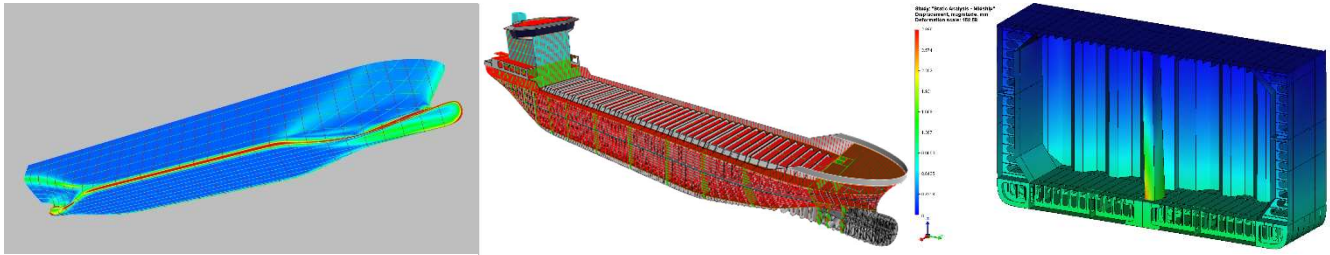


Training workshop: Preliminary Ship Design Loop @ NDAR, Antibes, 15-17 October 2019



A 3-day “Preliminary Ship Design Loop” workshop will be held in our office on 15-17 October 2019. From basic hull design to parametric structural modelling to FE-based structural analysis, based on specialist software [Orca3D](#), [ExpressMarine](#) and [AutoFEM](#)

- Instructor: - Stéphane DARDEL, Senior Naval Architect at NDAR
Language: - English (French, Italian supported).
Attendance: - the workshop is intended for naval architects and ship and boat designers.
- minimum attendance: 2
Pre requisites: - good knowledge of CAD and 3D modelling (Rhino3D, AutoCAD, else . . .) is required.
- own laptop with software installed and working (see below)
Course fees: - 1,950€ for the 3 days, lunch snack included.
Terms: - advance payment of the fee is required to confirm registration
- acceptance on a *first-come-first-served* basis.

The Syllabus will cover:

- ✓ Foundations of hull modeling and fairing techniques
- ✓ Hydrostatics & preliminary stability calculations
- ✓ Resistance & propulsion
- ✓ Parametric structural modelling
- ✓ Preparing the 3D model for FEA
- ✓ FE structural analysis

Participants will bring their laptops, on which the following will be installed and function in good order:

- Rhino3D v6 + Orca3D latest Release (v2.0.8) + ExpressMarine latest release (v2.1.2)
- AutoCAD 3D (any version post-2012) + AutoFEM latest release (v3.1)
- Orca3D, ExpressMarine and AutoFEM licenses are provided free-of-charge to participants for the duration of the training, and extended one-month beyond
- AutoCAD 3D license is not provided and must be sourced by the participants (30 day trial license download from Autodesk web site is ok)

For more information or logistics questions, please contact ndar@ndar.com.
Looking forward to seeing you at the course,

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