

NEWSLETTER

OF THE ASEE GULF-SOUTHWEST SECTION

October 2014

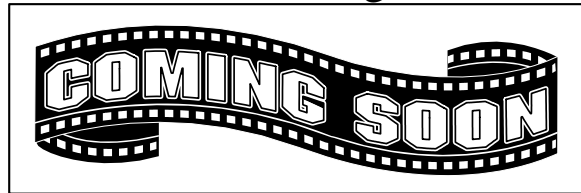


Welcome to another installment of the ASEE Gulf-Southwest Section Newsletter, which is issued annually. The Section had a wonderful meeting in New Orleans, Louisiana (hosted by Tulane University). The meeting location in the heart of the French Quarter could not be better. The hotel where the meeting was held and the food served were outstanding. The topics covered were truly informing and educating. The meeting was well attended with lots of attendees in sessions. I salute the organizers for their efforts to put an excellent product for all attendees.

The 2015 meeting (see more info below) is gearing up to be another excellent edition for our GSW Section. This conference comes when there is a lot of pressure nationally on higher education and we, the educators, need to come together and discuss these important issues affecting our profession. You also can't beat San Antonio and the River Walk in the spring ☺

Tariq Khraishi, Section Newsletter Editor

A Word from Program Chair



Upcoming section meeting:
The American Society for Engineering Education (ASEE)
The 2015 ASEE-GSW Annual Conference
Organized by the University of Texas at San Antonio

March 25-27, 2015
San Antonio, Texas

“Challenges Facing Engineering Education”

The 2015 ASEE-GSW Annual Conference is being organized by the University of Texas at San Antonio (UTSA), and will be held March 25-27, 2015, in San Antonio, Texas. The conference theme is “Challenges Facing Engineering Education”. Engineering and technology educators,

students, and industry professionals are invited to submit papers to the conference.

Papers are sought on a wide scope of engineering education topics, including:

- Recruitment and Retention
- Classroom Innovations
- Curriculum Innovations
- Laboratory Innovations
- Technology Adoption
- Learning Theories and Applications
- Accreditation
- Assessment and Evaluation
- Capstone Design
- Industry Perspectives and Collaborations
- Hybrid and Online Learning
- Simulation and Visualization
- Undergraduate Design Project Papers (student papers only)
- Undergraduate Research Papers (student papers only)
- Graduate Research Papers (student papers only)

Faculty authored papers must focus on engineering education, and must select one of the first 12 categories.

Student authored papers are primarily of a technical nature and must select one of the last three categories. Co-authors on student papers can be faculty, but the paper must be the primary work of student(s) and presented by student(s).

Timeline and Paper Submission Process:

- Nov. 3, 2014 Abstracts due
- Nov. 17, 2014 Authors invited to submit full papers
- Dec. 22, 2014 Full manuscripts due
- Jan. 12, 2015 Reviews complete
- Feb. 17, 2015 Final revised papers due
- Jan. 15, 2015 Early registration begins
- Feb. 28, 2015 Early registration ends
- March 1, 2015 Regular registration begins

Conference Website:

<http://engineering.utsa.edu/~aseegsw2015>

Section Officers

Past Chair: *(by default from previous position until June 2015)*

Lynn Peterson, PhD
Senior Associate Dean for Academic Affairs
College of Engineering
University of Texas at Arlington
Arlington, TX 76019-0019
Phone: (817) 272-5503
Email: peterson@uta.edu

Chair: *(by default from previous position until June 2015)*

Damir B. Khismatullin, Ph.D.
Associate Professor
Department of Biomedical Engineering
Tulane University
New Orleans, LA 70118
Office: 523 Lindy Boggs Center
Tel.: (504) 247-1587
Fax: (504) 862-8779
Email: damir@tulane.edu

Vice-Chair (Program Chair): *(for one-year term until June 2015)*

Randall D. Manteufel, Ph.D.
Associate Professor
Mechanical Engineering Department
The University of Texas at San Antonio
One UTSA Circle
San Antonio, TX. 78249-0615
(210) 458-5522
Email: rmanteufel@utsa.edu

Secretary/Treasurer: *(for three-year term)*

Vacant

Please nominate yourself or someone else to be a leader in organization this of long-standing ASEE Section.



Section Campus Rep: *(for three-year term until June 2015)*

Walter W. Buchanan
Thompson Chair Professor
Engineering Technology and Industrial
Distribution
107 Fermier Hall, 3367 TAMU
Texas A&M University
College Station, TX 77843-3367
Phone: (979) 845-4901
Fax: (979) 847-9396
Email: buchanan@entc.tamu.edu

Section Newsletter Editor: *(for three-year term until 2014)*

Tariq Khraishi
Professor
Mechanical Engineering Department
MSC01 1150
The University of New Mexico
Albuquerque, NM 87131
Phone: (505) 277-6803
FAX: (505) 277-1571
Email: khraishi@unm.edu

Section Awards Committee Chair: *(by annual appointment)*

Habib Mohamadian
Professor
Mechanical Engineering Dept.
Southern University & A&M College
Baton Rouge, LA 70813
(225) 771-4624 (office)
(225) 771-4877 (FAX)
Email: mohamad@enr.subr.edu

Section Nominating Committee and Resolutions Committee Chair: *(by annual appointment)*

Ronald E. Barr
Professor
Mechanical Engineering Department
University of Texas at Austin
Austin, Texas 78712
(512) 471-3008 (office)
(512) 471-7683 (FAX)
Email: rbarr@mail.utexas.edu

Section Webmaster *(by annual appointment)*

Terrence L. Chambers
Professor
Mechanical Engineering Department
University of Louisiana at Lafayette
P.O. Box 44170
Lafayette, LA 70504
(337) 482-6731 (office)
(337) 482-1129 (FAX)
Email: tlchambers@louisiana.edu

Section Archivist *(by annual appointment)*

Amir Karimi
Professor and Associate Dean of
Undergraduate Studies
Office of Undergraduate Studies
The University of Texas at San Antonio
One UTSA Circle
San Antonio, TX. 78249-0615
Phone: 210-458-5169
Fax: 210-458-5189

Email: amir.karimi@utsa.edu



Find Us on the Internet

You can find us on-line at the following URL:
<http://www.aseegsw.net/>

This link contains searchable proceedings from past Section meetings.



2013-14 ASEE-GSW Awards

@ the 2014 ASEE-GSW Section Annual Meeting

by Habib P. Mohamadian, Section Awards Committee Chair

- **Outstanding Service Award (Certificate and \$500):**
Not awarded
- **Conference Person-Mile Award (Traveling Trophy):**
University of Texas at San Antonio
6 attendees and a total mileage of 3,336.
- **Faculty Paper Awards**
 - **1st Place Award (Certificate and \$300):**
Malay Ghose-Hajra, Department of Civil and Environmental Engineering, University of New Orleans
“Project-based Education on Sustainability Principles for Engineers”
 - **2nd Place Award (Certificate and \$200):**
Terence Chambers, Department of Mechanical Engineering, University of Louisiana at Lafayette
“Creation of an International Engineering Student Exchange Program”
 - **3rd Place Award (Certificate and \$100):**
Jay Porter, Department of Engineering Technology & Industrial Distribution, Texas A&M University
“The Product Innovation Cellar: A Resource to Support Product Development in Engineering Technology”
- **Student Paper Awards**
 - **1st Place Award (Certificate and \$300):**
Tanner Perkins, Department of Engineering Technology & Industrial Distribution, Texas A&M University
“The Modular Integrated Stackable
- **Outstanding Campus Representative Award (Certificate):**
Not awarded
- **Outstanding Teaching Award (Certificate and \$500):**
Not awarded
- **Outstanding Young Faculty Award (Certificate and \$500):**
Not awarded

Layers System: A NASA Development Partnership”

- **2nd Place Award (Certificate and \$200):**
Madeleine Bodin, Department of Civil Engineering, University of Louisiana at Lafayette
“Using Coastal Louisiana to Develop Hydrologic Web-based Learning Modules”

3rd Place Award (Certificate and \$100):
Kristopher Meche, Department of Mechanical Engineering, University of Louisiana at Lafayette
“Alternative Energy in the Virtual World”

Awards Info

The Chair of the Section Awards Committee, Professor Habib Mohamadian, wants to share with Section members information regarding Section awards and nomination procedures below. This information should be kept on file if you anticipate making or getting a nomination.

ASEE Section Outstanding Teaching Award

This award is given by each ASEE section, with support, where possible, from local industry. The award, which focuses on outstanding classroom performance, recognizes teachers of engineering and engineering technology students and serves as an incentive to make further significant contributions to teaching.

The Award: The award consists of a certificate, prepared by ASEE National Headquarters, and

an appropriate honorarium, where possible, presented by the local section. Each section shall determine its own level of the honorarium and fund the honorarium from its Banking and Accounting Services System fund. Presentations are made at the section annual meeting with notation in the ASEE Annual Awards Banquet Program.

Qualifications: Candidates may be teachers of any subject included in an ABET/CEAB accredited engineering or engineering technology curriculum (including TAC/ABET). In addition to technical courses, subjects may include the humanities and social studies, mathematics and science.

The teacher, as an individual, must:

1. Possess and be able to communicate a broad and accurate knowledge of the subject area.
2. Possess self-confidence, create a feeling of harmony between self and students and be able to meet difficulties with poise.
3. Possess a sense of proportion, stressing fundamentals and disregarding trivial detail. Give assignments that challenge students, demanding thinking in the completion of assignments.
4. Demonstrate such an intense interest and enthusiasm for the subject area and for the enhancement of learning processes that students are motivated to their fullest capacities.
5. Be available for advising and counseling students before and after graduation.
6. Teach a minimum of two semester or three quarter courses per calendar year.
7. Have considerable endorsement from students, using both regular course evaluations and individual letters of recommendation as evidence.
8. Attend the section annual meeting at which the award is presented; and make a presentation at that meeting (or the following section meeting) to share some elements of his/her success as a teacher.
9. Possess a strong record of activity in ASEE or the educational activities of another professional society.

The teacher's contributions 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 material or a text that enhances the student learning process.
5. Publication of original work, through any medium, that enhances the engineering and engineering technology 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.

Outstanding Section Campus Representative Award

The Campus Liaison Board of ASEE has initiated this award in order to recognize those ASEE Campus Representatives who have achieved excellence in their roles as the Society's representative on campus. The ASEE Campus Representative acts as a liaison to help determine members' interests and reactions to Society programs and publications, to stimulate interest among the faculty in section and national meetings and to promote individual membership and involvement. This award is bestowed annually upon those ASEE Campus Representatives who have demonstrated staunch support for ASEE on their campuses.

The Award: The award consists of a certificate to the ASEE Campus Representative selected from each section and is presented at the section meeting.

Award Criteria: Nominees must have served ASEE significantly through active participation in the following areas:

1. Recognition of outstanding teaching and research activities on his or her campus by submitting ASEE award nominations

and support of the New Engineering Educators program.

2. Encouragement of faculty members to submit articles to ASEE publications.
3. Encouraging faculty members to submit papers for presentation at section and national meetings.
4. Promotion of individual membership in ASEE.
5. Encouragement of faculty attendance at section, division and national ASEE meetings.

Selection Criteria: Each ASEE Campus Representative should submit an annual form to his or her respective Section Campus Representative outlining ASEE activities on his or her campus. The form is found in the Campus Representative Manual. The appropriate Section Campus Representative will select the recipient of the award based on the evidence that indicates consistent and outstanding promotion of ASEE on campus according to the above award criteria.

Outstanding Zone Campus Representative Award

Each Section Campus Representative will forward to the respective Zone Chair the name of the Section Campus Representative Award recipient together with the appropriate documentation. The Zone Chairs will then select the recipients of the Outstanding Zone Campus Representative Awards.

The Award: The award consists of a plaque to be presented to the ASEE Campus Representative, selected by each Zone Chair, at the ASEE Annual Conference.

Best Paper Awards

Each year three awards are given to the best engineering education papers published and presented at the annual meeting of the ASEE-Gulf Southwest (GSW) Section. Awards in the amounts of \$300, \$200, and \$100 are given to the first, second and third placed papers, respectively. In addition certificates of recognition are presented to the authors of the

selected papers. In the case of co-authors, individual certificates will be presented, but the honorarium will be split among the number of authors. Award presentations are made at the Honors and Awards Luncheon of the ASEE-GSW section.

Qualifications: The paper must be presented by the author(s) at the annual meeting. The paper must be an original paper written specifically for and published in the Proceedings of the ASEE-GSW Section Annual Conference. It is permissible that the paper be of similar content to the papers written by the same author(s) for other conferences.

Selection: The members of the ASEE-GSW Section Awards Committee will select the best papers.

Outstanding Service Award

Purpose: To recognize a member who has demonstrated a long history of service to engineering education and/or the ASEE-GSW section.

The Award: The award consists of a \$500 honorarium and a certificate of recognition. Presentations are made at the section annual meeting with notation in the ASEE Annual Awards Banquet Program.

Qualifications: Any current or past member of GSW section with a distinguished record of service to engineering education and/or the ASEE-GSW section shall be eligible for this award.

Nomination: Any member of the section may nominate candidates for this award by preparing a nomination package that includes an ASEE General Award Nomination Form, candidate's curriculum vitae, and a nomination rationale statement highlighting the service to engineering education and/or the ASEE-GSW section. Supporting letters are recommended to strengthen the nomination but not required.

The selection will be made by the section Awards Committee. The nomination package should be mailed to the ASEE-GSW section Awards Committee Chair.

Section Campus Representative Report

The following is a summary of topics that might be useful to new Campus Representatives (CRs), prospective CRs, and the general membership.

What is a Campus Representative?

Campus Representatives serve as the liaison between ASEE Headquarters and faculty and students on campus. They play a vital role in recruiting new members, informing their colleagues about the ASEE meetings announcements, call for papers, and other ASEE activities. If you are a new CR or interested in becoming one, the ASEE Campus Representative Operating Manual provides useful information. This can be accessed through the following ASEE link: <http://www.asee.org/members/resources/campusRepOperatingManual.cfm>

Do you know if you are a Campus Rep?

To have a complete and accurate CR list on file for communication/information purposes, the following is requested:

- i) Check the following link to see if your college holds an ASEE institutional membership
<http://www.asee.org/members/organizations/oncampus/memberSchoolsBySection.cfm>
- ii) Check the following website to see if you or someone else from your institution is listed as a CR.
<http://www.asee.org/members/organizations/oncampus/campusRepsBySection.cfm#303>
- iii) If any corrections or updates are necessary, please contact your *own*

Dean's Office and ask them to contact the ASEE-membership department at membership@asee.org, (202) 331-3521.

Campus Representative Activity Report:

As a Campus Representative you are asked to submit a report each year to provide a summary of ASEE activities at your campus. The completion of this report is very simple. Typically, an electronic Activity Report form is sent to Campus Reps in August or September. If you don't receive the form, you may download this form from the following site:

http://www.asee.org/activities/organizations/campus/documents/CR_ActivityRpt06-07.doc. Most common activities are already listed on the form. You just need to mark those activities already implemented or planned for the future on your campus. The form also includes a section on reporting the Dean's actions. Consulting with the Dean in completing the form might also be very useful in gaining his/her support in conducting ASEE activities at your campus.

The deadline for submission of report is the 31st of October each year. One copy of the report should be sent to your Section Campus Representative and one copy to ASEE's Membership Department.

These reports are used to select the Outstanding Campus Representative for the Section. The reports from the winners of the Outstanding Campus Representatives from each section are given further consideration for the Outstanding Zone Campus Representative Award. The Outstanding Campus Representative Award is presented at the Annual Section meetings. The Outstanding Zone Campus Representative Award is presented at the Awards Banquet at the ASEE Annual Conference along with the Society's other national awards. Our GSW section winners have done well in the past winning the Outstanding Zone III

Campus Representative Award. Dr. Troy F. Henson from The University of Texas-Tyler received both awards in 2005.

Spread the Word: This membership promotional program is designed to encourage Campus Reps to spread the word about ASEE membership on their campuses. "The Deans Program" is designed to assist CRs in recruiting new members. Through this program new members can receive two years of free membership. If the Dean provides funds to cover the first year's membership cost, ASEE will waive the second year's membership fees. Each year during the Campus Representatives receptions at the ASEE Annual Conference awards are presented to the Campus Representatives that recruit the highest number of members and the highest percentage of members in their section.

ASEE-GSW Section Bylaws: The GSW Section Bylaws are posted on-line at our Section's website (<http://www.aseegsw.net/>)

Future ASEE-GSW Section Meetings:

The following institutions have volunteered to host future ASEE-GSW meetings:

2015	University of Texas at San Antonio (Randy Manteufel)
2016	GSW: OPEN
2017	GSW: OPEN
2018	GSW: University of Texas at Austin (Ron Barr)
2019	GSW: OPEN
2020	GSW: OPEN



If your institution is interested in hosting a future meeting in 2016, 2017, 2019, or 2020, please contact Ron Barr at rbarr@mail.utexas.edu. The meeting is usually held in mid-March to early April timeframe.



Let it be resolved that the Gulf-Southwest Section of the American Society for Engineering Education (ASEE) expresses its sincere appreciation to Tulane University for hosting our 2014 Annual Section Meeting here in historic New Orleans, Louisiana. In particular, we express sincere thanks to Dr. Damir Khismatullin for serving as Program Chair of the conference. We also want to thank Dean Nick Altiero for his strong support of ASEE and for his keynote address on Thursday morning. We also wish to express our gratitude to the Tulane University staff who contributed to the success of the meeting: Cindy Guedry, San Aung, Hongzhi Lan, Sabrina Lynch, and Hakim Murad.

Considering that the host city was New Orleans, let it be said that all attendees, from far and near, had a very good learning

experience during the day, and had a very good social experience during the night. Thus, we leave this wonderful town with full replenishment of mind, body, and soul, and a deeper understanding of the challenges and rewards of engineering education.

Finally, let this resolution be recorded on the permanent records of the Gulf-Southwest Section and be distributed to appropriate officers of the Society.

Respectfully Submitted on April 4, 2014

ASEE GSW Section Resolutions Committee

Ronald E. Barr

Dr. Ronald E. Barr, Committee Chair