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Project Icebreaker: Offshore Wind Project in Lake Erie

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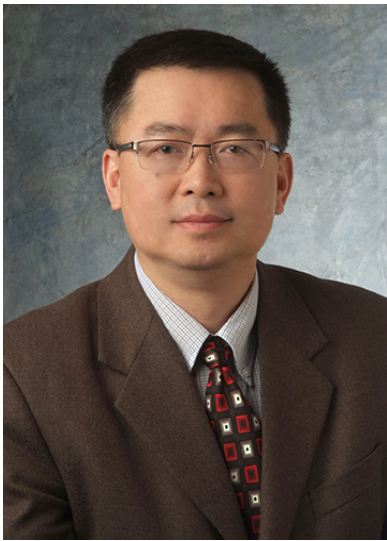
MONTCLAIR STATE UNIVERSITY

The Doctoral Program in Environmental Science & Management and MSU Sustainability Seminar Series Present:

Project Icebreaker – Offshore Wind Project in Lake Erie

WHEN: September 14th, 4:00 pm WHERE: CELS 120 lecture hall

David Zeng
Stevens Institute of Technology

Prof. Zeng obtained his BS degree in hydraulic engineering from Tsinghua University and M.Phil. and Ph.D. degrees in civil engineering from Cambridge University in England. His research interests include geotechnical earthquake engineering, centrifuge modeling, soil mechanics for space exploration, and offshore wind foundations. He has directed more than 40 research projects funded by NASA, NSF, TRB, Department of Interior, DOE, and Ohio Department of Transportation. He has published more than 200 papers and given more than 100 seminars and presentations. He has advised more than 40 Ph.D. and MS students. Currently, he is the Vice Provost for Academic Innovation and Faculty Affairs and Professor of Civil Engineering at Stevens Institute of Technology.

Wind energy is one of the most promising renewable energy resources. The Great Lakes region in the US has huge potential for offshore wind energy development. However, ice loading in winter brings a unique challenge to the foundations for wind turbines. Model tests and numerical simulation have been conducted to investigate different types of foundations and techniques to reduce the ice loading. The ultimate goal is to design a safe and economical foundation for future large-scale wind farms in the Great Lakes.

For more information contact Dr. Yang Deng at dengy@mail.montclair.edu