

Call for Papers

IMAC-XXVIII Conference and Exposition on Structural Dynamics

Structural Dynamics and Renewable Energy

February 1-4, 2010



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

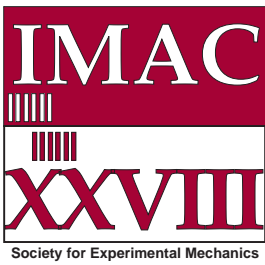
Abstract Due Date Extended – June 22, 2009
Submit Abstracts & Find Updated Details Online:
sem.org



Society for Experimental Mechanics



IMAC is organized by the
Society for Experimental Mechanics, Inc.
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IMAC-XXVIII Conference and Exposition on Structural Dynamics



Structural Dynamics and Renewable Energy

The theme for IMAC-XXVIII is Structural Dynamics and Renewable Energy. Our goal is to answer the question: “What can the IMAC community do for renewable energy”? Our intent is to focus on both large energy technologies such as wind turbines and small energy technologies such as energy harvesting for small electronics. We invite your submissions to sessions that will be developed in all areas of structural dynamics as it applies to renewable energy projects as well as specific applications of structural dynamics techniques such as modeling, vibration, control, identification, simulation uncertainty, model validation and verification, modal analysis and design to wind turbines.

SESSION TOPICS:

- Computational Models
- Control of Wind Turbine Blades
- Model Testing of Wind Turbines
- Validation Experiments
- Verification and Validation Methods
- Wind Turbine Blade Dynamics

TUTORIALS:

- Applications of Harvested Energy
- Electromagnetic Energy Harvesting
- Piezoelectric Energy Harvesting
- Structural Health Monitoring of Blades
- Other Renewable Energy

For IMAC-XXVIII 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
- Biodynamics
- Bridges
- Damping

- Model Validation
- Nonlinear systems
- Rotating Machinery
- Sensors and Instrumentation

- Shock and Vibration
- Sports Equipment Dynamics
- Structural Health Monitoring
- 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-XXVIII 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-XXVIII 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



The Jacksonville Landing

Rates: \$159+ Single/Double • \$184 Triple • \$209 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-XXVIII Conference.

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

Abstract Due Date Extended – June 22, 2009

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, 2009 to notify SEM Headquarters that an accepted paper is being withdrawn.

Important Dates

June 8, 2009	Abstracts due to SEM
August 11, 2009	Authors notified, via email, of acceptance/rejection
October 9, 2009	Accepted authors are required to submit final paper electronically

IMAC-XXVIII Exposition

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

View a list of 2009 Exhibitors on the Web: sem.org.

Who to Contact

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