



Biomedical Engineering Division

Spring 2004

A Message from the Chair

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Where did the academic year go? Suddenly it's spring (although the forecast for tonight includes snow), and I have already missed writing one newsletter and the Conference is right around the corner. They say as you get older, the days pass more quickly, but let's not think about that. Let's think about more interesting things and nicer weather.

I have included a few new items in this newsletter that I hope you take note of. The first includes proposed changes to the ASEE BED Bylaws. I have summarized a few of the more important changes on the next page and you should have received an attachment with this newsletter that contains the full scope of modifications. Thank you to the BED officers for helping me over the past year through conversations at BMES and e-mail correspondence, I feel the results more adequately represent the current workings of the Division.

Chair continued on page 3

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BED Conference Program

2004 ASEE Annual Conference & Exposition
“Engineering Education reaches New Heights”

Salt Lake City, Utah

June 20-23, 2004

Thanks to all authors, reviewers, and other contributors who have helped make this year's BED Program at the Annual Conference possible! BED has a range of topics comprising our six sponsored technical sessions, and we hope that you will find the presentations informative, interesting, and useful.

The full listing of all conference sessions is available online:

<http://www.asee.org/conferences/annual2004/>

Listed below are the sessions comprising the BED-sponsored portion of the 2003 conference program:

No.	Title	Day & Time
1109	BME Education	M 7:00-8:15 am
1309	BME Courses	M 10:30-12:00 pm
1409	BME Council of Chairs Meeting (Lunch)	M 12:30-2:00 pm
1609	BME Assessment	M 4:30-6:00 pm
1809	BED Awards Banquet (Off-Site)	M 7:00-9:00 pm
2109	Entrepreneurism in BME	T 7:00-8:15 am
2209	Life in a Post-Whitaker World and ABET	T 8:30-10:15 am
2409	BED Business Meeting (Lunch)	T 12:30-2:00 pm
2609	BME Education	T 4:30-6:00 pm

If you are interested in attending the BED Awards Banquet on Monday night, please contact Dr. John D. Enderle to reserve your seat (jenderle@engr.uconn.edu). This year's event is being held in a separate room at a local restaurant. The costs are yet to be determined and are typically billed individually the night of the event. Watch your e-mail for further information.

We hope that you will be able to attend this year's annual conference in Salt Lake City, and that you will support the BED-sponsored sessions!

Proposed Changes to the Bylaws of the Biomedical Engineering Division

The bylaws for the BED were originally adopted in 1973 and were last revised in 1990. Since that time, the officers of the division have stepped up the ladder of positions following a traditional path as opposed to a formal process. During the past year, the officers of the division have proposed several changes to the bylaws to rectify this situation and to better define the duties of the officers in each position. These changes are intended to give the division more structure and to encourage more of the division members to take an active role in the division.

The primary changes in officer succession are quoted here: "At the conclusion of each annual meeting of the Society, the Division Chair will succeed to the office of Past Chair/Nominating Committee Chair, the Division Chair Elect/Program Chair will succeed to the office of Division chair and the Program Chair Elect will succeed to the office of Division Chair Elect/Program Chair."

The modified bylaws are attached to this newsletter. Deletions are indicated by a strikethrough symbol and additional wording is indicated in blue.

The Proposed Bylaws will be voted on by the membership attending the BED Business Meeting on Tuesday, June 22nd at the Annual Meeting of the Society.

Officer Elections – Call for Nominations

The BED Executive committee is composed of 13 offices. Officers are voted in at the BED business meeting held each year at the annual conference. Elections will be held on Tuesday, June 22, 2004 in Salt Lake City. Nominations are accepted both prior to and at the business meeting.

Open Positions for 2004-2005 include all Vice-Chair positions listed to the right, one Member-At-Large Position and Secretary-Treasurer.

To find out more about serving as a BED officer, contact the Nominating Committee Chair (Gerard Cote, cote@tamu.edu) or the current holder of the office in which you are interested, listed to the right.

ASEE BED 2003–2004 Officers

CHAIR (2004): Mary 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; mary@biomed.uakron.edu

CHAIR-ELECT and PROGRAM CHAIR (2004): John Enderle, Program Director for Biomedical Engineering, University of Connecticut, Room 223 B, 260 Glenbrook Road, U-157, Storrs CT 06269-2157, 860-486-5521, fax 860-486-2500; jenderle@bme.uconn.edu

PROGRAM CHAIR-ELECT (2005): Lisa Milkowski, Biomedical Engineering Program, Milwaukee School of Engineering, 1025 N. Broadway St., Milwaukee WI 53202-3109, 414-277-7394, fax 414-277-7465; lisa.milkowski@msoe.edu

PROGRAM CHAIR-ELECT (2006): Steve Schreiner, Ph.D., P.E. Chair, Biomedical Engineering Department, Western New England College, ofc 413-782-1727, lab 413-782-1258, fax 413-796-2116; sschrein@wnec.edu

VICE-CHAIR, CAREER DEVELOPMENT AND AWARDS: 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

VICE-CHAIR, CURRICULUM DEVELOPMENT: Michele Grimm, Wayne State University, Bioengineering Center, 818 W. Hancock, Detroit MI 48202, 313-577-8395, fax 313-577-8333; grimm@trb.eng.wayne.edu

VICE-CHAIR, PROFESSIONAL DEVELOPMENT: Semahat Demir, Department of Biomedical Engineering, The University of Memphis, 330 Engineering Technology Building, #801, Memphis TN 38152-3210, 901-678-3170; sdemir@memphis.edu

SECRETARY-TREASURER: John W. Steadman, Department of Electrical Engineering, University of Wyoming, Box 3295, University Station, Laramie WY 82071, 307-766-2240; jwstead@uwyo.edu

MEMBER-AT-LARGE (Term Ends 2004): 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

MEMBER-AT-LARGE (Term Ends 2005): Susan M. Blanchard, Professor, Biological and Agricultural Engineering, Box 7625, North Carolina State University, Raleigh NC 27695-7625, 919-515-6726, fax 919-515-7760; Susan_Blanchard@ncsu.edu

MEMBER-AT-LARGE (Term Ends 2006): John D. Gassert, Biomedical Engineering Program, Milwaukee School of Engineering, 1025 N. Broadway St., Milwaukee WI 53202-3109, 414-277-7167, fax 414-277-7465; gassert@msoe.edu

NEWSLETTER EDITOR: Carol Mullenax, Biomedical Engineering, Lindy Boggs Center – Suite 500, Tulane University, New Orleans LA 70118-5674, 504-865-5863, fax 504-862-8779; cmullen@tulane.edu

PAST CHAIR & CHAIR OF NOMINATING COMMITTEE: Gerard Cote, Biomedical Engineering Program, Texas A&M University, 233 Zachry Engineering Center, Mail Stop 3120, College Station TX 77843, 979-845-4196, fax 979-847-9005; cote@tamu.edu

In addition to the changes in the Bylaws, the Division is in the process of developing a new award for young Bio/Biomedical Engineering faculty to acknowledge significant contributions to biomedical engineering education. This award has been discussed for the past several years and I thank Ann Saterbak for looking into the requirements for the Division to develop a new award.

I would like to encourage all of you to consider active participation in the Division next year and to encourage your colleagues to become active in ASEE and the BED. I have been an officer in the Biomedical Engineering Division for the past five years and have found it to be a very rewarding activity. You get the opportunity to share your love of teaching and the desire to develop better teaching methods and techniques with individuals who truly care about the education of tomorrow's Biomedical Engineers.

In closing, I want to strongly encourage all of you to attend the ASEE Annual Conference in Salt Lake City and to participate in all of the BED activities. Please review the conference web site and plan on attending the Business Meeting and the Awards Banquet with your fellow BED members. See you all there.

Mary C. Verstraete
ASEE-BED Chair

Newsletter

If you have suggestions or submissions for the ASEE Biomedical Engineering Division newsletter, please submit them to:

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Thanks to everyone who had contributions and suggestions on content for this issue.

2004 Theo C. Pilkington Outstanding Educator Award winner - Dr. Susan Blanchard

Dr. Susan M. Blanchard is Professor and Director of Undergraduate Programs in the newly formed Joint Department of Biomedical Engineering at North Carolina State University in Raleigh and the University of North Carolina at Chapel Hill. She received the A.B. in Biology from Oberlin College in 1968 and the M.S. and Ph.D. degrees in Biomedical Engineering from Duke University in 1980 and 1982, respectively. In 1990, she became an Assistant Research Professor in the Department of Biomedical Engineering at Duke University and the Executive Officer of EMBS. In 1993, she joined the Department of Biological and Agricultural Engineering at NC State where she spearheaded the development of the B.S. in Biomedical Engineering. Dr. Blanchard was named one of 19 Outstanding Teachers at NC State in 2000-2001. She was President of IEEE EMBS in 1996, received the society's Service Award in 1998, and became an IEEE Fellow in 2003. She has been a Senior Member of the BMES since 1996, became a Fellow of the AIMBE in 1997, and served on the AIMBE board from 1998-2000. Dr. Blanchard is an ABET evaluator in Bioengineering and has been a member of ASEE for 10 years. She is currently a Member-at-Large of the ASEE BED Board. She co-authored [Introduction to Biomedical Engineering](#) (Academic Press, 2000) with John D. Enderle and Joseph D. Bronzino and has presented several education-based papers at ASEE, BMES, and EMBS conferences.

Proposal for Young Biomedical Engineering Educator Award

The ASEE Biomedical Engineering Division seeks to establish a new award to recognize contributions in the field of biomedical engineering education by young faculty members. The award would honor one person each year who has made significant contributions to biomedical engineering education as evidenced by innovative teaching materials, curricula, textbooks and/or professional papers and by activity in ASEE BED and/or other biomedical engineering organizations. The details of the award are still being discussed and input is requested. Please contact Dr. Ann Saterback at saterback@rice.edu with your comments prior to the ASEE Annual Meeting in June.

BYLAWS OF BIOMEDICAL ENGINEERING DIVISION

Adopted 1973

Revised June, 1990

November, 2003

1. Name

The name of this Division shall be the Biomedical Engineering Division of the American Society for Engineering Education.

2. Objectives

The objectives of this Division are identical with those of the Society as stated in Article 1, Section 2 of the Constitution of ASEE but with special emphasis to those objectives which pertain to the field of Biomedical Engineering. The primary objectives of this division shall be:

- To provide a means for the development of concepts in biomedical engineering education.
- To provide a means for the presentation of new educational programs and methods in the area of biomedical engineering.
- To encourage the continued development of educators in biomedical engineering.

3. Membership

Membership of this Division shall consist of those members of the Society who are listed in the Society records as having an interest in Biomedical Engineering.

4. Organization and Officers

The Division shall be administered by an Executive Committee composed of the Division Chair, the Division ~~Chair-Elect/~~ Program Chair, the Division Program Chair-Elect, the Division Vice Chair for Professional Development, the Division Vice Chair for Curriculum Development, the Division Vice Chair for Career Development & Awards, the Division Secretary-Treasurer, the ~~Immediate Past Chair/~~Nominating Committee Chair of the Division, the Division Newsletter Publications Editor, and three ~~elected~~ Members-At-Large. The three ~~elected~~ Members-At-Large shall serve three year terms staggered so as to have one replaced by election each year.

The Division shall be represented on the Executive Board of Council of Technical Divisions and Committees by the Division Chair and Immediate Past Chair in accordance with the Council By-Laws.

5. Election of Officers

~~The Chair of the Division shall retire at the end of each annual meeting of the Society. The Chair-Elect will succeed to the office of Chair upon completion of his term of office as Chair-Elect.~~

At the conclusion of each annual meeting of the Society, the Division Chair will succeed to the office of Past Chair/Nominating Committee Chair, the Division Chair Elect/Program Chair will succeed to the office of Division Chair and the Program Chair Elect will succeed to the office of Division Chair Elect/Program Chair.

The Nominating Committee shall nominate one or more candidates for the offices of: ~~Division Chair-Elect~~, Division Program Chair Elect, Division Vice Chair for Professional Development, Division Vice Chair for Curriculum Development, Division Vice Chair for Career Development & Awards, Division Secretary-Treasurer, and ~~in addition one or more candidates for one at-large Member-At Large~~ position on the Executive Committee.

In addition to those ~~individuals~~ ~~nominated made~~ by the Nominating Committee, additional ~~names~~ ~~individuals~~ may be nominated for any office ~~upon presentation of such nominations in writing signed by five members of the Division present~~ during the Business Meeting of the Division at the Annual Meeting of the Society, provided that the nominated individual has the opportunity to accept the nomination. ~~These nominations shall be voted upon together with the names of the members nominated by the Nominating Committee~~ Once all nominations have been made and accepted, elections shall proceed during ~~at~~ the Annual Business Meeting of the Division at the Annual Meeting of the Society.

In the event of the resignation or death of one of the members of the Executive Committee, the vacated office shall be filled for the duration of the unexpired term by a person to be appointed by vote of the Executive Committee. Except that (1) in the event of resignation or death of the Chair, the Chair-Elect shall assume automatically the duties of the Chair; (2) in the event of resignation or death of the Immediate Past Chair of the Division, the vacated office shall not be filled until after the next regular annual meeting.

6. Committees

The Executive Committee shall establish such regular and special committees as it deems necessary to carry out the purposes of the Division.

The Nominating Committee shall be composed of the ~~Immediate~~ Past Chair of the Division as Chair and two Division members appointed by the ~~Division~~ ~~this~~ Chair with the advice and consent of the Executive Committee.

The Professional Development Committee shall be responsible for ~~informing the Executive Committee and the Division about information regarding~~ the development of standards for the accreditation of programs ~~in biomedical engineering~~ and the licensing and registration of persons engaged in biomedical engineering.

The Curriculum Development Committee shall be responsible for ~~informing the Executive Committee and the Division about information regarding~~ the development of curriculum guidelines, teaching methods, and course content descriptions for educational programs in biomedical engineering.

The Career Development & Awards Committee shall be responsible for ~~informing the Executive Committee and the Division about information regarding the presentation of~~ workshops, seminars, conferences and short courses ~~which are available~~ to provide for the continued development of biomedical engineering educators. ~~In addition, the Career Development & Awards Committee is responsible to soliciting nominations for the Theo Pilkington Outstanding Educator Award and selecting the winner.~~

7. Duties of the Officers

The [Division Chair](#) shall:

- Have administrative responsibility for the content of all functions of the Division in accordance with these By-Laws and the policies and procedures established by the Executive Committee.
- Schedule, organize and conduct annual business meetings of the Division and all meetings of the Executive Committee.
- Appoint committees in accordance with the By-Laws.
- Compile an annual report of the activities of the Division as requested by the Secretary of the Society.

The [Division Chair-Elect/Program Chair](#) shall:

- ~~Serve as Division Program Chair and in this capacity,~~ Plan and organize all sessions to be sponsored (or co-sponsored) by the Division at the Annual Meeting of the Society. He/she shall [coordinate the review of all papers submitted to these sessions, appoint session chairs, and](#) supervise the conduct of these sessions, including arrangement of facilities, receiving speakers, etc.
- Act for the Chair at business meetings of the Division and Executive Committee in the event of the Chair's absence [from](#) these meetings.

The [Division Program Chair-Elect](#) shall:

- Initiate advance planning for the [following year's](#) conference program, ~~which he/she shall chair, including soliciting session topics during the Division Business Meeting at the Annual Meeting of the Society.~~
- [Assist the Division Chair Elect/Program Chair with the current year's program as needed.](#)
- Coordinate special conference events with the [Division Chair-Elect/Program Chair](#) and the [Division Chair as needed.](#)

The Secretary-Treasurer shall:

- Be responsible for official records and correspondence of the Division and Executive Committee.
- Be responsible for the financial records and the payment of bills of the Division and Executive Committee.
- Record minutes of the [Division Business Meeting at the Annual Meeting of the Society](#) ~~annual business meeting~~ and meetings of the Executive Committee and distribute copies to appropriate Society and Division officers.
- ~~Secure copies of papers presented at the Annual Meeting sessions, submit same to the Executive Committee for recommendations on publication, and transmit these recommendations to the appropriate editor.~~
- Report to the secretary of the Society or other appropriate officer on Division finances and proceedings of the annual meeting sessions.

The [Division Publications Newsletter Editor](#) shall:

- Be responsible for the editing, production and circulation of such Division publications as the Executive Committee may decide to produce for the [Division members.](#) ~~and shall be responsible for preliminary editing and submitting to the Society Editor any material to be printed in ENGINEERING EDUCATION or other Society organizations as a publication sponsored by the Division.~~

- ~~The Division Publications Editor shall~~ Be appointed by the Executive Committee for a term to be determined by the Executive Committee.

8. Meetings and Activities

An annual business meeting ~~and conference~~ of the Division shall be held concurrently with the Annual Meeting of the Society. ~~In addition to other Division business, the theme and objectives topics for of the~~ Division's conference sessions ~~for the following year~~ shall be established ~~by the Executive Committee~~.

The Executive Committee shall hold regular meetings at the Annual Meeting of the Society ~~and at the annual Conference on Engineering in Medicine and Biology Biomedical Engineering Society Conference~~. ~~In addition, and~~ special meetings ~~as may be~~ called by the Chair.

Those members present at the meetings of the Division and Executive Committee shall constitute a quorum.

The Executive Committee shall establish such other activities as may be desirable for the promotion of the purposes of the Division.

Members of the Society and other interested persons shall be eligible to attend all meetings of the Division.

9. Publications

The Division shall sponsor, produce and circulate such publications as the Executive Committee may determine to be appropriate.

All papers presented at meetings of the Division become the property of the Society and may be recommended for publication in ENGINEERING EDUCATION or in the publications of the Division as may be deemed proper by the Executive Committee of the Division. Papers not accepted for publication shall be returned to the authors and shall no longer be considered the property of the Society.

10. Amendments

Amendments to these By-Laws ~~may~~ be made at the annual business meeting of the Division upon affirmative vote of two-thirds of the members present.

Proposed amendments are to be prepared by a committee of three members appointed by the Chair of the Division. The amendments are to be sent to the members by letter or ~~e-mail in the publications of the Division~~ not later than thirty days before they are to be voted upon ~~at the Division Business Meeting at the Annual Meeting of the Society~~.