



Norwegian University of
Science and Technology

REEF3D Workshop and Coastal Engineering Day 2023 NTNU/PIANC

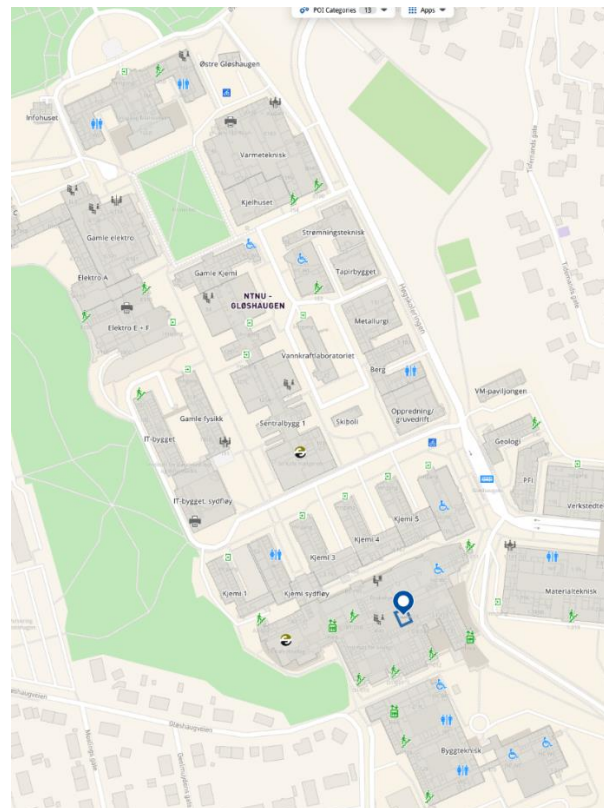
When: Monday 17th and Tuesday 18th of April.

Where: Room: Realfagsbygget D1_185, Høgskoleringen 5, 7034 Trondheim

NTNU and PIANC join forces to organize the 6th Coastal Engineering Day and REEF3D Workshop in Trondheim the 17th – 18th of April 2023. The event aims to bring together the academic and professional communities within the coastal engineering profession. There will be industry specific and research-based presentations combined with a workshop showcasing NTNU's open-source hydrodynamic software, REEF3D. These two days will provide a great framework for networking, sharing of experiences and mutual learning between sectors, and should be interesting for all those who work or study within fields connected to coastal engineering. Please use the QR code or weblink to sign up. For any questions contact Magnus (magnus.thorsen.bach-gansmo@norconsult.com).

The event is free and open for all. Registration deadline 13th of April 16:00.

We look forward to seeing you there!



Sign up with
QR code
or
[Use this link](#)



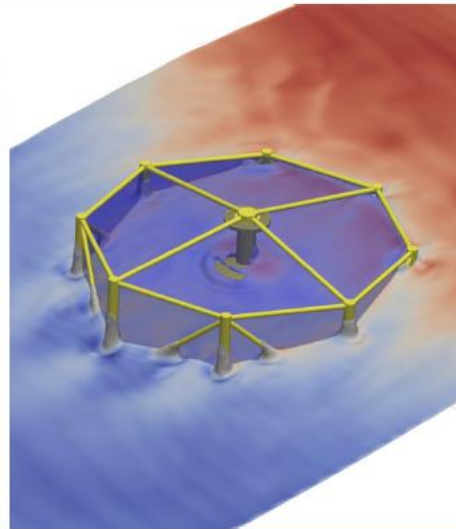
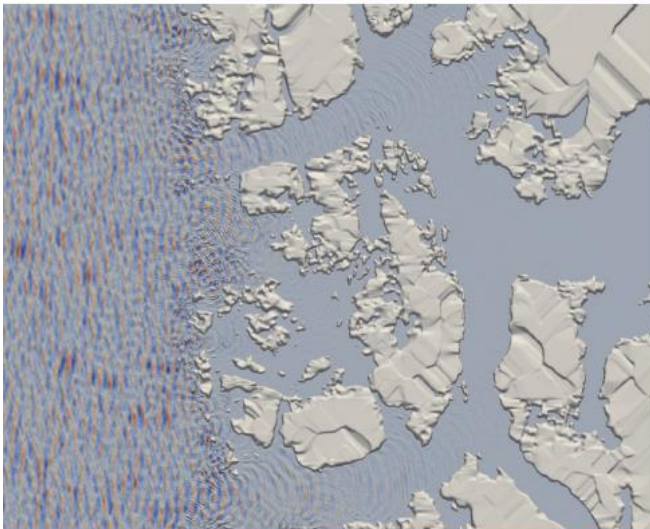


NTNU

Norwegian University of
Science and Technology

REEF3D Workshop

17. April - NTNU / Trondheim



Program

Part 1 - 9:30-10:15 Introduction to the Open-source hydrodynamic framework REEF3D - *Hans Bihs*

Part 2 - 10:30-12:00 Large-scale wave modeling with REEF3D::FNPF and demonstration - *Hans Bihs*

Part 3 - 13:00-14:30 REEF3D installation and FNPF hands-on examples - *Hans Bihs, Ronja Ehlers, Ahmet Soydan, Fabian Knoblauch*

Part 4 - 14:45-15:30 FNPF-CFD coupling, wave load calculations and fluid-structure interaction with REEF3D::CFD - *Hans Bihs, Ahmet Soydan*

Presenters:

Prof. Hans Bihs, Ronja Ehlers, Ahmet Soydan, Fabian Knoblauch
Marine Civil Engineering, NTNU

When: 17. April 2023

Time: 9:30-15:30

Where: NTNU, Trondheim, Realfagbygget, room D1-185: <https://link.mazemap.com/tt8tPwZk>

Sign-up: please send an email to hans.bihs@ntnu.no (the workshop is limited to 20 participants)

The workshop gives an overview of the open-source hydrodynamic framework REEF3D. It will provide practical experience with the fast potential flow modeling for large-scale wave fields at the Norwegian coast and model coupling for wave load calculations. It is recommended to install REEF3D beforehand, but it is not mandatory.

Welcome to the workshop!

www.reef3d.com



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Program Coastal Engineering Day 18th of April

- 10:00 *Welcome and information about PIANC Young Professionals.*
Magnus Bach-Gansmo – Norconsult / PIANC Norway Young Professional
- 10:20 *Stad ship tunnel – the new sea route – what, why and how*
Terje Skjeppestad – Kystverket
- 10:40 *Stad ship tunnel - Manoeuvring simulations*
Leiv Aspelund – Multiconsult
- 11:00 *Numerical modeling of the impact from Stad ship tunnel*
Henrik Fjørtoft – DHI
- 11:20 **Lunch**
- 12:00 *Sea ice actions for offshore wind*
Åse Ervik - Multiconsult
- 12:20 *Ice actions on Ramfjordbrua*
Elisabeth Gundersen – Statens vegvesen
- 12:40 *Cold climate risks for offshore wind*
Sigurd Henrik Teigen - Equinor
- 13:00 *Floating solar energy on hydropower reservoirs – Ice actions*
Knut Vilhelm Høyland – NTNU
- 13:20 **Coffee break**
- 13:40 *EGGET Fish Farm*
Geir Olav Guddal – Norconsult
- 14:00 *Nylon Fibre Ropes for the Mooring of Floating Wind Turbines*
Stian Høegh Sørum - Sintef
- 14:00 *Floating offshore wind and mooring systems modelling using CFD*
Vilde Malmei - NTNU
- 14:20 *Jacket structure offshore wind turbine*
Ane Bjerkebæk – NTNU
- 14:40 *Ashes – Wind turbine simulation sw – also for research and learning*
Paul Edgar Thomassen – Simis
- 15:00 *Closing session*
Magnus