TECHNICAL PROGRAM

The Chesapeake Power Boat Symposium
June 15-16, 2012
St. John's College, Annapolis, MD

Co-Sponsored by SNAME and *Professional BoatBuilder*

The Preliminary Technical Program for the upcoming Third Chesapeake Power Boat Symposium has been established! Following is a list of the papers that have been accepted for presentation.

The Effect of Bottom Warp on the Performance of Planing Hulls
Daniel Savitsky, Professor Emeritus, Davidson Laboratory, Stevens Institute of Technology, Hoboken, NJ

Evaluation of High-Speed Craft Designs for Operations in Survival Conditions
Frank DeBord, Karl Stambaugh, Chris Barry, Todd Hiller, Kirk Torstenson, Vincent Wickenheiser, and Eric Schmid, USCG Surface Forces Logistics Center, Baltimore, MD

A Look at the Impact of Filter Selection on Peak Identification of High Speed Craft Vertical Accelerations
Leigh McCue, Virginia Tech, Department of Aerospace and Ocean Engineering, Blacksburg, VA
Charlie Weil, Kelly Haupt, Don Jacobson, and Tim Coats, NSWC Carderock, Combatant Craft Division, Norfolk, VA
John Zseleczky, United States Naval Academy, Hydromechanics Lab, Annapolis, MD
Michael Riley, The Columbia Group, NSWCCD Det Norfolk, VA

Static and Dynamic Forces and Wetted Lengths for a Planing Hull Model Forced in Roll
Carolyn Q. Judge, United States Naval Academy, Annapolis, MD

Modeling of Vertical-Plane Motions of Tunnel Hulls
Christopher Chaney and Konstantin I. Matveev, School of Mechanical and Materials Engineering, Washington State University, Pullman, WA

A Simplified Approach for Analyzing Rigid Body Accelerations Induced by Wave Impacts in High-Speed Planing Craft
Michael Riley, The Columbia Group, NSWCCD Det Norfolk, VA

Measurement of Maneuvering Motion and Hydrodynamic Forces of a Planing Craft for Validation of a Maneuvering Motion Simulation in Model Scale
Toru Katayama and Tsubasa Hashimoto, Graduate School of Engineering, Osaka Prefecture University, Osaka, Japan
Akihiko Matsuda, National Research Institute of Fisheries Engineering, Ibaraki, Japan

Design, Construction and Testing of the Advanced Composite Riverine Craft
Tony Caiazzo, Materials Sciences Corporation, Horsham, PA
Sid Charbonnet, Seemann Composites, Inc., Gulfport, MS
Lou Codega, Naval Architect, Smithfield, VA

Composite Construction for Affordable Limited Production Boats; Not What You Might Think
Christopher D. Barry, USCG Surface Forces Logistics Center, Baltimore, MD

Practical Application of Interceptors on a Small Non-Planing Powerboat

Ron Grifka
Todd M. Hiller, U.S. Coast Guard, Baltimore, MD

M Ship's Rapid Empirical Innovation (REI) Open Water Model Test Platform
William Burns, T.J. Perrotti, Daniel Casal, and Johnny Smullen, M Ship Company, LLC, San Diego, CA
Chris Todter, Keppel Professional Services
John G. Hoyt, Naval Surface Warfare Center, Bethesda, MD

Turning Characteristics and Capabilities of High-Speed Monohulls
Jeffrey Bowles, Donald L. Blount & Associates, Chesapeake, VA

On Application of Parametric Method for Design of Planing Craft
Albert Nazarov, Albatross Marine Design Co., Ltd, Chonburi, Thailand

Development of Empirical Equations for Planing Craft Motions in Irregular Waves through Genetic Algorithms
Eric Giesberg and Raju Datla, Stevens Institute of Technology, Hoboken, NJ

Numerical Simulation of Planing Hull Hydrodynamics
Romain Garo, Raju Datla, and Len Imas, Stevens Institute of Technology, Hoboken, NJ

Behind the Scenes of Peak Acceleration Measurements
John Zseleczky, U.S. Naval Academy Hydromechanics Lab, Annapolis, MD

A Method for Computing Wave-Impact Equivalent Static Accelerations for Use in Planing Craft Hull Design
Michael Riley, The Columbia Group, NSWCCD Det Norfolk, VA

An Experimental Analysis of the Effects of Steps on High Speed Planing Boats
Gregory J. White and William E. Beaver, Naval Academy Hydromechanics Laboratory, Annapolis, MD

A Detailed Validation of *Numerical Flow Analysis* (NFA) to Predict the Hydrodynamics of a Deep-V Planing Hull

T.T. O'Shea, D. G. Dommermuth, K. Brucker, and D. C. Wyatt, SAIC
T.C. Fu, Naval Surface Warfare Center, Carderock Division

Optimized design of a SAR boat for the Royal Netherlands Lifeboat Institution
J A Keuning, Delft University of Technology, the Netherlands

For more information visit the Symposium website at www.powerboatsymposium.com.

At the previous Symposium in 2010, Dr. Daniel Savitsky was honored with a special biographical presentation. In 2012 we plan to continue this practice by recognizing another individual who has made significant contributions in the area of power boat design or construction.