Mini TechSurge: Advancing Collaboration and Inspiring Innovation for Offshore Wind Monitoring and Mitigation | Website

NYSERDA State of Science Meeting | Stony Brook University
July 18, 2024 | 1:30 – 5:30 PM | Ballroom B

MTS marine technology society
Opportunity runs deep™

RWSC
Regional Wildlife Science Collaborative for Offshore Wind

Final Agenda

Time	Agenda Item
1:30 – 1:40 PM	**Welcome** Ruth Perry, Marine Technology Society (MTS) Offshore Renewable Energy Committee Chair, Shell, and Emily Shumchenia, Regional Wildlife Science Collaborative for Offshore Wind (RWSC), Director
1:40 – 2:30 PM	**Panel: Innovative Approaches to Leverage Offshore Infrastructure for Environmental and Wildlife Monitoring: Insights from Above and Below Water** *Purpose: Session will highlight examples of work done and/or underway in the integration of sensors and technology with offshore development and infrastructure to support monitoring and mitigation efforts, focusing on both above and below water. Speakers will share their professional experience and explore how technological monitoring is applied in decision-making.* Moderator: Emily Shumchenia, RWSC Speakers: • Sarah Courbis, Ph.D., Worley Consulting • Jennifer Dupont, Equinor • Benjamin Colbert, Office of the Chief of Naval Operations (OPNAV)
2:30 - 2:40 PM	**Question and Answer Session** Moderator: Emily Shumchenia, RWSC
2:40 - 2:55 PM	**Break**
2:55 – 3:10 PM	**Overview of Breakout Sessions** *Purpose: Participants will engage in discussions to pinpoint specific bottlenecks, assess the adequacy of data collection and sensor deployment, and explore technological and partnership solutions for enhancing the workflow.* Speaker: Josh Kohut, MTS VP of Education, Rutgers University Two focus areas: 1. **Science and Monitoring** - Anticipated data needs for research, potential impact assessment, and mitigation

	2. **Technology** - Current capabilities and potential applications of future innovation
3:10 – 3:55 PM	**Breakout Session 1** **Data and Sensor Deployment (15 minutes)** • What specific types of data and real-time monitoring sensors/platforms can be utilized for real-time decision-making and monitoring, and what are the optimal deployment methods, locations, and technological innovations needed to address challenges like local data storage and transmission? **Future Data Needs (15 minutes)** • What data requirements and technological advancements are anticipated for offshore wind ecological impact research and monitoring over the next two years? **Identifying Roadblocks and Solutions (15 minutes)** • What are the current bottlenecks in science interpretation workflows, and what technological advancements are needed to address these challenges?
3:55 - 4:10 PM	**Break**
4:10 - 4:55 PM	**Breakout Session 2** **Review and Reactions (15 minutes)** • How do the ideas discussed by the other breakout group align with your discussion? What new insights have emerged, and what common themes do you see? Are there any important aspects that haven't been addressed yet? **Partnership Challenges and Solutions (30 minutes)** • How can we foster partnerships to develop and implement these technologies? Are there examples of successful partnerships? • What technological advancements can address identified challenges? • How do we encourage/enable limited sharing between and among private industry, regulators, etc.?
4:55- 5:15 PM	**Tech Café Overview and Adjourn** Ruth Perry, MTS Offshore Renewable Energy Committee Chair, Shell