

## Theoretical and practical aspects of marine paints preparation and application

In the frame of Byefouling training courses established in the 6M meeting, JOTUN organized a 1.5 days session of theoretical and practical instructions on how to prepare and apply paints for marine applications. The course was addressed to young researchers, PhD students and engineers. The course took place on the 23rd and 24th of September 2014 at Jotun R&D Centre, Sandefjord, Norway.

### Contents/topics

- Theory sessions on some fundamentals about marine coatings, including markets, technologies, usage, paint systems etc. Focus on underwater hull coatings, including foul release coatings but more specifically on selfpolishing antifouling (AF) paints, their raw materials and the most commonly used binder technologies.
- Practical demonstration of application techniques, including airless spray, applicator, brush and roller
- Practical demonstration: Paint formulation basics and preparation of AF paint in high speed dissolver
- Demonstration/instruction of paint characterization methods/testing in lab, including stability testing viscosity, drying/sagging, mechanical properties, adhesion/cohesion testing
- Demonstration/instruction of testing of antifouling properties including polishing testing, microscopy, optical profiling of paint surfaces, water uptake testing, static and dynamic in situ testing on rafts/rotors, in-service testing on ships
- Wrap-up session with repetition of some key topics incl. Q&A's
- Social get-together with pizza & beer at restaurant La Scala took place in the evening of 23rd September.

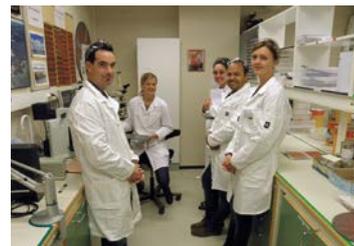


Photo: Tel Aviv University (TAU)



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Photo: Jotun

### Participants

1. Berceley Niebles Atencio - Chalmers University of Technology
2. Javier Fernandez - ZUNIBAL
3. Amalia Skarmoutsou - National Technical University of Athens
4. Tania Teixeira - AquaBioTech Group (ABT)
5. Jerome Delroisse - University of Mons
6. Maarten Tack - OCAS
7. Gunhild Hageskal - SINTEF Materials and Chemistry
8. Laura Sánchez Abella - Fundación CIDETEC
9. Eliana Malheiro - Smallmatek, Lda.



### Presenters and organizers

1. Ragne L Helberg – R&D Chemist, Jotun Antifouling Laboratory
2. Martin Axelsson – R&D Chemist, Jotun Antifouling Laboratory
3. Kim Andreassen – R&D Department Manager, Jotun Antifouling Laboratory

