

November 5-9, 2018

**THE MARITIME
ALLIANCE** 10th ANNUAL
**BLUETECH
WEEK**

Promoting BlueTech and Blue Jobs®

United Nations' Sustainable Development
Goals & Industry Solutions

Aquaculture/BioMarine

BlueTech Cluster Day

BlueTech Gala Dinner

BlueTech Investors Day

Marine Debris Solutions

Offshore Renewables

Robotics/Ports/Shipping

Water/Wastewater Tech

Workforce Development

Thank you for joining us for the 10th Annual BlueTech Week...

BTW is always focused on the **TMA** Mission, which is “*Promoting Sustainable, Science-Based Ocean & Water Industries*”. It is about balancing conservation and smart economic growth...and on “*Promoting BlueTech and Blue Jobs*.” That is a constant. But we add as we learn and grow. For example, over the 3-4 years we have added major focus on **BlueTech** clusters globally and on helping develop new sustainable **Blue Economy** and **BlueTech** investment capital sources.

Every year we have a different theme for **BTW**. This year it is “UN Sustainable Development Goals & Industry Solutions.” This is our biggest **BTW** ever – as we go to print, we expect over 500 individual attendees (many for multiple days) from 16+ countries, over 140 speakers, and well over 100 companies. From **BTW2016** we moved to a new venue for **BTW2017**, which we outgrew in one year, so we are in a new, larger venue for **BTW2018** and hope to stay here in 2019.

We have developed this format of multiple, unbundled events over five days to provide value in different ways to different stakeholders. This year, the 4th annual “by invitation” **BlueTech Cluster Convening** again brings together existing and in-formation clusters to discuss Best Practices and collaboration. The **Marine Debris Solutions Day** co-hosted with Scripps Institution of Oceanography on November 6 focuses on innovative industry solutions to four big issues: Plastics in the Ocean; Sunken Vessels and Unexploded Ordnance; Oil Detection and Cleanup; and Fishing & Netting Gear Alternative Solutions. The **BlueTech Summit & Tech Expo** on November 7-8 will feature four Plenary Sessions with an amazing array of speakers, four tracks with six panels each, and 35+ exhibitors – more than ever before. The **BlueTech Gala Dinner & Award Ceremony** is a highlight every year as we hear a great speaker, recognize great accomplishments, and enjoy great food and networking. And the 3rd annual **BlueTech Investor Day** will have 20+ innovative **BlueTech** companies presenting to a great panel of judges and more investors than ever before.

We are fortunate in San Diego. With 3.3 million inhabitants, we represent California’s second-most populous county and the fifth-most populous in the United States. There is an amazing array of government, industry, military and university assets in the region. In addition, looking at the larger Cali-Baja region – there are about 7 million inhabitants. **TMA** has played a crucial role in helping develop an increasingly unified regional Blue Voice. This includes a process to create a **TMA** Baja chapter with partners in northern Baja California, Mexico. **BlueTech** companies are increasingly collaborating and assisting each other – truly a “rising tide raises all boats” story.

We have a lot to be proud about: There is an increasing awareness of the importance of the Blue Economy and **BlueTech**, and of the critical role of **BlueTech** clusters to develop Blue Voices region-by-region, country-by-country. It is **BlueTech** that allows us to find the problems that humans have created over thousands of years – throwing stuff in the ocean and overusing water resources – and it is **BlueTech** that is critical to provide the solutions. We are proud of our growing national and international member base, of our extensive educational outreach and partnerships that are critical to develop needed technical workers and the entrepreneurs of the future, and of the growing **BlueTech Cluster Alliance**, which promotes collaboration among 10 BlueTech clusters from eight countries today. And we are proud to be working with all of you!

Thank you again for joining us for **BTW2018** and don’t forget to mark your calendars for the 11th annual **BlueTech Week** scheduled for Nov. 18-22, 2019!!

Sincerely,

Michael Jones, TMA President



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Promoting BlueTech
and Blue Jobs®

The Maritime Alliance (TMA) is a 501(c)6 non-profit industry association and organizer of the largest **BlueTech** cluster in the United States. As of Nov. 2018, **TMA** represents 100-member companies and agencies, with a focus on economic development, (business) ecosystem development and national & international Outreach. **TMA's** Mission Statement is to **“Promote Sustainable, Science-Based Ocean and Water Industries”** and its tagline is **“Promoting BlueTech and Blue Jobs®.”**

Welcome to the 10th Annual BlueTech Week

The Port of San Diego is proud to sponsor the 10th Annual BlueTech Week. We welcome the many attendees from government agencies, educational institutions, the business community and other industries to San Diego.

This important annual event brings together leaders in the Blue Economy to collaborate and share innovative ideas and technologies. As a long-time champion and catalyst of our water-dependent economy, the Port salutes Blue Tech Week for raising awareness of the many opportunities that the Blue Economy provides.

The Port continues to accelerate the Blue Economy in the San Diego region with its new Aquaculture and Blue Tech program and through collaboration with The Maritime Alliance. The Port is a launching pad for new ideas and innovative projects by providing key assets and services such as pilot project facilitation, permit-ready infrastructure, entitlements, market access and strategic funding.

The future of San Diego Bay and the ocean will be determined significantly by inventions and ideas to come, and events like Blue Tech Week help enhance and accelerate the process.

We look forward to seeing our partners in the Blue Economy at BlueTech Week and welcome the many out-of-town attendees to our dynamic waterfront.

Sincerely,



Rafael Castellanos

Chairman, Board of Port Commissioners



Agenda at a glance

Monday, November 5, 2018

BlueTech Cluster Convening - San Diego Foundation

8:00-8:30am	Registration & Networking
8:30-8:45am	Welcome & Overview of the Day
8:45-9:45am	BlueTech Cluster Alliance – Governance Structure & Update
9:45-10:00am	Coffee Break
10:00-11:00am	Blue Economy Workforce Development
11:00-12:00pm	Capacity Building & Promoting Economic Development Through Clusters
12:00-12:45pm	Networking Lunch
12:45 -1:45pm	Corporate Evaluation, Market Intelligence, and Blue Investments
1:45 -2:45pm	Solutions Consortia- Best Practices and International Collaboration
2:45 -3:15pm	Coffee Break & Group Photo
3:15 -5:00pm	BTCA Joint Discussion & Triple-Helix Dialogue
5:00 - 5:15pm	Action Items & Next Steps
5:30 - 7:00pm	Hosted Reception

Tuesday, November 6, 2018

Marine Debris Solutions Conference - Scripps Institution of Oceanography

8:00-8:30am	Registration & Networking
8:30-8:45am	Welcome & Keynote Speaker Introduction
8:45-9:15am	KEYNOTE: NOAA Marine Debris Program Office
9:15-10:30am	PANEL 1: Plastics in the Ocean – Industry Solutions
10:00-11:00am	Morning Networking Break
11:00-12:15pm	PANEL 2: Sunken Vessels and Unexploded Ordnance
12:15-1:00pm	Networking Lunch
1:00 -1:15pm	Welcome Back and Overview of the Afternoon
1:15 -1:45pm	Featured Speaker: Think Beyond Plastic
1:45 -3:00pm	PANEL 3: Oil Detection and Cleanup
3:00 -3:30pm	Afternoon Networking Break
3:30 -5:00pm	PANEL 4: Fishing & Netting Gear Alternative Solutions
5:00 -7:00pm	Hosted Networking Reception

Agenda at a glance

Wednesday, November 7, 2018

BlueTech Summit & Tech Expo- InterContinental Hotel, Downtown San Diego

7:00-8:30am	Registration & Continental Breakfast Among Exhibitors			
8:30-8:45am	Welcome and Keynote Speaker Introduction			
8:45-9:30am	KEYNOTE: Portugal's Blue Economy Strategy			
9:30-10:30am	PLENARY 1: International Leadership in Promoting Sustainable Development Goals			
10:30-11:00am	Coffee Break Among Exhibitors			
11:00-12:00am	PLENARY 2: Industry Leadership in Promoting Sustainable Development Goals			
12:00-12:20pm	International Opportunities Panel			
12:20-1:15pm	Networking Lunch Among Exhibitors			
1:15-2:15pm	Desalination	Smart Planning for Offshore Renewable Energy	Algae for Feed & Food	BlueTech Workforce Needs
2:15-3:15pm	Water & the Circular Economy	Projects in the Pipeline Offshore Renewable Energy	Biomedicines	BlueSTEM Education: Best Practices
3:15-4:00pm	Break Among Exhibitors			
4:00-5:00pm	Decentralized Water	Enabling Technologies for Sustainable Energy	Biomimicry	BlueSTEM Education: San Diego Case Study
5:15-6:30pm	Hosted Networking Reception			
6:30-9:15pm	10th Annual BlueTech Gala Dinner & Awards Ceremony			

Tracks

Water/
Wastewater
Technology

Offshore
Renewable
Energy

Aquaculture/
Biomarine

Blue Economy
Workforce of
Tomorrow

Agenda at a glance

Thursday, November 8, 2018

BlueTech Summit & Tech Expo- InterContinental Hotel, Downtown San Diego

7:30-8:15am	Registration & Continental Breakfast Among Exhibitors			
8:15-8:30am	Welcome and Keynote Speaker Introduction			
8:30-9:00am	KEYNOTE: Admiral Tim Gallaudet, Acting Administrator, NOAA			
9:00-10:00am	Collecting & Analyzing Water Data	Offshore Wind Policies: California, U.S & Europe	Sustainable Food from the Sea	Maritime Robotics & Ocean Observation
10:00-11:00am	Agriculture & Irrigation Technologies	Challenges & Opportunities in Offshore Wind	Enabling Technologies in Aquaculture	Smart Ports/ Smart Shipping
11:00-11:30am	Coffee Break Among Exhibitors			
11:30-12:30pm	Investing in Water/ Wastewater	Investing in Offshore Renewables	Investing in Aquaculture/ Biomarine	Maritime Safety & Security
12:30-1:45pm	Networking Lunch Among Exhibitors			
1:45-2:00pm	Welcome and Speaker Introduction			
2:00-2:30pm	FEATURED SPEAKER: United Nations Sustainable Development Goals			
2:30-3:30pm	PLENARY 3: Understanding and Promoting a Sustainable Blue Economy			
3:30-4:00pm	Break Among Exhibitors			
4:00-5:00pm	PLENARY 4: Financing the Blue Economy			
5:00-7:00pm	Hosted Networking Reception			

Tracks

Water/
Wastewater
Technology

Offshore
Renewable
Energy

Aquaculture/
Biomarine

Maritime
Robotics

Agenda at a glance

Friday, November 9, 2018

BlueTech Investors Day- InterContinental Hotel, Downtown San Diego

7:30-8:15am	Registration & Hosted Continental Breakfast
8:15-9:00am	Welcome & Investor Introductions
9:00-10:15am	Pitch Presentations (x6)
10:15-10:30am	Hosted Networking Break
10:30-12:00pm	Pitch Presentations (x6)
12:00-1:00pm	Networking Lunch
1:00-2:00pm	Pitch Presentations (x5)
2:00-2:15pm	Hosted Networking Break
2:15-3:30pm	Pitch Presentations (x5)
3:30-4:00pm	Overview of the Afternoon/ Wrap-up Discussion
4:00-6:00pm	Hosted Networking Reception

Companies

Acoubit Communications Inc.	Dolprop	SeaTrec
Algenesis	GroGuru	Sedna Technologies
AquaCycl	Igloo Innovates	Set1 Inc.
Ashored Innovations	Oisann Engineering	Shore Buddies
BioFiltro	Planck Aerosystems	SubSeaSail
BitCliq	Pontic Technology	Triton Algae Innovations
BlueNalu	Resynergi	
Blue Ocean Gear	SeaStatus Marine Weather	

Judges

Rolando E. Morillo - Vice President, Rockefeller & Co.
Nicole Neeman-Brady - COO, Renewable Resources Group
Dean Rosenberg - President, Tech Coast Angels-San Diego
Chris Rowan - Managing Partner, Arscentia Advisors
Steve Beck - Managing Partner, Serra Ventures
Janice-Renee Yoshioka- Conservation International Ventures

Agenda

Monday, November 5, 2018

4th annual **BlueTech Cluster Convening + Triple Helix Dialogue**

AGENDA ("by invitation events")

8:00-8:30 am *BlueTech Cluster Convening: Arrival & Networking*

8:30-8:45 am *Welcome & Overview of the Day*

Moderator: Craig McLean - Acting Chief Scientist, NOAA

8:45-9:45am *BTCA - Governance Structure, Update & a new Affiliate Program*

Discussion Leaders: Michael Jones - The Maritime Alliance
Frederico Ferreira - Forum Oceano (PT)

9:45-10:00 am *Coffee Break*

10:00-11:00 am *Blue Economy Workforce Development*

Discussion Leaders: Linda Kurokawa - MiraCosta College Technical Career Institute
Maria Azucena - Norwegian University of Science and Technology (NO)

11:00 - 12:00pm *Capacity Building & Promoting Economic Development Through Clusters*

Discussion Leaders: Patrick Baraona - Pole Mer Mediterranee (FR)
Chris Bryceland - Scottish Development International (UK)

12:00 - 12:45pm *Networking Lunch*

12:45 - 1:45pm *Blue Investments, Corporate & Market Evaluation & Ocean/Water Tech Clusters*

Discussion Leaders: Joshua Berger - State of Washington
Bryan Stubbs - Cleveland Water Alliance
Judith Underwood - Blue Incubator

1:45 - 2:45pm *Solutions Consortia - Best Practices and International Collaboration*

Discussion Leaders: Owe Hagesaether - GCE Subsea (NO)
Ayoze Castro Alonso - PLOCAN (SP)

The Triple Helix Dialogue was created to promote dialogue & collaboration across four stakeholder groups – academia, clusters, industry and policy makers. Meetings take place at industry events.

2:45 – 3:00 pm *Triple Helix Dialogue: Participants Arrive*

3:00 – 3:15 pm *Group Photo (clusters and Triple Helix Dialogue participants together)*

3:15 - 5:00pm *Triple Helix Dialogue + Clusters*

5 minutes: Brief self-introductions

Four 20-minute case studies: Deep Trekker, Earthwise Sorbents, iXblue, Swift Engineering

20 minutes: Understanding & promoting collaboration on company and industry codes

5:00 - 5:15pm *Action Items & Next Steps* **Craig McLean - NOAA**

5:30 - 7:00pm *Hosted Reception: Buona Forchette restaurant* (7-8 minute walk from SD Foundation)

Location: San Diego Foundation / 2508 Historic Decatur Rd #200, San Diego, CA 92106

Directions & parking info: <https://www.sdfoundation.org/contact-us/>

Reception: Buona Forchette restaurant / 2865 Sims Rd, San Diego, CA 92106

Cost: \$75 per person for BlueTech Cluster (including Triple Helix Dialogue & Reception)

\$15 per person for Triple Helix Dialogue + Reception

Dress Code: Business Casual



Agenda

Tuesday, November 6, 2018

The Marine Debris Solutions Conference is a 1-day seminar focused on industry solutions to the challenges posed by marine debris. This 1-day event on Tuesday, November 6th is embedded within the 10th annual [BlueTech Week](#) and co-housed with UC San Diego Scripps Institution of Oceanography and will feature hosted lunch, breaks and a networking reception, including four panel discussions on the following topics:

Plastics in the Ocean – Industry Solutions
Sunken Vessels & Unexploded Ordinance

Oil Detection & Cleanup
Fishing & Netting Gear Alternative Solutions

8:00 – 8:30am: Registration & Networking

8:30 – 8:45am: Welcome & Keynote Speaker Introduction

Dr. Margaret Leinen - Director, Scripps Institution of Oceanography
Michael Jones - President, The Maritime Alliance

8:45 – 9:15am: KEYNOTE: NOAA Marine Debris Program Office

Dr. Sherry Lippiatt, California Regional Coordinator, NOAA Marine Debris Program

9:15 – 10:30am: PANEL 1: Plastics in the Ocean - Industry Solutions

Dr. Dimitri Deheyn - Researcher, Scripps Institution of Oceanography (moderator)
Susan Baer - Founder, Clear Blue Sea
Brian Bauer - CEO, Resynergi
Markus Steiner-Meinecke - Chief Engineer, Freylit Austria (AT)
Andrew Streett - VP Technology & Chief Scientist, Swift Engineering

10:30 – 11:00am: Morning Networking Break

11:00 – 12:15pm: PANEL 2: Sunken Vessels and Unexploded Ordinance

Sean Newsome - Deep Trekker (moderator)
Guillaume Eudeline - Business Development, iXblue (FR)
Dr. Thomas Levy - Co-Director, Scripps Center for Marine Archaeology
Kurt Nelson - President, Orca Maritime

12:15 – 1:00pm: Hosted Networking Lunch

1:00 – 1:15pm: Welcome Back & Overview of the Afternoon

1:15 – 1:45pm: FEATURED SPEAKER: Think Beyond Plastic

Daniella Russo - CEO, Think Beyond Plastic

[Marine Debris Solutions Conference](#)

Scripps Institution of Oceanography
8610 Kennel Way, La Jolla, CA 92037

[Scripps Seaside Forum](#)

Parking is extremely limited.

Carpool, rideshare or taxi encouraged



[UC San Diego](#)



1:45 – 3:00pm: PANEL 3: Oil Detection & Cleanup

Mark Dix - Deputy Chief, Emergency Response Division, NOAA (moderator)

Flavio de Andrade - CEO, OceanPact (BR)

Chris Chase - Environmental Systems Manager, InterOcean Systems

Jim Mullen - CEO, Earthwise Sorbents

Ben Reineman - Senior Development Engineer, Scripps Oceanography

3:00 – 3:30pm: Afternoon Networking Break

3:30 – 4:45pm: PANEL 4: Fishing & Netting Gear Alternative Solutions

Dr. Jennifer Brandon - Price Postdoctoral Fellow at Birch Aquarium at Scripps (moderator)

Kortney Opshaug - CEO, Blue Ocean Gear

Aaron Stevenson - CEO, Ashored (CA)

Mike Conroy - President, West Coast Fisheries Consultant

4:45 – 5:00pm: Wrap-up & Moderated Discussion

5:00 – 7:00pm: Hosted Networking Reception

[Marine Debris Solutions Conference](#)

Scripps Institution of Oceanography
8610 Kennel Way, La Jolla, CA 92037

[Scripps Seaside Forum](#)

Parking is extremely limited.

Carpool, rideshare or taxi encouraged



UC San Diego



Agenda

Wednesday, November 7, 2018

The 10th annual **BlueTech Summit & Tech Expo** is a 2-day conference on November 7 & 8 and one of seven events during the 10th annual **BlueTech Week** November 5-9 in San Diego, California. The **Summit** will include a General Session on Wednesday morning and Thursday afternoon, and 5 breakout tracks on Wednesday afternoon and Thursday morning including:

Aquaculture/BioMarine
Offshore Renewable Energy
Robotics/Ports/Shipping

Water/Wastewater Technologies
Blue Economy Workforce Development

GENERAL SESSION

(Pacific Ballroom A & B, Second Level)

7:00 – 8:30am: Registration & Continental Breakfast Among Exhibitors

8:30 – 8:45am: Welcome & Keynote Speaker Introduction

8:45 – 9:30am: KEYNOTE: Portugal's Blue Economy Strategy

Conceição Santos - Head of Strategy, DG Marine Policy (PT)

9:30 – 10:30am: PLENARY PANEL 1: International Leadership in Promoting Sustainability

Craig McLean - Assistant Administrator for Research & Acting Chief Scientist, NOAA (moderator)

Matias Arjona - Secretary, Aquaculture & Fisheries, Baja California (MX) (invited)

Helle Klem - Senior Advisor, Ministry of Foreign Affairs, Norway

Conceição Santos - Head of Strategy, DG Marine Policy (PT)

The Honorable Betty Yee - Controller, State of California

10:30 – 11:00am: Coffee Break Among Exhibitors

11:00 – 12:00pm: PLENARY PANEL 2: Industry Leadership in Promoting Sustainable Development

Charles Goddard - Executive Director, The Economist, World Ocean Initiative (HK) (moderator)

Guillaume Eudeline - Business Development, iXblue (FR)

Donal Gavagan - Director, Strategic Growth & Special Projects, Solar Turbines

Astrid Skarheim Onsum - Head of Offshore Wind, Aker Solutions (NO)

12:00 – 12:20: International Opportunities Panel

Aron Davidson - Senior International Trade Specialist, U.S. Commercial Service (moderator)

Heming Bjorna - Senior Commercial Specialist, U.S. Embassy Oslo (NO)

Ana Vila - Commercial Advisor, U.S. Embassy Lisbon (PT)

Jonathan Heastie - Event Director, Reed Exhibitions (UK)

[BlueTech Summit & Tech Expo](#) (Nov 7-8)

InterContinental Hotel (901 Bayfront Court, downtown San Diego)

\$20 Garage parking with voucher at registration table

Mobile rideshare, or taxi is encouraged



BREAKOUT TRACKS

AQUACULTURE/BIOMARINE (Wednesday PM / Thursday AM)

We are only beginning to understand the value of marine organisms for beneficial human use through aquaculture, algae, biomedicines, biomimicry and the technologies that enable sustainable development of these resources. The Aquaculture/BioMarine breakout track includes six panels that bring together international leaders from academia, industry and government who will focus on collaborative case studies and industry solutions for sustainable development.

OFFSHORE RENEWABLE ENERGY (Wednesday PM / Thursday AM)

The ocean is an inexhaustible source of clean renewable energy including currents, tidal, wave and wind energy, and yet we are not taking full advantage of this resource. The offshore renewable energy breakout track includes six panels that bring together international leaders from academia, industry and government who will focus on collaborative case studies and industry solutions for sustainable development.

ROBOTICS/PORTS/SHIPPING (Thursday AM)

Ocean observation is critical for understanding planetary systems. Shipping is one of the oldest industries in the world, and yet we are just starting to introduce innovative technologies to perform persistent ocean observation, increase efficiency, reduce liabilities and improve the safety and security of the global supply chain. The Robotics/Ports/Shipping breakout track includes three panels, bringing together international leaders to focus on innovative solutions through case studies of collaboration for sustainable development.

WATER & WASTEWATER TECHNOLOGIES (Wednesday PM / Thursday AM)

The Earth has one water cycle and humans need to figure out how to optimize this finite resource for ecological, humanitarian and sustainable development purposes. The Water & Wastewater Technologies breakout track includes six panels bringing together international leaders from academia, industry and government to focus on collaborative case studies and industry solutions for sustainable development.

WORKFORCE DEVELOPMENT (Wednesday PM)

BlueTech as a sector is likely to grow as the world addresses the five basic needs of humanity – food, energy, water, medicine and real estate – that are all intertwined with the Earth’s water cycle. Emerging and existing industries in the Blue Economy require a skilled workforce that understands how to work in harsh environments. For the fourth year, the Workforce Development track brings together international education leaders and industry experts to share best practices to align academia, industry and government efforts to support good paying Blue Jobs.

BREAKOUT SESSIONS

1:15 – 2:15pm

AQUACULTURE/BIOMARINE TRACK: *Algae for Feed and Food*

Dr. Stephen Mayfield - Director, Center for Algal-Biotechnology (moderator)
Miller Tran - Director of Research, Triton Algae Innovations
Dave Hazlebeck - Founder/CEO, Global Algae Innovations
Martin Sabarsky - CEO, Cellana
Dr. José Zertuche - UABC (MX)

OFFSHORE RENEWABLE ENERGY TRACK: *Smart Planning for Offshore Renewable Energy*

Carl Gouldman - Director, U.S. IOOS (moderator)
Douglas Boren - Office of Strategic Resources, Pacific, BOEM
Ezrah Schraven - Business Development Manager, Fugro
Paul Kraeutner - President, Ping (CA)

WATER & WASTEWATER TECHNOLOGIES TRACK: *Desalination*

Randy Truby - R L Truby & Associates (moderator)
Dr. Gil Dhawan - President, Applied Membranes
Kyle Hopkins - Chief Administrative Officer, Oisann Engineering (NO)
Manuel Ruiz de la Rosa - CEO, ECOS Estudios Ambientales y Oceanografía (SP)

WORKFORCE DEVELOPMENT TRACK: *BlueTech Workforce Needs*

Jeff Adkins - Contractor, NOAA (moderator)
Orianna Bretschger - CEO, Aquacycl
Isaac Jones - Marketing Manager, Xylem/Sontek
Courtney Purcell - Human Resources, Teledyne Marine
Sean Newsome - Business Development, DeepTrekker

2:15 – 3:15pm

AQUACULTURE/BIOMARINE TRACK: *Biomedicines*

Dr. Bill Gerwick - Director, Skaggs School of Pharmacy & Pharmaceutical Sciences, Scripps Oceanography (moderator)
Eduardo Esquenazi - Chairman/Founder, Serenas Marine Discovery
Frank Oakes - President, Stellar Biotechnologies

OFFSHORE RENEWABLE ENERGY TRACK: *Projects in the Pipeline*

Jason Busch - Executive Director, Pacific Ocean Energy Trust (moderator)
Kevin Banister - VP Business Development, Principle Power
Ayoze Castro - R&D Portfolio & Project Manager, PLOCAN (SP)
Lorry Wagner - President, Lake Erie Energy Development Corporation

WATER & WASTEWATER TECHNOLOGIES TRACK: *Water & the Circular Economy*

Emilio Vargas - President, Intellecty (moderator)
Dennis Calvert - CEO, BioLargo
Carol Maxwell - CEO, MICROrganic
James Perry - VP Business Development, Utilis

WORKFORCE DEVELOPMENT TRACK: *BlueSTEM Education Best Practices*

Michel Boudrias - Associate Professor, University of San Diego (moderator) "
Sean Anderson - Professor, CSU Channel Islands
Maria Azucena Gutierrez Gonzalez - Oceans Coordinator, Norwegian University of
Science and Technology (NO)
Sarah Mesnick - Ecologist & Science Liaison, NOAA Southwest Fisheries

3:15 – 4:00pm: *Networking Break Among Exhibitors (Pacific Ballroom C & D)*

4:00 – 5:00pm

AQUACULTURE/BIOMARINE TRACK: *Biomimicry*

Dr. Dimitri Deheyn - Researcher, Scripps Institution of Oceanography (moderator)
Douglas Fudge - Researcher, Chapman University
Dr. David Kisailus - Professor, Materials Sciences & Engineering, UC Riverside
Ethan Mann - COO, Sharklet Technologies

OFFSHORE RENEWABLE ENERGY TRACK: *Enabling Technologies for Sustainable Energy*

Josh Wells - CEO, Planck Aerosystems (moderator)
Anthony Baro - Managing Principal, PowerDocks
Jim Bertsch - Marine Program Manager, Solar Turbines
Jorg Heinemann - CEO, Primus Power
Mark Paramor - Director, International Business Development, View Into The Blue (AUS)

WATER & WASTEWATER TECHNOLOGIES TRACK: *Decentralized Water*

Chris Ward - Principal Consultant, Delawarde Inc. (moderator)
Orianna Bretschger - CEO, Aqua cycl
Greg Barbour - Executive Director, NELHA
George Diefenthal - CEO, Neotechaqua
John Webley - CEO, Trevi Systems

Agenda

Thursday, November 8, 2018

GENERAL SESSION

(Pacific Ballroom A & B, Second Level)

7:30 – 8:15am: Registration & Continental Breakfast Among Exhibitors (Pacific Ballroom C & D)

8:15 – 8:30am: Welcome and Keynote Speaker Introduction

Rafael Castellanos - Chairman, Port of San Diego

8:30 – 9:00am: KEYNOTE: NOAA's Blue Economy Strategy

Admiral Tim Gallaudet, Acting Administrator, NOAA

BREAKOUT TRACKS

9:00 – 10:00am

AQUACULTURE/BIOMARINE TRACK: Sustainable Food from the Sea

Diane Windham - Aquaculture Coordinator, California, NOAA (moderator)

Sergio Gamberini - President, Ocean Reef Group

Pedro Manuel - CEO, BitCliq (PT)

Brian Pendleton - Deputy General Manager, Ventura Port District

OFFSHORE RENEWABLE ENERGY TRACK: Offshore Wind Policies in California, U.S. and Europe

Jason Busch - Executive Director, Pacific Ocean Energy Trust (moderator)

Douglas Boren - Office of Strategic Resources, Pacific, BOEM

Karen Douglas - Commissioner, California Energy Commission

Bernhard Friess - Director, Maritime Policy and Blue Economy, DG Mare (EU)

ROBOTICS, PORTS & SHIPPING TRACK: Maritime Robotics & Persistent Ocean Observation

Greg Trauthwein - Editor, Marine Technology Reporter (moderator)

Sean Anderson - Professor, CSU Channel Islands

Carl Commenator - VP Government Relations, Hydronalix

Rustom "Rusty" Jehangir - President, Blue Robotics

Chris Todter - Partner, SubSea Sail

WATER & WASTEWATER TECHNOLOGIES TRACK: Collecting & Analyzing Water Data

Gary Eaton - Chief Business Development Officer, Water Pigeon (confirmed)

David Drake - Chief Enterprise Architect, SmartCover Systems

Jim Rogers - Global Business Manager, Teledyne Marine

Dr. Peter Rogowski - Project Scientist, Scripps Institution of Oceanography

10:00 – 11:00am

AQUACULTURE/BIOMARINE TRACK: Enabling Technologies for Aquaculture

Ann Carpenter - Co-Founder & CEO, Braid Theory (moderator)
Jonsen Carmack - Founder, SeaStatus
Bobby Cofield - Sales & Marketing Director, VIEW INTO THE BLUE
George Diefenthal - CEO, Neotechaqua
Liane Thompson - CEO, Aquaai

OFFSHORE RENEWABLE ENERGY TRACK: Challenges & Opportunities in Offshore Wind

Jason Busch - Executive Director, Pacific Ocean Energy Trust (moderator)
Sarah Friedman - Senior Campaign Representative, Sierra Club
Lee Friedman - Infrastructure Policy Manager, City of San Diego
Tyler Studds - Offshore Wind Development, EDP Renewables

ROBOTICS, PORTS & SHIPPING TRACK: Smart Ports/Smart Shipping

Greg Trauthwein - Editor, Marine Technology Reporter (moderator)
Phil Bourque - Director of Business Development, Sea Machine Robotics
Romain-Vivien Chatain - International Business Development, Gyptis International (FR)
Cosmo King - President, ioCurrents
Rajan Vasudevan - CEO, Ocean Manager

WATER & WASTEWATER TECHNOLOGIES TRACK: Agriculture & Irrigation Technologies

Bryan Stubbs - Executive Director, Cleveland Water Alliance (moderator)
Shella Hamill - CMO, EcoUSA
Isaac Jones - Product Manager, SonTek
Mai Ann Healy - Country Manager, BioFiltro
Patrick Henry - CEO, GroGuru

11:00 – 11:30am: Coffee Break Among Exhibitors (Pacific Ballroom C & D)

11:30 – 12:30pm

AQUACULTURE/BIOMARINE TRACK: Investing in Aquaculture/BioMarine

Diane Windham - Aquaculture Coordinator, California, NOAA (moderator)
Curt Albright - Managing Member, New Crop Capital
Lou Cooperhouse - CEO, BlueNalu
Don Kent - President, Pacific Ocean Aquafarms
John Molina - Founding Partner, Pacific6

OFFSHORE RENEWABLE ENERGY TRACK: Investing in Offshore Renewables

Simon Geerlofs - Water Power Technologies Office, Department of Energy (moderator)
Jonah Margulis - U.S. Manager, Aker Solutions

Joao Metelo - CEO, Principle Power
Lorry Wagner - President, Lake Erie Energy Development Corporation

ROBOTICS, PORTS & SHIPPING TRACK: Maritime Safety & Security

James Espino - President, Gnostech (moderator)
Chris Coyle - Business Dev/Strategic Partnerships, Exocetus Autonomous Systems
Matt Brown - Homeland Security Program Manager, Port of San Diego
Brendan Gray - President, HALO Maritime Defense Systems

WATER & WASTEWATER TECHNOLOGIES TRACK: Investing in Water & Wastewater Technologies

Nicole Neeman-Brady - COO, Renewable Resources Group (moderator)
Joaquin Fernandez-Silva - Emerging Infrastructure Capital Partners
Joe Gatto - Gatto Ventures & Tech Coast Angels
James Golden - Financial Analyst, Poseidon Water
Simon Gore - Environmental Science & Policy Specialist, U.S. Department of Energy

12:30 – 1:45pm: Hosted Lunch Among Exhibitors (Pacific Ballroom C & D)
(Special: Algae-based lunch, in collaboration with Triton Algae Innovations & Executive Chef Paul McCabe)

GENERAL SESSION
(Pacific Ballroom A & B, Second Level)

1:45 – 2:00pm: Welcome & Introduction to the Afternoon

2:00 – 2:30pm: FEATURED SPEAKER: United Nations Sustainable Development Goals

Jamil Ahmad - Director, United Nations Environment Program, New York Office

2:30 – 3:30pm: PLENARY PANEL 3: Understanding and Promoting a Sustainable Blue Economy

Ralph Rayner - Chairman, Sonardyne (UK) (moderator)
Ayeisha Brinson - Deputy Chief Economist, NOAA
Bernhard Friess - Director, Maritime Policy and Blue Economy, DG Mare (EU)
Fred Terral - President, Terrain Collective

3:30 – 4:00pm: Break Among Exhibitors

4:00 – 5:00pm: PLENARY PANEL 4: Financing the Blue Economy

Michael Jones - President, The Maritime Alliance (moderator)
John Evey - Managing Director, Cavandish Impact Capital
Rolando Morillo – VP, Rockefeller & Co.
Nicole Neeman-Brady - COO, Renewable Resources Group
Jan Yoshioka - Director, CI Ventures

5:00 – 7:00pm: Hosted Networking Reception

Exhibitors

Acoubit Communications Inc.

Acoubit specializes in providing customers with the enabling communication technology for the future of subsea connectivity. Our approach is to completely overhaul traditional underwater communications methodologies and advance acoustic communications towards the higher reliability and data rates needed for future underwater networked applications and deployments.

Ashored Innovations

Ashored Innovations is an ocean technology startup based in Halifax, Nova Scotia. Ashored is focused on improving the sustainability of the commercial fishery through the development of purpose-built technologies. Currently, Ashored is addressing issues of marine animal entanglements and derelict fishing gear with its ropeless fishing system (MOBI) and gear tracking system (ATLAS).

BITCLIQ

BITCLIQ is a tech startup that provides fishing and seafood digital transformation. Big Eye -Smart Fishing, a brand new software solution, implements real-time fishing fleet management, seafood digital traceability and trade by applying IoT, Big Data, Satcom, AI and Blockchain technologies.

Blue Robotics

Blue Robotics provides accessible and high-quality marine robotics components to encourage ocean exploration and to inspire ocean stewardship.

City of San Diego

The City leverages public incentives and assistance to promote community revitalization, attract new businesses and encourage investment in local business. The City of San Diego not only assists individual businesses but also helps strengthen business organizations and improve business districts throughout San Diego.

Deep Trekker Inc.

Deep Trekker is building a new breed of ROVs. The DTG2 and DTX2 are small while also extremely rugged, robust and capable, and have been adopted around the world as the go-to underwater observation tools. They are based on clean-sheet, innovative engineering focused on customer needs.

Del Mar Oceanographic

Del Mar Oceanographic produces the Wirewalker, a vertically profiling instrument-package powered by ocean waves. Any internally-recording sensor or group of sensors can be mounted on Wirewalker. Scientists and ocean professionals from Korea, Australia, Chile, France, the UK and US and many other countries are using the Wirewalker to radically transform the information content of their observations.

Exhibitors

Department of Commerce

The Department of Commerce promoted job creation and economic growth by ensuring fair and reciprocal trade, providing the data necessary to support commerce and constitutional democracy, and fostering innovation by setting standards and conducting foundational research and development.

Dept. of Energy Water Power Technologies Office

The mission of the U.S Department of Energy's Office of Energy Efficiency and Renewable Energy is to create and sustain American leadership in the transition to a global, clean energy economy. Its vision is a strong and prosperous America powered by clean, affordable, and secure energy.

Dolprop Industries AB

Dolprop targets to, as closely as possible, mimic the bottlenose dolphin motion pattern that provides phenomenal performance. Bottlenose dolphin weighs 200kg and can, in just a few meters, accelerate from standstill to over 30 knots with a power of less than one horsepower. The technology has a multitude of applications.

Hydronalix

Founded in 2009, Hydronalix has become a recognized leader and international symbol in robotics innovation for beach and flood rescue with our successful patented Emergency Integrated Lifesaving Lanyard (EMILY) product line. Our mission is to provide enhanced value added capabilities to first responders, earth scientists, military, and safety to the maritime industry,

Igloo Innovations Inc.

Igloo is a product development and engineering services group known for our creative approach to new problems. Within the bluetech space, we have considerable experience with vehicles and seafloor systems. Our latest creation, the SeaHawk line of marine-capable UAVs spans from vehicles that can land on water and deploy a payload for inspection and sampling missions to a flying submersible capable of transitioning seamlessly from air to underwater operation... Because a drone should do more than just fly

ION

ION has been a technology leader for 50 years with a strong history of innovation. Leveraging innovative technologies, ION creates value through data capture, analysis and optimization to enhance companies' critical decision making abilities and returns. Ion offerings are focused on improving E&P decision making, enhancing reservoir management and optimizing offshore operations.

iXblue, Inc.

iXBlue is a leading global provider of innovative solutions and services for navigation, positioning, and imaging. Civil and defense customers rely on our systems, operations, and services for the challenges they face at sea, on land, in the air or in space.

Exhibitors

Maritime Museum of San Diego

The Maritime Museum of San Diego enjoys a worldwide reputation for excellence in restoring, maintaining and operating historic vehicles. The museum has one of the world's finest collections of historic ships, including the world's oldest active ship Star of India

MiraCosta Technology Career Institute

MiraCosta College's Technology Career Institute is a comprehensive technology training facility in North San Diego County that opened its doors in March 2015. TCI embraces a hands-on approach to learning with the latest technology in the industry. By providing accelerated, high quality training programs, MiraCosta can accommodate the growing number of students expected to seek job skills.

Notilo Plus

Get more from your ROV!

Save time and switch to automated inspection of your underwater infrastructure or of your sealife monitoring. Seesam is both a compact AUV and a ROV: it can be set on a route and provide real-time video feedback at the surface. It also detects and locates relevant points of interest (fouling, state of coating, relevant underwater species...)

Oceanology International Americas / REED Expo

Oceanology International is the world's leading marine science and ocean technology exhibition and conference. Oi started in the UK and runs every two years. In 2019, we celebrate its 50th anniversary in San Diego for Oi Americas second edition.

Ping DSP Inc.

Ping DSP Inc is the world leader in commercial sonar technology for combined 3D imaging and mapping. The company is well known for inventing and developing the 3DSS sonar and for its excellence in electronics engineering, acoustic transducer arrays, and array signal processing.

Port of San Diego

The Aquaculture and BlueTech program at the Port of San Diego is committed to promoting a sustainable Blue Economy and accelerating its growth in collaboration with regional organizations focused on innovative ocean technologies.

Scripps Institution of Oceanography

Scripps Institution of Oceanography is one of the oldest, largest and more important centers for ocean, earth and atmospheric science research, education and public service in the world.

Sea Machines Robotics

Sea Machines Robotics is a forward-looking, autonomous technology company that specializes in advanced control technology for workboats and other commercial surface vessels. Based in Boston and operating globally, the company is driven by a crew of mariners, engineers, coders and autonomy scientists.

Exhibitors

Seaport San Diego

Seaport San Diego is a thoughtful and creative reimagining of one of the most important pieces of real estate on San Diego's waterfront. It is being designed to provide valuable community resources and world-class amenities and attractions for residents and visitors.

Sedna Technologies

Sedna Technologies has developed a suite of products and services that save everyone in the seafood supply chain time and money. The Sedna Ecosystem is a state of the art system which tracks, traces and monitors your seafood products from sea to plate.

SubSeaSail

SubSeaSail has created a unique, patented, 100% energy scavenging, long-duration, semi-submersible maritime platform. The hull and keel are submerged under water with a wind-catching assembly above water. The goal is to "change the math" with a platform design that is low cost to build and operate, scalable, and highly adaptable to mission that can address needs in academia, government, industry, and military

Swift Engineering, Inc

Swift Engineering provides vertically integrated, multi-disciplined, product development services including design, development, engineering, testing and rapid manufacturing of prototypes, demonstrators and pre-production articles. Swift specializes in vehicles and advanced composites and provides customized solutions for clean sheet vehicle design, major assemblies, to individual components.

Tecnadyne

Tecnadyne's primary business focus is remotely operated vehicle (ROV) and autonomous underwater vehicles (AUV) research and development, which has led to our emergence as a worldwide leader in underwater propulsion, motion control and related technologies.

Teledyne Marine

Beginning as a small collection of unique marine solution providers and expanding to a powerhouse of highly engineered, high performance solutions for a broad range of markets, Teledyne Marine now offers the largest breadth of marine technology in the industry.

View Into the Blue

View Into the Blue sets new standards in remote monitoring. With patented CleanSweep technologies, View Into the Blue enables efficient monitoring by eliminating repetitive maintenance and down time. View Into the Blue's incorporation of visual, audio and sensors allows for easy data acquisitions and analysis. Understanding environmental variables has never been simpler.

Wednesday, November 7, 2018

THE MARITIME ALLIANCE 10th ANNUAL BLUETECH WEEK

The 10th Annual BLUETECH Gala AWARDS

Alliance Building Award:	County of San Diego
BlueTech Incubator Award:	City of San Diego
BlueTech Community Leadership Award:	U.S. Integrated Ocean Observing System
Educational Outreach Award:	Maritime Museum of San Diego
Environmental Leadership Award:	Aker Solutions & Principle Power
International BlueTech Partner:	Ensenada Economic Development Corporation
Marine Science Teaching Award:	Sean Anderson Ph.D., CSU Channel Islands
Robert & Laura Kyle Chair in Maritime History Award:	Dr. Tim Runyan
Sustainable Seafood Award:	InterContinental Hotel & Triton Algae
TMA Cluster Supporter of the Year Award:	Rick Hotz, Considine & Considine

AGENDA

5:15pm – 6:30pm: Hosted networking reception
6:30pm: Seated dinner
7:00pm: Brief welcome remarks
7:45pm – 8:15pm: KEYNOTE Remarks
8:15pm – 9:00pm: Awards Ceremony
9:00 – 9:15pm: Networking
9:15pm: Dinner ends

KEYNOTE SPEAKER

DR. DIMITRI DEHEYN earned his Ph.D. on fundamental and applied aspects of bioluminescence in 1998, from the Free Thinking University of Brussels (ULB), Belgium. In 1999, he moved to Scripps Institution of Oceanography where he is an Associate Research Scientist. He will discuss new technologies and industries that can develop for ocean biomimicry.

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We proudly support BlueTech Week, The Maritime Alliance and its BlueTech Incubator by funding programs that foster San Diego's leadership in maritime business and technological innovation.

www.sandiego.gov/economic-development

Photo courtesy Ocean Discovery Institute



Supervisor Greg Cox

Congratulations to The Maritime Alliance on the 10th Annual BlueTech Summit & Tech Expo!





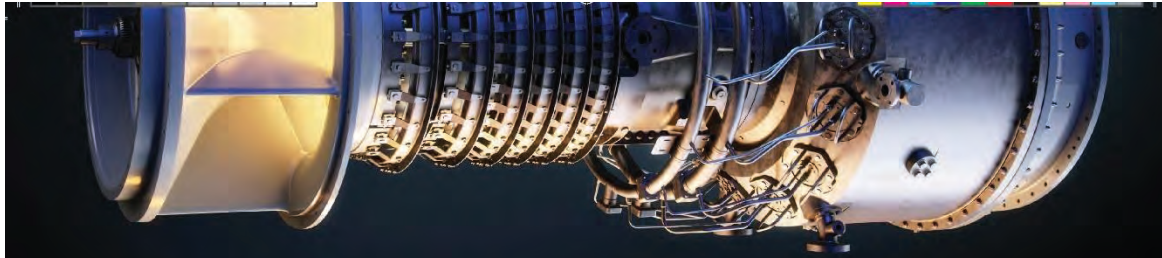
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The Maritime Alliance & BlueTech Week

The Port of San Diego is committed to promoting a sustainable Blue Economy and accelerating its growth in collaboration with regional organizations focused on innovative ocean technologies.

Learn more about our Aquaculture
& BlueTech business incubator
opportunities at

portofsandiego.org



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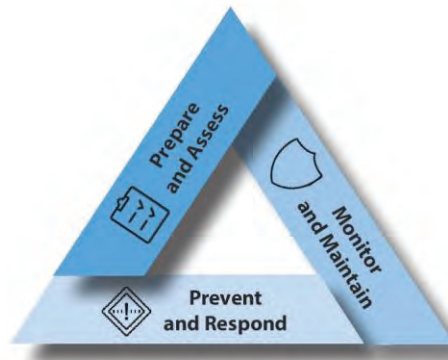
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SAVE THE DATES!!

- Oceanology International Americas** – Feb. 25-27, 2019 – San Diego, CA (TMA BlueTech Pavilion)
- Ocean Business** – April 9-11, 2019 – Southampton, UK (TMA BlueTech Pavilion)
- Nor-Shipping** – June 4-7, 2019 – Oslo, Norway (possible TMA BlueTech Pavilion)
- 11th annual BlueTech Week** - Nov. 18-22, 2019 – San Diego, CA (TMA event)



U.S. Maritime Technology Export Initiative

Applications due November 30th for the following programs in 2019:



The Maritime Alliance, in collaboration with the International Trade Administration, part of the U.S. Department of Commerce, is accepting applications from U.S. BlueTech companies to exhibit in the **TMA BlueTech** pavilion at Oceanology International Americas in San Diego and/or join us in Southampton for Ocean Business 2019, or (possible) Nor-Shipping June 4-7, 2019. Selected companies will benefit from ~50% reduced rates for exhibiting and lodging, b2b meetings and networking.

Up to 16 companies for each trade show will be selected and announced in December 2018. For more information, please visit www.bluetechexports.org

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