

Announcement and Call for Papers

TWENTIETH SOUTHEASTERN CONFERENCE ON THEORETICAL AND APPLIED MECHANICS SECTAM XX

APRIL 16-18, 2000

Callaway Gardens
Pine Mountain, Georgia

Hosted by



College of Engineering
Auburn University
Auburn, Alabama

Important Dates to Remember

August 15, 1999	One-page abstracts due
September 15, 1999	Notification of acceptance of abstracts
October 30, 1999	Full-length papers due
January 15, 2000	Notification of acceptance of papers
February 15, 2000	Final versions of papers due
March 17, 2000	Preregistration deadline
March 17, 2000	Hotel registration deadline
April 16-18, 2000	SECTAM XX

<http://www.eng.auburn.edu/sectam>

*Plan now to attend and participate in the **Twentieth Southeastern Conference on Theoretical and Applied Mechanics SECTAM XX** hosted by Auburn University's College of Engineering. Beautiful Callaway Gardens in Pine Mountain, Georgia awaits you and your guests.*

About SECTAM

SECTAM conferences have been held biannually since 1962. The purpose is to stimulate interest in mechanics by providing an outlet for technical papers on the results of scientific and engineering research of both applied and theoretical nature. This is accomplished through publication, presentation and informal exchange of ideas. SECTAM is internationally recognized for its high quality presentations and proceedings.

Technical Program

Original presentations and papers are solicited in all areas of theoretical and applied mechanics and related fields. We welcome papers dealing with analytical, numerical, and experimental areas of mechanics, as well as works dealing with applications of mechanics. ***The program includes invited keynote speakers and a Student Paper Competition.***

Scientific Advisory Committee

F. P. Chiang, State University of New York, Stony Brook

Lothar Gaul, Institute A of Mechanics, University of Stuttgart, Germany

Alain Gerard, Universite Bordeaux 1, France

Jerry H. Ginsberg, Georgia Institute of Technology, Atlanta

Dan Inman, Virginia Polytechnic Institute, Blacksburg

W. Michael Lai, Columbia University, New York

Ali Nayfeh, Virginia Polytechnic Institute, Blacksburg

J. N. Reddy, Texas A & M University, College Station

A. J. Rosakis, California Institute of Technology, Pasadena

Conference Location

SECTAM XX will be held at beautiful Callaway Gardens in Pine Mountain, Georgia. Callaway Gardens, a man-made landscape in a unique natural setting, was conceived and created for the benefit of mankind. Its mission is to provide a wholesome family environment where all may find beauty, relaxation, inspiration, and a better understanding of the living world. Callaway Gardens is located 70 miles southwest of Atlanta, 30 miles north of Columbus, Georgia and 50 miles east of Auburn, Alabama. To see the many attractions and opportunities that await you, visit their web site at <http://www.callawaygardens.com>.



Topics of Interest

Papers are solicited in all areas of Theoretical and Applied Mechanics such as, but not limited to, the following:

- Solid Mechanics • Material Characterization and NDE • Advanced Materials • Computational Mechanics • Experimental Mechanics • Structural Reliability • Fracture Mechanics • Geomechanics • Impact Dynamics • Instability • Vibrations
- Adaptive Materials • Structural Dynamics and Control • Acoustics and Noise Control • MEMS • Mechatronics • Electronic Packaging • Fluid Mechanics • CFD • Multiphase Flows • Flow in Porous Media • Biomechanics
- Biomaterials • Surface Engineering • Heat and Mass Transfer • Manufacturing Processes

Instructions for Authors

Papers may be submitted for presentation only, or for presentation and publication in the archival Conference Proceedings. Consideration for presentation will be based upon abstracts only. Consideration for presentation and publication will be based upon abstracts and full-length manuscripts. All submissions should be sent to the Technical Program Chair and will be fully reviewed by the Editorial Committee.

Abstracts

Abstracts are required of all Conference contributors. Acceptance of an abstract constitutes approval to present your work at the Conference. Abstracts are limited in length to two single-spaced pages and should be prepared according to the illustrated example. They will be reproduced exactly as submitted in a soft-cover collection available at the Conference.

Full-Length Papers

Full-length papers will be reviewed for publication in the Conference Proceedings. Instructions for preparing full-length papers will be sent to the prospective authors.

Illustrated Example for Abstract Preparation

Start Page Here →

1"

**Title of the Summary Paper in Bold 14 pt Font
Using Caps and Lower Cases
Should be Centered in this Area**

Leave 3 Full Lines

Author's names, affiliations, complete addresses and phone, fax, and e-mail should be centered in this area using 12 pt font

1" 1"

Leave 3 Full Lines

Type text in 12 pt font with single line spacing. Leave double spacing between paragraphs. Figures and references may be included but should be clear enough for reproduction. The summary abstract must be limited to a total of two pages. Suggested font is Times New Roman or equivalent

Page Size 8 1/2 X 11 inches

1 1/4"

Submissions

Abstracts and full-length papers should be sent to the Technical Program Chair. An original plus three copies should be submitted according to the instructions and deadlines given.

Student Paper Competition

Those interested in the Student Paper Competition should submit an abstract of their work, along with a note of their intent to participate. Submissions of full-length papers are also required. All submissions must adhere to the Conference guidelines and deadlines.

Competition papers must be authored by students only. Faculty participation, if any, should be recognized in an acknowledgement. Authors of accepted papers will be instructed to prepare a complete manuscript for publication in the Conference Proceedings and are expected to present their work at the Conference.

Three top-ranked papers will be selected by a panel of judges, based upon reviews of the manuscript and evaluation of the oral presentation. All participants will be recognized. Authors of the top three papers will receive cash awards.

Registration Form

Twentieth Southeastern Conference on Theoretical and Applied Mechanics (SECTAM XX)

April 16-18, 2000

Please print or type; register one person per form; photocopy if more forms are needed.

Name _____ Title _____
 First MI Last
 Organization _____
 Mailing Address _____
 City _____ State _____ Country _____ Zip+4 _____
 Phone _____ Fax _____ E-mail _____
 Name Preferred on Badge _____

Registration Fees*	Early-bird (received by 3/17/00)	Regular (received after 3/17/00)	Amount Enclosed
Regular Participants	\$275.00	\$325.00	_____
Student Accompanied By Major Advisor+	\$100.00	\$125.00	_____
Student Not Accompanied By Major Advisor	\$275.00	\$325.00	_____
<i>+ Major Advisor must provide letter of authentication at the time of registration.</i>			
Additional Fees			
Additional Conference Proceedings	# _____ @ \$50.00 each		_____
Additional Banquet Tickets	# _____ @ \$50.00 each		_____
Additional Awards Luncheon Tickets	# _____ @ \$25.00 each		_____
TOTAL AMOUNT ENCLOSED			_____

I will attend the: Sunday Reception Monday Banquet Tuesday Awards Luncheon I prefer vegetarian meals

Payment Information

Check Enclosed (Payable to Auburn University in U.S. dollars and drawn on a U.S. bank)

Visa MasterCard Purchase Order

Card # _____ Expiration Date _____

Cardholder's Name _____ Signature _____

Registration and Cancellation

*The registration fee includes the Reception on Sunday, the Banquet on Monday, the Awards Luncheon on Tuesday, and break refreshments during the conference. The fee also includes a soft cover Book of Abstracts and Proceedings on CD-ROM. **Registration is not considered complete until payment is received.** There are three easy ways to register:

Mail a completed registration form to:
 Engineering Extension Service
 217 Ramsay Hall
 Auburn University, AL 36849-5331

Fax a complete form to:
 (334) 844-5715

Phone the Engineering Extension Service at
 1-800-446-0382 or (334) 844-4370 between
 the hours of 7:45 and 11:45 a.m. or 12:45
 and 4:45 p.m., Central Time, Monday
 through Friday.

The registration fee is not refundable if a registrant withdraws less than five business days before the conference. You may substitute registrants; please notify us in advance if possible. No-shows will be liable for the entire fee.

Lodging at Callaway Gardens

Participants are responsible for making their own lodging reservations. A block of rooms has been reserved at the Callaway Gardens Inn. The negotiated nightly room rate is \$99.00 plus tax. These rates are based on single or double occupancy and is available for the period from three days before and three days after the conference dates. The deadline for reservations is March 17, 2000. All rooms are subject to a one-time surcharge of \$13.00 per person for the length of stay up to seven days (\$6.50 per child ages six to twelve). This surcharge includes gate admission to Callaway Gardens and is optional.


About Auburn University

Auburn University, chartered in 1856, is located in Auburn, Alabama. The student body on the 1,871-acre main campus numbers more than 22,000 from throughout the United States and over 90 other countries. For more information about Auburn University, visit our web site <http://www.auburn.edu>.

The College of Engineering serves more than 3,100 students in its undergraduate programs and over 400 in the graduate programs. There are twelve fields of study taught by 127 faculty members. The College of Engineering had more than \$19 million in funded research activities during 1997-98. For more information about the College of Engineering, visit our web site <http://www.eng.auburn.edu>.

Auburn University is an equal opportunity educational institution.

Accommodation of Participants with Disabilities

 It is the policy of Auburn University to provide accessibility to its programs and reasonable accommodation for persons defined as having disabilities under the Americans with Disabilities Act of 1990. Please contact Engineering Extension Service at least two weeks prior to the conference so that proper considerations can be given to any special needs.

For Additional Information

General Conference Information

P. K. Raju
SECTAM XX Conference Chair
Auburn University
Dept of Mechanical Engineering
202 Ross Hall
Auburn University, AL 36849-5341
Phone: (334) 844-3301
Fax: (334) 844-3307
E-mail: pkraju@eng.auburn.edu

Technical Program Information

Hareesh V. Tippur
SECTAM XX Technical Program Chair
Auburn University
Dept of Mechanical Engineering
202 Ross Hall
Auburn University, AL 36849-5341
Phone: (334) 844-3327
Fax: (334) 844-3307
E-mail: htippur@eng.auburn.edu

Registration Information

elaine h. ridgway
Program Developer III
Auburn University
Engineering Extension Service
217 Ramsay Hall
Auburn University, AL 36849-5331
Phone: (334) 844-5720
Fax: (334) 844-5715
E-mail: eridgway@eng.auburn.edu

Visit the Web Site for Updated SECTAM XX information:
<http://www.eng.auburn.edu/sectam>



Callaway Gardens

Pine Mountain, Georgia 31822-2000

**CALLAWAY GARDENS
HOTEL REGISTRATIONS**

SECTAM XX (Southeastern Conference on Theoretical and Applied Mechanics)

April 16, 2000 - April 18, 2000

Please complete reservation form and return with one night's deposit by: March 17, 2000

Note: Rooms will not be held for SECTAM (Southeastern Conference on Theoretical and Applied Mechanics) after this date. Reservations will be taken on a space availability basis only.

Send to: CALLAWAY GARDENS P.O. BOX 2000 HIGHWAY 27 SOUTH PINE MOUNTAIN, GA 31822

Please indicate number of accommodations desired:

Callaway Gardens Inn:

_____ **\$99.00 + Tax, Per Inn Room,
Per Night, Based on Single or
Double Occupancy**

All rooms are subject to a one time surcharge of \$13.00 per person for the length of stay up to seven (7) days; \$6.50 per child 6-12 years of age. This surcharge includes gate admission to Callaway Gardens. (Optional)

Arrival date: _____ **Departure date:** _____

Last Name: _____ **First:** _____

Company name or affiliation: _____

Street address: _____

City: _____ **State:** _____ **Zip:** _____

Day Phone: (_____) _____

Name of roommate (if applicable): _____

NOTE: RESERVATIONS WILL NOT BE HELD WITHOUT A ONE NIGHT'S DEPOSIT.

Please enclose a check or money order, payable to Callaway Gardens, or you may apply the deposit to an American Express, Master Card, Visa or Discover card amount. Please indicate amount enclosed or account number. Credit card deposits will be processed upon receipt.

Deposit amount enclosed: _____

Credit card number: _____ **Expiration date:** _____

Signature: _____

Please Note: In the event of cancellation, deposits are fully refundable if notice of cancellation is received seven days prior to arrival.

4PM CHECK IN *** 12 NOON CHECK-OUT
NO PETS ALLOWED IN ACCOMMODATIONS
1-800-CALLAWAY
FAX: (706) 663-5090**