

Call for Papers

IMAC-XXIX Conference and Exposition on Structural Dynamics

Advanced Aerospace Applications

Jan. 31 – Feb. 3, 2011



**Hyatt Regency Jacksonville Riverfront
Jacksonville, Florida USA**

~~Abstracts Due: June 1, 2010~~

Extended - Now Due June 15th

Submit Abstracts & Find Updated Details Online:

sem.org



Society for Experimental Mechanics



IMAC is organized by the
Society for Experimental Mechanics, Inc.
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IMAC-XXIX Conference and Exposition on Structural Dynamics *Advanced Aerospace Applications*



The IMAC conference theme highlights specific technologies of interest to the IMAC community. The theme for IMAC-XXIX is *Advanced Aerospace Applications*. Within the theme, questions to be addressed include: “What is the IMAC community doing for the aerospace sector?” and “What new challenges does the aerospace industry bring to the modal community?” Sessions will be developed in all areas of structural dynamics with applications to aerospace structures for both flight and space: modeling, vibration, control, identification, simulation uncertainty, model validation and verification, modal analysis and design, and testing. We also seek papers regarding aeroelasticity issues, hardware components (landing gear, etc), morphing aircraft, UAVs/MAVs as well as full sized aircraft, both military and civilian. Helicopter applications are particularly welcome. Satellite modeling and vibration issues are also of interest both in launch and in service modes.

POSSIBLE SESSION TOPICS:

- Aeroelasticity Analysis
- Rotorcraft Modeling and Testing
- Engine Vibrations
- Computational Models
- Verification and Validation Methods
- Validation Experiments

- Ground Testing
- Morphing Aircraft Structures
- Loads Analysis and Testing
- Structural Health Monitoring
- Satellite Modeling and Testing

For IMAC-XXIX we solicit your contributions as well as your help in continuing to develop sessions that feature the focus topics we have targeted for IMAC. Each of these topics has a standing committee that will work with you should you wish to develop session(s) in the following areas:

- Adaptive Structures
- Acoustics
- Biodynamics
- Bridges
- Damping

- Experimental Dynamics Substructuring
- Model Validation
- Nonlinear Systems
- Rotating Machinery
- Sensors and Instrumentation

- Shock and Vibration
- Sports Equipment Dynamics
- Structural Health Monitoring
- Turbine Blades
- Uncertainty Quantification

For more information about how to get involved and possibly develop a session based on one of the focus topics, please contact Tom Proulx (director@sem1.com).

The thematic and focus group topics are not the only areas which will be covered in the IMAC-XXIX Technical Program. The following topics have been the backbone of the IMAC Technical Programs and, as always, we invite your contributions in any of the areas listed below:

GENERAL TOPICS:

- Active Control
- Aircraft/Aerospace
- Analytical Methods
- Damage Detection
- Experimental Techniques
- Finite Element Techniques
- Modal Parameter Identification
- Modal Testing Methods
- Processing Modal Data
- Rotating Machinery
- Substructuring Methods
- System Identification

CIVIL STRUCTURES TOPICS:

- Bridge Monitoring
- Cable Dynamics
- Control Systems
- Correlation and Updating
- Damage Detection Models
- Experimental Techniques
- Modal Parameter Identification
- Modal Testing Methods
- Nonlinear Methods
- Structural Modeling
- Wind Tower Vibration

Location Information

IMAC-XXIX will be held at the Hyatt Regency Jacksonville Riverfront, in Jacksonville, Florida.

Hyatt Regency Jacksonville Riverfront

225 East Coastline Drive
Jacksonville, FL USA 32202
Phone: 904-588-1234
Fax: 904-634-4554



Rates: \$165+ Single/Double • \$190 Triple • \$215 Quad
(Taxes currently 14.13%)

The Hyatt Regency Jacksonville Riverfront is located in the heart of the downtown business, entertainment and sports district, adjacent to the Jacksonville Landing and the Times-Union Center for the performing arts, and within minutes of Jacksonville beaches and shopping. The hotel offers five dining and lounge options, a 24-hour fitness center, roof top swimming pool, and much more.

Submission Information

The IMAC Abstract and Paper Publishing process is completely electronic. All abstracts will be received electronically, as per the GUIDELINES online at sem.org. Accepted authors are expected to submit a paper for inclusion in the Proceedings. A CD-ROM Proceedings will be available for the IMAC-XXIX Conference.

Abstracts must be 200 words or less, and should not contain symbols, equations, graphs or figures.

Abstracts Due: ~~June 1, 2010~~ **Extended to June 15th

Acceptance Policy

Acceptance of a paper is based on the requirement of the author to present the accepted paper at the Conference. Failure to present, or to find a suitable substitute to present the paper will result in a fee assessment of \$250.00 to offset the cost incurred by the Conference of listing the paper in the Final Program and in publishing the Conference Proceedings. An author has until November 24, 2010 to notify SEM Headquarters that an accepted paper is being withdrawn.

Important Dates

June 1, 2010	Abstracts due to SEM
August 11, 2010	Authors notified, via email, of acceptance/rejection
October 1, 2010	Accepted authors are required to submit final paper electronically

IMAC-XXIX Exposition

If your company is interested in exhibiting at IMAC-XXIX in Jacksonville, Florida, please contact Joni Normandin: Phone 203-790-6373, Email joni@sem1.com.

View a list of 2010 Exhibitors on the Web: sem.org.

Who to Contact

IMAC is organized by the **Society for Experimental Mechanics, Inc.**
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