

## SEA 2026 Agenda

### Tuesday, May 26th

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3-5:30	Welcome Reception	<a href="#"><i>The Waypoint Event Center</i></a>
5:30-8:30	Student Dinner	<a href="#"><i>Moby Dick Brewing Co</i></a>

### Wednesday, May 27th

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6:30-7:30	Breakfast provided by hotels	
7:15	Congregate at hotels. Buses depart promptly at 7:30 from the hotels Bus Pickup- New Bedford Harbor Hotel, 222 Union St, New Bedford Bus Pickup- Fairfield Inn & Suites- 185 MacArthur Dr, New Bedford	
8:45-12	<b>NWF Tour of MA and RI Offshore Wind Farms</b> <ul style="list-style-type: none"> <li>Ferry address-1347 Roger Williams Way, North Kingstown, RI 02852</li> <li>Presentations by the National Wildlife Federation</li> <li>Video filming activity for students</li> <li>Lunch is provided on the boat</li> </ul>	
12:10-1:30	<a href="#"><u>Student poster presentations</u></a>	<a href="#"><i>Quonset Tavern</i></a>
1:30-3	Return bus to New Bedford	
3-5:30	Break with options to visit local <a href="#"><u>landmarks</u></a>	
5:30-8	<b>Welcome Banquet</b> Opening remarks by Ben Downing, CEO of MassCEC, Jennifer Downing, Executive Director of the New Bedford Ocean Cluster and Sanjay Arwade, Director of ARROW. Trivia!	<a href="#"><i>Merrill's on the Waterfront</i></a>

## Thursday, May 28th

All sessions will take place at UMass Dartmouth SMAST East, Conference Room 101-103

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6:30-9:30	Breakfast provided by hotels
8:20-9	Shuttle from the hotels to SMAST
	<b><u>Session 1: The impacts of offshore wind on fisheries and fishing communities</u></b>
9-9:10	Opening Remarks
9:10-10	A Survey of OSW Impacts on Fisheries <i>Kevin Stokesbury, UMass Dartmouth</i> <i>Steve Cadrin, UMass Dartmouth</i>
10-10:15	Coffee break
10:15-11	Tour of the SMAST facilities.
11-12	Human Ecologies: Local Community Perspectives on OSW, and Workforce Impacts. <i>Ike Uri, UMass Amherst</i> <i>Mike Goodman, UMass Dartmouth</i>
12-1:15	<b>Lunch &amp; VR Booth</b>
	<b><u>Session 2: Grid Integration</u></b>
1:15-2:15	Grid Enhancing Technologies and High Performance Conductors <i>Kelt Wilska, Grid Strategies LLC</i>
2:15-3:15	The Social and Regulatory Challenges of Grid Integration <i>Massachusetts Office of Coastal Zone Management</i> <i>Anthony Veilleux, Eversource</i>
3:15-3:30	Coffee Break
3:30-4:45	Challenges of Grid Integration Activity
5:00-7:30	<b>Picnic Dinner, and Windball by the beach</b> <a href="#"><u>Fort Taber Park</u></a>
7:30-8:15	Shuttles back to the hotel

## Friday, May 29th

All sessions will take place at UMass Dartmouth SMAST East, Conference Room 101-103

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6:30-9:30 Breakfast provided by hotels

8:20-9 Shuttle from the hotels to SMAST

### **Session 3: Wake Effects**

9-10 Aerodynamic Wake Effect Modeling and Optimization  
*Umberto Ciri, University of Puerto Rico Mayagüez*

10-10:15 Coffee Break

10:15-11 Hydrodynamic Wake Effect Modeling, and the impacts of OSW on Sea Scallop Larval Dispersal  
*Lu Wang, UMass Dartmouth*

11-12 JHU Turbulence Database Activity  
*Atharva Sathe, Johns Hopkins University*

12-1 **Lunch & VR Booth**

### **Session 4: Drones**

1-1:20 Intro to the role of autonomous and remote vehicles in OSW structural health monitoring and environmental monitoring

1:20-3:35 **Activity 1-** Seeing from Above: Drone Imaging and Data Analysis  
*Chris Niezrecki, UMass Lowell*

**Activity 2-** Into the Deep: Program and Deploy an Autonomous Underwater Vehicle  
*Christopher Rillahan, UMass Dartmouth*

**Activity 3-** Drone Racing: Humans vs Program  
*Alessandro Sabato, UMass Lowell*

**Activity 4-** Discussion on Industry Drone Use and Cod Vocalizations  
*Greg DeCelles, Lead Strategic Specialist, Ørsted*

**Activity 5-** Discussion on Industry Drone Use and Metocean Data  
*Sarah McElman, Metocean Expert Americas*

3:35-3:50 Autonomous and remote vehicles in OSW discussion and wrap-up

3:50-4 **SEA Concluding Remarks**

4:10-4:40 Shuttles back to the hotels



## **Addresses**

***UMass Dartmouth S Mast East***- 836 S Rodney French Blvd, New Bedford, MA 02744

***The Waypoint Event Center***- 185 MacArthur Dr, New Bedford, MA 02740

***Moby Dick Brewing Co***- 16 S Water St, New Bedford, MA 02740

***Boat tour*** -Those traveling from New Bedford can catch the bus at the following locations:

New Bedford Harbor Hotel, 222 Union St, New Bedford

Fairfield Inn & Suites- 185 MacArthur Dr, New Bedford

Those traveling directly to the tour should drive to the following address:

1347 Roger Williams Way, North Kingstown, RI 02852

***Quonset Tavern By The Green***- 615 Callahan Rd, North Kingstown, RI 02852

***Merrill's on the Waterfront***- 36 Homer's Wharf, New Bedford, MA 02740

***Fort Taber Park***- 1000 S Rodney French Blvd, New Bedford, MA 02744



## **Poster Session**

<b>Name</b>	<b>Affiliation</b>	<b>Title</b>
Ali Frey	UMass Dartmouth	Connectivity, Movement and Distribution of Fish in Offshore Wind Farm Areas.
Amelia Adcroft	Johns Hopkins University	Impacts on Wind Farm Wakes of the Axial Induction Correction to the Fitch WFP
Amienne Spencer-Blume	Johns Hopkins University	Articulating Place: A Contradictory Coalition Against Offshore Wind on the Eastern Shore
Andie Painten	UMass Dartmouth	Should I stay or should I go? The attraction versus aggregation theory at offshore wind farms using black sea bass as a case study
Atharva Sathe	Johns Hopkins University	JHTDB-Wind: A Web-Accessible Large-Eddy Simulation Database of a Wind Farm with Virtual Sensor Querying
Aytan Hajiyeva	UMass Lowell	Structural health monitoring of wind turbines
Bologna (Bella) Travers	UMass Dartmouth	Examination of Offshore wind farms reshaping benthic predator-prey interactions
Emma Remien	Northeastern University	A Case Study of Blade Loads on the IEA 15MW Turbine Under Wave-Only Loading
Hannah Darling	UMass Amherst	CFD Simulation of the OC6 Floating Offshore Wind Platform
Iman Khajepour	UMass Amherst	Improving Electricity Markets with Risk-Sharing Instruments
Jonah Hanak	UMass Amherst	Improving the wake modeling of FAST.Farm to account for veer and shear
Jonisha Aubain	UMass Amherst	Multi-Load Design Optimization of Bridge Structures for Hydrokinetic Energy Applications
José Amell	University of Puerto Rico Mayagüez	Oceanic Response to Offshore Wind Farms
Lauren Hart	Cal Poly Humboldt	What Power Do We Have: Energy Justice in Samoa, California's Floating Offshore Wind Terminal Development
Max Raha	Northeastern University	Defining Structural Fragility for Reliability Analysis of IEA 15MW Blade
Maxiste - Fabian Pacheco - Monterrosa	University of Puerto Rico Mayagüez	A Metocean Modeling for Reliable Wind-Wave Characterization for Offshore Wind Applications
Melvin Lugo Alvarez	Northeastern University	A ML Method for Offshore Wind Farm Power and Fatigue Prediction including Wake Effects



Morteza Shafiei	UMass Amherst	Effect of laboratory-induced degradation on the plasticity of authigenic glauconite sands
Nathan Agarwal	Johns Hopkins University	Up and Out: Navigating atmospheric stability in complex terrain
Nazila Emamdoost	UMass Amherst	Biofouling-Induced Changes in Mooring Line Drag: Considerations for Offshore Structural Reliability
Oyewole Abe	UMass Amherst	Fragility assessment of Offshore Monopile foundation in nonlinear sand and clay in U.S East coast soils
Peter Schimpf	UMass Amherst	Proposed Engineering Model for Azimuthal Redistribution of Induced Velocities in Yawed Horizontal Axis Wind Turbines
Ryan Cameron	UMass Amherst	Evolutionary Optimization of Wind Turbine Airfoils
Ryan Davies	Stanford University	Synthetic Training Data Generation for Secondary Entanglement Detection of Deepwater Moorings
Pharlin Medard	University of Puerto Rico Mayagüez	Wave-Induced Effects on Offshore Wind Turbines Performance
Saroj Khanal	Johns Hopkins University	Data Center Flexibility and Grid Infrastructure Needs in PJM
Susmita Bhowmik	Clemson University	Offshore Wind Energy in the Face of Climate Change: Risk Assessment and Opportunity Exploration
Syed Saddam Ul Hassan	UMass Amherst	Effect of unsteady aerodynamics models on the aeroelastic stability of wind turbines
syed_jabbarshah@student.uml.edu Jabbar Shah	UMass Lowell	Structural Health Monitoring of Wind Turbine Blades Using AI for Automated Defect Quantification
Xi Peng	Johns Hopkins University	Towards reference wind turbine tower design for fatigue
Yishu Zhang	Johns Hopkins University	A Large Eddy Simulation Study of Turbine Pitch Motion Effects on Fully Developed Floating Wind Farm Boundary Layers
Yuanjing Zou	UMass Amherst	Soil-structure interface interaction of pile foundations in glauconite sand
Yun Ni	Stanford University	Real-Time Hybrid Physical-Numerical Simulation for Multi-Physic Systems of Model-Scale Floating Offshore Wind Turbine Testing
Zening Teng	Northeastern University	Simulating Risk, Training Safety: A VR Platform for Offshore Wind



ACADEMIC CENTER FOR RELIABILITY  
& RESILIENCE OF OFFSHORE WIND

## Diner Recommendations

### Cisco Kitchen & Bar

New American  
1482 E Rodney French Blvd, New Bedford, MA 02744

### Inner Bay Café

Traditional Portuguese cuisine  
1339 Cove Rd, New Bedford, MA 02744

### The Black Whale

Seafood  
104 Co Op Wharf, New Bedford, MA 02740

## Local Attractions

### New Bedford Fishing Heritage Center

New Bedford Fishing Heritage Center's community documentation work preserves and presents the rich history and culture of the local fishing community.

38 Bethel St, New Bedford, MA 02740, USA

10-4 pm

\$10 Adults / \$6 Seniors and Students

### Bedford Whaling Museum

Anchored in the story of New Bedford's whaling industry, the New Bedford Whaling Museum documents and shares the diverse stories of this vibrant maritime region and its people, both bygone and current.

18 Johnny Cake Hill, New Bedford, MA 02740

9-5 pm

\$24

You can also receive discounted admission to the Fishing Heritage Center when you purchase a ticket in-person at the [Whaling Museum](#) and add on a visit to the Fishing Heritage Center for an additional \$5.