

# HABTECH



# 2025 Workshop Program

Connecting Data, Nature and Technology to tackle HABs

## October 29th: Morning Schedule

08:30 - 09:00	<b>Accreditation of event attendees</b> <i>Claudia Nahuelhuén</i>
09:00 - 09:10	<b>Welcome &amp; Introduction.</b> <i>Alejandro Clément &amp; Nicole Correa, Plancton Andino SpA.</i>
09:10 - 09:45	<b>Learning Ultra-high-throughput Microscopic Imaging-in-flow for Marine Phytoplankton Monitoring (Videoconference)</b> <i>Dr. Claude Li Jianping, Shenzhen Institutes of Advanced Technology of Chinese Academy of Sciences</i>
09:45 - 10:15	<b>Salmon Aquaculture, Environment and Technologies.</b> <i>Alfredo Tello, Camanchaca S.A.</i>
10:15 - 10:50	<b>Holography in Plankton Studies.</b> <i>Aditya R Nayak, Florida Atlantic University, USA.</i>
10:50 - 11:05	<b>Coffee Break.</b>
11:05 - 11:55	<b>Optical Sensing of HABs in Optically Complex Waters.</b> <i>Michael Twardowski, Center for Marine Applied Tech. &amp; Engineering (C-MATE), Florida Atlantic University. USA.</i>
11:55 - 12:45	<b>Hyperspectral Optical Measurements on Discrete Samples.</b> <i>Alberto Tonizzo, Scientist of Sunstone Scientific LLC.</i>
13:00 - 14:30	<b>Lunch Break</b>

## October 29th: Afternoon Schedule

14:30 - 14:45	<b>Mitigation Techniques Against HABs in Fish Farms.</b> <i>Matías Rodríguez, PSP CHILE</i>
14:45 - 15:00	<b>Upwelling Systems in Aquaculture: Field Validations and Evaluation of Mechanical Stress on Microalgae under Controlled Conditions.</b> <i>Martín Hevia, IMENCO</i>
15:00 - 15:15	<b>Self-driven Algae Monitoring System, SAMS.</b> <i>Pablo Campos, RetinaLab.</i>
15:15 - 15:30	<b>High-Resolution Satellite Remote Sensing and Machine Learning for Harmful Algal Bloom Detection in Coastal Aquaculture.</b> <i>Raimundo Manterola, WaterMind.</i>
15:30 - 16:10	<b>Technology Requirements for Molecular Biology Study of Chilean Phytoplankton Cells. Challenges and applications.</b> <i>Robert Hatfield, Centre for Environment Fisheries and Aquaculture Science (CEFAS), UK.</i>
16:10 - 16:25	<b>Coffee Break.</b>
16:25 - 16:40	<b>New technologies in the route to decode the optical signal of harmful phytoplankton species from lab to open waters</b> <i>Pilar Aparicio Rizzo, Centro I-mar, Universidad de los Lagos.</i>
16:40 - 17:10	<b>ADICFitto, FarmWatch, &amp; BloomPredictor are Specialized Modules Designed to Provide Technological Support for HABs</b> <i>Alejandro Clément, Plancton Andino SpA.</i>
17:10 - 18:00	<b>Round table, Final Remarks and Discussion.</b>
18:00 - 19:30	<b>Social event: a chance to relax and enjoy conversation with local craft beers and food.</b>

Contributors:

Codebreaker



PLANCTON  
ANDINO