



Southeastern Section Newsletter

December 2003

Editor: Ken Brannan, The Citadel 843-953-5083 ken.brannan@citadel.edu

Fall Edition

2004 Spring Conference Update

Planning for the 2004 ASEE-SE annual meeting to be hosted by Auburn University's Samuel Ginn College of Engineering is well underway. Some 140 abstracts were submitted for consideration for publication and presentation at the conference,



the largest number of submittals received in recent years. The conference will be held at the Auburn University Hotel and Dixon Conference Center on April 4-6, 2004.

Focusing on new methods and tools that educators will need to best educate the next generation of engineers, the theme of the conference is "Educating Engineers for the Information Age." Technical sessions and workshops on the conference theme and many other aspects of engineering education, including instructional methodology, curricula issues, outcomes assessment, research and graduate programs, reten-

tion issues, ethics, technology in the classroom, accreditation, capstone design courses and projects, distance education, virtual classroom, use of multimedia and computers in the classroom, and continuing engineering education are being planned. Details on one workshop entitled "Bringing Theory and Practice Together in Engineering Classrooms" are included in this newsletter. Additional information regarding the conference may be found online at <http://www.eng.auburn.edu/conference/asee/>.

Auburn, Alabama promises to be an excellent location for the 2004 conference. A number of tourist attractions for shoppers, antique buffs, golfers, and those interested in boating, hiking, and fishing may be found in and around the Auburn area. Some of these are discussed in the Spring 2003 Southeastern Section Newsletter, which may be found on the Southeastern Section website (web address on this page).

ASEE Southeastern Section Outstanding Teaching Award

Overview. The Southeastern Section of ASEE is requesting nominations for the ASEE Outstanding Teaching Award. This award is intended to recognize faculty members who have demonstrated exceptional contributions to engineering or engineering technology education through outstanding classroom performance. The Southeastern Section award includes a \$500 honorarium and a certificate, which are presented at the Annual Section Meeting.

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ASEE Vision Statement

"ASEE will serve as the premier multidisciplinary society for individuals and organizations committed to advancing excellence in all aspects of engineering and engineering technology education."

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SE Section Web Address:

<http://cee.citadel.edu/asee-se/>

ASEE Southeastern Section New Teacher Award

Overview. The Southeastern Section of ASEE is seeking nominations for the Outstanding New Teacher Award. The award is intended to recognize a faculty member who has less than four years of teaching experience and who has demonstrated excellence in the classroom. The award will be presented at the annual section meeting.

The Award. The Award consists of a certificate and a \$250 check.

Qualifications. Candidates may be professors of any subject in an ABET/EAC or ABET/TAC curriculum. The teacher, as an individual, must:

1. Be an ASEE member.
2. Have been a full time instructor or professor of engineering or engineering technology no more than four years.
3. Possess and be able to communicate a broad and accurate knowledge of his or her subject area.
4. Possess self-confidence; create a feeling of harmony between self and students.
5. Possess a sense of proportion, stressing fundamentals and disregarding trivial details and give assignments that challenge students to think creatively.
6. Demonstrate an intense interest and enthusiasm for his or her subject area and the learning process that motivates students to their fullest capacities.
7. Teach a minimum of two semester courses or three quarter courses per calendar year.
8. Have considerable endorsement from students using both regular course evaluations and individual letters of recommendation.
9. Attend the annual Section meeting at which the cash prize and certificate are presented.

Nomination. A candidate for this award may be nominated by a colleague, department head or by students. Nomination should include, but is not limited to, the endorsement of nominee's department head and/or dean or chief academic officer responsible for engineering or engineering technology and curriculum vitae or resume that demonstrates the above qualifications. Submission of all supporting documentation should be sent by February 16, 2004 to the Chair of the Selection Committee at the address shown below.

*Peter Hoadley
Department of Civil Engineering
Virginia Military Institute
Lexington, VA 24450
Phone: (540) 464-7552
E-mail: Hoadley@mail.vmi.edu*

Thomas C. Evans Instructional Paper Award

Papers are solicited for the Thomas C. Evans Instructional Unit Award Competition for 2004. The award is given to the author or authors of the most outstanding paper pertaining to engineering education. The winning paper will be chosen from one of the following categories.

1. Unpublished papers submitted in response to this announcement.
2. Papers published in refereed journals during 2003.
3. Papers published in the Proceedings of the 2003 ASEE Southeastern Section Annual Meeting.

The award is for \$500 and will be presented at the 2004 Annual Section Meeting hosted by the Auburn University. The winning paper will be presented at the meeting and published in the 2004 Proceedings. Submit the completed paper as an e-mail attachment (in pdf format) no later than February 16, 2004, to the chair of the selection committee:

*Cecelia M. Wigal
University of Tennessee at Chattanooga
Phone: (423) 624-3639
E-mail: cecelia-wigal@utc.edu*

ASEE Southeastern Section New Faculty Research Award

Overview: The Research Unit of the Southeastern Section of the American Society for Engineering Education (ASEE) announces the *2004 Competition for Outstanding New Faculty Research Award*. The Section intends this award to recognize a faculty member who has less than six years of teaching/research experience and who has demonstrated excellence in both teaching and research. The Section presents this award at its annual meeting each spring.

The Award: The Section makes the following awards: a Medallion and a \$350 Cash Prize for the first place candidate, and a certificate and a \$150 cash prize for the second place candidate.

Qualifications: Candidates may be faculty in either ABET/EAC or ABET/TAC programs. The successful candidate must:

1. be an ASEE member.
2. be a full-time faculty member in either engineering or engineering technology.
3. possess a record of excellence in research and teaching at his/her institution.
4. possess a record of using research as a teaching mechanism in regularly scheduled courses.
5. have endorsements from colleagues and Department Head/Dean.
6. attend the annual section meeting at which the cash prize and certificate are presented.

Nomination: Colleagues, department heads, or students may nominate a candidate for this award. The nomination should take the form of a portfolio submittal. Nomination applications should include, but are not limited to, the endorsements of the nominee's department head, dean, and/or chief academic officer responsible for engineering or engineering technology, and curriculum vita or resume that demonstrates the above qualifications. Submit all supporting documentation before February 16, 2004 by forwarding it to the Chair of Selection Committee at the address shown below.

*Paul J. Wilder
Chair, Electrical and Computer Engineering
Indiana Institute of Technology
1600 East Washington Boulevard
Fortt Wayne, IN 46803
Phone: (260) 422-5561 x2225
FAX: 260-420-1453
E-mail: pwilder@indtech.edu*

Tony Tilmans Section Service Award

Nominations are solicited for the Tony Tilmans Section Service Award for 2004. The award is given to the member of the Southeastern Section who has rendered outstanding service to the Section. All members of the ASEE Southeastern Section are eligible for the award except the past president, president and president-elect. The past-president, president and president-elect will serve as the committee that will determine who will receive the award.

Any ASEE-SE member may nominate a candidate for the award. The nomination should include a one-page description of the service rendered to the Section. An electronic nomination consisting of a one-page description of the services rendered to the Section should be submitted to the Past President of the Section by February 16, 2004:

*Richard O. Mines, Jr., Ph.D., P.E.
Dept. of Environmental Engineering
Mercer University
1400 Coleman Avenue
Macon, GA 31207
Phone: (478) 301-2347
FAX: (478) 301-2166
E-mail: mines_ro@mercer.edu*

ASEE Southeastern Section Outstanding Mid-Career Teaching Award

Overview. The Southeastern Section of ASEE is requesting nominations for the ASEE Outstanding Mid-Career Teaching Award. This award is intended to recognize faculty members who have demonstrated exceptional contributions to engineering or engineering technology education through outstanding classroom performance. The Southeastern Section award includes a \$350 honorarium and a certificate, which are presented at the Annual Section Meeting.

Qualifications. Candidates may be teachers of any subject included in an ABET/CEAB accredited engineering or engineering technology curriculum. The teacher, as an individual, must:

1. Possess and be able to communicate a broad and accurate knowledge of the subject area;
2. Have been a full time instructor or professor of engineering or technology from 5 to 15 years;
3. Possess self-confidence, create a feeling of harmony between self and students, and be able to meet difficulties with poise;
4. Possess a sense of proportion, stressing fundamentals and disregarding trivial detail, and give assignments that challenge students, demanding thinking in the completion of assignments;
5. Demonstrate such an intense interest and enthusiasm for the subject area and for the enhancement of the learning process that students are motivated to their fullest capacities;
6. Be available for advising and counseling students before and after graduation;
7. Teach a minimum of two semester or three quarter courses per calendar year;
8. Have considerable endorsement from the students, using both regular course evaluations and individual letters of recommendation;
9. Attend the Annual Section Meeting at which the award is presented;
10. Possess a strong record of activity in ASEE or the educational activities of another professional society.

The teacher's contribution to the profession should include at least three of the following:

1. Participation in the development of courses or curricula;
2. Development of teaching equipment or development of a wider application of teaching equipment previously developed;
3. Contribution to the improvement of laboratories or other facilities;
4. Development or authorship of instructional materials or a text that enhances the student learning process;
5. Publication of original work, through any medium, that enhances the engineering education process or adds to the literature pertaining to teaching methodologies;
6. Service as a mentor to other teaching faculty or participation in the conduct of seminars and workshops that are focused on helping other teachers improve their classroom effectiveness.

Nomination. The person making the nomination (sponsor) must be an ASEE member. Nominations should include the endorsement of both the nominee's department head and the dean or chief academic officer responsible for engineering/engineering technology. The nominations may be made using the General ASEE Award nomination form (available at <http://www.asee.org/awards/nominationinfo/nomform.cfm>). A curriculum vitae or resume that demonstrates the above mentioned qualifications should be attached. Submissions should be sent by February 16, 2004, to the chair of the Selection Committee.

*Dr. Fazil Najafi
P.O. Box 116580
University of Florida
Gainesville, Florida 32611
Phone: (352) 392-9537 Ext. 1493
FAX: (352) 392-3394
E-mail: fnaja@ce.ufl.edu*

Spotlight on Auburn University - Host for 2004 ASEE-SE Conference

The Samuel Ginn College of Engineering at Auburn University is the largest engineering program in the state of Alabama, and ranks among the top 20 programs in the nation in terms of number of students graduating each year. Currently, 156 faculty instruct the almost 3,000 undergraduate and 700 graduate students enrolled in the 15 majors offered by the College. The faculty and staff take pride in the high quality of these students, who graduate with the hands-on skills and problem solving abilities that are needed to succeed in the modern workplace. Auburn Engineering's 30,000 alumni include three members of the prestigious National Academy of Engineering and well represented at NASA, with several astronauts and many senior administrators holding AU engineering degrees.

In addition to their teaching responsibilities, Auburn faculty are active researchers. The college receives more than \$30 million a year in research grants from both government and industry. Graduate and senior undergraduate students benefit from the many opportunities that

are available to engage in hands-on, cutting-edge research, both in the classroom and in national competitions. Auburn University teams regularly compete in the SAE Formula and Mini-Baja events, the American Solar Challenge car races and, in collaboration with the College of Architecture, Design and Construction, the Solar Decathlon competition with great success.

The College also has a reputation for innovation. Auburn was the first university in the nation to offer a bachelor's degree in wireless engineering and has the only programs in the state for pulp and paper engineering and fiber engineering, both of which support major industries in Alabama. Veteran astronaut Jim Voss, an Auburn graduate, recently joined the college as an associate dean for external affairs and is teaching a course in spacecraft design. The faculty and staff of the college have a clear vision for the future and look forward to the twenty-first century with confidence in its outstanding faculty, staff and students.

ASEE Southeastern Section Outstanding Teaching Award

Continued from page 1

Qualifications. Candidates may be teachers of any subject included in an ABET/CEAB accredited engineering or engineering technology curriculum. The teacher, as an individual, must:

1. Possess and be able to communicate a broad and accurate knowledge of the subject area;
2. Have been a full time instructor or professor of engineering or engineering technology for over 15 years;
3. Possess self-confidence, create a feeling of harmony between self and students, and be able to meet difficulties with poise;
4. Possess a sense of proportion, stressing fundamentals and disregarding trivial detail, and give assignments that challenge students, demanding thinking in the completion of assignments;
5. Demonstrate such an intense interest and enthusiasm for the subject area and for the enhancement of the learning process that students are motivated to their fullest capacities;
6. Be available for advising and counseling students before and after graduation;
7. Teach a minimum of two semester or three quarter courses per calendar year;
8. Have considerable endorsement from the students, using both regular course evaluations and individual letters of recommendation;
9. Attend the Annual Section Meeting at which the award is presented;
10. Possess a strong record of activity in ASEE or the educational activities of another professional society.

The teacher's contribution to the profession should include at least three of the following:

1. Participation in the development of courses or curricula;
2. Development of teaching equipment or development of a wider application of teaching equipment previously developed;
3. Contribution to the improvement of laboratories or other facilities;
4. Development or authorship of instructional materials or a text that enhances the student learning process;
5. Publication of original work, through any medium, that enhances the engineering education process or adds to the literature pertaining to teaching methodologies;
6. Service as a mentor to other teaching faculty or participation in the conduct of seminars and workshops that are focused on helping other teachers improve their classroom effectiveness.

Nomination. The person making the nomination (sponsor) must be an ASEE member. Nominations should include the endorsement of both the nominee's department head and the dean or chief academic officer responsible for engineering/engineering technology. The nominations may be made using the General ASEE Award nomination form (available at <http://www.asee.org/awards/nominationinfo/nomform.cfm>). A curriculum vitae or resume that demonstrates the above mentioned qualifications should be attached. Submissions should be sent by February 16, 2004, to the chair of the Selection Committee.

*Beth Todd
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E-mail: btodd@coe.eng.ua.edu*

**ASEE Southeast Section
Annual Conference
April 4 – 6, 2004
Registration Form**

Name: _____ **Position:** _____

Name for Badge: _____ Social Security # _____

Organization: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ email: _____

Registration fee includes all meals and sessions

Early Registration Fee:

___ \$195 if received on or before March 17, 2004

Late Registration Fee:

___ \$225 if received after March 17, 2004

Note: Cancel on or before March 17th to receive refund, less \$25 processing fee. After March 17th, no refund will be given.

Please indicate which meals you plan to attend:

___ Sunday Welcome Reception	___ Monday Awards Banquet
___ Monday Morning Breakfast	___ Tuesday Morning Breakfast
___ Monday Lunch	___ Tuesday Lunch

Spouse or guest tickets may be purchased:

___ Monday Lunch - \$20	___ Tuesday Lunch - \$20
___ Monday Awards Banquet - \$35	

Indicate Method of Payment:

\$ _____ Total Amount	Card# _____
___ Purchase Order # _____	Expiration Date: _____
___ Visa _____ MasterCard _____	Cardholder's Name: _____
___ Check (Payable to Auburn University)	

Hotel Information: (Make reservations by March 4th, 72 hour cancellation policy)

Auburn University Hotel and Dixon Conference Center
241 South College Street
Auburn, AL 36830
1-800-228-2876; 334-821-8200; www.auhcc.com; auhotel@auburn.edu

How to register:

By mail: Business and Engineering Continuing Education **By Fax:** 334-844-5715

217 Ramsay Hall

Auburn University, AL 36849

Email: bece@eng.auburn.edu

Internet: www.bece.auburn.edu

Phone: 1-800-446-0382 or 334-844-43

“Bringing Theory and Practice Together in Engineering Classrooms”

April 4, 2004 10:00 AM – 4:00 PM

Auburn University Hotel and Dixon Conference Center, Auburn, AL

Workshop seats are limited so register as soon as possible!

We invite you to attend the workshop, “Bringing Theory and Practice Together in Engineering Classrooms,” to be held at Auburn University Hotel and Dixon Conference Center, AL, April 4, 2004. This workshop is being organized in conjunction with the 2004 ASEE–SE Conference. This one-day hands-on workshop encourages engineering faculty members to experiment with innovative educational materials that prepare students for real-world problem-solving situations and train them in team building, interaction, and interdisciplinary skills. The educational materials in the form of case studies were developed by LITEE in partnership with industries. Each case study includes a real-world engineering problem supplemented with a multimedia component that brings the industry scenarios live into the classroom. In addition, faculty using this material will be provided with a teacher’s manual and instruction plan that describes how the innovative materials could be incorporated in your lesson plans.

The workshop will feature distinguished speakers!

Past workshops have been a great success. Some of the comments from the participants were:

Both content and organization among the best I have seen in education methodology...Presentations were excellent...It is a mind opener...Well organized...Enhances team building...Idea of E-Journal to evaluate and enhance meta-cognitive skills is excellent...Increase students’ quantitative problem solving.

This workshop is sponsored by the **Laboratory for Innovative Technology and Engineering Education (LITEE)** of Auburn University and the National Science Foundation. It has also been designated as an official dissemination channel for the National Academy of Engineering’s **Center for the Advancement of Scholarship in Engineering Education (CASEE)**. If you are interested in attending, please send the attached registration form as soon as possible. The registration fee of \$100.00 includes all instructional materials including CD-ROMs, meals and refreshments. For more information, please refer to: <http://www.auburn.edu/research/litee>

Co-Directors:

Dr. P.K. Raju
Thomas Walter Professor
Mechanical Engineering

and

Dr. Chetan S. Sankar
Thomas Walter Professor of Management
College of Business

Mail this registration and \$100 registration fee (payable to Auburn University) to:

**Janice Drummond, Department of Mechanical Engineering, 201 Ross Hall, drummje@eng.auburn.edu
Auburn University, AL 36849-5344, Phone: (334) 844-3360 Fax: (334) 844-3307**

A block of rooms have been reserved at the Auburn University Hotel for Saturday, April 4, 2004 and are available on a first come, first serve basis. Please contact the Hotel directly at 1-800-228-2876 or 334-821-8200 to reserve your room. Rooms not reserved by March 4, 2004 will be released for sale to the general public.

“Bringing Theory and Practice Together in Engineering Classrooms”

April 4, 2004

Registration Form

Full Name and Title: _____

Mailing Address: _____

E-Mail Address: _____ Phone #: _____ Fax #: _____

Campus Rep Corner

Greetings to Fellow Campus Reps:

As the end of the year approaches, I wish to take this opportunity to thank each and every one of you for your effort in assisting me in updating the Section's Campus Reps Database. This updated information has been forwarded to National, where it will be used on their Website to provide ready reference if you need contact information. In addition, your effort in promoting the forthcoming SE Section Conference in Auburn helped to garner over 140 abstract submissions, and help lay the groundwork for a successful upcoming conference.

One purpose of having Campus Reps is to offer members an avenue of communication within the organization. I am pleased to report that one Campus Representative, Dr. Stephen S. Melsheimer of Clemson University, posed a question to me earlier this Fall, and that was, "Why does the SE Section schedule its Conference and Annual Meeting so close to when National is also scheduled? Can the Section's dates be moved to some other time during the year?" I took this question to the Executive Board, which met in Atlanta on November 10 and 11. The Board considered this question, and after much discussion decided due to abstract and paper submittal constraints associated with the peer review process, that moving the conference date would be almost impossible. I wish to thank Dr. Melsheimer

for posing the question, and if you too have questions, please let me know.

To those of you who have taken time to prepare and submit your Campus Reps Annual Report as prescribed by National, many thanks. If you have your report and have not yet submitted it to National, please do so because this report is used as a basis for selecting the Section's Most Outstanding Campus Rep awardee.

In closing, please allow me to wish each of you a Happy Holiday, and a Wonderful New Year.

COL. Thomas R. Dion, P.E. & L.S.
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