Bodwell EnviroAcoustics, LLC, an engineering consulting firm that services the energy and industrial sector and specializes in Environmental Acoustics and Noise Control Engineering. Mr. Bodwell has over 25 years of experience in environmental assessments, project engineering and design, and regulatory permitting for major industrial and power generation facilities, wind power projects, and utility transmission projects in the northeast United States.

As a consulting engineer in Maine since 1987, Mr. Bodwell has conducted acoustic studies on over 300 industrial development projects and is recognized as a leading authority on Environmental Acoustics in Maine. He has been involved with acoustic studies of utility-scale



wind turbines in Maine since 2002 and was the lead acoustical engineer on the first two wind energy facilities at Stetson Mountain in Washington County and Mars Hill Wind Farm in Aroostook County.

Mr. Bodwell has conducted peer reviews of environmental assessments for the Maine DEP, the Saco River Corridor Commission and several municipalities in Maine. He has also provided noise impact assessments and acoustic modeling for municipal projects such as schools and regional transportation planning studies and assisted with the

development of local noise control ordinances. He also developed and conducted an Environmental Acoustics Seminar for project managers and technical staff at the Maine Department of Environmental Protection.

Mr. Bodwell has worked closely with the Maine Department of Environmental Protection, Maine Land Use Regulation Commission and independent acoustical consultants to develop and refine procedures and methods for prediction, measurement and assessment of sound from wind turbines. Mr. Bodwell is an Engineering Sciences graduate of Dartmouth College and has completed numerous graduate and continuing education courses in engineering and acoustics. Mr. Bodwell has been a licensed professional engineer in Maine since 1994.



Pamela MacKinnon

Director of Project Development and Commercial
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Pam MacKinnon is the Director of Project Development and Commercial at Emera Inc. She has been with the Emera group of companies for 15 years, focused primarily on large capital projects. Pam has been working in wind and renewable energy since 2002 and has been leading the development of greenfield wind projects for many years. Pam has negotiated more than \$3 billion in power purchase agreement for wind projects, more than half a billion dollars in turbine supply and O&M agreements. She is a former elected as a member of the Board of Directors of the Canadian Wind Energy Association (CanWEA).

David “Red” Webster

Senior Project Manager, Construction Superintendent
CIANBRO

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David “Red” Webster is a Senior Project Manager and construction Superintendent. During his 36 years at CIANBRO, Red has served in a variety of roles ranging from purchasing, estimating, management and even HR as he has progressed through the company ranks starting from a craftsman position. Throughout his tenure, Webster has been involved with a wide variety of multi-million dollar construction projects throughout the eastern United States ranging from major bridge and transportation projects, power plants, paper mills, hydro-electric dams, oil tankers, building and hospital projects, windfarms. Red was the project manager for the University of Maine’s VoltturnUS 1:8 scale floating wind turbine, managing construction, assembly, tow-out and deployment in Castine, Maine.



Nathan Johnson

Director of Business Development, ORPC Solutions and
Director of Environmental Affairs
Ocean Renewable Power Company

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Nathan leads business development efforts for ORPC Solutions, the strategic advisory services arm of ORPC. He also directs ORPC’s site licensing and permitting efforts, leveraging local and global relationships to develop innovative approaches to marine hydrokinetic permitting and environmental monitoring. A native Maine islander, Nathan has a diverse background in commercial fishing, construction management and environmental engineering.



Dick Hall, P.E.

SGC Engineering, LLC
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Dick Hall provides services as a Senior Project Manager for SGC Engineering, LLC (SGC). He has 40 years of experience providing technical, managerial, negotiations, and regulatory compliance, including fifteen years as a licensed Professional Engineer. He works on both public and private sector projects, with extensive experience managing a broad range of issues related to regulatory compliance. In addition to his role in Maine as PM, Mr. Hall works on power engineering across the US and internationally with other members of SGC’s parent, Lloyd’s Register. Dick has substantial experience in managing and designing projects from conception through construction. He possesses expertise in project planning and management of multi-disciplinary engineering projects, including environmental regulatory compliance of capital projects.



James (Jake) Ward IV

Vice President for Innovation and Economic Development

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James (Jake) Ward IV is the Vice President for Innovation and Economic Development and has worked at UMaine for 26 years. His office supports economic development by acting as a liaison for business and industry, facilitating technology transfer, and handling patenting, licensing and commercialization activities for the University of Maine. The office also supports federal and state government relations for the university's R&D mission. Vice President Ward was the Assistant Vice President for Research, Economic Development and Government Relations since 2006. He has served UMaine in various roles within the Department of Industrial Cooperation and the Center for Innovation and Entrepreneurship since joining the University in 1990. Prior to joining the University of Maine, Vice President Ward worked in private industry in marine software development and manufacturing. Originally from Saco, he holds a B.S. in mechanical engineering and an M.S. in ocean engineering from the University of New Hampshire.

About University of Maine

The University of Maine, founded in Orono in 1865, is the state's premier public university. It is among the most comprehensive higher education institutions in the Northeast and attracts students from across the U.S. and more than 65 countries. It currently enrolls 11,286 total undergraduate and graduate students who can directly participate in ground breaking research working with world-class scholars. The University of Maine offers doctoral degrees in 35 fields, representing the humanities, sciences, engineering and education; master's degrees in roughly 70 disciplines; 90 undergraduate majors and academic programs; and one of the oldest and most prestigious honors programs in the U.S. The university promotes environmental stewardship on its campus, with substantial efforts aimed at conserving energy, recycling and adhering to green building standards in new construction.

About UMaine Advanced Structures and Composites Center

Since its establishment by the National Science Foundation in 1996, the center has employed

and trained over 1,800 UMaine undergraduate and graduate students. These students were paid to work on award-winning R&D projects with over 500 Maine-based, national and international companies. The center is housed on campus in a 100,000-square-foot laboratory facility valued at over \$110 million. The center has received 40 national and international excellence awards, including:

- 2015 White House Transportation Champion of Change;
- Top industry awards from the American Composites Manufacturers Association;
- The 2011 Charles Pankow Award for Innovation from the American Society of Civil Engineers (ASCE), the top global innovation award for its Bridge-in-a-Backpack technology; and
- The 2011 Engineering Excellence Award by the American Council of Engineering Companies (ACEC). With funding from the Department of Energy, the center has pioneered development of ocean energy technologies, deploying in 2013 the first grid-connected floating offshore wind turbine in the U.S. in partnership with 30 organizations. Advanced Infrastructure Technologies (AIT), a 2008 spin-off, constructed 20 bridges and became the first composite technology bridge system to be approved in the U.S. AASHTO highway code. It is now an international company after installing a bridge in Trinidad.

composites.umaine.edu/

About Emera

Emera Inc. is a geographically diverse energy and services company head quartered in Halifax, Nova Scotia with approximately \$12 billion in assets and 2015 revenues of \$2.79 billion. The company invests in electricity generation, transmission and distribution, as well as gas transmission and utility energy services with a strategic focus on transformation from high carbon to low carbon energy sources. Emera has investments throughout northeastern North America, and in four Caribbean countries. Emera continues to target having 75- 85% of its adjusted earnings come from rate-regulate businesses. Emera common and preferred shares are listed on the Toronto Stock Exchange and trade respectively under the symbol EMA, EMA.PR.A, EMA.PR.B, EMA.PR.C, EMA.PR.E, and EMA.PR. and the instalment receipts are listed and trade under the symbol EMA.IR. Depositary receipt representing common shares of Emera are listed on the Barbados Stock Exchange under the symbol EMABDR. Additional Information can be accessed at emera.com or at sedar.com.

About Cianbro

“Founded in 1949 by the Cianchette Brothers, Cianbro is now one of the United States’ largest, most diverse, successful, open shop, 100% employee-owned (30th largest in the United States) construction and construction services companies. Presently operating in more than 40 states, 12 markets, and employing over 4,000 team members, Cianbro manages and self-performs civil, structural, mechanical, electrical, instrumentation, fabrication, and coating. Recently, Cianbro was the lead contractor on the Maine Power Reliability Project (“MPRP”), a \$1.2 Billion Dollar transmission line upgrade for Maine’s largest power utility, Central Maine Power Co. Other notable projects include constructing 53 refinery modules for the \$7B upgrade of the

Motiva Port Arthur Refinery, making it one of the largest crude processing facilities in North America.”

Awards & Recognition

As the recipient of over 65 years of awards, Cianbro has been nationally recognized as the Contractor of the Year and the Healthiest and Safest Company in America. Cianbro has also received awards for Excellence in Construction, Build America, Outstanding Civil Engineering Achievement, and Engineering Excellence. Cianbro’s Project Teams are assembled with the depth, experience, and expertise to ensure each project’s success, through attention to detail and aggressive management techniques.

Health & Safety

Cianbro’s number one priority is the safety of its team members – every team member should go home in better condition than which they arrived. Recognized as a national leader in pursuing health and safety in the workplace, Cianbro’s success can be credited directly to the team’s attitude towards working safe – one which is unmatched in the construction industry.

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