

Biomedical Engineering Society
Strategic Planning 2016-2019
Goals and Objectives

Approved by the BMES Board, April 2, 2016

Vision

The Vision of the Biomedical Engineering Society (BMES) is to serve as the world's leading society of professionals devoted to developing and using engineering and technology to advance human health and well-being.

Mission

The Mission of the BMES is to build and support the Biomedical Engineering community, locally, nationally and internationally, with activities designed to communicate recent advances, discoveries, and inventions; promote education and professional development; and promote and facilitate meaningful interactions between members of the academic, medical, governmental, and business sectors.

Goal 1:

Promote translation of technologies and foster development of fruitful collaborations between academic researchers, industry professionals, government officials, and clinical practitioners.

Objective 1.1. Enhance cross-professional interactions

Objective 1.2. Promote translation and business development

Objective 1.3. Increase representation from industry professionals, government, clinicians, and academic researchers within the membership

Goal 2:

Further the development, communication and *exchange* of state-of-the-art Biomedical Engineering *knowledge* globally.

Objective 2.1. Provide meaningful smaller group interactions and idea exchange

Objective 2.2. Enhance the value of the professional development and scientific exchange at the annual meeting

Objective 2.3. Promote and expand international engagement

Goal 3:

Promote lifelong high quality **education and career** advancement of a diverse community of Biomedical Engineers.

Objective 3.1. Leverage national accreditation approaches to reinforce the leadership role of BMES and to promote professional development and career advancement

Objective 3.2. Increase involvement of women and underrepresented minorities

Objective 3.3. Provide regional opportunities for education and career advancement

Goal 4:

Promote recognition and **visibility** of Biomedical Engineering in the government, media and public.

Objective 4.1. Create media attention for the broad impact of Biomedical Engineering

Objective 4.2. Establish strategic relationships to foster public awareness

Goal 5:

Ensure long-term **fiscal health** of BMES to allow current and future goals to be achieved.

Objective 5.1. In keeping with best practices for financial security, build reserve funds towards meeting the goal of having at least twice the operating expenses of the Society

Objective 5.2. Promote development and fundraising activities

Biomedical Engineering Society
Strategic Planning 2016-2019
Implementation: 2017

Last updated October 13, 2016

Goal 1:

Promote translation of technologies and foster development of fruitful collaborations between academic researchers, industry professionals, government officials, and clinical practitioners.

Objective 1.1. Enhance cross-professional interactions

Industry Committee

1. Host a reception during the 2017 Annual Meeting to focus on industry, clinical, and government attendees.
 - Collect information about numbers of attendees, in various categories

Industry Committee

2. Create programs based on data from a clinical member needs assessment and explore collaborations with presidents of clinical societies
 - Industry Committee has executed a carefully designed questionnaire with 14 clinical societies. Results will be compiled in Fall 2016 to inform creation of programs at the start of 2017 to be incorporated into the 2017 annual meeting.

Objective 1.2. Promote translation and business development

Education Committee

1. Host either a 2017 “entrepreneur Boot Camp” focused on solutions for operating rooms and hospitals with an industry and clinical focus or a Hack-a-Thon (theme?)
 - Prior to February 2017, decide if this is to be part of the Coulter College, Medical Devices meeting, or annual meeting.
 - Design survey to measure success well in advance of the activity.

Industry Committee

2. In addition to continuing tech transfer pitches, facilitate private meetings/speed dating event at the BMES Annual meeting between researchers/tech transfer offices and companies potentially interested in licensing and commercializing technologies.
 - Plan for this as part of the industry program at the 2017 Annual meeting.
 - Devise forms, well in advance of participation, so that IP issues can be informed, with the need for university signoff (in the case of students, staff, faculty) participating, and company signoff prior to employee participation. Check with BMES legal to certify that BMES will not be legally responsible if participants are not in compliance with university or company policy.
 - Design survey to measure success well in advance of the activity.

Industry Committee and National Meetings Committee

3. In addition to continuing VC pitches, facilitate private meetings/speed dating event at the BMES Annual meeting between entrepreneurs and investors.
 - Plan for this as part of the industry program at the 2017 Annual meeting.
 - Devise forms, well in advance of participation, so that IP issues can be informed, with the need for university signoff (in the case of students, staff, faculty) participating, and company signoff prior to employee participation. Check with BMES legal to certify that BMES will not be legally responsible if participants are not in compliance with university or company policy.
 - Design survey to measure success well in advance of the activity.

National Meetings Committee

4. Continued tours of local industry sponsor sites
 - Decide upon participant costs and/or penalties to assure their attendance after they register
 - Design survey to measure success well in advance of the activity.

Publications Board

5. Introduce a society-wide award for innovative idea that was translated to clinical practice in 2018
 - Work with Executive Committee, Awards Committee and Coulter to see if this fits with the Helthcare Innovation awardor
 - Work with and Kerry Athanasiou to determine if this award fits with his endowment ideas

or

- Work with the Ad Hoc Development Committee to see about raising funds.

Objective 1.3. Increase representation from industry professionals, government, clinicians, and academic researchers within the membership

Industry Committee

1. Increase corporate memberships to 5.
2. Sell 7 corporate member and medical school booths in 2017
3. Promote industry-based membership growth through targeted relationships with major industry societies, local/regional chapters, SIGs, and local bioscience groups (Industry Committee lead). Target >25% growth by 2017

Membership Committee

4. Run a student outreach campaign welcoming graduating students to academia and industry, with the goal of students retaining membership into their professional careers.
5. Initiate the new membership inventive plan for recruiting new members
 - Monitor the costs associated with the program and the relative successes to see if this should be a continuing program.

Goal 2:

Further the development, communication and *exchange* of state-of-the-art Biomedical Engineering *knowledge* globally.

Objective 2.1. Provide meaningful smaller group interactions and idea exchange

Industry Committee

1. Increase industry chapters to a total of 8 in 2017
2. Evaluate feasibility of industry-chapter grants
 - Work with the Ad Hoc Development Committee to check with targeting opportunities
3. Support SIG activities by promoting to industry

National Meetings Committee

4. Continue to cluster related sessions from different tracks

Student Affairs Committee

5. Work with National Meetings Committee to see about planning breakout sessions or Lunch-discussion sessions for topics of interest such as Biomechanics, Tissue Eng, CV, Respiratory, etc. with featured speaker(s) or panels.
6. Coordinate with SIGs. Graduate students should be interested, undergraduates may have to be attracted by topic and modes of discussion.
7. Work with National Meetings Committee and Industry Affairs Committee to continue programming related to “What you need to know to get a job in industry, government and academia after your PhD”

Publications Board

8. Continue 1 or 2 special issues in each journal per year
9. Publish occasional lumped single DOI of BMES SIG conference abstracts.

Objective 2.2. Enhance the value of the professional development and scientific exchange at the annual meeting

Industry Committee

1. Receive >10 industry abstracts for special topics track
2. Hold 4 professional development sessions/workshops for industry professionals within the Industry Program
3. Set up and facilitate company tours at the Annual Meeting.

National Meetings Committee

4. Expand university receptions to multiple nights
5. Periodic plenary highlights for underrepresented disciplines. (some fields like imaging, neural, computational, etc. do not attract much faculty attendance)
6. Invited “summit” meeting with key faculty in underrepresented fields for oral session, plus discussion of ways to increase attendance in these fields.
7. Award Annals in BME (or other) highlight for faculty submitted work connect to an awarded presentation.

Publications Board

8. Highlight newsworthy work from each journal at a quarterly rate for ABME and CBME, and at least twice yearly for CVET.

Objective 2.3. Promote and expand international engagement

Industry Committee

1. Evaluate feasibility of international industry chapters by establishing chapters within corporate members.

International Affairs Committee

2. Solicit engagement by international biomedical engineering societies and organizations in the BMES Annual Meeting. We are organizing the International Symposium on Biomedical Engineering at the 2016 Annual Meeting that will bring together leaders and highly-ranked officials from biomedical engineering societies abroad. We will continue to do so at the 2017 Annual Meeting, with more countries involved.
3. Increase international engagement at the annual meeting by increasing the number of international attendees, abstract submissions, track chairs and abstract reviewers. Following the International Symposium at the 2016 Annual Meeting, we propose to organize a Minisymposium on International Research Collaborations and Funding Opportunities in Biomedical Engineering at the 2017 Annual Meeting, with speakers from countries participated in the International Symposium.
4. Evaluate potential organizational structures for international divisions/chapters. The International Affairs Committee is now discussing the organization of the International Student Chapters. We submitted our first proposal about that to the Board in April of this year. Most of the committee members now propose waiving membership fees for international students. In 2017, we will work closely with the Canadian Medical and Biological Engineering Society (CMBES) and other bioengineering societies abroad on this matter.

National Meetings Committee

5. New educational and technical sessions on international efforts, by region or country
6. Continued emphasis on international track chairs

Publications Board

7. Increase the number of international associate editors with expectations that they would encourage submission of HIGH quality international manuscripts to BMES journals
8. Consider advertising BMES journals to international society member lists

Goal 3:

Promote lifelong high quality **education and career** advancement of a diverse community of Biomedical Engineers.

Objective 3.1. Leverage national accreditation approaches to reinforce the leadership role of BMES and to promote professional development and career advancement

Education Committee

1. Hold professional development webinar on ABET criteria
2. Annual Meeting education track session focused on ABET criteria

Objective 3.2. Increase involvement of women and underrepresented minorities

Diversity Committee

1. Convene Health Disparities session at the Annual Meeting, continuing activity
2. Plan luncheons/events focused on minorities/women at the Annual Meeting focused on making the BME community more inclusive. Invite all members of the Council of Chairs.
3. Convene a webinar with leaders in the field to impact diverse groups and share best practices on connecting with diverse leaders in the field and discuss minority issues
4. Convene a webinar with leaders in the field to impact diverse groups and share best practices on connecting with diverse leaders in the field and discuss minority issues
5. Maintain Diversity webpage on the BMES website to highlight the Society's diversity activities (i.e., Diversity Member Spotlight, Luncheons, Webinars, etc.)

Membership Committee

6. Convene Health Disparities session at the Annual Meeting. Work with National staff to implement the pending MOU with NSBE to increase diversity.

Publications Board

7. Increase the number of women and URM in our BMES journal leadership positions – EICs, Deputy Editors, Associate Editors, and Reviewers

Student Affairs Committee

8. Develop incentives to student chapters for promoting outreach and diversity
9. Work with President and Staff to continue sponsored Travel awards for meeting attendance by under-representative minority students
10. Partner with AIMBE, BMES, ASEE, NSBE, SHPE, SWE to create mentoring programs matching fellows with under-represented students

Objective 3.3. Provide regional opportunities for education and career advancement

Education Committee

1. Formulate programs to support advanced career development needs: DIY or "franchised" regional meetings
2. Formulate programs to support advanced career development needs: Hold 4-5 professional development webinars – continuing activity that could increase to more webinars over time.
3. Hold 4-5 professional development webinars, a continuing activity that could increase to more webinars over time.

Industry Committee

4. Support Student and Early Career programming by bringing industry speakers and companies to events
5. Expand industry-student chapter partnership infrastructure and launch regional industry mentoring program

Student Committee

6. Support Student and Early Career programming by bringing industry speakers and companies to events

Goal 4:

Promote recognition and **visibility** of Biomedical Engineering in the government, media and public.

Objective 4.1. Create media attention for the broad impact of Biomedical Engineering

Industry Committee

1. Expand industry sub-component of BMES newsletter, continue refining industry member pages on bmes.org, create BMES networking page for industry members

Publications Board

2. Work with Nature – BME to develop collaborative and cooperative strategies

Objective 4.2. Establish strategic relationships to foster public awareness

3. Journal websites – increase accessibility and social media presence. Consider services like Altmetrics to track visibility.

Goal 5:

Ensure long-term **fiscal health** of BMES to allow current and future goals to be achieved.

Objective 5.1. In keeping with best practices for financial security, build reserve funds towards meeting the goal of having at least twice the operating expenses of the Society

Industry Committee

1. Consistently return >5% revenue growth from industry participation year over year

Objective 5.2. Promote development and fundraising activities

Industry Committee

1. Support the Executive Committee and Board efforts for fundraising

President

2. Populate the new ad hoc development committee to vet, plan, and solicit potential donors, maintain coordination among all BMES committees, Board, and staff.