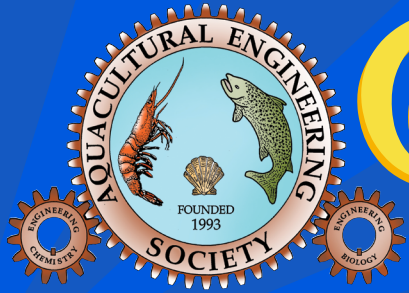


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SPECIAL WORKSHOP

RAS FUNDAMENTALS

FRIDAY, MARCH 7

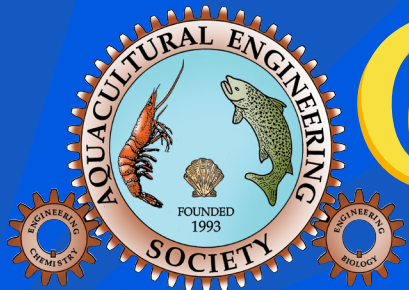
Topic	Speaker	Affiliation
11:00 Elements of Today's RAS (Intro)	Bert Wecker	Oceanloop (Germany)
11:30 RAS Design: Mass Balances	Mike Timmons	Cornell University (USA)
12:00 Fish Tank Design & Selection	Ed Aneshansley	EdA Aquatics (USA)
1:30 Solids Control	German Merino	Universidad Catolica del Norte (Chile)
2:00 Oxygenation	David Kuhn	Virginia Tech (USA)
2:30 Carbon Dioxide Control	Brian Vinci	Freshwater Institute (USA)
3:00 Biofiltration	Sharada Navada	NTNU (Norway)
3:30 Denitrification	Snir Azaria	Inland Ocean (Israel)
4:00 Ozonation	Katie Spiliotopoulou	OxyGuard International A/S (Denmark)
4:30 Heating and Chilling	Devin Murray	Delta Hydronics (USA)
5:00 Piping Design	Carlos Espinal	Landing Aqua (the Netherlands)

ADVANCES IN RAS

SATURDAY, MARCH 8

Presentation Title	Speaker
8:30 Olive Flounder Performance in RAS	Andrew Ray
8:45 Spawning and Early Life Cycle for Striped Bass in RAS	Steve Hall
9:00 Indoor Land-Based Shrimp Farming: An Alternative to Pond Farming	Bert Wecker
9:15 Algae-based RAS for Shrimp	Matt Ellis
9:30 FiletCam 2.0: AI Tool for Fillet Quality and Defect Assessment	Rakesh Ranjan
9:45 Novel Sensor Network for Large-Scale Water Quality Monitoring in RAS	Nili Persits
10:30 Anaerobic Digestion of RAS Waste: Status and Developments	Abhinav Choudhury
10:45 Investigating RAS Water Disinfection with Low-Dose Peracetic Acid	Chris Good
11:00 Sources of Off-flavor Production in RAS	John Davidson
11:15 Objective Evaluation of Off-Flavor Mitigation Technologies	Matthew Stromberg
11:30 Engineered-Airlift Pumps Can Improve Sustainable Operation of RAS	Josh Rosettani
11:45 iMCR: A new Paradigm in RAS Design	Mike Timmons
12:00 Evaluation of a Novel Water Treatment Technology for BOD, TSS and P	Joel Barraza
12:15 Selecting the Right Gas Management Technology	Cameron Cullens

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ENGINEERING CONTRIBUTED

SATURDAY, MARCH 8

Presentation Title	Speaker
1:30 Pioneering Aquaculture Studies in Microgravity for Benefits on Earth	Jacob Scoccimerra
1:45 Improving Microalgal Research and Production with Low-Cost Technologies	Maria Teresa Gutierrez-Wing
2:00 PHB/Starch and PHB/Cellulose Blends for Ammonia Assimilation in RAS	Chimezie Chiana
2:15 Polyhydroxybutyrate/Cellulose Blend (PHBC) as a Carbon Substrate for Denitrification in RAS	Chinedu Chiana
2:30 Development And Evaluation of PHBV-Biomass Composite Pellets for Efficient Denitrification in RAS	Md Tamzidul Alam
2:45 Improvements in Sulfur Denitrification Reactor Construction to Facilitate Nitrate Removal	Olivia Markham
3:00 Exploring Single-Stage Oxic Process for Simultaneous Rapid Recovery of Phosphate and Nitrate Via Bioflocs to Promote Circular Economics	Guozhi Luo
3:15 Nutrients Removal and Microbial Succession in Marine Periphyton Biofilter: The Ecological Aspect of a Cost-Effective Biofilter	Shai Meroz-Yagur
3:30 <i>Candidatus scalindua</i> , a Biological Solution to Treat Saline RAS Wastewater	Johnathan Roques
3:45 Aeration and Power Requirements for CO ₂ -Replete Tank Cultivation of the Red Seaweed <i>Devaleraea Mollis</i> (Pacific Dulse)	Gregory Rorrer
4:00 Carbon-Negative Shellfish Farming Through Electrification and Renewables - at Sea and on Land	Nick Planson
4:15 Assessment of Oxygen Dynamics in a Shrimp Pond Using Optical Dissolved Oxygen Sensors	Cristhian San Andres
4:30 Project Aquagrid: Demonstrating Ocean Energy's Contribution in Accelerating the Decarbonisation of Aquaculture's Energy Requirements	Michael Byrne

AES BOD MEETING
Saturday, March 8
12:30 – 1:30 PM

AES GENERAL MEMBER MEETING
Saturday, March 8
4:45 – 5:15 PM