Explore Tucson!

Register NOW! for the
Summer Bioengineering, Bioengineering, and Biotransport Conference 2017
Tucson, AZ
June 21 – 24, 2017
Online Registration Deadline: June 20, 2017

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Use the ACTIVE hyperlinks to navigate the PDF Newsletter:
Access Contents, Webpages, Emails
This June marks the end of my term as the chair of the Executive Committee of the Bioengineering Division of ASME. I will become the past chair and am leaving the committee in very capable hands to Ross Ethier from Georgia Tech. I wish to thank the Executive Committee for all their hard work. The committee includes: Ross Ethier (secretary and chair-elect), Jeff Holmes (secretary-elect), Tammy Haut-Donahue (treasurer), Frank Gijsen (international affairs), Rupak Banerjee (external affairs) Kris Billiar (technical affairs), Malisa Sarntinoranont (members affair), Laurel Kuxhaus (student affairs), and Richard Debski (member at large). This committee works with conference chairs on conference activities, journal editors on maintaining the strength of journals, technical committees on representing the bioengineering community, the honors committees on recognizing achievement, and ASME staff on maintaining close connection to ASME. This year, there has been a concerted effort to have the Bioengineering Division and ASME support the summer conference.

The Executive Committee would also like to announce the establishment of an ASME Bioengineering Fellows position to serve in Washington D.C. The program will begin accepting applications September 2017 with start dates in September 2018 or January 2019 for a one-year term. More information will be provided at this year’s Summer Biomechanics, Bioengineering and Biotransport Conference and IMECE.

This year, the Y.C Fung Young Investigator award has been renamed the Y.C. Fung Early Career Award. The restriction on age has been removed and only the years since the terminal degree remains as a restriction. Please see the ASME website for more information.

The 2017 Summer Biomechanics, Bioengineering and Biotransport Conference (SB3C, http://sb3c.org, June 21-24, 2017) will be held at the JW Marriott Starr Resort in Tucson, AZ. The meeting is organized under the non-profit SB3C Foundation, Lancaster, PA. The conference continues our strong tradition of scholarly exchanges, mentoring, and student participation. The ASME Bioengineering Division continues to have close ties with this summer meeting including open BED-related committee meetings. ASME BED award winners and fellows will also be recognized and honored at the SB3C meeting. I would like to acknowledge the extraordinary efforts of the leaders of the 2017 SB3C meeting, including conference chair Jeff Holmes, program chair Rob Mauck, information chair Laurel Kuxhaus, local arrangements chair Anna Grosberg, publication chair Steven
chair Matt Fisher, diversity chair Alison Marsden, student paper competition chair Spencer Lake, and finance chair Tammy Haut-Donahue. Their efforts along with the program committee, technical committees, and local arrangement committees continue the tradition of this very successful conference.

In 2018, the Summer Biomechanics, Bioengineering and Biotransport conference, will merge with the World Congress of Biomechanics in Dublin, IR (wcb2018.com). ASME will be a participating society in this World Congress. Richard Debski is the ASME liaison and Jonathan Van de Geest is the SB3C liaison.

I would like to thank Sara Wilson, our past chair, for her outstanding leadership of the Division as ASME and the SB3C Foundation continue to work together to support the summer conference. Sara has played many roles in the BED including technical committee chair, copyright chair for 2010 SBC, information chair for 2013, technical affairs representative to the Executive Committee, and representative to the ASME IMECE. Her input and experience were invaluable this past year.

I would like to acknowledge Art Erdman and Will Durfee on their excellent work on the Design for Medical Devices Conference held in Minneapolis, MN ever year. Next year will be the 16th year of this conference. Ahmed Al-Jumaily was the chair for the Biomedical & Biotechnology Engineering track at the ASME IMECE in November 2016 in Phoenix, AZ. For 2017, the event will be held in Tampa, FL. He has acted in this role for a number of years and we are grateful for his continued efforts to maintain the division activities at this conference. The successful ASME Nanoengineering in Medicine and Biology (NEMB) Conference is now a biennial event and is scheduled for Fall 2018 in Los Angeles. The steering committee includes John Bischof, Guy Genin, Michael Deem, Robert Griffin, and Sulin Zhang.

The ASME BED also supports through our volunteers, a number of ASME journals including the Journal of Biomechanical Engineering (editors: Beth Winkelstein and Victor Barocas), and the Journal of Medical Devices (editors: Rupak Banerjee and William Durfee). As of January 2016, ASME has suspended the publication of the Journal of Nanotechnology in Engineering and Medicine.

I would like to acknowledge our technical and education committee chairs for their leadership including Tammy Bush (Dynamics, Design, and Rehabilitation), Nichole Rylander (Biotransport), Rob Mauck (Tissue and Cellular), Jonathan Van de Geest (Solid Mechanics), Keefe Manning (Fluid Mechanics), Alisa Morss-Clyne (Education). Our volunteers are also critical on the selection committees of a number of ASME medals including the Y.C. Fung Medal, the Van C. Mow Medal, the H.R. Lissner Medal and the Savio L-Y Woo Medal. I would like to honor their service. Finally I would like to thank Wei Tan for her efforts as the BED newsletter editor.

In closing, it has been a privilege to serve you as the ASME BED chair.

Charles Lee, Chair
ASME Bioengineering Division
2016-2017
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<tr>
<th>Meeting Schedule</th>
<th>Location</th>
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<tr>
<td><strong>BED Committee Meeting Schedule, Wednesday, June 21</strong></td>
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<tr>
<td>BED Executive Committee*</td>
<td>Arizona 1</td>
<td>7:00-9:30 am</td>
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<td>SB³C Organizing &amp; Program</td>
<td>Arizona 1</td>
<td>9:30-10:20 am</td>
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<td>SB³C Conference Oversight*</td>
<td>Arizona 1</td>
<td>10:30-11:20 am</td>
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<td>New Directions</td>
<td>Arizona 2</td>
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<td>Education</td>
<td>Arizona 1</td>
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<td>Solid Mechanics</td>
<td>Tucson AB</td>
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<td>Biotransport</td>
<td>San Ignacio</td>
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<td>Design Dynamics and Rehab</td>
<td>San Ignacio</td>
<td>12:30-1:20 pm</td>
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<td>Cell and Tissue Engineering</td>
<td>Tucson AB</td>
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<td>Fluid Mechanics</td>
<td>Tucson CD</td>
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<td><strong>BED Committee Meeting Schedule, Thursday, June 22</strong></td>
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<tr>
<td>Open Executive Business Meeting</td>
<td>San Ignacio</td>
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<td><strong>BED Committee Meeting Schedule, Friday, June 23</strong></td>
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<tr>
<td>JBME Editors (with breakfast)*</td>
<td>Arizona 1</td>
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<td><strong>BED Committee Meeting Schedule, Saturday, June 24</strong></td>
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<td>Student Leadership Council Meeting</td>
<td>San Ignacio</td>
<td>11:00-11:50 am</td>
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<td>Industrial Advisory Board*</td>
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<td>12:15-1:45 pm</td>
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*Indicates Closed Meetings. All other meetings are open to all SB3C attendees. All meeting locations and times may be subject to change. Check the final SB3C 2017 program information on site.
On behalf of the 2017 Summer Biomechanics, Bioengineering & Biotransport Conference organizers, we invite you to attend to SB³C2017. The unbeatable combination of great biomechanics, amazing colleagues, and have the opportunity to lead a team of incredibly hard-working colleagues dedicated to continuing the rich SBC/SB³C tradition in 2017.

The theme of this year’s meeting is “Growth, Development, Remodeling, and Repair,” a dynamic and exciting area that has risen in prominence in recent years.

The Student Paper Competition is a traditional highlight of the meeting. This year, the BS and MS poster competitions will be featured on Thursday evening, and the PhD oral presentations will be Friday afternoon. The American Society of Mechanical Engineers (ASME) is sponsoring the competition, providing funding for the cash prizes, and both ASME and the National Science Foundation helped plenary lectures by winners of prestigious ASME awards: Kristin Myers from Columbia University (Y.C. Fung Young Investigator Award), Richard Neptune from the University of Texas (Van C. Mow Medal), Arthur Erdman from the University of Minnesota (Savio L-Y. Woo Medal), and Gerard Ateshian of Columbia University (H.R. Lissner Medal).

In addition to our Plenary and Award Lectures and regular technical sessions, there are a number of Workshops featured each day, including ‘How-to’ Sessions and a whole day focused on industrial interactions. Opportunities for social and networking interactions also abound.

In addition to the features familiar to those of you who have attended prior SBC/SB³C meetings, we are pleased to report that SB³C venue ever, and we hope you enjoy the beauty of the surrounding Saguaro National Park. For the time in the mornings, when temperatures are cooler and the desert is at its most beautiful. We are also proud that this is the biggest year ever for both the B.S. Student Paper Competition and the Diversity Travel Awards, thanks to a concerted

Gerard A. Ateshian (Columbia University)

is the winner of the Lissner medal for his contributions and inventions in the area of Musculoskeletal Biomechanics.
effort by the organizing committee and fantastic support from the National Science Foundation.

We would like to thank the National Science Foundation, the American Society of Mechanical Engineers, and the National Institutes of Health, for their generous support. Even more importantly, we would like to thank the many of you who played critical roles in organizing SB³C2017. The Conference Organizers, Program Committee, and Student Paper Competition Committee listed devoted an enormous amount of time and energy to this conference, but that was just the beginning: together with abstract reviewers and session chairs, more than 200 people helped make SB³C2017. We hope you enjoy it, and then join the team for SB³C2019. We'll see you at the Tequila Toast,

Jeff Holmes
Conference Chair

Rob Mauck
SB3C Program Chair

Go up high for a better view of your field at SB3C 2017!!
BEDrock CELEBRATES 15 YEARS IN THE HISTORY OF SBC

8-10PM, FRIDAY, JUNE 23, ANIA TERRACE

The rock-n-roll band made up of BED members and friends will be rocking a party! All are invited!
The Design, Dynamics, and Rehabilitation (DDR) Committee will hold its annual meeting from 12:30-1:20 pm, Wednesday, June 21st in Meeting Room II at the JW Marriott in Tucson, AZ. If you would like to become more involved in SB3C, come to this meeting! The DDR committee covers a wide variety of topics including human movement measurement and modeling, rehabilitation, medical device design, engineering for surgery, and robotics. At the committee meeting we will select theme leaders for next year’s meeting – these individuals will work with the Chair to obtain reviews of abstracts and organize sessions. Additionally, we will discuss workshops and special sessions for future meetings. Everyone with interest in design, dynamics, and/or rehabilitation is encouraged to attend, including post-docs, faculty members, and industry members. We also encourage regular member of other committees to attend.

DDR sessions include a Wednesday afternoon session (4:30-6) “Strategies to Improve Rehabilitation Treatments”; Thursday afternoon (2:15-3:45) “Measurement and Movement in Trauma”; and two sessions on Saturday, (2:15-3:45) “Experimental Modeling for Clinical Surgical Applications” and (4-5:30) “Surgical Device Design Applications”.

DDR Vice Chair, Michael Moreno, also organizes the Undergraduate Design Competition which is an NSF sponsored event Friday 4:00-5:30. The devices these undergraduates are developing are truly amazing! We will recruit judges for the competition at our meeting as well – this is one more way you can become involved! Contact me if you have questions or would like to be on the DDR e-mail list (3-4 e-mails a year): reidtama@egr.msu.edu.

Enjoy the summer activities between sessions at SB3C 2017!
The Cell and Tissue Engineering (CTE) Technical Committee is looking forward to our annual gathering at the upcoming Summer Biomaterials, Bioengineering and Biotransport Conference (SB3C). The conference will be held June 21 – 24, 2017 at the JW Marriott Tucson Starr Pass Resort & Spa in Tucson, Arizona. The CTE Technical Committee will be well represented at the meeting, whose overall theme is: “Growth, Development, Remodeling, and Repair”. The meeting a whole includes a broad range of plenary lectures, symposia, and workshops related to the overall theme, with many of these sessions and workshops developed by our committee members. Overall, nearly 50 reviewers evaluated the >100 abstracts that were submitted to our track, with 9 technical sessions and 3 poster sessions programmed directly from these meritorious submissions.

Our primary Technical Sessions include:

- Regulators of Cellular Mechanotransduction
- Micro-Engineered Physiological Systems (Wednesday)
- Microenvironmental Control of Tissue Formation and Cell Function (Wednesday)
- Disease Models and Engineered Therapies (Thursday)
- Mechanical Regulation of Remodeling and Repair (Thursday)
- Therapeutic Materials for Repair and Regeneration (Thursday)
- Mechanical Regulation of Morphogenesis (Friday)
- Measuring and Modeling Cell Mechanics and the Microenvironment (Saturday)
- Multi-Scale Measures and Models of Engineered Materials and Tissues (Saturday)

CTE members also contributed to a Special Session, on Wednesday afternoon, in celebration of Larry Tauber, entitled “Growth and Remodeling in Development and Disease”.

On Friday, be sure to check out the CTE-sponsored Workshop entitled “Additive Manufacturing and Biofabrication in Mechanobiology”.

Also on Friday, be sure to check out our excellent PhD Student Paper Competition Finalists, who are scattered across the podium sessions, and especially well represented in the sessions entitled:

- Cellular Mechanics and Mechanobiology
- Disease, Injury, and Remodeling
- Biomaterials and Material-Cellular Interaction

Be sure too to check out the Plenary Lecture from Professor L. Mahadevan of Harvard University entitled “On growth and form – geometry, physics and biology” on Friday.

We also co-sponsored (with Solids) two Technical Sessions and one Workshop on Saturday focused on tendon structure, mechanics, repair, and regeneration

- Workshop: From Bench to Bedside – Mechanics, Materials, and Metrics for Tendon Repair and Regeneration

Most ASME Bioengineering Division committee meetings will be held Wednesday, June 21. See page 4 for information on times and locations.
SOLID MECHANICS

The Solid Mechanics committee will hold their annual meeting at the 2017 Summer Biomechanics, Bioengineering and Biotransport Conference on Wednesday, June 21, 2017 at 11:30 AM in the room Tucson AB. We are always looking for people who want to get involved - reviewing abstracts, chairing sessions, organizing workshops - so please join us at this gathering for an overview of our contributions to SB3C2017 offerings and a discussion of our participation for next years conference (as a part of the 2018 World Congress of Biomechanics in Dublin Ireland). If you want to get involved but cannot attend the meeting, please email me (Jonathan Vande Geest, Solids Chair - jpv20@pitt.edu).

Jonathan Vande Geest
Committee Chair, 2016-2019

The conference venue — JW Marriot Tucson Starr Pass Resort & Spa
**FLUID MECHANICS**

The annual Fluids Committee meeting will be held on Wednesday, June 21st at the SB3C meeting at the JW Marriott Star Pass Resort & Spa. The specific time and location has not been announced, but please review the SB3C just prior to flying out to Tucson. Please join us as we are always looking for more to get involved by reviewing abstracts, chairing sessions, providing feedback, and/or organizing workshops. Our meeting is always open to anyone interested in discussing our plans for programming at future meetings including session and workshop topics. If you are unable to attend but would like to get involved, please contact me at kbm10@psu.edu.

At this year’s summer meeting, we will have 9 podium sessions including talks on aneurysms, atherosclerosis, pediatrics, imaging, thrombosis, and more. As always, beyond attending the podium sessions, please walk through the poster sessions and engage those participants. In addition to the podium and poster presenters, we have one workshop this year. The workshop is entitled, “Medical Imaging for Physiological Flows,” and meets on Friday, June 23rd from 11am-12:30pm in the San Luis Room. The workshop will have speakers from academia covering different imaging techniques. I would like to thank Alejandro Roldán-Alzate for organizing this workshop. We also have a “How to” session to learn how to use Simvascular and I would like to thank Alison Marsden and Shawn Shadden for organizing this session.

Finally, I would like to thank Alison Marsden (Vice-Chair and Theme Leader), Bryn Martin (Theme Leader), and Jessica Oakes (Theme Leader) for overseeing the abstract review process and recruiting reviewers. I also thank the many reviewers for taking time to participate in the process to ensure we have a strong program in fluids. I look forward to seeing everyone there. If you are unable to attend, we hope to see you at the 8th World Congress of Biomechanics in Dublin, Ireland from July 8-12, 2018.

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**Encourage Students and Postdocs to GET INVOLVED with BED Leadership**

**SB3C 2017 authors:**

Please **nominate your students** for our **Student Leadership Committee**. The purpose of this committee is to aid students in gaining leadership experience and to facilitate planning and execution of student events for upcoming conferences and other local/virtual programs.

The students need to commit to a one-year term including coming to SB3C 2017 and attending a one-hour planning meeting at SB3C. Please send your nominations to Lauren Kuxhaus (lkuxhaus@clarkson.edu). The nomination should include a short paragraph about the student in the body of an email indicating why the student is suitable for a position on the committee. We envision the committee consisting of about 10 graduate students, but committed undergraduate students are welcome as well.

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**Postdocs are encouraged to join our technical committees.**
BIOENGINEERING DIVISION ADMINISTRATIVE COMMITTEES

The BED has four administrative committees: Education, Honors & Awards, Membership, and New Directions. Additionally, the BED selects representatives to other bioengineering organizations and to committees within ASME. Within ASME, the BED has representatives to the Thurston Award Committee, the ASME annual meeting (IMECE), and the Engineering Sciences Segment. Beyond ASME, the BED typically has representatives to the American Institute for Medical and Biological Engineering and the U.S. National Committee on Biomechanics.

Reports from these committees and representatives follow.

EDUCATION COMMITTEE

The Bioengineering Division Education Committee will present a podium session, a poster session, and a workshop at this year’s SB3C meeting. The podium session, which will take place on Thursday June 22nd from 12:30 pm - 2:00 pm, will feature new approaches to Active Learning in Biomechanical Engineering Education. The poster session will highlight biomechanics education programs ranging from outreach to computational tools in the classroom. Last but not least, the education workshop “Using MATLAB in Biomedical Engineering Education and Research” on Saturday June 24th from 12:30 – 2:00 will feature Dr. Richard Hart sharing his experiences with a course on “Numerical Simulations in Biomedical Engineering,” followed by Dr. Balaji Sharma from MathWorks covering MATLAB topics such as project-based learning with low-cost hardware, modeling and hardware implementation for biomechanics, as well as interactive Live Scripts, autograding, and the App Designer. This workshop is appropriate for participants at all levels, from undergraduates to seasoned professors. Thank you to the Education Committee co-chair, Ferris Pfeiffer, as well as the other members of our workshop planning committee: Rouzbeh Amini, Corinne Henak, Joseph Iaquinto, Anita Singh, Sara Wilson, and Ye Cheng (Mathworks).

If you are passionate about bioengineering education and interested in becoming more involved with the Bioengineering Division and SB3C, please come to the Education Committee meeting at SB3C on Wednesday June 21st. We will discuss future SB3C workshops and ideas to develop resources and programming to enhance bioengineering education.

See you in Tucson!

Alisa Morss Clyne, Chair
BED Education Committee

Committee meetings: Time for reflection and refreshing

(Continued on page 12)
At the New Directions Committee held at the SB³C in 2016, we discussed and approved a proposal to establish a “global biomechanics wiki” that will act as a Biomechanics Modeling Wiki (BMW). It is hoped that this will become a comprehensive multi-disciplinary library of computational models & data coupled with a database of experts. The plan is to have data entered as wiki entries and moderated blogs. The present format includes:

Objective: Develop a comprehensive multi-disciplinary library of computational models, data, and expertise.

Format: Online Wiki entries and moderated blogs

Coordination with community: start with ASME BED, add BMES, ESB later on.

Industry outreach: industrial partner program

Regulation/guidance: NIH, FDA, ISO

Collaboration with BME journals: introduce a mechanism for data submission as supplementary materials

Site Technologies. Currently, the site is built on the Python Programming Language using its web framework, Django. The data models are stored in the database using PostgreSQL. A popular JavaScript library, Angular.JS, is being used to implement dynamic features to the site as well as data interaction features. Every web view loads the necessary components to serve its functions.

At this time, a greater section of the Biowiki has been developed (Figure 1). Of particular interest to BED members will be the Expertise Database Module. Users can create their own expertise entry with a list of fields to fully describe the expertise of the user. The entries are searchable and indexed. An expertise entry is similar to a user profile.

We are coordinating with ASME and BED to establish the BMW as part of a larger ASME effort and to secure stable funding.

Michele Grimm, Chair
New Directions Committee

Figure 1 – Current home and expertise database pages of the BioMechanics Wiki.
Join for FREE
The Alliance of Advanced Biomedical Engineering (AABME) is an ASME initiative bringing together practitioners in the growing discipline of biomedical engineering – across industry, research, academia, government, and more – to support growth, innovation and collaboration. We provide cutting edge content, tools and resources to address the specific needs of the biomedical engineering community. Check out the latest updates at www.aabme.org.

Join the Alliance and Gain Access to These Exclusive Offers
- Subscription to the AABME Technology and Industry Updates market insights newsletter
- Access to a curated biomedical engineering topic within ASME’s Digital Collection, which includes articles, journal papers, or conference papers (plus you’ll get 10 free – a $250 value)
- Exclusive access to bioengineering white papers designed to keep you up-to-date with applied solutions
- Discounts to select ASME biomedical engineering-related conferences

How Can You Get More Involved?
We’re looking to expand our network—from biologists to engineers and everything in between—and build our depth of expertise. That’s where you come in. If you’re interested in getting involved, contact aabme@asme.org, so we can begin the dialogue.

Don’t delay! Visit www.aabme.org today!
The 2017 SB3C will again feature a large number of student participants as presenters and attendees.

In addition to the students featured in the BS-, MS- and PhD-level Student Paper Competitions, the Undergraduate Design Competition, and those presenting their research, there are a number of student-specific events planned for both social and professional development. Many of these activities are organized by the ASME Bioengineering Division student leadership committee (SLC). The SLC was formed at the ASME Summer Bioengineering Conference in 2013, as a way to involve students through both social and informative events. Since then, the SLC has regularly contributed to our conference programming and organization.

If you would like to join the SLC, please ask your advisor or other faculty member to nominate you. Nominations should include a short note of recommendation, your resume (or CV), and a brief personal statement from you about your motivation to join the SLC. We encourage nominations to be sent via email to Laurel Kuxhaus (lkuxhaus@clarkson.edu) by 5pm EDT on Friday, June 16th.

Laurel Kuxhaus, Chair
BED Student Affairs

Update from the Student Leadership Committee:
In preparation for the 2016 conference, the SLC was formally structured in to three sub-committees to plan and execute a social activity, a “Career Networking Mixer” event and a workshop titled “Communicating Science” for the Summer Biomechanics, Bioengineering and Biotransport Conference (SB3C) that was held in National Harbor, MD. Due to its success and popularity, this year’s SLC has organized a workshop for “being a pro” as a graduate student, a social hike event and a career networking event for the SB3C in Tucson, AZ.

Our workshop titled “Grad School Pro Tips - Responsible Conduct in Science” will be held on Friday, June 23, 2017 between 11:00 am and 12:30 pm at the SB3C Conference site Tucson IJ. Drs. Sara Wilson (University of Kansas), Michele Grimm (NSF and Wayne State University) Robert Nerem (Georgia Institute of Technology) and Jeffery Holmes (University of Virginia) have committed to be the panelists for the workshop. This workshop will be moderated by Dr. Kristian Valen-Sendstad (Simula Research Laboratory, Norway). This workshop will enable the students to conduct science responsibly and cover a variety of topics including conduct in computational modeling, peer review, authorship etc.

The “Student Networking Mixer” event is co-hosted by the SLC and the Industry Advisory Board (IAB) is scheduled for Friday, June 23, 2017 between 6:45-7:45 pm at SB3C Conference site Arizona 3-5. For this event, the SLC and the IAB have invited academics attending the conference and industry professionals from in and around the Tucson area. At this event, the attendees will be able to interact with the professionals to learn about their jobs, skillsets beneficial to be successful in aca-

(Continued on page 16)
BIOENGINEERING DIVISION ADMINISTRATIVE COMMITTEES

Academia/industry based jobs, connect for potential employment opportunities and so much more!

Register here:
Student seeking employment: https://uiowa.qualtrics.com/jfe/form/SV_3wTNlWvyV3ogNP7
Potential employer seeking candidates: https://uiowa.qualtrics.com/jfe/form/SV_3QnZumtnxTe687z

For the social event, the members of the SLC would like to invite fellow students to hike to the Bowen Stone House. The students will gather at the conference site lobby at 6:00 am on Friday, June 23rd, 2017 and hike to the Bowen Stone House.

We encourage all students at the SB3C to attend the open SLC meeting on June 24, 2017 between 11:00-11:50 am at SB3C Conference site San Ignacio, to provide feedback and ideas for next year’s SLC. It is also open to postdocs, faculty and industry; we welcome your feedback and ideas for future student events.

There is a flyer in the SB3C program booklet, the SB3C webpage, and on the ASME Bioengineering Division Facebook page, which contains the above event information as well as a list of things to do in Tucson, AZ. In the days preceding and during the conference, the SLC will be sure to post reminders and updates to the Facebook page and our Twitter account (@asmebedstudents), so please check back frequently. We are extremely excited for these student events and look forward to a strong turnout. For any questions, please feel free to contact us through email at: asme-bed-slc@googlegroups.com. We look forward to seeing everyone in Tucson!

Bhargavi Krishnan, Josh Drost
Chair and Co-Chair
Student Leadership Committee

Students: The get-together in SB3C will be a great social networking time
BIOENGINEERING DIVISION ADMINISTRATIVE COMMITTEES

HONORS & AWARDS COMMITTEE

Join us this summer (June 2017) as we recognize four recipients of the 2016 awards at the SB3C banquet. They include Kristin M. Myers (Y.C. Fung Young Investigator Medal), Richard R. Neptune (Van C. Mow Medal), Arthur Erdman (Savio L-Y. Woo Medal), and Gerard A. Ateshian (H. R. Lissner Medal). Congratulations to all four recipients.

Now, we look forward to 2018 nominations. As the current chair of the BED Honors and Awards Committee, I encourage you all to nominate candidates for the Division's four special recognition awards.

Nominations from the pool of active members of the BED are now open for the 2018 awards! To nominate a colleague or yourself for a 2018 award, please submit the nomination form to the Chair of the appropriate Honors Committee no later than Sept. 1, 2017. In preparing nomination packages please note that Honors committee members cannot submit a candidate or provide a letter of support to the committee they are serving.

Please follow the guidelines of the nominations forms; they can be found at https://community.asme.org/bioengineering_division/w/wiki/3494.honors-awards.aspx

The details of four awards are as follows.

The Y.C. Fung Young Investigator Award recognizes outstanding investigators, early in their careers, for significant potential to make substantial contributions to the field of bioengineering and a demonstrated commitment to bioengineering. Candidates must have earned a relevant Ph.D. or equivalent degree within seven years of their nomination and must be under 36 years of age on June 1 of the year of nomination. The Chair of this Award Committee is Jeff Holmes (University of Virginia): holmes@virginia.edu

The Van C. Mow Medal is bestowed upon an individual who has made significant contributions to the field of bioengineering through research, education, professional development, leadership in the development of the profession, mentoring of young bioengineers, and service to the bioengineering community. The individual must have earned a Ph.D. or equivalent degree between ten and twenty years prior to June 1 of the year of the award. The Chair of this Award Committee is Ray Vanderby (University of Wisconsin): vanderby@ortho.wisc.edu

The Savio L-Y. Woo Medal is the most recent award which was established in June 2015 as a society-level award and recognizes a sustained level of meritorious contributions in translating bioengineering research to clinical application, to improve the quality of life. Any member of ASME who has demonstrated a sustained level of outstanding achievement in translating bioengineering findings to the clinical community may be eligible for this medal. The Chair of this Award Committee is James Moore Jr. (Imperial College, UK): james.moore.jr@imperial.ac.uk

The H. R. Lissner Medal was created in 1977 by the Bioengineering Division of ASME to recognize significant contributions to bioengineering. These may be (1) research contributions; (2) new methods for measurement; (3) new equipment and instrumentation; (4) educational contributions; and/or (5) service to the BED and/or the bioengineering community. The Chair of this Award Committee is Noshir Langrana (Rutgers University): langrana@rutgers.edu

Noshir A. Langrana
Chair, Honors & Awards Committee
2014 – 2017
Celebrate the achievements of your colleagues by nominating them as ASME Fellows! Fellows are conferred the highest elected grade of ASME membership as a recognition of their outstanding contributions to the field. To be eligible, the nominee should have 10 or more years of active practice and 10 or more years of ASME membership.

One nominator and three sponsors in the field of the nominee are needed. Any ASME member can nominate a Fellow. Two of the three sponsors need to be ASME members. Nomination packets are submitted online and deadlines are quarterly. (The next one is September 1.) Further information on nominating a Fellow is at:

https://www.asme.org/about-asme/get-involved/honors-awards/fellows

Please contact me (msarnt@ufl.edu) if you are interested in nominating one of our BED members. I am happy to help you through the process!

Malisa Sarntinoranont, Chair
Membership Committee
2017–2020
Again, it is the time of the year when we are all counting down the days until the SB³C2017 conference. The topic theme of the conference this year is “Growth, Development, Remodeling and Repair”, providing you with plenty of exciting research presentations and discussions. Get prepared to spend your hot summer days in the mountains and relaxing resort setting, while attending great sessions and networking with colleagues at SB³C2017 - this conference surely has much to offer. Check out the highlights of the excellent program on page 5.

The BED is a volunteer driven division of ASME. At SBC2017, join a technical committee meeting. See page 4 for details of meeting times and locations.

As always, a BIG thanks to all who contributed to this edition! Anyone can send comments or suggestions of your own, to me at the address below.

Wei Tan
Editor, BED Newsletter
Department of Mechanical Engineering
University of Colorado at Boulder

Getting ready to explore mountains and desert around Tucson!
Whether you’re a student, early-career engineer, or a seasoned researcher, there are still opportunities to share your knowledge at ASME’s International Mechanical Engineering Congress & Exposition (IMECE), November 3 – 9, 2017, in Tampa, Florida.

**Society-Wide Micro and Nanotechnology Forum**

**Poster Abstracts Due: July 19**

Micro- and nano-scale phenomena and processes are widely explored across many ASME divisions to create new applications and to improve the existing engineering systems. This forum brings together ASME members and researchers from academia and industry with a common focus on micro- and nanotechnology. This year, students and post-docs will be eligible for Best Poster Awards. Each award recipient will receive a certificate signed by the ASME President. To submit your abstract, visit the Virtual Podium track and select “Society-Wide Micro and Nanotechnology Forum.”

**NSF Student Competition**

The poster session provides undergraduate and graduate students an opportunity to present a poster of their work from NSF-funded research as part of a competition. Limited NSF-funded travel awards and ASME competition awards (1st to 3rd place for both topics) will be made available. To submit your abstract, visit the NSF Student Competition track.

**Conference-Wide Poster Session**

A general poster session, which offers some of the latest research on a variety of topics that encompasses all of the technical tracks, will be held on Wednesday afternoon during lunch time. To submit your abstract, visit the Virtual Podium track and select the topic area that best applies to your poster.

Registration will be open later this summer. Until then, visit the IMECE website for ongoing program and information updates.
BIOENGINEERING DIVISION

Spring/Summer 2017
News Bulletin
American Society of Mechanical Engineers

ASME BED ROSTER 2016-2017

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