



BALTIC CLEAN
TECHNOLOGY
conference for sustainable solutions

Program booklet
28 – 29 September 2017
HanseMesse Rostock, Germany



Partners and sponsors



BALTIC CLEAN TECHNOLOGY

Conference for sustainable solutions

For the first time, ocean technology and resource management present themselves together under the mission statement for a sustainable resource utilization in the Baltic Sea region. Together with partners from Germany, Lithuania, Poland and Sweden this conference was developed as part of the EU-project "Cleantech International". The 3-year-project, which has been funded with € 1.4 million, with Rostock Business as a lead partner, is to primarily support companies of the Cleantech sector in international cooperation and market development.

Further information about the project:
www.southbaltic-cleantech.eu

This conference offers a comprehensive two-day program along with exclusive opportunities to network, learn and do business. We are committed to the aim that you find new business partners. You have the chance to cross-sectoral cooperation and networking with participants from the South Baltic region.

The patronage for the Baltic Clean Technology has been taken over by *Dr. Stefan Rudolph, Ministry of Economics, Employment and Health of the State of Mecklenburg-Vorpommern.*



Keynotes:

KEYNOTE 1



Prof. Dr. Petter Jenssen
 Norwegian University of Life Sciences

Resources in a circular economy: regional, European and global view

KEYNOTE 2



Maria Hassel
 Vattenfall AB

Matter and energy balance of resources and values for offshore wind

KEYNOTE 3



Stefan Krinke
 Microsoft Deutschland GmbH

Data as resource and asset

KEYNOTE 4

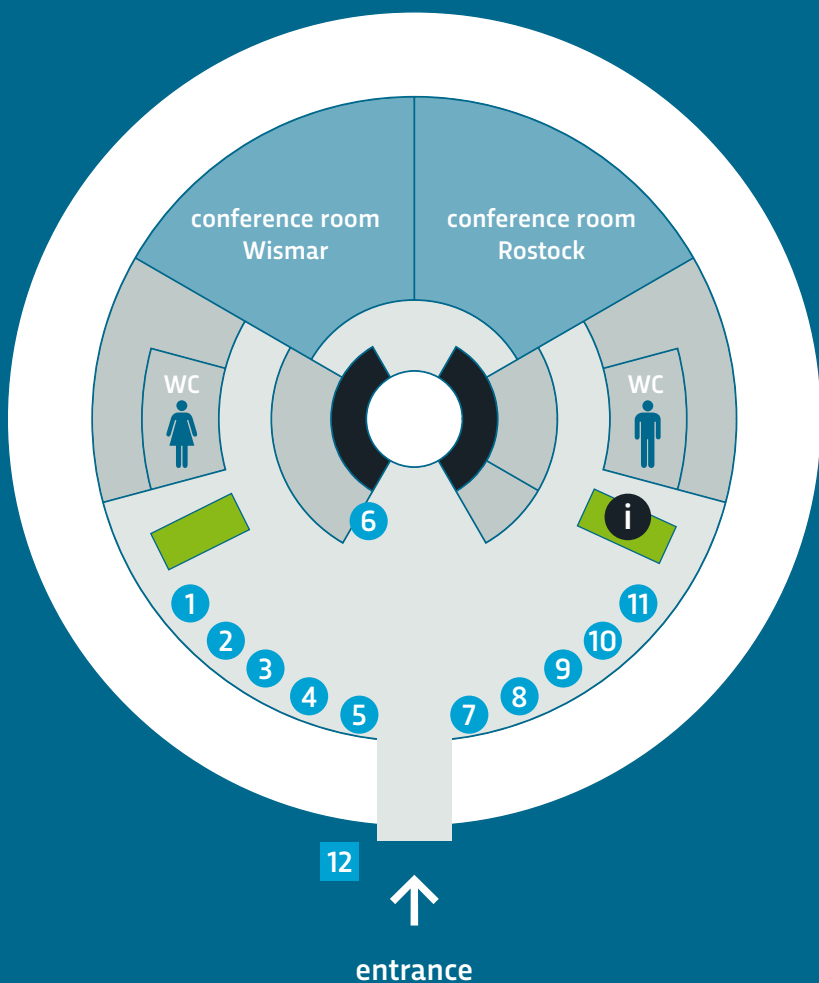


Åsa Bjering
 CPMR Baltic Sea Commission

European Cooperation

Plan of the rotunda

ground floor



List of exhibitors

1



Subsea@Fraunhofer
c/o Fraunhofer-Institut für
Graphische Datenverarbeitung
Joachim-Jungius-Str. 11
18059 Rostock
Tel: +49 (381) 40 24 100
info@igd-r.fraunhofer.de
www.igd.fraunhofer.de

2



*CleanTech Business Park
Berlin-Marzahn*
c/o Bezirksamt
Marzahn-Hellersdorf
Wolfener Str. 32-34, Haus K
12681 Berlin
Tel: +49 (030) 902 93 26 27
info@cleantechpark.de
www.cleantechpark.de

3



enviMV e.V.
Clean technologies &
innovations from
Mecklenburg-Vorpommern
Petridamm 26
18146 Rostock
Tel: +49 (381) 666 90 145
info@envimv.de
www.envimv.de

4



OVVD GmbH
Zum Kranichmoor
17091 Rosenow
Tel: +49 (39602) 29 60
info@ovvd.de
www.ovvd.de

5



*Subsea Monitoring
Network e. V.*
c/o Rostock Business and
Technology Development
GmbH
Schweriner Str. 10/11
18069 Rostock
Tel: +49 (381) 377 19 20
www.subseamonitoring.net

6



*RIESENSPATZ –
Graphic Recording*
Telemannstr. 21
20255 Hamburg
Tel: +49 (040) 84 60 86 90
www.riesenspatz.de

7



*CLEANTECH
Initiative Ostdeutschland*
Freiberger Str. 35
01067 Dresden
Tel: +49 (351) 832 23 64
info@cleantech-ost.de
www.cleantech-ost.de

8



Mini-ROV
c/o Fraunhofer IGD
Joachim-Jungius-Str. 11
18059 Rostock
Tel: +49 (381) 4024 408
info@mini-rov.de
www.mini-rov.de

9



Munitect
c/o Fraunhofer IGD
Joachim-Jungius-Str. 11
18059 Rostock
Tel: +49 (381) 4024 408
info@munitect.de
www.munitect.de

10



Rostock Business
Rostock Business and Tech-
nology Development GmbH
Schweriner Str. 10/11
18069 Rostock
Tel: +49 (381) 377 19 10
www.rostock-business.com

11



*The Southbaltic
Cleantech Network*
c/o Rostock Business and
Technology Development
GmbH
Schweriner Str. 10/11
18069 Rostock
Tel: +49 (381) 377 19 10
www.southbaltic-cleantech.eu

12

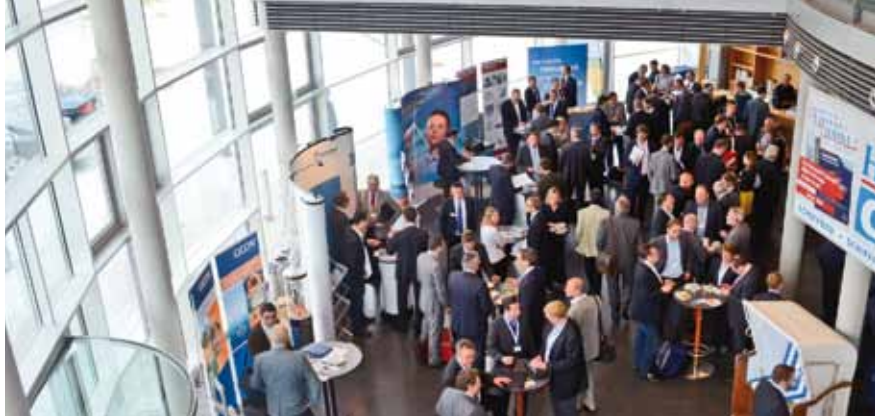


GEObIKE Sp. z o.o.
ul. Mickiewicza 21
PL-70-383 Szczecin
Poland
Tel: +48 (091) 423 42 22
www.geobike.com.pl

Conference program day 1

The program specifications correspond to the state of press. We reserve the right to make changes.

THURSDAY, 28 SEPTEMBER 2017	
8:00	Registration & welcome coffee → Foyer
9:00	Opening speech (The speech is held in German) → conference room: Rostock & Wismar <i>Dr. Stefan Rudolph Ministry of Economics, Employment and Health of the State of Mecklenburg-Vorpommern</i>
9:30	KEYNOTE 1 → conference room: Rostock & Wismar
	Resources in a circular economy: regional, European and global view <i>Prof. Dr. Petter Jenssen Norwegian University of Life Sciences</i>
10:00	KEYNOTE → conference room: Rostock & Wismar
	Matter and energy balance of resources and values for offshore wind – When old turbines give room for new technology within Vattenfall's portfolio. <i>Maria Hassel Vattenfall AB</i>
10:30	Break
11:00	KEYNOTE 3 → conference room: Rostock & Wismar
	Data as resource and asset - Digital transformation with data driven services <i>Stefan Krinke Microsoft Deutschland GmbH</i>
11:30	KEYNOTE 4 → conference room: Rostock & Wismar
	European Cooperation <i>Åsa Bjering CPMR Baltic Sea Commission</i>
12:00	Lunch → Foyer
13:15	FORUM RESOURCE MANAGEMENT 1: Efficient waste, waste-to-energy and recovering management → conference room: Rostock
	Waste management and urban mining: Germany, Europe and the World <i>Prof. Dr. Michael Nelles Universität Rostock</i>
	On-/offshore waste management in Baltic cruise shipping <i>Jessica Hudde Innovations- und Bildungszentrum Hohen Luckow e.V.</i>
	Strategies of phosphorus recovering from sewage sludge <i>Roland Ruscheweyh REMONDIS Aqua GmbH & Co. KG</i>
	Potential for optimization by applied flexibility of decentral (renewable) waste-to-power generation equipment <i>Detlef Siebert natGas A</i>
13:15	FORUM OCEANTECHNOLOGY 1: Environmental monitoring → conference room: Wismar
	Marine sensor generation 4.0 from the surface to the ultra deep sea <i>Heinz Schelwat Sea & Sun Technology GmbH</i>
	Upcoming technologies for efficient monitoring <i>Prof. Dr. Uwe Freiherr von Lukas Fraunhofer IGD</i>
	Molecular monitoring of aquatic organisms <i>PD Dr. Matthias Labrenz Leibniz-Institut für Ostseeforschung Warnemünde</i>
	Making marine monitoring affordable <i>Karl Vene Flydog Solutions OÜ</i>
13:15	EUROPEAN FUNDING → conference room: Demmin & Greifswald
	Cleantech in European funding sources for innovation – overview, current calls and interactive project discussions <i>Frank Graage & Antje Hiller Enterprise Europe Network e.V., Steinbeis Team Northeast</i>
14:45	Break → Foyer



THURSDAY, 28 SEPTEMBER 2017

15:15 **FORUM RESOURCE MANAGEMENT 2: Innovation and integrated technologies for waste, water, sludge and recovering / degradation technologies**
→ conference room: Rostock

Supporting start ups for urban mining, resource management and circular economy
Therese Bejgarn | EIT RawMaterials North AB

Micro-pollutant degradation with pulsed plasmas
Prof. Dr. Ronny Brandenburg | Leibniz-Institut für Plasmaforschung und Technologie e.V.

Combined hydrolysis of biodegradable substrates
Norbert Rossow | Power Recycling Energyservice GmbH

Intensification of biosolids degradation due to application of high-power ultrasound
Dr. Klaus Nickel | ULTRAWAVES Wasser & Umwelttechnologien GmbH

15:15 **FORUM RESOURCE MANAGEMENT 3: Innovation and integrated technologies for waste, water, sludge and recovering / integrated technologies for circular processing**
→ conference room: Demmin & Greifswald

Food2Waste2Food: decentral circular economy by greenhouse technology
Knut Hovland | Grønt Skifte AS

Microalgae - innovative approach for waste water and air pollution treatment
Gunnar Mühlstädt | MINT Engineering GmbH

Drying, combustion and energy conversion technology for pasty wastes by example of dewatered sewage sludge
Nico Timm | INTEC GMK GmbH

Aquaponic system in a pre-commercial scale: fish and veggie-production by circulation of water and nutrients
Björn Baßmann | Universität Rostock

15:15 **FORUM OCEANTECHNOLOGY 2: Technical monitoring of offshore structures**
→ conference room: Wismar

Hightech for subsea service and maintenance
Eyk-Uwe Pap | GERMAN ROV OFFSHORE Service GmbH & Co. KG

Maintaining the Nord Stream pipeline – practical experiences and opportunities for innovation
Ruud Hoekstra | Nord Stream AG

Resident robotic inspection system for offshore wind farm asset integrity
Dr. Jakob Schwendner | Kraken Robotik GmbH

Detecting buried objects using parametric subbottom profiler
Dr. Jens Wunderlich | Innomar Technologie GmbH

15:15 **MATCHMAKING EVENT** → conference room: Anklam & Stralsund **1**

16:45 **End of the first conference day**

18:30 **EVENING EVENT** **2**

Program – information

1 MATCHMAKING EVENT:

Participants are invited to join the Matchmaking event and further explore new cooperation possibilities. The Matchmaking event is organized in order to provide an opportunity for research, technology and business partnerships in the fields of resource management and ocean technology. Participants have the chance to conclude new international partnerships and exchange information on the latest developments. In one-to-one discussions and meetings, participants from different branches and countries are specifically brought together here in a separate conference room especially set up for this purpose at pre-fixed dates.

2 EVENING EVENT:

A special evening in a special location. The event will take place at the restaurant “Lokschuppen” located in Rostock’s city harbour. There will be drinks on arrival from 18:30, followed by a dinner – as well as an excellent opportunity to network in relaxed atmosphere.

→ **Location:** *Lokschuppen, Am Strande 2C, 18055 Rostock*

18:30 **Opening**

19:00 **Presentation:** *Gert Proba, Rostock Business*

19:10 **Welcoming speech from**

Prof. Dr. Uwe Freiherr von Lukas,

Fraunhofer IGD Rostock

19:20 **Partner talk**

19:30 **Buffet and networking**

22:00 **End of the evening event**



3 CLEANTECH TALK:

Search for international cooperation via livestream

Six innovative project ideas related to the topic waste management will be presented in this talk by its initiators, who aim to get in contact with potential project partners from different countries and to get stimulating feedback to their project ideas. Participants from Poland, Lithuania and Sweden will be involved via livestream. Together with the startup company “Tweedback”, we put emphasis on creating an experience. The participants have the chance to evaluate the project ideas and discuss or ask questions via an app.

4 PROJECT DEVELOPMENT WORKSHOP:

Turning project ideas into international cooperation projects

The basic idea of this workshop is to gather expertise from international Cleantech companies and partners in order to make successful projects possible – and to involve the participating experts as partners. A discussion about the specific project idea and an exchange of experience from other international projects are in the focus here, when one or two ocean technology projects will be introduced.

Conference program day 2

The program specifications correspond to the state of press. We reserve the right to make changes.

FRIDAY, 29 SEPTEMBER 2017	
8:45	Welcome coffee → Foyer
9:00	CLEANTECH TALK → conference room: Rostock 3
9:00	PROJECT DEVELOPMENT WORKSHOP → conference room: Wismar 4
10:00	FORUM RESOURCE MANAGEMENT 4: Deconstruction, dismantling and reutilization of offshore power plants → conference room: Rostock
	Strategies and technologies for sustainable and efficient recycling of wind power plants <i>Michael Schneider REMONDIS Assets & Service GmbH & Co. KG</i>
	Sustainable decommissioning modelling of offshore wind farms <i>PhD Eva Topham University of Strathclyde</i>
	Challenges due to contamination and underground construction for RES-plants <i>Eberhard Casals CDM Smith Consult GmbH</i>
10:00	FORUM BIG DATA: Supporting clean technology with digital data → conference room: Wismar
	Environmental decision support in space and time: the datacube paradigm <i>Prof. Dr. Peter Baumann radsaman GmbH</i>
	EMODnet: unlocking the wealth of European marine data and observations <i>Jan-Bart Calewaert EMODnet Secretariat</i>
	Geo-information systems as tool for resource management <i>Prof. Dr. Ralf Bill Universität Rostock</i>
	Requirements for future distribution networks - operation of smart grid <i>Philipp Kertscher WEMAG Netz GmbH</i>
11:30	Break → Foyer
12:00	ON- AND OFFSHORE CONTAMINATION, UNEXPLODED ORDNANCE → conference room: Rostock & Wismar
	Research and innovation to address munitions in the sea by JPI oceans <i>Jens Sternheim German program on underwater munition</i>
	Special challenges in UXO recovery in the coastal areas of the Baltic Sea <i>Oliver Geisler Eggers Kampfmittelbergung</i>
	Decision aid for marine munitions <i>Prof. Matthias Reuter Technische Universität Clausthal</i>
	Exploration of sustainable rare earth elements by extraction from heavy mineral bearing sands from the German Baltic Sea floor <i>Dr. Henrik Rother Landesamt für Umwelt, Natur und Geologie Mecklenburg-Vorpommern</i>
13:30	Closing session → conference room: Rostock & Wismar
14:00	Lunch and end of the second conference day → Foyer
afterwards	OUTSIDE EVENT 5

Program – information

5 OUTSIDE EVENT

OUTSIDE EVENT 1:

Aquaculture and Sea Ranching

At this Event you will get a guided tour of the „FischGlasHaus“. With the Glashaus, the university has a unique system in this form all over Europe, in which all questions concerning aquaponics can be dealt with in future. The Glashaus combines commercial, economically working catfish plants with the production of crops such as cucumbers, tomatoes and herbs.



→ **Location:**

*Universität Rostock
Agrar- und Umweltwissenschaftliche Fakultät
Justus-von-Liebig-Weg 6 | 18059 Rostock*

→ **More information:**

www.auf.uni-rostock.de/professuren/a-g/aquakultur-und-sea-ranching

OUTSIDE EVENT 2:

Baltic Diver Germany – experience a work class ROV

At this event you get a guided tour to the premises of Baltic Diver Germany, one of the internationally leading diving contractors. Come and visit one of their Offshore vessels, get to see a real work class ROV launched, step a long an Offshore Diving Container and hear about the latest adventures of Baltic Divers! Welcome on board!



→ **Location:**

*Baltic Taucherei- und Bergungsbetrieb Rostock GmbH
Alter Hafen Süd 3 | 18069 Rostock*

→ **More information:**

www.baltic-taucher.de

Service – information

CONFERENCE PRESENTER:

JOACHIM MAHRHOLDT

Joachim Mahrholdt was born in 1956 and studied German and Romance language and literature. He was a journalist for German television for 26 years. Joachim Mahrholdt is a specialist in environmental issues, water management issues and sustainable use of resources. Joachim Mahrholdt will guide you through the conference.



GRAPHIC RECORDING:

MARIE-PASCALE GAFINEN

An innovative format to document speaker's content. Graphic Recording is the documentation of the spoken content with the purpose of facilitating shared understanding, insight and learning – using a large wall sized. The conference will be visualized live in real time, in order to create a useful documentation for the participants. Marie-Pascale Gafinen will visualize live in real time the four keynotes on the first conference day. During the whole conference, she will document the results of the various sessions and formats in one picture. This picture will be explained in the closing session on the second conference day by Marie-Pascale Gafinen.



TWEEDBACK:

Tweedback is a completely new way to let you interact with your surroundings at the conference. It promotes the exchange between you, the presenter, speakers and other participants. You as an attendee get the chance to enhance talks by valuable questions and thus be a part of the conference. You can vote on polls, send questions to the speaker and import contact details of the speakers directly to your mobile phone.



There are two ways to join in:

→ **A: Open your browser and type:** bct.tweedback.io/2017 or

→ **B: Scan the QR Code**

Get the most out of the BCT-conference with Tweedback!

WLAN

→ **WLAN:** HanseMesse

→ **Password:** HM_BCT2017

PLEASE NOTE:

During the conference photos and videos will be made. In case you don't want to be filmed and photographed please contact the project team at the registration counter. Thank you very much.



Location

Baltic Clean Technology 2017 will take place in the Conference Rotunda of the HanseMesse Rostock.

HanseMesse Rostock
Zur HanseMesse 1-2
18106 Rostock

Contact

Baltic Clean Technology Team
Rostocker Messe- und
Stadthallengesellschaft mbH

Andrea Reimer
Zur HanseMesse 1-2
18106 Rostock

Tel: + 49 (381) 44 00 602
welcome@baltic-clean-technology.com
www.baltic-clean-technology.com

Partner hotels

- **Radisson Blu Hotel, Rostock**
Lange Str. 40 | 18055 Rostock
Tel: +49 (381) 37 50 35 00
- **Motel One**
Schröderstr. 2 | 18057 Rostock
Tel: +49 (381) 66 69 19 10
- **Die kleine Sonne**
Steinstr. 7 | 18055 Rostock
Tel: +49 (381) 4 61 20
- **Steigenberger Hotel Sonne, Rostock**
Neuer Markt 2 | 18055 Rostock
Tel: +49 (381) 4 97 30

Taxi

We can call a taxi for you, please come to the registration counter. The local taxi company can be reached 24 hours a day under +49 (381) 68 58 58.

Save the Date
BALTIC CLEAN TECHNOLOGY 2018
17 - 18 October 2018 in Szczecin, Poland