

THE NINETEENTH CHESAPEAKE SAILING YACHT SYMPOSIUM



St. John's College
Francis Scott Key Auditorium
March 20-21, 2009
Annapolis, Maryland

PRESENTED BY

THE CHESAPEAKE SECTION OF
THE SOCIETY OF NAVAL ARCHITECTS
AND MARINE ENGINEERS

AMERICAN INSTITUTE OF AERONAUTICS
AND ASTRONAUTICS

US SAILING

SEVERN SAILING ASSOCIATION

THE CHESAPEAKE BAY
YACHT RACING ASSOCIATION

THE SYMPOSIUM

Begun in 1974, the biennial Chesapeake Sailing Yacht Symposium (CSYS) is widely regarded as the premier international forum for technical research concerning the design, construction and operation of sailing yachts. Over the years, CSYS papers have spanned a broad range of subjects, from reviews of the latest scientific techniques to discussions of design, construction and historical issues of interest to all yachtsmen. The nineteenth CSYS promises to continue this tradition of excellence with a strong program of papers by distinguished authors and sailing authorities.

The symposium is sponsored by the Chesapeake Section of the Society of Naval Architects and Marine Engineers (SNAME), the American Institute of Aeronautics and Astronautics (AIAA), US Sailing, Severn Sailing Association (SSA) and the Chesapeake Bay Yacht Racing Association (CBYRA). The symposium will be held at St. John's College in Annapolis.

"I have always considered the CSYS a leading source of useful guidance on yacht design, both technical and practical, and a great gathering spot for sailors and designers to exchange ideas."

Olin Stephens

"By nature designers are private. They like to keep their ideas to themselves. The Chesapeake Sailing Yacht Symposium is a rare opportunity to learn the secrets of these innovative people. The symposium allows sailing enthusiasts to understand the mysteries of theory with practical application."

Gary Jobson

REGISTRATION

To register, visit www.csysonline.com and follow the link to "Online Registration". Groups or companies registering should provide name/contact information for all attendees. Attendees who register after March 1st, 2009 will pay a \$25 late registration fee (this fee also applies to walk-in registrations on the days of the symposium).

The registration fee is \$90 for members of the sponsoring organizations (SNAME, AIAA, US Sailing, SSA and CBYRA) and \$100 for non-members. The registration fee provides a program, admittance to both days of the symposium and one set of proceedings. Attendees can choose either a paper or CD copy of the proceedings. Full-time students may register for \$25. Spouses or dependents of registrants may register for \$25, but will not receive a set of proceedings. No refunds will be made after March 1st, 2009. Extra copies of current and past proceedings, either paper or CD, will be available at the symposium for \$40 and \$20 respectively. When registering online, you may indicate which kind of extra proceedings you wish to purchase.

Additional information can be found by contacting Volker Stammnitz at Volker.Stammnitz@cdicorp.com or at the CSYS website:

www.csysonline.com

HOTELS/ACCOMMODATIONS

Local Annapolis accommodation and hotel discount information can be found on the CSYS website.

LUNCHEON

A catered luncheon will take place in the Key Auditorium foyer on Saturday at a charge of \$20/person. Please indicate if you would like to attend the luncheon when registering online. Seats may be limited.

DISCUSSION OF PAPERS

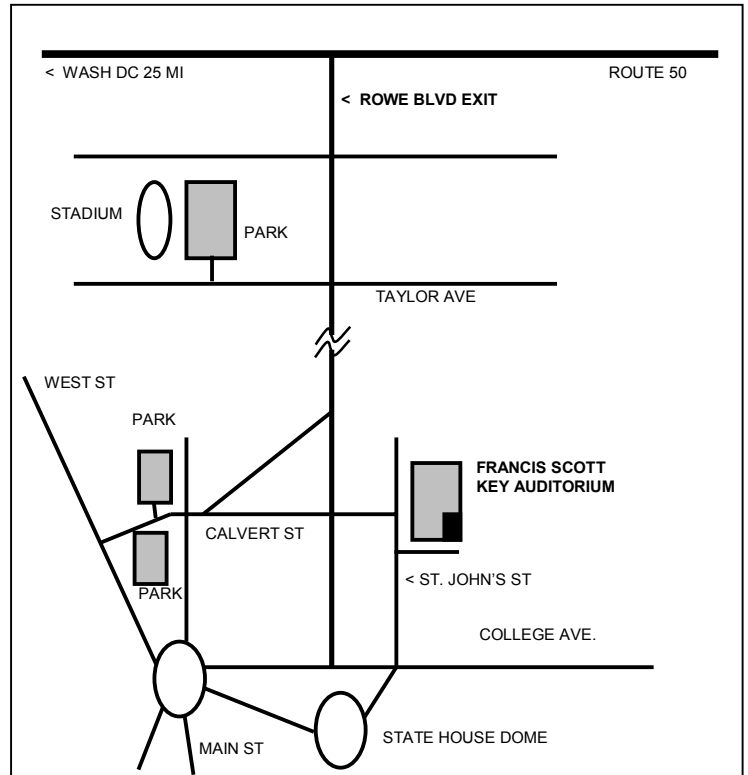
Papers will not be mailed in advance. Symposium attendees will be invited to offer discussions and questions at the end of each presentation.

BEST PAPER AWARD

The Richards T. Miller prize will be awarded to J.C. Miles, B. Johnson, J. Womack and I. Franzen, whose paper, "SNAME's Stability Letter Improvement Project for Passenger Sailing Vessels" presented at the 18th CSYS, was voted the most outstanding. The evaluation and selection was made by the Papers Committee and the Steering Committee. The paper was chosen on the technical excellence of its content and the clarity and appeal of the presentation. The presentation of the Miller prize will be made on Saturday morning.

LOCATION

Both the Friday and Saturday sessions will be held at the Francis Scott Key Auditorium, on the campus of St. John's College, in Annapolis, MD. Parking on Friday will be limited and is not allowed on the campus of St. John's College. Parking is available in one of Annapolis' nearby public parking facilities. The Auditorium is also a comfortable walk from many downtown accommodations. The Saturday evening cocktail party will be held at Severn Sailing Association.



SCHEDULE OF FEES

Attendees are welcome to register online at the CSYS website before the symposium. The fees are as follows:

Member (SNAME, AIAA, US Sailing, SSA, CBYRA)	\$90
Non-member	\$100
Student (full-time)	\$25
Spouse/dependent (proceedings not included)	\$25
Author (Saturday lunch included)	\$20
Saturday luncheon (per person)	\$20
Additional current proceeding (paper)	\$40
Additional current proceeding (CD)	\$20
Individual past proceeding (paper)	\$40
Individual past proceeding (CD)	\$20
Compilation of all previous proceedings (CD)	\$100
Late fee (registration received after March 1)	\$25

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FRIDAY, MARCH 20, 2009

SATURDAY, MARCH 21, 2009

REGISTRATION	8:00-9:00
MORNING SESSION	9:00-12:00
1.	CFD and VPP Challenges in the Design of the New AC90 Americas Cup Yacht – <i>K Graf, C. Boehm & H. Renzsch</i>
2.	A New Method for the Prediction of the Side Force on Keel and Rudder of a Sailing Yacht Based on the Results of the Delft Systematic Yacht Hull Series – <i>J. A. Keuning and B. Verwerft</i>
3.	CFD-Based Hydrodynamic Analysis of High Performance Racing Yachts – <i>L. Imas, B. Baker, B. Ward & G. Buley</i>
4.	On the Choice of CFD Codes in the Design Process of Planing Sailing Yachts – <i>J. Raymond, J-M. Finot, J-M. Kobus, G. Delhommeau, P. Queutey & A. Drouet</i>
LUNCH	12:00-1:30
AFTERNOON SESSION	1:30-4:30
5.	Systematic Series of the IACC Yacht "Il Moro Di Venezia": Heel and Yaw Analysis – <i>D. Peri, F. Di Cio & M. Roccaldo</i>
6.	Yacht Design Software 2.0: The Open Source Movement – <i>M. Bird, W. F. Cook, G. Hazen & B. Ward</i>
7.	Upwind Sail Performance Prediction for a VPP Including "Flying Shape" Analysis – <i>B. Maskew and F. De Bord</i>

REGISTRATION	8:00-9:00
MORNING SESSION	9:00-12:30
1.	Photogrammetric Investigation of the Flying Shape of Spinnakers in a Twisted Flow Wind Tunnel – <i>O. Mueller & K. Graf</i>
2.	Sails Aerodynamic Behavior in Dynamic Conditions – <i>F. Fossati & S. Muggiasca</i>
Richards T. Miller Prize Presentation	
3.	Assessing the Wind-Heel Angle Relationship of Traditionally-Rigged Sailing Vessels – <i>W. C. Lasher, D. R. Tinlin, B. Johnson, J. Womack, J. C. Miles, W. Rybka & W. Heerssen</i>
GUEST PRESENTATION: New Directions In High Performance Yacht Design – <i>B. Ward</i>	
LUNCH	12:30-1:30
AFTERNOON SESSION	1:30-4:30
4.	Development and Initial Review of the Mark II Navy 44 Sail Training Craft – <i>P. Miller, D. Pedrick & G. Schweikert</i>
5.	Tacking in the Wind Tunnel – <i>F. C. Gerhardt, D. Le Pelley, R. G. J. Flay & P. J. Richards</i>
6.	Full Scale Measurements on a Hydrofoil International Moth – <i>B. Beaver & J. Zseleczky</i>
7.	Alpha and Rocker - Two Design Approaches that Led to the Successful Challenge for the 2007 International C-Class Catamaran Championship – <i>S. Killing</i>
COCKTAIL PARTY	5:30-7:00