

NORTHERN GERMANY

One North. Many strengths.

Oceanology International London
12 - 14 March 2024 | Stand K 250



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Sensors • Systems • Solutions

In the division Marine Technologies, we are developing, designing and distributing measuring instruments and complete systems for investigations of (sea) water for more than 20 years. In addition to the freely configurable products from our portfolio, we also offer the new development of customer-specific solutions, which are tailored to the respective requirements of the customer.

- -4H-FerryBoxes (different types, individually customized)
- Underwater sensors and analyzers
- Environmental monitoring systems and containers
- Time-series stations
- Mesocosm installation and control system
- Seawater distribution system for labs on a research vessel
- Freshwater monitoring systems
- Underwater nodes / landers
- Passive sampler and litter sampler (e.g. micro plastics)

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FIELAX GmbH

FIELAX was founded in 2002. The founders previously worked as scientists within Germany's polar and marine research and also for a shipping company with strong commitment to research vessels. FIELAX offers scientific-technical services and products. Our highly qualified team of scientists and engineers has long-standing experience in surveying operations on land and sea. Our clients benefit from this experience and from our expert knowledge in physics, geophysics, chemistry, mathematics, hydrography, information technology and electronics.

Over the last two decades, FIELAX has gained a wealth of experience in in-situ thermal testing in various environments. Starting with classical heat flow probe measurements in soft deep-sea sediments, FIELAX has not only further developed its instrumentation to enable measurements in shallow water regions, but also the knowledge base and understanding of thermal

transport processes in marine sediments from both, natural and artificial sources.

The worldwide experience with thermal measurements in different marine environments makes FIELAX a pioneer in conducting in-situ thermal measurements and sets standards for data processing and interpretation.

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Fraunhofer IGD

Opening up new horizons under water with Fraunhofer

The Fraunhofer-Gesellschaft is the leading organization for applied research in Europe. Its research activities are conducted by 76 institutes and research units at locations throughout Germany. International collaboration with outstanding research partners and companies from around the world brings Fraunhofer into direct contact with the key regions that drive scientific progress and economic development.

The challenges of subsea technologies can only be met by combining various skills. Cooperation in different fields is essential for the development and implementation of new technological solutions in all kinds of marine environments – from shallow water to the deep sea. Therefore, 15 Fraunhofer institutes across Germany have bundled their interdisciplinary know-how to be

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able to develop innovative technologies such as subsea vehicles, monitoring solutions for aquaculture facilities, digital twins of maritime assets or automated detection systems for explosives. Oceantechnologies@Fraunhofer – your gateway to applied research in the maritime sector!



GEOMAR Helmholtz Zentrum für Ozeanforschung Kiel

SOOP - "Shaping an Ocean Of Possibilities" for science-industry collaboration is a recently funded innovation platform of the German Helmholtz Association operated by the GEOMAR Helmholtz Centre for Ocean Research, the Alfred Wegener Institute, the Helmholtz Center for Polar and Marine Research (AWI) and the Helmholtz Center Hereon.

SOOP aims to bring sensor users, sensor developers and sensor manufacturers together around a set of key innovative projects. SOOP thus provides a platform of cooperation for industry, science and civil society to jointly build competencies and growth of ocean observations and technology. SOOP supports the growth of the "New Blue Economy" sector by actively enhancing the bi-directional knowledge and technology transfer between science and industry.

Our Goal is, to bring together stakeholders from industry, civil society and science. The SOOP platform will lead to lower costs and a more effective and sustained ocean observing system fueled by vibrant public and private sector engagement. We are going to harness the curiosity and creativity of our partners to sample essential ocean and climate variables at unprecedented scales.



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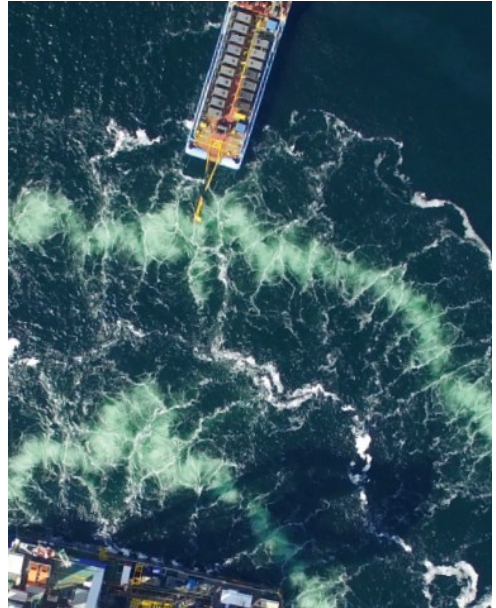
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**Shaping an Ocean
Of Possibilities**
for science-industry
collaboration

HYDROTECHNIK LÜBECK GmbH

HYDROTECHNIK LÜBECK brings environmental protection and technical progress into harmony. The Big Bubble Barrier was developed for offshore noise protection in wind farm construction sites – a compressed air system that can be used flexibly to reduce noise emissions during pile driving and protect all marine life forms during ammunition clearance underwater blasting. Special nozzle hoses and hose winches have been developed for this work at sea. Experienced teams are now working around the world for environmental protection. In Germany, this development is considered to be “state of the art.” In addition to oil barriers, compressed air barriers, ice prevention systems, and the creation of complete protective systems for seawater desalination systems, underwater noise protection is our most important task.



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OceansWaveS GmbH / Rutter Inc.

Rutter Inc., headquartered in St. John's, Canada is a developer of leading-edge radar signal processing technologies for the marine safety, security, and environmental monitoring and protection industries.

In 2012, Rutter acquired OceanWaveS GmbH of Lüneburg, Germany, a recognized industry leader in the development and supply of radar-based wave and surface current measurement technology with its WaMoS® II system.

Rutter's signal processing, recording, and playback capabilities integrate with navigational or dedicated X-band radar assets to provide enhanced situational awareness that promote safety and efficiency in a variety of situations. Signature products include:

- sigma S6 Oil Spill Detection
- sigma S6 Ice Navigator™
- sigma S6 Small Target Surveillance
- sigma S6 WaMoS® II Wave and Surface Current Monitoring

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- sigma S6 WaveVision™
- sigma S6 WaveSignal™

Applications for these products encompass oil spill detection and response management, wave and surface current monitoring, coastal surveillance, early detection of small craft at sea, and ice management planning and navigation.

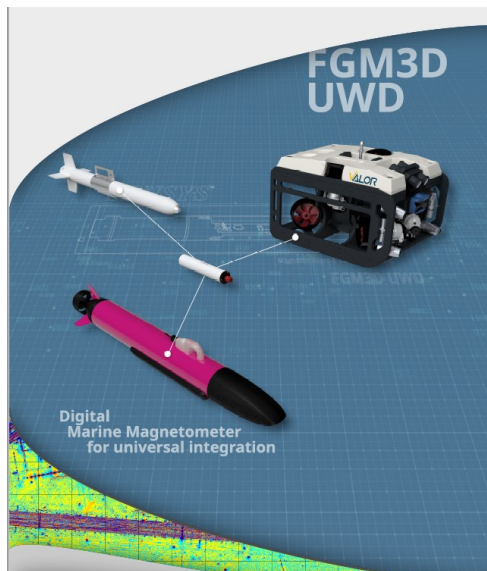
Rutter's mission to make the maritime environment safer drives continuous innovation and expansion of its product line to address various challenges facing marine industries. As well, Rutter is engaged in research and development projects promoting engagement with industrial and educational partners.

As marine activity moves towards increasingly environmentally sensitive and remote areas, Rutter sigma S6 technology provides the real-time capabilities that are becoming requisite elements in navigation safety and environmental protection.



SENSYS Magnetometer & Survey Solutions

SENSYS – Sensorik & Systemtechnologie GmbH is an international premium manufacturer of professional detection and measurement equipment which are used worldwide for magnetic and electromagnetic surveys in the area of UXO/IED search, cable and pipe detection and monitoring, scientific surveys as well as security measurements; matching land, down hole or offshore conditions.



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SENSYS[®]
Magnetometers & Survey Solutions

Business Development and Technology Transfer Corporation of Schleswig-Holstein

The Business Development and Technology Transfer Corporation of Schleswig-Holstein (**WTSH**) is the one-stop office for all enterprises which want to conduct, expand or revive their business and innovation activities in Schleswig-Holstein, the northern part of Germany.

We help you relocate.

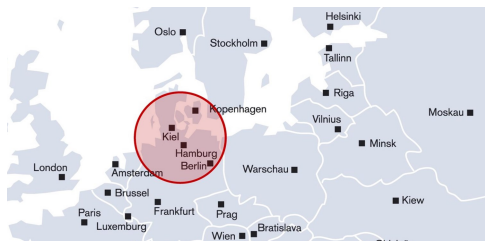
We advise you on the choice of the appropriate location, we help you to present a financial plan and accompany your project until it has been successfully implemented.

WTSH GmbH
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We open new markets.

We help you to develop foreign markets by foreign trade and payment promotions, by organising your participation at trade fairs all over the world and by our joint company offices in selected growing regions.



We promote innovations.

We support your technology projects, research and development activities and we help you implement your innovations by providing qualified innovation advice and property rights information.

WT.SH 
Business Development and
Technology Transfer Corporation
of Schleswig-Holstein

“Klönschnack*”

[ˈklø:nʃnak]

13th March 2024, from 4 p.m. to 6 p.m., K 250

*get together

4 JENA
ENGINEERING

FIELAX

 **HYDROTECHNIK LÜBECK**
PROTECTING ALL MARINE LIFE FORMS

 **HYDROTECHNIK OFFSHORE**
GMBH

 **Fraunhofer**

SENSYS[®]
Magnetometers & Survey Solutions

 **SOOP**
**Shaping an Ocean
Of Possibilities**
for science-industry
collaboration


RUTTER


OCEAN WAVES
GMBH

WT.SH 
Business Development and
Technology Transfer Corporation
of Schleswig-Holstein

The Business Development and Technology Transfer Corporation of Schleswig-Holstein (WTSH) is the business development agency of the state of Schleswig-Holstein, the chambers of industry and commerce, the chambers of the craft trades and the state's universities.

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