

## Publication List

### *Performance Evaluation and Ranking of 7 Rudders for the Finn Dinghy*

A. Persson, L. Larsson, M. Brown and C. Finnsgård  
SSPA Sweden AB, Sweden, Chalmers University of Technology, Sweden

### *Investigation of Modern Sailing Yachts using a New Free-Surface RANSE Code*

K. Graf, J. Meyer, H. Renzsch and C. Preuß  
Univ. Applied Sciences Kiel, Germany, Fluid Engineering Solutions, Germany

### *Comparison of Hydrodynamic Performances of an Imoca 60' with Straight or L-Shaped Daggerboard*

L. Mazas, Y. Andrillon, A. Letourneur, P. Kerdraon and G. Verdier  
HydrOcean, France, VPLP, France, Verdier Architecture Navale, France

### *Hydrodynamics of Wind-Assisted Ship Propulsion Validation of Rans-CFD Methodology*

N.J. van der Kolk, J.A. Keuning and R.H.M. Huijsmans  
Delft University of Technology, The Netherlands

### *Unlocking Hydrofoil Hydrodynamics with Experimental Results*

J.R. Binns, A. Ashworth-Briggs, A Fleming, J. Duffy, M. Haase and M. Kermarec  
Australian Maritime College, University of Tasmania, Australia, Artemis Racing

### *Flexible Hydrofoil Optimization for the 35th America's Cup with Constrained EGO Method*

M. Sacher, M. Durand, E. Berrini, F. Hauville, R. Duvigneau, O. Le Maître, J.A. Astolfi  
Naval Academy Research Institute, France, K-Epsilon, France, Groupama Team France, Sirli Innovations, France, MyCFD, Université Côte d'Azur, INRIA, CNRS, France, LIMSI - CNRS, France

### *System-Based Modelling of a Foiling Catamaran*

B. Horel  
Ecole Centrale de Nantes, LHEEA, France

### *Velocity Prediction of Wing-Sailed Hydrofoiling Catamarans*

N. Hagemeister and R. G. J. Flay  
Yacht Research Unit, University of Auckland, New-Zealand

### *The Foiling Optimist*

A. Andersson, A. Barreng, E. Bohnsack, L. Larsson, L. Lundin, R. Sahlberg, E. Werner, C. Finnsgård, A. Persson, M. Brown and J. McVeagh  
Chalmers University of Technology, Sweden, SSPA Sweden AB, Sweden

### *Aerodynamic Analysis around a C-Class Catamaran in Gust Conditions using LES and Unsteady RANS Approaches*

A. Fiumara, N. Gourdain, V.-G. Chapin and J. Senter  
Assystem France, France, ISAE-Supaéro, France

### *Full Scale Pressure Measurements from SYL Navigation: an Upwind Case Study*

I. Bayati, S. Muggiasca, P. Schito, A. Vandone and M. Belloli  
Politecnico di Milano, Italy

### *Ship Towed by Kite in Waves: a Strongly Coupled System*

N. Bigi, J. B. Leroux, K. Roncin, A. Nême, C. Jochum and Y. Parlier  
ENSTA Bretagne, France, Beyond the sea, France

### *Modelling and Control of a Tethered Kite in Dynamic Flight*

B. Cadalen, F. Griffon, P. Lanusse, J. Sabatier and Y. Parlier  
Beyond The Sea, France, Bordeaux INP, IMS UMR 5218, France

### *Experimental Set up for Measuring Onshore and Onboard Performances of Leading Edge Inflatable Kites -Presentation of Onshore Results*

M. Behrel, K. Roncin, J.-B. Leroux, F. Montel, A. Nême, C. Jochum and Y. Parlier  
ENSTA Bretagne, France, Beyond the sea, France

### *Unsteady Aerodynamics of Downwind S-Turns in Small Boat Sailing*

R.R. Schutt and C.H.K. Williamson  
Cornell University, Ithaca, NY, USA

### *To Curl or not to Curl: Wind Tunnel Investigations of Spinnaker Performance*

N. Aubin, B. Augier, J. Deparday and M. Sacher  
Naval Academy Research Institute, France

### *The Leading-Edge Vortex of Yacht Sails*

I. M. Viola and A. Arredondo-Galeana,  
Institute of Energy Systems, School of Engineering, University of Edinburgh, UK

### *Large Eddy Simulation of Downwind Sailing*

S. Nava, J. Cater and S. Norris  
University of Auckland, New-Zealand

*Aerodynamics of a Highly Cambered Circular Arc Aerofoil: Experimental and CFD Investigations*

R.G.J. Flay, A. Piard and P. Bot

University of Auckland, New-Zealand, Ecole Navale IRENav, France

*Towards Unsteady Approach for future flutter calculations*

L. Mouton, A. Leroyer, G.B. Deng, P. Queutey, T. Soler, and A. Finkelstein

Bureau Veritas, France, Ecole Centrale de Nantes, LHEEA UMR-CNRS 6598, France, Farr Yacht Design, USA

*Fluid Structure Interaction Design Development of Passive Adaptive Composite International Moth Foil*

L. Marimon Giovannetti, J. Banks, M. Ledri, S.W. Boyd, and S.R. Turnock

University of Southampton, UK, Land Rover BAR, UK

*Racing Yacht Appendages Optimisation using Fluid-Structure Interactions*

R. Balze N. Bigi, K. Roncin, J. B. Leroux, A. Nême, V. Keryvin, A. Connan, H. Devaux and D. Gléhen

GSea Design, France, ENSTA Bretagne, FRE CNRS 3744, IRDL, France, Univ. Bretagne Sud, FRE CNRS 3744, IRDL, France

*An Analytical Approach to Estimate the Compressive Strength of Carbon Fibre Reinforced Plastics*

P.Y. Mechin, V. Keryvin, J.C. Grandidier and D. Glehen

Univ. Bretagne Sud, IRDL CNRS 3744, France, ISAE-ENSMA, Pprime CNRS 3346, France, GSea Design, France

## Poster List

*Hydrofoiling Catamaran Experimental Research Platform*

A. Ayan, T. Ballantine, J.Banks, S.W. Boyd, J. Carson, J. Diamond, F. Hayes, S. Jones, L. Marimont Giovanetti and A. Vose

University of Southampton, UK

*Hull – Furniture Interaction in the Primary Response to Global Loads of a Sailing Yacht*

D. Boote, G. Vergassola, S. Baldi and N. Fago

University of Genova, Italy, Naval Architect, Italy

*Hard Grounding of Large Sailing Yacht*

H. Conradi, H. Hoffmeister and S. Ehlers

Hamburg University of Technology, Germany, DNV GL, Germany

*The Paper Boat: Building a Composite Optimist Dinghy with Cellulose Fiber and Epoxy Matrix*

C. Finnsgård, M. Rigdahl, M. Brodin, G. Richardsson and G. Westmann

Centre of Sport and technology, Sweden, Chalmers University of Technology, Sweden, Royal Institute of Technology, Sweden

*Smart Coatings for Drag Reduction In Yachts*

B. Kidd, E. Balaras, M. Kashtalyan, I. M. Viola and T. I. Jozsa

University of Edinburgh, UK, University of Aberdeen, UK, George Washington University, DC, USA, International Paint Ltd., Felling, UK

*Rowing with and without Oars*

R. Labb, J.P. Boucher, T. Mouterd and C. Clanet

LadHyX, France

*AVS: A Framework for Parametric Models Setting Dedicated to Simulation of Racing Multihull Behavior*

E. Lavigne, G. Guillou and JP. Babau

Lab-STICC/UBO, France

*Integration of a Ducted Hydrogenerator in the Hull of the Maxi-trimaran Spindrift 2*

L. Mazas, D. Barcarolo, Y. Troalen and M. Michou

HydrOcean, France, Spindrift racing, France, Watt&Sea, France

*Bayesian Strategies for Simulation-based Optimisation and Response Surface Creation Using a Single Tool. Application to Hydrofoil Optimisation*

P. Ploé, R. Lanos, M. Visonneau and J. Wackers

Ecole Centrale de Nantes / CNRS / STREAMLINE, France

*New Methodology of Bending Fatigue Test and Slamming Test on PVC Foam Core Sandwich with GFRP Faces*

F. Alila, P. Casari, R. Gerard, J. Fajoui, M. Kchou and F. Jacquemin

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