



FAST 2021 Call for Papers

FAST (International Conference on Fast Sea Transportation) is the premier global conference for high performance ships and craft and is of great interest to all who are engaged in researching, designing, building, and operating them. The objective in FAST 2021 is to bring together experts from around the world to present/exchange knowledge and network around the most comprehensive and latest information available on high-performance vessels and their technology.

Now a SNAME event, **FAST 2021** will be held 25-26 October 2021 in Providence, Rhode Island in the USA, ahead of the annual SNAME Maritime Convention. At this time and based on the current outlook for returning to live events post-COVID, FAST is being planned as an in-person, face-to-face event. Contingency plans are being made in the event we do not see the expected recovery and have to pivot to a virtual conference at a later date.

You are invited and encouraged to propose a paper for the FAST conference by submitting an abstract of 200 to 400 words to FASTconference@sname.org by 15 March 2021.

IMPORTANT DATES:

15-Mar-21	Deadline for Abstracts
15-Apr-21	Authors are Notified of Acceptance of Abstracts
15-Jul-21	First Drafts Due
15-Aug-21	Reviews Due Back to Authors
15-Sep-21	Final Papers Due

An advanced ship or craft is one offering capabilities well beyond what is achievable by conventional designs, which generally means significantly higher speed or significantly enhanced ability to operate in high waves. These higher levels of capability can be gained in a broad range of configurations: planing craft, fast multi-hull designs, hydrofoils, SWATH (small waterplane area twin hull) ships, WIG (wing-in-ground-effect) craft, air cushion vehicles/hovercraft, surface-effect ships, seaplanes—as well as hybrids of these and novel concepts not yet even envisioned. These tend to be relatively small, but a large ship that attains high speed or enhanced seakeeping, possibly by means of an unconventional hull form or appendages, is also included. Even in the smallest sizes, craft for personal and leisure use often break new ground, and they can also grow large over time.



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Some topics of interest for the conference include, *but are not limited to*:

- Novel configurations and concepts
 - Advances in foil supported craft
- Hull forms and hydrodynamics
- Propulsion systems
 - Application of electronic propulsion to fast craft
- Motions and maneuvering, control systems and devices
- Operational uses of fast ships and craft
 - Considerations for the development of the wind farm vessel fleet for service in the United States
- Structural design, materials, construction
- Design processes and tools
 - Application of artificial intelligence to the design of fast craft
- Modeling, simulation, analysis
 - Advanced computational techniques for resistance and seakeeping prediction
- Autonomous systems and operations
 - Advances in navigational autonomy
- Self-adaptive health monitoring for unmanned systems
- Environmental effects and mitigation
 - IMO Tier 3 and its impact on fast craft design
 - Alternative fuels and power sources
- Economics and the value of speed
- Risk, safety, survivability
- Classification and regulation

DEADLINE: 15 March 2021

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