



Oceans in Change focuses on the importance of research and knowledge as well as responsible communication of topics related to the Oceans. Our Speakers will talk about the importance of how to bring facts to the spotlight and raise empathy for Ocean Issues. Furthermore, they will consider the significance of research based development and investment.

PLENARY SESSION MONDAY 6: Oceans In Change			
	Chair, Moderator: Ingrid Schjølberg, Director NTNU Oceans.		
Nancy Bazilchuk, Scientific Journalist, Communication Division			
Time	Speaker	Topic	
09:30	Oceans' Jazz – Trondheim Jazz	Festival – TBC	
10:00	Francesca Thyssen-Bornemisza - Founder and Chair	"Sounds Too Many",	
	of Thyssen-Bornemisza Art Contemporary (TBA21)	performative lecture	
10:20	Vidar Helgesen - Norway's Special Envoy to the	TBA	
	High-level Panel on Building a Sustainable Ocean		
	Economy.		
10:35	Iselin Nybø - Norwegian Minister for Science and	TBA	
	Higher Education		
10:50	Thierry Béchet - EU Ambassador & Head of the EU	TBA	
	Delegation to Norway		
11:00-		Ocean Talks:	
11:30	Panel Discussions on Communication of Ocean research/facts.		
	How to bring facts to the spotlight and raise empathy/awareness for Ocean Issues?		
	Chair Moderator: Ingrid Schjølberg – Director NTNU Oceans		
44.20	Nybø; Thyssen-Bornemisza; Helgesen; Thierry Béchet	TD.4	
11:30	TBA	TBA	
11:40	Jarl Frijs-Madsen - Danish ambassador to Norway	TBA	
11:50	Liv-Sissel Hagemann Hammer - Senior Vice	TBA	
	President DnB NOR Bank ASA		
12:00-	Ocean Talks:		
12:30	Panel Discussions on Investment decisions, the impor		
	the role of Research, Technology & Art for a healthy Ocean		
	Chain Mandanatan, In anid Cabidle and Dinastan NITNII (2	
	Chair Moderator: Ingrid Schjølberg – Director NTNU Oceans		
	Berhard Friess (Director MARE EU Commission); Markus Reymann (Director TBA21– Academy); Toril A. N. Hernes (NTNU, Pro-Rector Innovation); Frijs-Madsen; H. Hami		
12:30 -			
13:30 -	LUNCH at the Radisson Blu Royal Garden		
13.30			

ART & Oceans – VIP Lunch and Art Exhibit Opening	
Florian Schneider - KIT at Radisson Blu Oasis Space	



MONDAY May 6 – AFTERNOON PARALLEL SESSIONS

- 1. Technology and New Solutions in our Oceans
- 2. Other Voices, Other Stories
- 3. Exploring the Poles Research to Action

Technology and new solutions in our Oceans focuses on the positive and necessary application of research based new technology for a sustainable interaction with our Oceans. Our speakers will present new research and innovation opportunities. Discussion will unfold under the concept of responsible technological development.

PARALLEL SESSION MONDAY 6: Technology and New Solutions in our Oceans		
Moderator: Ingrid Schjølberg, Director NTNU Oceans		
Time	Speaker	Topic
13:30	Bernhard Friess - Director, Directorate- General for Maritime Affairs and Fisheries, European Commission	ТВА
13:45	Vegar Johansen - CEO SINTEF Oceans	Innovative solutions based on reliable science, a sustainable business
14:00	Olav Bolland - Dean of the Faculty of Engineering at the Norwegian University of Science and Technology, NTNU	Is technology a positive driver of sustainability
14:15	Elisabeth Maråk Støle - Director NORCE Norwegian Research Centre AS	Presentation of a project
14:30	Tonje Eskeland Foss - Regional Director, North, ATEA	Machine learning in aquaculture an innovative solution to fish health
14:45	Oceans Talks – Trondheim Ocean Space Center: Friess; Johansen; Bolland; Støle; Foss;	
15:05 – 15:35		
15:35	Ståle Emil Johansen, NTNU Dept. of Geoscience and Petroleum	How electromagnetic detection of mineral resources provides a sustainable solution to exploration
15:50	PhD Pitch Session – TBA /// One from Ingrid two DSM – Bent Haugaløkken – DSM: TBA	ТВА
16:05	Steffan Lindsø, Director of Emerging Technology, Oceaneering Europe	New autonomous systems for subsea inspection
16:20	Asgeir J. Sørensen, NTNU AMOS	TBA
16:35	SINTEF TBA	TBA
16:45 – 17:00	Oceans Talks: TBA	

PROGRAM MONDAY MAY 6 - TRONDHEIM



Other Voices, Other Stories: The Ocean nourishes and sustains not only human life, but all life on Earth. We have devised innumerable practices that treat the ocean as a resource. But what can we do to nourish and sustain the ocean in return? How have human societies constructed and represented their relationship to the ocean through the stories we tell about it? How do ocean narratives help us to understand the relationship between our ocean stories and the environmental challenges we now face: climate change, pollution, extinctions, sea level rise, environmental justice, food insecurity, and more? How do the humanities provide new approaches to interpretations, representations, imagination and new understandings of ocean narratives?

This session is organized by HAVANSVAR Humanities Ocean Initiative – an NTNU Oceans Pilot on Ethical, Social and Cultural aspects of Ocean Research and Innovation. HAVANSVAR is a research programme addressing ethical, cultural, communicative, narrative and historic dimensions of the ocean.

	PARALLEL SESSION MONDAY 6: Other Voices,	Other Stories	
Moderator: Siri G. Carson, NTNU leader of HAVANSVAR Humanities Ocean Initiative			
Time	Speaker Topic		
13:30	Ursula Munster, Director Environmental	Blue Humanities	
	Humanities School at UiO		
13:45	Martin Lee Mueller, Associate Professor, Rudolf	Being Salmon, Being Human	
	Steiner University Colleague		
14:00	Anne Trine Kjørholt, NTNU/ Norwegian Centre	"The Sea, the boat and the fish".	
	for Child Research	Coastal Childhood work and	
		Knowledge in Transition	
14:15	Markus Reymann – TBA21 Academy - TBC	TBA	
14:30	Toril A. N. Hernes - NTNU, Pro-Rector Innovation	TBA	
	- TBC		
14:45	Ocean Talks: what can we do to nourish and sustain the ocean?		
	Innovation in Humanities for a healthy Ocean		
	Munster; Lee Mueller; Kjørholt; Reymann; Hernes		
15:05 – 15:35	BREAK		
15:35	Hanna Musiol, NTNU Dept. of Language and	On art, technology and the ocean	
	Literature		
15:50	Julia Leyda, NTNU, Dept. of Art and Media	On representations of the ocean	
	Studies	in tv series	
16:05	Dag Elgesem, Institutt for informasjons- og	TBA	
	medievitenskap		
16:20	PhD pitch session – TBA TBA		
16:45 – 17:00	16:45 – 17:00 Oceans Talks: Storytelling, Science Fiction,		

PROGRAM MONDAY MAY 6-TRONDHEIM



Exploring the Poles – Research to Action focuses on the great significance of the Arctic and Antarctic both for observation of climate change and for its impact on the overall Ocean Health. The Speakers will paint a clear picture of the effects of climate change and the actions imperative to reduce human impact in these fragile areas.

PARALLEL SESSION MONDAY 6: Exploring the Poles – Research to Action		
Moderator: Julia Farkas, SINTEF Ocean & Geir W. Gabrielsen NPI		
Time	Speaker	Topic
13:30	Geir W. Gabrielsen, Head Environmental	Microplastics in the Arctic
	pollution section, Norwegian Polar	
	Institute	
13:45	Susan Eaton SEDNA EPIC EXPEDITION,	Opening of the Arctic sea ice Navigating
	Expedition Founder	the High Arctic
14:00	Ingrid Ellingsen, Environment and New	Polar ocean circulation
	Resources SINTEF Ocean	
14:15	Chantel Nixon NTNU, Dept. of Geography	Gas hydrates in the Barents Sea
14:30	Emlyn Davis, Environment and New	Monitoring the Arctic
	Resources SINTEF Ocean	
14:45	PhD pitch session – TBA	TBA
15:05 – 15:35	BREAK	
15:35	Liv-Guri Faksness, Environment and New	Oil spills the Arctic -are we prepared
	Resources SINTEF Ocean	
15:50	Arthur Mason, NTNU Dept. of Social	New Arctic: Expressions of Neoliberal
	Anthropology	Interest in the Wake of Exxon Valdez Oil
		Spill
16:05	Hurtigruten - TBC	TBA
16:20	Ida Øverjordet, Environment and New	Pollution - Fat matters
	Resources SINTEF Ocean	
16:30	Bjørn Munro Jensen NTNU, Dept. Biology	Pollutant trends in the Arctic
16:45 – 17:15	Oceans Talks: Gabrielsen, Irina Rogozhina, Ramon Larremendi	

After Sessions Reception and Mingling with Trondheim Jazzfestival	
Radisson Blu Royal Garden Ocean Week Launch Area	



Policies and Other Initiatives for a Fragile Living Ocean focuses on the efforts that Industry, Institutions and research make to preserve our fragile Oceans and the knowledge that we need for a better decision-making process for all Ocean related activities.

PLENA	RY SESSION TUESDAY 7: Policies and Other I	nitiatives for a Fragile Living Ocean	
	Session Chair: Ingrid Schjølberg, Dir	ector NTNU Oceans.	
	Nancy Bazilchuk, Scientific Journalist, C	Communication Division	
Time	Speaker	Topic	
		– Teaser of the Performance	
09:30	Alan Simcock, Joint Coordinator at UN	World Ocean Assessment	
	Group of Experts of the Regular Process		
	(World Ocean Assessment)		
09:45	Harald Solberg, CEO Norwegian Ship-	Sustainable Shipping	
	owners Association		
10:00	Bjørn Haugland, Executive Vice President	Industry Collaboration toward	
	and the Chief Sustainability Officer DNV	sustainability	
	GL/// administrerende direktør i		
	Næringslivsalliansen		
10:15	Iwona Woicka-Żuławska, Ambassador of	TBA	
	the Republic of Poland		
10:30	Richard Thompson, Director of the	Microplastics	
10:45-11:05	Marine Institute - University of Plymouth Ocean Talks:		
	Panel Discussions on Actions for a Sustainable Ocean Simcock; Solberg; Thompson; Haugland; Woicka-Żuławska		
11:05-11:10	TBA		
11:10	Ingrid Schjølberg, Director NTNU Oceans	Technology for Sustainability	
11:20	TBA	TBA	
11:30	Ramón Larramendi; Project Leader Inuit	Inuit Windsled Antarctica, a project for	
	Windsled Antarctica expedition	the Scientific Research of the Poles	
11:45	Jan-Gunnar Winther, Director Norwegian	Foresight study by Centre for Ocean and	
	Centre for the Ocean and the Arctic,	Arctic	
	NOFIMA & Specialist Director at the		
	Norwegian Polar Institute		
11:55	Anna Mária Sikó, Ambassador of	TBA	
	Hungary		
12:00	TBA TBA		
12:15-12:35	Ocean Talks		
	Larremendi; Winther; Sikó		
	Sturla Henriksen - UN Global Action Platform for Sustainable Ocean Business;		
	Andreea Strachinescu, Head of Unit New Energy Technologies and Innovation in the		
	Directorate General for Energy, European Commission;		
12:35	LUNCH		

PROGRAM TUESDAY MAY 7 - TRONDHEIM



- 1. Coastal Engineering Crossing Over
- 2. New Biomarine Value Chains Based on Resources Low in the Food Chain
- 3. Green Energy Impacts on a Blue Ocean

Coastal Engineering Crossing Over focuses on innovation linked to coastal development and the use of coastal resources.

PARALLEL SESSION TUESDAY 7: Coastal Engineering Crossing Over Moderator: Hans Bihs		
Time	Speaker	Topic
13:30	Athul Sasikumar, Norconsult	New Design and Modeling Approaches in Coastal Engineering
13:45	Bruno Sainte-Rose, Lead Computational Modeler at The Ocean Cleanup	The Ocean Cleanup
14:00	Kjersti Bruserud, Management assistant/advisor to Chief Technology Officer (CTO) Equinor	ТВА
14:15	Nils Goseberg, TU Braunschweig/GWK	The Future of Experiments in Coastal Engineering
14:30	Arun Kamath, NTNU Trondheim	Cutting-edge aquaculture structure hydrodynamics - from research to teaching
14:45	Csaba Pakozdi, Sintef Ocean	Building Next-Generation Computational Marine Hydrodynamics Software
15:05 – 15:35	Break	
15:35	Claes Eskilsson Ålborg University/RISE Gøteborg	Ocean Wave Energy
15:50	Raed Lubbad, NTNU Trondheim	Arctic Coastal Engineering
16:05	Marit Reiso, Fedem	TBA
16:20	PhD pitch session: Tobias Martin, Weizhi Wang	ТВА
16:30-17:00	Ocean Talks	





New Bio Marine Value Chains Based on Resources Low in the Food addresses the potential for establishing new bio marine value chains through exploitation of low-trophic species from the oceans. Solutions on how to develop circular bio economy and produce more food, feed and materials for a growing population will be presented.

PARALLEL SESSION TUESDAY 7:		
New Biomarine Value Chains Based on Resources Low in the Food Chain		
	Moderator: Berit Løkensgard Strand, NTNU;	Aleksander Handå, SINTEF
Time	Speaker	Торіс
13:30	TBA	New Vision from the region
13:45	Andreas Hagemann, SINTEF Ocean Dept.	Norwegian plankton technology center;
	of Environment and New Resources	New species in aquaculture
14:00	Marealis TBC	Peptides from shrimp shell
14:15	Kurt Tande, Calanus TBC	Harvesting and use of Calanus
14:30	Stein Kaartvedt, UiO TBC	Stock estimation of mesopelagic fish
14:45	Hanne Digre, SINTEF Ocean Dept. of	Project Results & SFI Harvest
	Seafood Technology	
15:05 – 15:35	Break	
15:35	Terje Finstad, NTNU Dept. of	Seaweed as horizon resource in blue
	Interdisciplinary Studies of Culture	imaginaries, Norway 1950s to 2000s?
15:50	Aleksander Handå, SINTEF Ocean Dept.	MACROSEA – A knowledge platform for
	of Environment and New Resources	industrial macroalgae cultivation
16:05	Finn Aachmann NTNU Dept. of	Norwegian seaweed processing platform
	Biotechnology	
16:20	Bioprospecting - TBC	TBA
16:30	PhD pitch session: TBA	TBA
16:45 – 17:00	Ocean Talks	

PROGRAM TUESDAY MAY 7 - TRONDHEIM



Green Energy Impacts on a Blue Ocean focus what will the development of green energy sources and new technologies will mean in terms of the impact that these could have in our Oceans and the development of the blue economy. Our speakers will present the latest developments in energy technology and initiatives for international collaboration.

	PARALLEL SESSION TUESDAY 7: Green Energy Impacts on a Blue Ocean		
Time	Speaker	Topic	
13:30	Johan Einar Hustad, NTNU Director TSO Energy	NTNU's research efforts on renewable energy	
13:40	Andreea Strachinescu, Head of Unit New Energy Technologies and Innovation in the Directorate General for Energy, European Commission	EU as a driver to Advances in New Energy Technologies	
13:55	Karl Eirik Schjøtt-Pedersen CEO The Norwegian Oil and Gas Association		
14:10	Tor Eldervik, University of Bergen, Geophysical Institute	Energy-Climate Balance, finding the right formula.	
14:25	TBA	TBA	
14:40	Nils Anders Røkke, Executive Vice President Sustainability - SINTEF TBC	ТВА	
14:55	PhD pitch session: Erick Fernando Alves Atousa Elahidoost/Abel A. Taffese	Wind turbines in O&G platforms Offshore electrical grids TBA	
15:10 – 15:35	BREAK		
15:35	Trond Strømgren, Subsea Innovator at GCE Ocean Technology	ТВА	
15:50	Hege Brende, Centre Director in FME HydroCenter TBC	ТВА	
16:05	Elisabetta Tedeschi, NTNU Dept. of Electric Power Engineering	Energy Grids, future of the energy distribution in Europe	
16:20	TBA TBA		
16:30	TBA	TBA	
16:45 – 17:00	Ocean Talks		



WEDNESDAY May 8 - ALL DAY PARALLEL SESSIONS

- 1. Life Cycle Thinking in Deep-Sea mining
- 2. Aquaculture in Society How to Match the UN SDGs?
- 3. Ocean Health
- 4. Autonomous Ships

Life Cycle Thinking in Deep-Sea mining focuses on the interrelationship between deep-sea mining and sustainability. Our speakers will try to answer question as: Can deep-sea resources contribute to sustainable development, and how do we make deep-sea mining sustainable? How life cycle thinking can contribute to sustainable deep-sea mining? Generally applied in support of technology development and environmental management, life cycle thinking also forms the basis for environmental legislation in Europe and Norway.

Deep-sea mining in Norwegian and international waters will occur in harsh conditions, where Arctic marine operations and offshore oil and gas provide highly relevant experience. Our speakers bring together experience in life cycle thinking in legislation as well as offshore and mining industries.

PARALLEL SESSION WEDNESDAY 8: Life Cycle Thinking in Deep-Sea mining			
Time	Speaker	Topic	
08:45			
09:00	Steinar Løve Ellefmo, NTNU	What is Sustainable Development? Introduction to	
		SDGs and sustainability	
	Can deep-sea resources cont	ribute to sustainable development?	
09:15	Johan Berg Pettersen, NTNU	The role of metals for transition to sustainable society	
09:30	Daniel Müller, NTNU	Circular Economy - Metals in society, stocks and flows	
09:45	ТВС	The resource potential of deep sea mining	
10:00	TBA	The ethics of deep sea mining??	
10:15	Coffee Break		
10:45	TBA	TBA	
11:00	Paul Midford, NTNU Dept. of	Technological drives & Maritime conflict – codes of	
	Sociology and Political Science	conduct. Mitigation of maritime conflicts for	
		sustainability	
11:15	PhD pitching session: TBA	TBA	
11:30	Ocean Talks: How do we make the deep-sea mining value-chain sustainable?		
12:00	LUNCH		
	What is a sustainable deep-sea mining value-chain?		
13:00	TBA	Impacts of mining – experience from LCA	
13:15	TBA	Impacts of offshore oil & gas operations – experience	
		from LCA	
13:30	TBA	What is the deep-sea mining value-chain and the life	
		cycle environmental impacts; subsea, offshore, logistics	
		and onshore	

PROGRAM WEDNESDAY MAY 8 - TRONDHEIM



13:45	TBA	ТВА
14:00	TBA	ТВА
14:15	PhD pitching session: TBA	ТВА
14:30	Ocean Talks: Can deep-sea resources contribute to sustainable development?	
15:00	Coffee Break	
Current research and research gaps in DSM		
15:30	PhD pitching session: TBA	ТВА
15:45	TBA	ТВА
16:00	TBA	ТВА
16:15	Ocean Talks: what are current knowledge gaps	

Aquaculture in Society – How to Match the UN SDGs? Aquaculture plays an important role in mane of the SDGs defined by the UN. During this session we will look at the interactions between research and industry, the impact of knowledge and technology development in the aquaculture industry and its focus on 5 SDGs.

Time	Speaker		Topic
08:45	·		·
GOAL 2: En	d hunger, achieve food security and i	mproved nutriti	on and promote sustainable agriculture
	GOAL 3: Ensure healthy lives an	d promote well	-being for all at all ages
09:00	Ragnar Tveteraas, University of	Aquaculture as	s an active contributor to reaching the UN
	Stavanger (UiS)	SDGs	
	GOAL 9: Build resilient infr	astructure, pror	note inclusive and
	sustainable industrial	ization and fost	er innovation
09:30	Hans Bjelland, Seafood	TBA	
	Technology SINTEF Ocean		
09:45	Eivind Dale, DNV-GL	TBA	
10:00	Martin Føre, NTNU AMOS	TBA	
10:15	Coffee Break		
10:45	Rune Vilhelmsen, Business	Communication	n in Aquaculture
	Manager Smart Aquaculture at		
	Telenor TBA		
11:00	Maria Bergvik, Planktonic	Innovative fee	d solutions in a global market
11:15	PhD pitching session: Tobias	TBA	
	Slette, Tale Skrove, Kristbjörg		
	Jónsdóttir		
11:30	Ocean Talks, Moderator Alexan	dra Neyts -	
12:00	LUNCH	LUNCH	

PROGRAM WEDNESDAY MAY 8 - TRONDHEIM



13:00	Anette Grøttland Zimowski,	Brand building and mythbusting – communicating
	Norwegian Seafood Council	sustainable Norwegian aquaculture across the world
13:15	Helen Ann Hamilton, NTNU	Aquaculture's footprint: research tools and methods –
	Dept. of Energy & Process	globally
	Engineering	
13:30	Harald Sveier, Manager at	World's best protein producer from a sustainability
	Lerøy Ocean Harvest	perspective
13:45	Sepideh Jafarzadeh, SINTEF	The environmental footprint of seafood production
	Ocean	
14:00	PhD pitching session: Vilde	TBA
	Steiro Amundsen, Inka	
	Seekamp, Siv Anina Etter	
14:15	Ocean Talks - Moderator Kjell Inge Reitan -	
14:35	Coffee Break	
GOA	L 11: Make cities and human settle	ments inclusive, safe, resilient and sustainable
15:00	Svein Johan Frisvol, Research	TBA
	Manager Ruralis	
15:15	Bente Malmo, BDO – TBC	TBA
15:30	Student Innovation pitching	TBA
	session: TBA	
15:45	Morten Volden, Rådmann	TBA
	Trondheim Municipality	
16:05	Close and Walk to the ferry and bus to Sistranda Frøya	

ADDITIONAL PROGRAM AQUACULTURE FRØYA – Evening May 8 - May 9			
Program	Program Content		
1	19:30 - Dinner at the hotel in Frøya, Sistranda – Mingling		
2	Boat trip to Aquaculture Site and Ocean Farming - Visit to Innomar and Nutrimar (TBC) -		
	Afternoon return to Trondheim		

PROGRAM WEDNESDAY MAY 8 - TRONDHEIM



Ocean Health focuses on the changes faced by our Oceans due to climate change. How could humans reach a better understanding on how to interact with the Oceans without leaving a negative environmental print? Can we help restore the Ocean health? What steps should we take the coming years and how can research help.

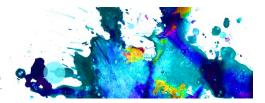
	PARALLEL SESSIC	ON WEDNESDAY 8: Ocean Health	
Time	Speaker	Topic	
08:45			
09:00	Mimmi Throne-Holst, SINTEF	Introduction	
	Ocean		
09:15	Nina Jensen CEO RevOcean	Ocean Health – Challenges and Solutions	
Climate change and ocean health			
09:45	Helene Muri, NTNU Industrial	The IPCC 1,5C Report: How will climate change influence ocean	
	Ecology Programme. Dept. of	health?	
	Energy and Process Engineering		
10:00	TBA	TBA	
10:15	Coffee Break		
Legacy contaminants			
10:45	Murat van Ardelan, NTNU TBC	Climate Change and Release of Heavy Metals	
11:00	Marianne Olsen, Senior Research	Legacy mercury contaminated seabeds: should we take	
	Scientist NIVA Norwegian	remediation action or not?	
	Institute for Water research		
11:15	Alexandros Asimakopoulos, NTNU	Legacy POP's: A Cocktail Challenge	
	Department of Chemistry		
11:30	PhD pitching session: TBA	ТВА	
11:45	Ocean Talks - Q&A session with the	speakers and teaser for to the next topic	
12:00	Lunch		
	Pl	astic in the ocean	
13:00	Kristine Berg, Circular Economy	eXXpedition: Sailing Through the North Pacific Gyre	
	Advisor, TOMRA Collection		
	Solutions		
13:15	Martin Wagner, NTNU	Risk to all or non - on the impacts of plastic pollution on the	
		environment and societies	
13:30	Andy Booth , SINTEF Ocean	Microfibre: How dangerous are your clothes to the ocean?	
13:45	Erlend Standal, SALT	Fishing for Litter	
14:00	Susie Jahren, SINTEF Industry,	How do we solve our plastic problem?	
	Materials and Nanotechnology		
14:15	Ocean Talks - Q&A session with the	speakers and teaser for to the next topic Ocean Talks	
14:30	Coffee Break		



15:00	Lisbet Sørensen, SINTEF	Plastics in the environment - a sink, source or vector for emerging pollutants
15:15	TBA	ТВА
15:30	TBA TBA	
15:45/16	Ocean Talks - Q&A session with the speakers and Concluding remarks	

Autonomous Ships focuses on the challenges of research and the innovation of new concepts and methods which will enable the development of autonomous methods of transport for people in urban water channels. This technology can be transformative both technologically, societally and in terms of new business opportunities.

PARALLEL SESSION WEDNESDAY 8: Autonomous Ships			
Time	Speaker	Topic	
08:30			
09:00	Morten Breivik, NTNU, Dept. of Engineering Cybernetics	Intro	
09:20	TBA	Key Note	
09:50	NTNU Cybernetics, TBA	Autosea	
10:10	Coffee Break	Autoscu	
10:45	Thomas Porathe, NTNU Dept. of Design	HMI + Shore control center	
11:05	Patrick Waldermar, Research Leader Technology, Telenor	Communication 5G/cyber security, Logistic	
11:25	Roy Nilsen, NTNU Dept. of Electric Power Engineering	Electric power systems	
11:45	Øyvind Smogeli DNV GL, Digital Assurance program	Assurance technology. Emerging Digital Technologies and Cyber-Physical Systems in Autonomous Applications	
12:05	Lunch		
13:00	Nils Haktor Bua, Norwegian Maritime Authority	Regulations	
13:20	TBA	ТВА	
13:40	Master/PhD students pitching - Bjørn-Olav Holtung Eriksen Erik Wilthil - NTNU Cybernetics	TBA	
14:00	TBA	TBA	
14:20	Erlend Solem, Trøndelag county council	Innovative maritime transportation solutions	
14:40	Coffee Break		
15:00	TBA	TBA	
15:20	Beate Kvamstad Lervold, SINTEF Ocean	E39 and autonomous ferries	
15:40	Daniela Rus (MiT), Roboat Amsterdam	Roboat Amsterdam	
16:00	NCE Maritime Cleantech	Urban Water Shuttle	



OCEAN WEEK 2019 - Ålesund - THURSDAY May 9

LOCATION: Campus Ålesund, different locations depending on the Session:

• Our Blue Vision

Location: Norsk Maritimt Kompetansesenter, Borgundveien 340, 6009 in Ålesund

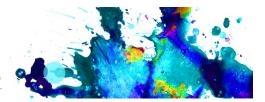
• Blue Proteins: Towards a sustainable use of marine resources Location: Naftadjupet Auditorium, NTNU Campus in Ålesund

• Safe, clean and efficient exploration of ocean resources, through low emission solutions and advanced simulation technologies

Location: Brosundet Auditorium, NTNU Campus in Ålesund

Our Blue Vision

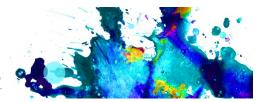
	PLENARY SESSION MONDAY 9: Our Blue Vision		
Conference Chair, Moderator: Annik Magerholm Fet			
Time	Speaker	Topic	
08:30	Registra	ation	
09:30	Annik Magerholm Fet, Vice-Rector NTNU in	Welcome at NTNU Ålesund – Ocean	
	Ålesund	Week 2019	
09:40	State Secretary for Climate and the	Opportunities in a Sustainable Ocean	
	Environment: Sveinung Rotevatn	Economy	
10:00	Ingrid Schjølberg, Vice-Dean Research NTNU	NTNU Oceans – Oceans Research	
	Engineering Faculty, Director NTNU Oceans		
10:10	Bergljot Landstad, Regional og næringssjef	Importance of Ocean Week for the	
		region Møre and Romsdal	
10:25	Kongsberg Maritime - TBA	Can Technology Save the Ocean?	
10:40	Birgit Liodden, Director of Sustainability,	TBA	
	Ocean Industries & Communication		
10:55	Dina Aspen, NTNU Dept. of Industrial	Decision-Support for Sustainable Oceans	
	Economics and Technology Management		
11:10	Ocean Talks: Ocean sustainability, what does it mean for energy and food?		
	Rotevatnm, Fet, Schjølberg, Landstad, Liodden, Aspen		
11:30	LUNCH Cultural Performance from Sunmøre		



AFTERNOON PARALLEL SESSIONS

Blue Proteins: Towards a sustainable use of marine resources

	PARALLEL SESSION THURSDAY MAY 9		
	Blue Proteins: Towards a sustainable use of marine resources		
Bros	Brosundet Naftadjupet Auditorium NTNU Ålesund - Moderator: Ann-Kristin Tveten		
Time	Speaker	Topic	
12:30	Ann-Kristin Tveten, Research Coordinator	Introduction and Welcome	
	Institute for Biological Sciences		
12:40	Ana Carvajal – Sintef Ocean	Overview of research in the area of blue	
		Proteins	
13:10	IPFF Christophe Derrien TBC	New innovative protein sources	
13:35	Grete Hansen Aas, NTNU	From residual material to human	
		consumption	
13:50	Miroslava Atanasova, Møreforsking	New species, new markets	
14:10	Inge Bruheim, Rimfrost	Krill as a source of marine protein	
14:25	BREA	4 <i>K</i>	
14:55	Ola Ween, Møreforsking	Latest development in fishmeal	
15:10	Margrethe Lundevold Norland, Plarva	Plastic-eating larvae	
	Solution		
15:25	PhD Pitch Session: Kristine Kvangarsnes,		
	NTNU		
15:35	Oceans Talks – Wrap-up		
16:10h-19h	Activities in common Tour around simulato	rs, Food, Pitch session for student	
	companies etc.		



Safe, clean and efficient exploration of ocean resources, through low emission solutions and advanced simulation technologies

PARALLEL SESSION THURSDAY MAY 9 Safe, clean and efficient exploration of ocean resources, through low emission solutions and			
Sarc, cica	advanced simulation technologies		
	Brosundet Auditorium NTNU Ålesund - Moderator: Hans Petter Hildre		
Time	Speaker	Topic	
12:30	Hans Petter Hildre, Head of Department	Introduction	
	Ocean Operations and Civil Engineering		
12:40	Siri Kalvig, Fornybar	Opportunities in Offshore Wind	
13:05	Jørn Helge Dahl, Hexagon	The Hydrogen Society	
13:30	Jan Kvålsvold, DNV-GL	Energy Transition Outlook towards 2050	
		 – what could it mean for shipping 	
13:55	John M. Lervik, Cognite	Data Liberation: Breaking the barrier	
		between sea and land	
14:20	BRI	EAK	
14:50	Joel Mills, Offshore Simulation Centre	Simulation as a tool for Operation	
		planning	
	Ocean research at NTNU in Ålesu	nd - Pitch session	
15:00	Hans Petter Hildre	Møre Ocean Lab - Ocean research at	
		NTNU in Ålesund	
15:15	Karl Henning Halse	Simulation of critical marine operations,	
		SFI Move	
15:30	Houxiang Zhang	Digital Twins Ship, the Gunnerus Case	
15:45	Vilmar Æsøy	Data analytics for decision support –	
		machine learning	
15:50	Oceans Talks – Wrap-up		
16:00h-19h	Activities in common Tour around simulat	ors, Food, Pitch session for student	
	companies etc.		