

# INMARTECH 2012

## PROGRAM

**Tuesday 25 September**

18:45: *Icebreaker party*

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**Wednesday 26 September**

08:30: Herman Ridderinkhof (NIOZ) Welcome and Introducing NIOZ Seagoing Research

**09:00: SESSION 1: IN-SITU OBSERVATIONS Chair: Walt Waldorf (Oregon State University)**

- Intro lecture: Walt Waldorf: The Ocean Observing Initiative; moorings, profilers, gliders to date and plans for the future.
- Loïc Dussud (IFREMER): Recent developments in in-situ observations at IFREMER
- Hans van Haren (NIOZ): The KM3 net project, an introduction
- Johan van Heerwaarden (NIOZ): Deployment of KM3-net mooring strings
- Leon Wuis (NIOZ): NIOZ Mooring design and innovation
- Peter Enderlein (BAS): BAS new under-water camera system for biological seabed assessments
- Marco Worship (Dep. Env. SA): Underwater profiling units
- Fritz Abegg (GEOMAR): ROV Piloca, interoperability with Kiel6000 etc.
- Roel Bakker (NIOZ): ROV gas sampler
- Klas Lackschewitz (GEOMAR): Handling and operation of German deep-sea AUV ABYSS
- Svetlana Tsarichenko (U. Gothenburg): Use of ROVs for videomosaicing of benthic habitats

12:00: LUNCH

**13:00: SESSION 2: SEISMICS, ACCOUSTICS and TOWS Chair: Henk de Haas (NIOZ)**

- Intro lecture: Per Trinhammer Multi channel seismic data in the Arctic
- Hidenori Shibata (Nippon Marine Enterprise): A seismic air-gun array operation
- Jeff Cordell (CSIRO): Acoustic and optical CSIRO system (fish detector)
- Hilde Spjeld (IMR): MUST: Deep tow (1500 m) acoustic fish and plankton mapping
- Robert Hagg (WHOI): Towed Video Plankton Recorder MkII
- Henri Floc'h (IFREMER): Installation and trials of MBES Kongsberg EM210 EM192 on RV *l'Atalante*
- Jeff Cordell (CSIRO): Benthic Optical Acoustic Grab (BOAG) system

### 15:30: SESSION 3: SHIPBOARD OPERATIONS

Chair: Colin Day (NOC)

- Intro lecture: Colin Day title to be announced
- Marcel Bakker (NIOZ): Latest developments in Lab Containers for sea research
- Marck Smit (NIOZ): Antarctica container project and a new container climate test facility
- Roger Arsenault (Defence Res. Canada Atl.): Dual tows; devices and methods to maintain separation
- Jack Schilling (NIOZ): Tips and Tricks website
- Daryl Swensen (Oregon State): UNOLS Research Vessel Safety Standards App. A,B winch and wire regulations
- Hilde Spjeld (IMR): Exploded pressure house in lander: safety of batteries
- Jeff Cordell (CSIRO): scientific winch using electric motors and variable speed drives, lessons learnt during construction
- Don McKenzie (CSIRO): Recent experiences spooling long wires and cables + discussion

17:30: Transport to KLIF 12 in Den Hoorn for:

Drinks:

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Dinner:

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## Thursday 27 September

### 08:30: SESSION 4: CABLES and CORING

Chair: Tjeerd van Weering (NIOZ)

- Intro lecture: Henk Brinkhuis (NIOZ): Arctic Deep Drilling
- Jack Schilling (NIOZ): Testing Super Aramide cables with optical fibres + copper conductors
- Yvan Reaud (IPEV): Comparison between HMPE and Aramide Cables
- Ruud Groenewegen (NIOZ): fear for glass? no need! - a beginners introduction to using optical fibers under water
- Colin Day (NOC): Piston Coring collaboration
- Patrice Woerther (IFREMER): Improvements in Piston Coring
- Yvo Witte (NIOZ): NIOZ Piston corer system improvements
- Sarah Duduyer (IFREMER): Installation of MeBo on *Pourquoi Pas?*
- Tim Freudenthal (MARUM): Scientific drilling with the sea floor drill rig MeBo
- Yvan Reaud (IPEV): Giant Calypso Corer aboard the *Marion Dufresne* and improvements

13:00 – 19:00: Cruises on RV *Navicula* and RV *Pelagia*

19:00: Drinks

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19:30: BBQ on RV *Pelagia*

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Friday 28 September

08:30: SESSION 5: 'ODDS and SODS'

Chair: John Mitchell (NIWA)

- Intro Lecture: John Mitchell "Surveying Down-Under – the challenges and rewards of surveying around New Zealand – Equator to the Antarctic"
- Edwin Keijzer (NIOZ) Ultraclean CTD system with a special NIOZ ultra clean bottle
- Eric Wagemakers (NIOZ) Automatic monitoring of primary production
- Tatsuya Tanaka (Marine Works Japan Ltd.) Development of Reference Material for density of seawater
- Edwin Keijzer (NIOZ) NIOZ Deep Digging Dredge
- Oscar Garcia Sanchez (CSIC) Low cost open hardware and software for wireless observation of oceanographic sensor data
- Lorendz Boom (NIOZ) In-house development and construction of equipment: Coreslicer etc
- John Cluderay (NIOZ) 'Time Difference of arrival Bird tracking'
- Jack Schilling (NIOZ) NIOZ Track and Trace demo
- Jean-Marc Siquin/Marc Nokin (IFREMER) CHARLIE software

SHIPS: Poster session with 5 minute presentation

- Stephen Thomas (CSIRO) A Technical Overview of Australia's Future Research Vessel, *RV Investigator*
- David Fisichella (WHOI) Research vessel design
- Wim Versteegh/Michiel T'jampens (VLIZ) *Simon Stevin*
- Klaus von Broeckel (GEOMAR) New German Vessel *RV Sonne*
- Thorsten Kroes (Meyer Werft) Challenges with the construction of research vessels
- Colin Day (NOC) *New RSS Discovery*
- Per Trinhammer (U. Aarhus) New research vessel for Aarhus University
- Fred Smits (NIWA) *Tangaroa*

To be scheduled: Ruud Groenewegen: Workshop on terminations of optic fibres in synthetic cables

12:30: LUNCH and End of INMARTECH 2012

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