



Southeastern Section Newsletter

December 2005

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Fall Edition

2005 Spring Conference Update



The University of Alabama, which opened in 1831 and began offering engineering classes in 1837, will be hosting the 2006 Southeastern Section meeting on April 2 - 4, 2006. Almost one hundred abstracts were submitted for consideration for publication and presentation at the conference. The conference will be held in the Bryant Conference Center on the University campus in Tuscaloosa, Alabama. Information regarding the conference, including registration information, may be found at the Section website (<http://cee.citadel.edu/asee-se/>).

The conference theme is "Best Practices in Engineering Education." Technical sessions and workshops on the conference theme and many other aspects of engineering education are planned. Preparations for the second annual student paper contest are being made



by the Research Division of the Section. Details of the contest, which was very popular with those attending last year's conference, are included in this newsletter.

Tuscaloosa, Alabama promises to be an excellent location for the conference. Campus attractions include the Paul W. Bryant Museum, the Moody Music Building, Denny Chimes, the President's Mansion, Gorgas House, and the Alabama Museum of Natural History. Attractions near Tuscaloosa include Moundville, the Mercedes-Benz Visitor Center and Museum, the Jemison Van de Graaff Mansion, the Children's Hands On Museum, the Battle-Freidman House and Gardens, the Old Tavern, and a Bama Belle Riverboat cruise on the Black Warrior River. See the Summer 2005 newsletter on the Section website for additional information on some of these attractions.

ASEE Southeastern Section Outstanding Teaching Award

Purpose

The Outstanding Teaching Award is intended to recognize faculty members who have demonstrated exceptional contributions to engineering or engineering technology education through outstanding classroom performance.

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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

Purpose

The New Teacher 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.

Award

The award includes a certificate and a \$250 cash prize, which are presented at the Annual Section Meeting.

Eligibility

Candidates must be an ASEE member and have been a full-time instructor or professor of an ABET/EAC or ABET/TAC curriculum for no more than four years. (A full-time instructor is defined by teaching a minimum of two semester courses or three quarter courses per calendar year.)

Nomination

A colleague, department head or student may nominate a candidate for this award.

Qualifications

The candidate must possess and be able to communicate a broad and accurate knowledge of his or her subject area, possess self-confidence, create a feeling of harmony between self and students, possess a sense of proportion, stressing fundamentals and disregarding trivial details and give assignments that challenge students to think creatively. The candidate must demonstrate an intense interest and enthusiasm for his or her subject area and the learning process that motivates students to their fullest capacities. The successful candidate must attend the annual Section meeting at which the cash prize and certificate are presented. The candidate'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.

Documentation

Applications should include any documentation necessary to demonstrate the candidate's qualifications for this award including, but not limited to, an endorsement of the candidate's department head and/or dean and/or chief academic officer responsible for engineering or engineering technology, endorsement from students using both regular course evaluations and individual letters of recommendation and a curriculum vita or resume. The nomination should be received by February 17, 2006. Mail nominations to:

Alice Y. Scales
ASEE-SE Vice President for Awards and Recognition
Graphic Communications Program
North Carolina State University
Raleigh, NC 27695-7801
Phone: (919) 515-1754
FAX: (919) 515-6892
E-mail: alice_scales@ncsu.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 *2006 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 \$250 cash prize for first place, and a certificate and a \$150 cash prize for second place.

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. have a documented record of excellence in research and teaching at his/her institution.
4. have a documented 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 17, 2006 by forwarding it to:

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ASEE Southeastern Section Outstanding Conference Paper

This award recognizes the most outstanding paper among those presented at the 2006 ASEE Southeastern Section Conference. The selected paper will then be sent to ASEE National for competition at the national level. The Section Award will be presented at the next annual meeting of the Section.

ASEE Southeastern Section Outstanding Mid-Career Teaching Award

Purpose

This award is intended to recognize faculty members who have demonstrated exceptional contributions to engineering or engineering technology education through outstanding classroom performance.

Award

The award includes a certificate and a \$350 cash prize, which are presented at the Annual Section Meeting.

Eligibility

Candidates must be an ASEE member and have been a full-time instructor or professor of an ABET/EAC or ABET/TAC curriculum from five to fifteen years. (A full-time instructor is defined by teaching a minimum of two semester courses or three quarter courses per calendar year.)

Nomination

A colleague, department head or student may nominate a candidate for this award.

Qualifications

The candidate must possess and be able to communicate a broad and accurate knowledge of his or her subject area, possess self-confidence, create a feeling of harmony between self and students, be able to meet difficulties with poise, possess a sense of proportion, stressing fundamentals and disregarding trivial details and give assignments that challenge students to think creatively. The candidate must demonstrate an intense interest and enthusiasm for his or her subject area and the learning process that motivates students to their fullest capacities. The candidate must be available for advising and counseling students before and after graduation. The successful candidate must possess a strong record of activity in ASEE or the educational activities of another professional society and attend the annual Section meeting at which the cash prize and certificate are presented. The candidate'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.

Documentation

Applications should include any documentation necessary to demonstrate the candidate's qualifications for this award including, but not limited to, an endorsement of the candidate's department head and/or dean and/or chief academic officer responsible for engineering or engineering technology, endorsement from students using both regular course evaluations and individual letters of recommendation and a curriculum vita or resume. The nomination should be received by February 17, 2006. Mail nominations to:

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ASEE Southeastern Section Outstanding Teaching Award

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Award

The award includes a certificate and a \$500 cash prize, which are presented at the Annual Section Meeting.

Eligibility

Candidates must be an ASEE member and have been a full-time instructor or professor of an ABET/EAC or ABET/TAC curriculum. (A full time instructor is defined by teaching a minimum of two semester courses or three quarter courses per calendar year.)

Nomination

A colleague, department head or student may nominate a candidate for this award.

Qualifications

The candidate must possess and be able to communicate a broad and accurate knowledge of his or her subject area, possess self-confidence, create a feeling of harmony between self and students, be able to meet difficulties with poise, possess a sense of proportion, stressing fundamentals and disregarding trivial details and give assignments that challenge students to think creatively. The candidate must demonstrate an intense interest and enthusiasm for his or her subject area and the learning process that motivates students to their fullest capacities. The candidate must be available for advising and counseling students before and after graduation. The successful candidate must possess a strong record of activity in ASEE or the educational activities of another professional society and attend the annual Section meeting at which the cash prize and certificate are presented. The successful candidate must attend the annual section meeting at which the cash prize and certificate are presented. The candidate'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

Documentation

Applications must include evidence of outstanding classroom performance using regular course evaluations and individual letters of recommendation from current and former students. The application may also include any other documentation necessary to demonstrate the candidate's qualifications for this award including, but not limited to, an endorsement of the candidate's department head and/or dean and/or chief academic officer responsible for engineering or engineering technology, endorsement from students using both regular course evaluations and individual letters of recommendation and a curriculum vita or resume. The nomination should be received by February 17, 2006. Mail nominations to:

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Phone: (919) 515-1754

Thomas C. Evans Instructional Paper Award

Purpose

The Thomas C. Evans Instructional Paper Award is given to the author or authors of the most outstanding paper pertaining to engineering education.

Award

The award includes a certificate and \$500 cash prize, which are presented at the Annual Section Meeting.

Eligibility

The author or authors must be members of ASEE.

Nomination

A colleague, department head or student may nominate a paper for this award.

Qualifications

The winning paper will be chosen from one of the following categories:

1. Unpublished papers
2. Papers published in refereed journals during in the previous calendar year
3. Papers published in conference proceedings in the previous calendar year

The successful candidate must attend the annual section meeting at which the cash prize and certificate are presented.

Documentation

The winning paper will be presented at the meeting and published in the Proceedings of the annual meeting of the Section. Five (5) copies of the completed paper should be submitted no later than February 17, 2006. Mail nominations to:

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Phone: (919) 515-1754
FAX: (919) 515-6892
E-mail: alice_scales@ncsu.edu

Tony Tilmans Section Service Award

Purpose

The Tony Tilmans Section Service Award is given to the member of the Southeastern Section of ASEE who has rendered outstanding service to the Section.

Award

The award includes a certificate and a \$200 cash prize, which are presented at the Annual Section Meeting.

Eligibility

All members of the ASEE Southeastern Section are eligible for the award except the past president, president and president-elect.

Nomination

Any ASEE-SE member may nominate a candidate for the award.

Qualifications

The nominee must be a member of ASEE who has rendered outstanding service to the Section. The successful candidate must attend the annual section meeting at which the cash prize and certificate are presented.

Documentation

The nomination should include a one-page description of the service rendered to the Section and submitted electronically. The nomination should be received by February 17, 2006. Send the nominations to:

Alice Y. Scales
ASEE-SE Vice President for Awards and Recognition
Phone: (919) 515-1754
E-mail: alice_scales@ncsu.edu

Student Poster Competition - Call for Abstracts
American Society of Engineering Education
Southeastern Section Conference
The University of Alabama
Tuscaloosa, AL
April 2-4, 2006

The Southeastern Section of the American Society of Engineering Education (ASEE) invites both engineering and engineering technology faculty to sponsor their undergraduate students to present a poster at the annual Section Conference. This is an opportunity for you to exhibit your pedagogical successes through your students' outstanding projects. Students may enter in the following categories:

- Freshman/Sophomore Engineering and/or Engineering Technology Design Teams
- Junior/Senior Engineering and/or Engineering Technology Design Teams
- Undergraduate Research

There is a tremendous amount of talent and creativity in the Section. You are invited to share your experiences with your colleagues, while at the same time recognizing your students and giving them the opportunity to:

- Practice their visual, written, and oral communication skills in a professional/conference environment
- Share their research/project work with students and faculty from other institutions

Additionally, it will:

1. Improve the visibility of student efforts,
2. Recognize excellence in student projects, and
3. Promote the sharing and exchange of ideas about team projects and undergraduate research amongst the members in the Section.

Application and abstract deadline: February 17, 2006

For more information on the abstract, application, and submittal instructions, go to:

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

and click on the Author Instructions link.

Upcoming Conferences

2006 ASEE Annual Conference and Exposition; June 18 - 21, 2006; Chicago, Illinois

2005 Conference for Industry and Education Collaboration (CIEC); January 24-27, 2006; San Antonio, Texas

2005 Frontiers in Education Conference (FIE), October 28-31, 2006; San Diego, California

Proposed Professional Skills Division

A new division, called "Professional Skills," is being considered for the ASEE Southeastern Section. The new division would be devoted to addressing issues related to the professional skills necessary to perform successfully in an engineering context. Those skills include but are not limited to the ability to function on multidisciplinary teams, the understanding of professional and ethical responsibilities, communicating effectively, the ability to engage in lifelong learning, the knowledge of contemporary issues, project management and other professional practice issues. Included in the division's responsibilities would be the review of articles pertaining to professional skills for publication in the Annual Proceedings of the Section and sponsoring sessions and workshops at the annual conference of the Section.

At the 2006 ASEE Southeastern Section Conference in Tuscaloosa, there will be a meeting of those interested in participating in the new division. The meeting is planned for Tuesday morning at breakfast, during the time set aside for divisional meetings. If you are interested in participating in the new division, please come to the breakfast or contact Peter Hoadley, Dept. of Civil Engineering, VMI, Lexington, VA 24450, Phone: (540) 464-7552, Fax: (540) 464-7618, HoadleyPW@vmi.edu.