2016 Annual Business Meeting

Friday, May 20, 2016
Palais des congrès de Montréal
Room 513def
Montreal, Canada
Welcome

Thomas Webster, PhD
2015 - 2016 President
Northeastern University
Welcome
Election of 2016-17 AC&N Committee *
2016 Election Results
Presidential Address
Financial Report
C. William Hall Award
New Business
Incoming President's Comments
Adjourn

*Vote Required
Awards, Ceremonies and Nominations Committee

Incoming Chair: Antonios Mikos, PhD

Four committee members to be elected from at least six nominations needed from the floor.

1. Christine Schmidt
2. Todd McDevitt
3. Stephanie Bryant
4. Phil Messersmith
5. Ahmed El Ghannam
6. Shelly Sakiyama Elbert
2016 Election Results

Lisa Friis, PhD
University of Kansas
Secretary/Treasurer 2015-2017
2016 Election Results

2015-2016 President-elect
David H. Kohn, PhD
University of Michigan

2016-2017 Member-at-large
Andres J. Garcia, PhD
Georgia Institute of Technology
President's Remarks

Thomas Webster, PhD
2015 - 2016 President
Northeastern University
2016 Biomaterials Days

- March 11, 2016: University of Florida
- March 18, 2016: University of Memphis
- May 5, 2016: North Carolina A&T State University
- June 3, 2016: Texas Collaborative
- June 30, 2016: Northeastern University
- Fall 2016: Case Western Reserve University
- October 2016: Georgia Institute of Technology
2016 Satellite Symposia

- March 5-8, 2016: Orthopaedic Research Society, Orlando, FL
- March 13-17, 2016: American Chemical Society, San Diego, CA
- April 12-14, 2016: Design of Medical Devices Conference: Medical Device Center of the University of Minnesota, Minneapolis, MN
- June 22-25, 2016: ISSCR 2016 Annual Meeting, San Francisco, CA
- July 29-31: American Ceramic Society, Chicago, IL
- October 9-11, 2016: New Jersey Center for Biomaterials, Rutgers University, New Brunswick, NJ
- December 11-14: TERMIS Americas, San Diego, CA
Committee Members

Audit Committee
Antonios Mikos
Joel D. Bumgardner
Elizabeth Cosgriff-Hernandez

Awards, Ceremonies, and Nominations Committee
Joel D. Bumgardner
Karen L. Burg
Phillip Messersmith
David Puleo
Christine Schmidt

Bylaws Committee
Benjamin Keselowsky
James Henderson
Jiro Nagatomi
Horst Von Recum
Isabelle Catelas

Devices and Materials Committee
Peter Edelman
Eric Sussman
Robert Hastings
Jeffrey Schwartz
Suping Lyu
Vipul Dave

Education & Professional Development Committee
Huinan Liu
Kent Leach
J. Zach Hilt
Yunzhi Yang
Syam Nukavarapu
Evelyn Bracho-Sanchez

Finance Committee
Shelly Sakiyama-Elbert
Elizabeth Friis
Kent Leach
Elizabeth Lipke
Alan Litsky
Nabil Tawil
Committee Members

**Liaison Committee**
David Puleo
Kai Zhang
Gautam Gupta
Suping Lyu
Esmaiel Jabbari
Shelly Sakiyama-Elbert
Christopher Siedlecki

**Membership**
Lijie Grace Zhang
Rene Olivares-Navarrete
James Ankrum
Debanjan Sarkar
Yanan Du

**Program Committee**
Christopher Siedlecki
Rebecca Carrier
Brendan Harley
Suping Lyu
Kristine Kieswetter
David Puleo

**Publications Committee**
Alan Litsky
Jim Anderson
Jeremy Gilbert
Adam Ekenseair
Guigen Zhang
Thomas Dziubla
Sarit Bhaduri
Jan Stegemann

**Student Section Officers**
Evelyn Bracho-Sanchez
Caroline Addington
Christopher Gehrmann
Simon Longela
Amanda Chen
Committee Members

SIG Chair Committee
SIG Representative
Brendan Harley, PhD
Anirban Sen Gupta, PhD
Biomaterials Education
Eric Sussman, PhD
Biomaterials & Medical Products Commercialization
Floyd Karp, PhD
Biomaterial-Tissue Interaction
Laura Indolfi, PhD
Cardiovascular Biomaterials
Scott A. Guelcher, PhD
Dental/Craniofacial
Jordan Green, PhD
Drug Delivery
Sarah Stabenfeldt, PhD
Engineering Cells & Their Microenvironments
Ankur Singh, PhD
Immune Engineering
Daniel Siegwart, PhD
Nanomaterials
Yasushi Kato, PhD
Ophthalmic Biomaterials
Bingyun Li, PhD
Orthopaedic Biomaterials
Pranav Soman, PhD
Proteins & Cells at Interfaces
Gopinath Mani
Surface Characterization & Modification
Elizabeth Cosgriff-Hernandez, PhD
Tissue Engineering
Public Relations Activity

Society For Biomaterials Partnership with Schneider Associates
Financial Report

Lisa Friis, PhD
University of Kansas
Secretary/Treasurer 2015-2017
## FY 2015 Statement of Activities

### Income

<table>
<thead>
<tr>
<th>Category</th>
<th>Income</th>
<th>Expenses</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>$93,735</td>
<td>$401,220</td>
<td>($307,485)</td>
</tr>
<tr>
<td>Meeting</td>
<td>$518,949</td>
<td>$516,181</td>
<td>$2,768</td>
</tr>
<tr>
<td>Publications</td>
<td>$348,169</td>
<td>$145,323</td>
<td>$22,846</td>
</tr>
<tr>
<td>Other Revenue</td>
<td>$3,045</td>
<td></td>
<td>$3,045</td>
</tr>
<tr>
<td>Committee Expenses</td>
<td>$10,794</td>
<td>$67,208</td>
<td>($67,208)</td>
</tr>
<tr>
<td>SIGs</td>
<td>$3,045</td>
<td></td>
<td>$3,045</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>$974,691</td>
<td>$1,142,200</td>
<td>($167,509)</td>
</tr>
</tbody>
</table>

### Non Operating Revenue

<table>
<thead>
<tr>
<th>Revenue Type</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Textbook Royalty</td>
<td>$11,933</td>
</tr>
<tr>
<td>IUSBSE &amp; China</td>
<td>$8,814</td>
</tr>
<tr>
<td>C. W. Hall Scholarship Fund</td>
<td>$2,009</td>
</tr>
<tr>
<td>C. William Hall Scholarship</td>
<td>$1,616</td>
</tr>
<tr>
<td>Cato Laurencin Travel Fellowship</td>
<td>$13,600</td>
</tr>
<tr>
<td>Student Chapter &amp; STARs</td>
<td>$28,211</td>
</tr>
<tr>
<td>Restricted Contribution – PCI SIG</td>
<td>$1,000</td>
</tr>
<tr>
<td>PCI SIG</td>
<td>$200</td>
</tr>
<tr>
<td>Investment Income (all sources)</td>
<td>$11,758</td>
</tr>
<tr>
<td>Web Amortization</td>
<td>$13,333</td>
</tr>
<tr>
<td>Consultants</td>
<td>$17,630</td>
</tr>
<tr>
<td><strong>Total Non-Operating Revenue</strong></td>
<td>$40,300</td>
</tr>
</tbody>
</table>

### Non Operating Expenses

<table>
<thead>
<tr>
<th>Expense Type</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>IUSBSE &amp; China</td>
<td>$8,814</td>
</tr>
<tr>
<td>C. William Hall Scholarship</td>
<td>$1,616</td>
</tr>
<tr>
<td>Student Chapter &amp; STARs</td>
<td>$28,211</td>
</tr>
<tr>
<td>PCI SIG</td>
<td>$200</td>
</tr>
<tr>
<td>Consultants</td>
<td>$17,630</td>
</tr>
<tr>
<td><strong>Total Non Operating Expense</strong></td>
<td>$69,805</td>
</tr>
</tbody>
</table>

### Non-Operating Net Income

- **($29,505)**

### Net Operating $ + Net Non-Operating $ = **($197,014)**
<table>
<thead>
<tr>
<th></th>
<th>2015 Audited</th>
<th>2016 Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Income</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>$93,735</td>
<td>$106,000</td>
</tr>
<tr>
<td>Annual Meeting &amp; Workshops</td>
<td>$518,949</td>
<td>$30,000</td>
</tr>
<tr>
<td>Special Interest Groups</td>
<td>$10,794</td>
<td>$10,758</td>
</tr>
<tr>
<td>Publications</td>
<td>$348,169</td>
<td>$387,435</td>
</tr>
<tr>
<td>Other Services</td>
<td>$3,045</td>
<td>$3,000</td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td>$974,691</td>
<td>$537,193</td>
</tr>
<tr>
<td><strong>Expenses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>$401,220</td>
<td>$458,103</td>
</tr>
<tr>
<td>Annual Meeting &amp; Workshops</td>
<td>$516,181</td>
<td>$22,750</td>
</tr>
<tr>
<td>Special Interest Groups</td>
<td>$12,268</td>
<td>$11,040</td>
</tr>
<tr>
<td>Publications</td>
<td>$145,323</td>
<td>$154,700</td>
</tr>
<tr>
<td>Committees</td>
<td>$67,208</td>
<td>$68,100</td>
</tr>
<tr>
<td><strong>Total Expense</strong></td>
<td>$1,142,200</td>
<td>$714,693</td>
</tr>
<tr>
<td><strong>Operating Net Income/Loss</strong></td>
<td>($167,508)</td>
<td>($177,500)</td>
</tr>
<tr>
<td><strong>Non-Operating Net Income</strong></td>
<td>($29,505)</td>
<td>($50,104)</td>
</tr>
</tbody>
</table>
Treasurer’s Notes

Beginning in 2013, with more than $1.5 million in reserves, the Board of Directors followed the Finance Committee’s recommendation to invest in membership benefits and services, without increases to dues or registration. **This was a conscious and strategic decision** on the part of a Board, meeting their fiduciary responsibilities to the members of this non-profit organization.

- Journal subscription rates increased 17% in 2013, and will increase again by 7% in 2017
- Biomaterials Day grant program increases
- Major investments in:
  - Website and online community
  - 2016 Public Relations Initiative
  - 2016 Liaison committee outreach activity (raising visibility and delivering value in a WBC year)
- Membership Dues and Meeting registration rates have remained unchanged since 2009, and in fact **dues were lowered by $10 in 2014** to offer each member a free SIG Membership
- The 2017 Annual Budget will be prepared to deliver a modest net income (<$50,000). This may mean nominal increases in dues and / or registration rates. (An environmental scan shows that we are among the lowest for both.)
C. William Hall Award

Honoring the memory of the Society’s first President Dr. C. William Hall.

Introduction by

Thomas Webster, PhD
Northeastern University
2016 C. William Hall Award

James M. Curtis
Dow Corning Corporation
SFB Award for Service

Alan Litsky, MD, ScD
The Ohio State University
Liisa Kuhn, PhD
University of Connecticut Health Center
2016-2017 President
Thank you for the opportunity to serve SFB.

Member since 1997

- Orthopaedic SIG Chair, session chair, symposium organizer, workshop organizer, 2002 Annual meeting Program Chair, membership committee, awards committee, Drug Delivery SIG chair, Biomaterials Forum Executive Editor.

My Goal – Improve SFB impact – improve how we share our valuable biomaterials knowledge to ultimately get better products faster into patients.

Strategic Plan review – Road to Relevance
Mission:
• The Society For Biomaterials is a multidisciplinary society of academic, healthcare, governmental and business professionals dedicated to promoting advancements in all aspects of biomaterial science and technologies, education and professional standards to enhance human health and quality of life.

Vision:
• The Vision of the Society for Biomaterials is to serve as the world's preeminent interactive global community committed to advancing excellence in all aspects of biomaterial science, engineering and technology for promoting human health and well-being.
GOALS / OBJECTIVES

From the April 2015 Long Range Planning Committee Report to Council

VISIBILITY / PUBLIC RELATIONS

EDUCATION & PROFESSIONAL DEVELOPMENT

MEMBERSHIP

MEETINGS

GLOBALIZATION
GOAL: SFB will raise visibility, impact and stature of society & membership on national/ international and regional/local levels for advancing biomaterials science/engineering research and development, education, and professional development

STRATEGIES:

• Develop a Public Relations Plan – Schneider Associates
• Maximize Website as a Resource for News and Information
• Promote Biomaterials Days
• Expand Role as Contributor of Program Content to Related Societies

Liisa specific sub-STRATEGIES:

• GLOBALIZATION - Forge closer ties with sister Biomaterials societies: e.g. European, Chinese, South American Biomaterials Societies.
  – Opportunities for student and faculty exchange, invited speakers, resources, collaborations
• STANDARDS - Streamline the transfer of SFB preeminent knowledge of biomaterials/interactions of cells and host response to biomaterials to standards writing activities – American Society of Testing and Materials (ASTM) or Int. Standards Org. (ISO)
American Society of Testing and Materials International (ASTM)

- Voluntary standards developing organization
  - WWW.ASTM.ORG
  - Technical Committee F04 on Medical and Surgical Materials and Devices
    - *Anyone* can join ASTM ($75) and get a free volume of standards and start to participate in writing standards.
    - ASTM activity will help streamline your academic or corporate research, increase your global visibility and help move regenerative medicine/tissue engineering strategies into patients faster.

- History
  - L Kuhn is ASTM F04.42 Biomaterials and Biomolecules Subcommittee Chair
Six Different Types of ASTM standards

- **Guide**
  - General background information

- **Test Method**
  - Definitive test method

- **Classification**
  - Defines groups/categories

- **Practice**
  - Instructions for performing a test

- **Specification**
  - Absolute requirements

- **Terminology**
  - Definition of terms
US FDA 1997 Modernization Act

- Allowed US FDA participation in standards writing organizations
  - Companies can work side by side with FDA representatives during the standards development process
- Allowed US FDA to “recognize” consensus standards generated outside of US FDA to be used as an FDA regulatory requirement
- ASTM/ISO standards facilitate regulatory decisions and accelerate the introduction of new products into the clinic.
GOAL: SFB will increase value and quality of annual meetings and extend accessibility of annual meeting information beyond meeting dates and locations.

STRATEGIES:
• Create Special / Novel Program Features and Formats
• Improve PR Around Awards
• Increase Sponsorship Revenue via Expanding Sponsorship Base and Contributions
• Evolve to Provide Remote Streaming of Special Speakers/Program Sessions
• Continue to offer program content or tracks in topics pertinent to industry

Liisa specific sub-STRATEGIES:
• Young scientist pre-conference workshops – organized by young scientists through a new SIG supportive of new investigators/new industry hires
• “STANDARD METHODS” tracks – lectures that share know-how and are basis for medical product standards about biomaterial test methods. Provide a conduit for the information to get to ASTM and ISO.
GOAL: SFB will continue to develop and support diverse membership including clinical and industrial members as well as basic and applied science/engineering researchers and students and increase value to members

STRATEGIES:
• Articulate the value proposition for membership
• Rigorously define / reexamine the target market for membership
• Recruit a diverse membership
• Develop and implement a comprehensive strategy for increasing membership

Liisa specific sub-STRATEGIES:
• Increase industry participation – standards activities are a draw – co-chair structure for annual meeting chair encourages this
• Increase dental clinician participation – they are often first to use many new biomaterials/regenerative strategies/imaging techniques
GOAL: SFB will promote professional development, education and networking for scientists/researchers, clinicians, and industry and governmental agency personnel.

STRATEGIES:

- Engage in publication/dissemination of technical/scientific information
- Promote biomaterials careers/professional development
- Maximize website to become major web resource for biomaterials networking, information/resources, and collaboration
- Promote biomaterials literacy/education
- Define fundamental and unique skills of ‘biomaterialist’
- Encourage Student chapters to find local INDUSTRY hosts for Biomaterials Days events.
- ACN needs to do more in recruiting nominations for Student Awards

Liisa specific sub-STRATEGIES:

- Young scientist SIG – a program for postdocs and new faculty and new industry hires (free SIG)
- Globalization activity– SFB/ESB as a conduit for international exchange activities
- Proposed “Test Methods/Standards” tracks will increase educational content of our meetings.
The Board will focus its time and attention on these strategic issues, and aligning committee activities with the strategic plan.

Plan development, execution and reporting will be the responsibilities of the committees.
The Bylaws Committee is currently working to address some governance issues raised by the Board during our strategic planning process, and significant amendments to Bylaws relative to committee structure and function are expected in 2017.
Thank you!