



# Biomedical Engineering Division

Spring 2007

## A Message from the Chair

**STEVE SCHREINER**, Ph.D., P.E.  
Chair, Biomedical Engineering Department  
Western New England College



Greetings, Biomedical Engineering Division members! It has been a difficult ending to the academic year as we tried to make sense of the tragedy in Blacksburg. The initial shock turned to a futile effort to gain some sense of understanding. My sympathy and prayers go out to anyone who was affected by this event.

The 2007 Honolulu conference is ready to go. Thanks to the tireless efforts Ann Saterbak, Program Chair, and our small army of reviewers, the program is full of interesting papers that will generate new ideas and conversations. We also look forward to our awards dinner where we will recognize another outstanding colleague with the Theo Pilkington Award. We will also recognize a young educator with our first Biomedical Engineering Teaching Award. Thank you to Judy Cezeaux, Vice Chair for Career Development and

*Chair continued on page 3*

## INSIDE THIS ISSUE

- 1 A Message From the Chair
- 1 ASEE BED 2007 Annual Conference Program
- 2 Officer Elections – Call for Nominations
- 2 ASEE BED 2006-2007 Officers
- 3 Recognition of ASEE award winners in BED

## BED Conference Program

**2007 ASEE Annual Conference & Exposition**  
“Riding the Wave to Excellence in Engineering Education”  
Honolulu, Hawaii • June 24-27, 2007

**Contributed by Ann Saterbak**

*BED 2006-7 Chair-Elect and Program Chair*

Thanks to all authors, reviewers, and other contributors who have helped make this year’s BED activities diverse and exciting! BED has a range of topics comprising our six sponsored technical sessions, one workshop, one “roundtable discussion,” two co-sponsored sessions (denoted by asterisk), an awards dinner, and various meetings. We hope that you will find the presentations informative, interesting, and useful. The full listing of all conference sessions is available online at <http://www.asee.org/osl/>.

No.	Title	Day & Time
0209	How People Learn Engineering (Workshop)	S 8:30am-4:00pm
1309	Freshman Design & Other Novel Programs	M 10:30am-12:00pm
1408*	Biology and Engineering	M 12:30-2:00pm
1409	BME Council of Chairs Meeting (Lunch)	M 12:30-2:00pm
1509	BME Assessment and the VaNTH ERC	M 2:15-4:00pm
1709	BED Awards Banquet (Dinner Off-Site)	M 6:30-8:30pm
2109	Roundtable: A BME Core Curriculum?	T 7:00-8:15am
2209	New Tools in Teaching & Learning in BME	T 8:30-10:15am
2409	BED Business Meeting (Lunch)	T 12:30-2:00pm
2509	Laboratories & Computer Simulation in BME	T 2:15-4:00pm
2608*	Bioengineering Laboratories	T 4:30-6:00pm
3109	Communication & Professional Skills in BME	W 7:00-8:15am
3209	Design in BME (Poster Session)	W 8:30-10:15am

Please note that Session 2109 “Roundtable Discussion: A BME Core Curriculum?” is a new event this year. The purpose of this session is to engage in discussion about how the biomedical engineering education community can use the data collected by the VaNTH ERC to identify key concepts that BME undergraduates should know. Should this lead to a core curriculum? If so, what should it look like? You may purchase a ticket or bring your own breakfast.

You are invited to purchase a lunch ticket (through the ASEE registration process) or bring a lunch to the lunchtime business meetings. We will have our regular BED Awards Banquet on Monday, June 25 from 6:30-8:30pm at an off-site location. Please contact Judy Cezeaux ([jcezeaux@wnec.edu](mailto:jcezeaux@wnec.edu)) to let her know that you will attend.

We hope that you will be able to attend the annual conference in Honolulu, and that you will support the BED-sponsored sessions!

## BED Officer Elections – Call for Nominations

Contributed by **Lisa Milkowski**

*BED 2006-7 Past Chair & Chair of Nominating Committee*

The current BED officers and the nominating committee are soliciting nominations for next years BED officers. Officers are voted in at the BED business meeting held each year at the annual conference. This year the ASEE Conference is June 24-27 in Honolulu, Hawaii. Nominations are accepted both prior to and at the business meeting.

The officer positions open for nominations are:  
Program Chair-Elect (2009) (5 year term, progressing position)  
Secretary-Treasurer (1 year term)  
Vice-Chair, Career Development and Awards (1 year term)  
Vice-Chair, Curriculum Development (1 year term)  
Vice-Chair, Professional Development (1 year term)  
Member-at-large (3 year term)  
Member-at-large (2 year term – may be open if current officer is elected to another position)

Next year looks to be an exciting one for the BED with an annual conference in Pittsburgh and a unique opportunity potentially opening for involvement and support by our division in the planning of an educational summit. The Council of BME Chairs is currently planning a BME Education Summit; planning and involvement of the ASEE BED is preliminary at this point, but we want to prepare and select BED officers for upcoming likely events.

The BED may have a representative as a member of the Summit planning committee, and that representative would be the individual serving as the Vice Chair of Curriculum Development. Therefore we request that nominees for this position be interested and willing to serve the ASEE BED as a representative to the Council of BME Chairs. As planning a summit is a multi-year activity, this may require serving as Vice Chair of Curriculum Development for multiple years and potential trip(s) to the Council of BME Chairs meetings.

The current ASEE BED officers believe that the involvement of the BED in an educational summit is well aligned with the interests of the division, and that many of the participants in the summit will be members of the division. This opportunity along with the annual ASEE conference held every year are the major activities with which next year's officers will be actively involved.

Please nominate individuals (including yourself) that would serve the ASEE BED well. Please send your questions or nominations to Lisa Milkowski, Chair of the Nominating Committee, [lisa.milkowski@msoe.edu](mailto:lisa.milkowski@msoe.edu).

## ASEE BED 2006–2007 Officers

Information also available at  
<http://www.asee.org/activities/organizations/divisions/officers.cfm?SGRP=BIOMED>

**PAST CHAIR & CHAIR OF NOMINATING COMMITTEE:** Lisa Milkowski, Associate Professor, Biomedical Engineering, Milwaukee School of Engineering, 1025 N. Broadway St., Milwaukee WI 53202-3109, 414-277-7394, fax 414-277-7465; [lisa.milkowski@msoe.edu](mailto:lisa.milkowski@msoe.edu)

**CHAIR (2007):** Steve Schreiner, Ph.D., P.E. Chair, Biomedical Engineering Department, Western New England College, 1215 Wilbraham Road, Springfield MA 01119, 413-782-1727; [sschrein@wnec.edu](mailto:sschrein@wnec.edu)

**CHAIR-ELECT and PROGRAM CHAIR (2007):** Ann Saterbak, Bioengineering Department, Rice University, MS-142, P.O. Box 1892, Houston, TX 77251-1892, 713-348-6243, fax 713-348-5877; [saterbak@rice.edu](mailto:saterbak@rice.edu)

**PROGRAM CHAIR-ELECT (2008):** Dan Cavanagh, Biomedical Engineering, Dana 128, Bucknell University, Lewisburg, PA 17837, 570-577-3402; [dcavanag@bucknell.edu](mailto:dcavanag@bucknell.edu)

**SECRETARY-TREASURER:** Paul H. King, Vanderbilt University, VU Station B 351631, Nashville TN 37235-1631, 615-322-2201, fax 615-343-7919; [paul.h.king@vanderbilt.edu](mailto:paul.h.king@vanderbilt.edu)

**VICE-CHAIR, CAREER DEVELOPMENT AND AWARDS:** Judy Cezeaux, Western New England College, 1215 Wilbraham Road, Box S-5004, Springfield, MA 01119, 413-782-1618, fax 413-796-2116; [jcezeaux@wnec.edu](mailto:jcezeaux@wnec.edu)

**VICE-CHAIR, CURRICULUM DEVELOPMENT:** Samantha J. Richerson, Biomedical Engineering, Milwaukee School of Engineering, 1025 N. Broadway, Milwaukee, WI 53202, 414-277-7394; [richerss@msoe.edu](mailto:richerss@msoe.edu)

**VICE-CHAIR, PROFESSIONAL DEVELOPMENT:** Mary C. Verstraete, Department of Biomedical Engineering, 301-M Olson Research Center, The University of Akron, Akron OH 44325-0302, 330-972-7691, fax 330-374-8834; [maryc@uakron.edu](mailto:maryc@uakron.edu)

**MEMBER-AT-LARGE (Term Ends 2007):** Samuel A. Lippert, Department of Biomedical, Industrial and Human Factors Engineering, Wright State University, 240 Russ Engineering Center, 3640 Colonel Glenn Hwy., Dayton OH 45435-0001, 937-775-5028; [samuel.lippert@wright.edu](mailto:samuel.lippert@wright.edu)

**MEMBER-AT-LARGE (Term Ends 2008):** Semehat S. Demir, Joint Biomedical Engineering Program, University of Memphis, University of Tennessee, Department of Biomedical Engineering, 330 Engineering Technology Building, Memphis TN 38152, 901-678-3170, fax 901-678-5291; [sdemir@memphis.edu](mailto:sdemir@memphis.edu)

**MEMBER-AT-LARGE (Term Ends 2009):** Michele Grimm, Wayne State University, Bioengineering Center, 1172 Engineering, Anthony Wayne Dr., Detroit MI 48202, 313-577-3040, fax 313-577-5300; [mgrimm@wayne.edu](mailto:mgrimm@wayne.edu)

**NEWSLETTER EDITOR:** Carol Mullenax, Project Manager, Bastion Technologies, Mailcode Wyle/HAC/W2, 1290 Hercules Dr. #120, Houston, TX 77058, 281-461-2642; [naxshark@yahoo.com](mailto:naxshark@yahoo.com)

Awards, and the awards committee for this important work. I am pleased to see the BED co-sponsor another workshop this year - Alene Harris and Stacy Klein of Vanderbilt University will put on a full day workshop on "How People Learn Engineering." Read more about the conference throughout this issue of the newsletter.

As your division chair this year, I have aimed to increase the momentum passed onto me, making the BED a dynamic forum for exchanging ideas. As our field continues to expand, the BED needs to expand as well. There is an increasing pipeline of future BME educators that will look to our division to provide more workshops, panel discussions, and quality scholarship. Recently, discussion has begun among members of the Council of Chairs of Biomedical Engineering regarding the possibility of hosting a new BME Educational Summit. I am strongly advocating that the BED becomes actively involved in this effort. The Executive Committee of the BED is currently working on a proposal to the Council of Chairs – a discussion of the proposal is planned for our next business meeting in Honolulu. As our programmatic activity expands, we add value to membership in the BED and the number of members will expand as a result.

As always, please feel free to give me your feedback as our division moves forward. I can be reached at [sschrein@wnec.edu](mailto:sschrein@wnec.edu).

Wishing everyone a peace-filled summer,

Steve

Steve Schreiner  
2006-7 ASEE-BED Chair

## Newsletter

Please submit suggestions or submissions for the ASEE Biomedical Engineering Division newsletter via e-mail to Carol Mullenax at [naxshark@yahoo.com](mailto:naxshark@yahoo.com)

Thanks to everyone who contributed to this issue.

## Recognition of ASEE award winners in BED (extracted from the ASEE Action Newsletter)

The BED is pleased to recognize the following BED members who are recent recipients of ASEE awards:

---

### Chester F. Carlson Award

Rebecca Richards-Kortum  
Stanley C. Moore Professor and Chair, Bioengineering  
Department  
Rice University

### Fred Merryfield Design Award

John Enderle  
Director, Biomedical Engineering Department  
University of Connecticut

### Robert G. Quinn Award

Ann Saterbak  
Lecturer and Director of Laboratory Instruction,  
Bioengineering Department  
Rice University

### Sharon Keillor Award for Women in Engineering Education

Julia Ross  
Professor and Chair, Chemical Engineering and  
Biochemical Engineering  
University of Maryland – Baltimore County

### William Elgin Wickenden Award

Robert J. Roselli  
Professor, Biomedical Engineering and Chemical  
Engineering  
Vanderbilt University

and

Sean P. Brophy

Assistant Professor, Engineering Education  
Purdue University

Article: "Effectiveness in Challenge-Based Instruction in  
Biomechanics,"

*Journal of Engineering Education*, October 2006 issue

---

Biomedical engineering education is well represented in  
awards this year – congratulations to all!