Merican Society of Biomechanics

Founded 1977



www.asbweb.org

In this issue

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From the President	1
Student's Corner	2
Northwest Biomechanics	3
Education Committee	4
Secretary/Membership	5
Treasurer	6
Past-President	7
Communications	10
Program Chair	13
A View From the Blue	16
Events Calendar	17

Newsletter

Volume: 25 - Number: 1, June 2012

From the President

Greetings to you all! I hope that you are having a great summer. Topics covered in this issue of the ASB Newsletter range from the latest updates on our Annual Meeting, this year in Gainesville, to news of Society finances, of the graduate student Grant-in-Aid awards program, and of the latest ASB Award Winners. There's never a lack of information to share. Please take a few minutes to peruse this document and educate yourself on all the ASB news that's fit to print.

The Olympic Games in London will transfix the world's attention this summer, kindly finishing just in time to spare our Annual Meeting. I like to think of it as an opportunity for biomechanics to take the world stage for a fortnight. I would encourage all of you to be on high alert during this period. You never know when you might be asked to opine about the virtue of one running style relative to another, or provide insight into the benefits of streamlined swimming styles. It's also a great opportunity to get out there and exercise your own biomechanical styles, inspired by the success of others more talented than us.

The weeks leading up to our Annual Meeting are always exciting times, marked by the election of new Executive Board members and by the final days for others who have served. I hope that you will join me in extending a special thanks to Jill, Mike, Zong-Ming, Meghan, and Liz for their service to ASB. As newly elected members join the Board (and others move from one role to another – Michelle), it offers a special opportunity to glimpse the future of ASB, and I for one look forward to working together to advance our favorite scientific discipline. Speaking of the election of new board members, incredibly, 83% of our membership voted this year, a level of participation which I don't believe that we've ever seen before. Thanks so much for lending your voice by voting. Also, I want to personally thank all of the candidates who had the courage and commitment to run for elected office. They have demonstrated a level of commitment to ASB that I applaud, and that I hope will inspire/encourage you to get more involved. Please join me in welcoming the newest members to our Executive Board:

President-Elect: Richard Hughes Program Chair-Elect: Brian Umberger Treasurer-Elect: Karen Troy Secretary/Membership Chair: Andy Karduna Student Representative: Jennifer Peterson

It has been fun serving as your President this year, and I have greatly enjoyed working with you all. Thanks for giving me such a wonderful opportunity to serve. I hope to see you in Gainesville!

Student's Corner Meghan Vidt

Summer is almost here. Not only does summer mean cookouts, popsicles, and lounging at the pool, but it also means that the next ASB Annual meeting is just around the corner! This year's meeting will be hosted by the friendly folks (and the on-campus gators) at the University of Florida from August 15-18th. There are plenty of ways to become involved at this year's meeting. However, to participate in some of these events, you must be a current ASB student member, which is quick, affordable (only \$15!), and can be managed through the ASB website.

At the Annual Meeting, I hope you will join us for some or all of the activities we have planned. This year's Student Event will be held on Wednesday, August 15th. We have three great speakers lined up who will discuss working in industry, writing an NRSA fellowship application, and networking. There will also be a Student Night Out on Friday evening. This event provides an opportunity to socialize and get to know your fellow ASB students in a casual setting.

The Women in Science Breakfast, which has been popular at previous meetings, will again be held at this year's conference on Friday, August 17th. The breakfast will feature round-table discussions between students and scientists. This is a great opportunity to network and learn from today's female leaders. I hope you will join us for some great discussions over breakfast!

I also want to extend an invitation to all meeting attendees to join the Diversity Luncheon at the Annual Meeting, which will be held on Thursday August 16th. At this year's gathering there will be an open discussion to identify key areas in which ASB can extend its reach to the varying aspects of diversity. This is an excellent opportunity to share your ideas and help ASB improve its outreach and impact on the academic community. We hope everyone will take part in this very important conversation!

Once again, the one-on-one mentor program will take place at this year's meeting. There has been an increase in this program's popularity, with a recordbreaking 53 students participating! The deadline for students to sign up for this year's mentor program has already passed, so if you missed it, we hope you will consider participating in the mentor program next year. Announcement of student-mentor matches for ASB 2012 will be made in mid/late July.

Outside of all of the activities available at the Annual Meeting, I am excited to report that ASB has expanded into the realm of webinars! Many thanks to the Student Committee – Jason Franz, Tarang Jain, Boyi Dai, and Tara Kajaks - for their help with getting this resource off the ground. Thanks also to Dr. Kram, who has been a good sport by volunteering to give the inaugural webinar on manuscript writing. In case you missed the live presentation, a link to the recording will be available on the ASB website.

Finally, please don't forget to keep checking the ASB feeds on Facebook and Twitter. Social media provides members a way to stay connected and keep current with all things ASB throughout the year, so we hope you take advantage of it. Please be sure to check the Facebook and Twitter feeds as the Annual Meeting approaches, since updates and announcements will be posted.



Editorial Board

Editor & Layout Michelle Sabick msabick@boisestate.edu

Calendar & Advertising William Ledoux wrledoux@u.washington.edu

Advertising in the Newsletter

The Editorial Board invites businesses that have products or services of interest to members of the Society to advertise in the ASB Newsletter. Advertising space may also be purchased for job postings or other special announcements.

The current advertising rates are as follows:

1/4 page--\$100 1/2 page--\$200 full page--\$400 back page--\$600

If you are interested in learning more about advertising in the ASB newsletter, please e-mail William Ledoux:

wrledoux@u.washington.edu

Continued on page 3....



ASB Involvement

If you are interested in becoming more active in the Society (e.g., serving on a committee or chairing a conference session), contact Michael Madigan, Secretary/Membership Committee Chair, with your name, address, phone/fax number, email address, and your desired involvement. This information will be included in a database which is periodically updated and distributed to the Executive Board.

Back Copies of the Newsletter

All previous ASB newsletters have been converted into pdf documents and are archived on the ASB website. The meeting in Gainesville marks the end of my term as Student Representative. Serving on the Executive Board has been a tremendous experience, and I am grateful for all of the encouragement and support the board has provided over the past two years. I also have to thank the Student Committee members for their willingness to serve, and all the ASB students for their enthusiastic participation in all of ASB's programs! It has been a pleasure serving as your Rep, and I am confident that the next Student Rep will find his or her experience rewarding as well. I look forward to seeing you all in Gainesville in August!

Northwest Biomechanics Symposium (NWBS) Andrew Karduna

By any standard, the 8th Annual Northwest Biomechanics Symposium at the University of Oregon was an enormous success, with over 100 people attending. There were 26 poster and 22 podium presentations and an exceptional keynote lecture from Dr Mark Grabiner, who tried to explain to us why it is taking so long to reduce the incidence of falls by older adults. As has now become a tradition with this regional meeting, we set our graduate students loose on Friday night and they came up a friendly competition that I think everyone enjoyed. Details from the meeting, including links to abstracts and our many sponsors, can be found here. I believe that this is the first (but hopefully not the last) regional ASB meeting that had a microbrewery as a sponsor. Two in fact.



Education Committee

The graduate student Grant-in-Aid awards program (GIA) has been an emphasis of the ASB education committee for many years. The program has attracted larger and larger applicant pools each year while available funds have not expandedthus receiving a GIA award has become increasingly competitive. This year, 25 applications were received from masters and doctoral students from a variety of institutions and departments. This more than doubled the number of applications from last year and presented the evaluation committee with the difficult challenge of selecting five award recipients from many very strong proposals. In the end, the selection was narrowed to five but with regret that several other excellent research ideas could not also be funded.

The top five GIA applicants were each awarded \$2,000 to support their research over the next year. GIA award winners are asked to present the results of their research at the next ASB annual conference.

The award winners for this year are:

Robin Bauer, *The Effects of Plantar Fascitis on Multi-Segment Foot Running Gait Kinematics*, Department of Human Movement Sciences, University of Wisconsin-Milwaukee, Stephen Cobb, advisor.

James Becker, *Towards an Understanding of Prolonged Foot Pronation*, Department of Physiology, University of Oregon, Li-Shan Chou, advisor.

Julie Choisne, Toward the Development of a Clinically Useful Technique to detect changes in Subtalar Joint Kinematics in the Injured and Surgically Repaired Hind-foot, Department of Mechanical and Aeorspace Engineering, Old Dominion University, Stacie Ringleb, advisor.

Leah Enders, *The Role of Reduced Tactile Sensation in Altered Phalanx Grip Force in Persons with Stroke*, Department of Industrial Engineering, University of Wisconsin-Milwaukee, Na Jin Seo, advisor.

Shane Wurdeman, *Quantifying Stride-to-Stride Fluctuations in Amputee Gait: Implications for Improved Rehabilitation*, University of Nebraska Medical Center and Department of Environmental, Agricultural & Occupational Health, University of Nebraska at Omaha, Nick Stergiou, advisor.

ASB commends these outstanding graduate students and also gives special thanks to the evaluation committee (Ajit Chaudhari, Saryn Goldberg, Roger James, Doug Powell and Meghan Vidt) for the considerable time they put into the careful review of the GIA applications.

Look for presentations by the new GIA award winners at the ASB conference in 2013. In Gainesville this August, look for presentations or posters by the five award winners from a year ago.

Congratulations to all!



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Page 4



ASB Executive Board 2011-12

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Secretary/Membership Chair Michael Madigan

Greetings from Blacksburg!

Our annual election to replace out-going members of the Executive Board happened this month (see results below). Thank you to Fran Sheehan and Mark Grabiner for volunteering to serve on the Nominating Committee.

If you haven't already, please take a moment to renew your membership for 2012. You'll need to do this to take advantage of lower registration rates for members for the Annual Meeting in August. As a reminder, ASB memberships expire at the end of the calendar year.

The Annual Meeting in Gainesville in August marks the end of my three-year tenure as ASB Secretary/Membership Chair. I have thoroughly enjoyed my service to the society--getting to know so many people involved in the society and the Executive Board, gaining a better understanding of all of the work that goes on "behind the scenes" to make our society function by busy people volunteering their time and efforts, and contributing to the overall productivity of the society. I'd like to extend a big thank you to Angela DiDomenico, John DeWitt, and Erika Nelson-Wong for their service on the Membership Committee, and a special thanks to Gary Heise, Paul DeVita, Jill McNitt-Gray (road trip!) for all of their help along the way.

Thank you for the opportunity to serve you.



Treasurer Gary Heise

Where does ASB money go?

This represents a brief summary of ASB money; more details can be obtained by attending the society's business meeting, which is held during every annual meeting. The treasurer keeps a checking account, which fluctuates between \$12,000 and \$30,000 depending on income and expenses. I also monitor long-term savings (i.e., investments). Based on the volatile economy over the past 5 years, our investments have gone untouched so that those accounts have had time to recover. Presently, all investment accounts total approximately \$150,000. The Executive Board has wanted to have these liquid assets handy for any unforeseen fiscal emergencies.

Here are some of the more noteworthy expenses a treasurer encounters during the year.

Awards & Education

ASB Regional Meetings – \$8,000 (4 meetings supported) Grant in Aid Program - \$10,000 (5 winners) Student Travel Awards - \$1,750 (7 winners) Annual Meeting Awards - ~\$12,000 (cash + plaques)

Society Maintenance

Database + Credit Card processing fees - ~\$6,500 Executive Board Mid-year Meeting - ~\$7,000 Tax prep, supplies, shipping, etc. - \$1,800

From my experiences on the Executive Board (presently and 2000-2003), financial decisions are made collectively and transparently. In addition, a "what would the members think" mentality is evident at every board meeting. As you can see from my sampling of expenses, student members benefit the most (regional meetings, grant-in-aid, travel assistance), and with declining investments in education across the country, our focus on students will likely remain a top priority. We would be happy to hear your comments and questions at our Business Meeting in Gainesville, FL. See you there.



ASB Executive Board 2010-11

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"When I have a little money, I buy books; and if I have any left, I buy food and clothes." - Desiderius Erasmus Roterodamus



2012 Award Summary

Borelli Award Carlo De Luca

Jim Hay Memorial Award Jesus Dapena

Pre-Doctoral Young Investigator

Jacob Elkins, University of Iowa

Post-Doctoral Young-Investigator Award

Metin Yavus, Ohio College of Podiatric Medicine

Journal of Biomechanics Award Finalists

Nick Fey University of Texas as Austin

Karen Troy University of Illinois at Chicago

Clinical Biomechanics Award Finalists

Rafael Fortuna University of Calgary

Metin Yavus, Ohio College of Podiatric Medicine

Past-President Jill McNitt-Gray

As Past President, I have the pleasure of coordinating ASB awards. I would like to thank the more than 100 ASB members who have taken part in the award application and review process. We very much appreciate your valuable contributions to the field of biomechanics. We look forward to learning the outcome of awards yet to be decided at the annual meeting in Gainesville. These include the 2012 President's award, Journal of Biomechanics award, Clinical Biomechanics award, and the ASB student poster awards. In closing, it has been my honor and pleasure to serve the membership of the American Society of Biomechanics.

2012 Borelli Award Winner: Carlo De Luca

Dr. Carlo De Luca has been a pioneer in bringing engineering to modern electromyography. His collaboration with Dr. John Basmajian changed the field of electromyography. Carlo's detailed engineering analysis applied to the deconstruction of the EMG signal was pivotal in helping us to understand the complexities of that make up this wonderful instrument of muscle excitation.

Dr. De Luca's early work in the early 1970s was on EMG-driven models, estimating muscle forces from EMG signals. He then began studying EMG signal characteristics and published that influential chapter in Basmajian's Muscles Alive in 1979, eventually becoming co-author of the text in the 1985 edition. In the 1980s and 1990s he began many successful studies to examine muscle fatigue. In the early 1990s he began examining ways to deconstruct the EMG signal into its various motor units action potential trains.

Along the way, Dr. De Luca has developed electrode technologies and has founded companies devoted to EMG equipment for laboratory use. He holds 12 patents for his inventions in electromyography and spinal monitoring, he has given 134 invited presentations around the world, his publications have been cited over 10,000 times, his H-index is 48 (i.e., 48 of his journal papers have been cited at least 48 times according to Web of Science), and he has received over \$45 million of grants over the course of his career.

His service to the scientific community is impressive. He has served as President of the International Society of Electrophysiological Kinesiology. Dr. De Luca holds the rank of Fellow in three professional societies. He has served as Editorin-Chief of the Journal of Electromyography and Kinesiology and has been an editorial board member of six other journals. Taken together, these represent substantial contributions to the fields of electromyography and biomechanics.

2012 Jim Hay Memorial Award Winner: Jesus Dapena

Dr. Dapena obtained his PhD from The University of Iowa in 1979. He obtained an associate professor position at Indiana University in 1982. At the same time, he started working as the chief biomechanist for high jump for USA Track & Field, and developed an outstanding biomechanics service program for elite high jumpers during the next 25 years.

During Dr. Dapena's 25 years of biomechanical service work for USA Track & Field, he helped many US high jumpers become world champions and Olympic medalists. His contributions to the development of sports science programs and **Continued on page 8....** Page 7 the high jump program in the USA Track & Field are well recognized by sports scientists, athletes, and coaches world wide.

Besides providing biomechanical services to elite athletes, Dr. Dapena has also been teaching sports biomechanics and conducting high quality sports biomechanical research. He has published over 50 peer reviewed research articles. His research work has significantly contributed to not only the development of sports biomechanics, but also the development of biomechanics. The real-time three dimensional coordinate data collection methods currently used in all videographic three dimensional data collection systems are based on the technique he published in 1982.

ASB Fellows: Class of 2012

The ASB Fellows are pleased to announce the 2012 class who will be inducted at the banquet in Gainesville. Please congratulate them for their exceptional professional achievement and service to the field of biomechanics.

Scott Delp, Stanford University Mary Rodgers, University of Maryland Paul Devita, East Carolina University Rick Lieber, University of California, San Diego

Emeritus Status for Bob Gregor

The ASB Executive Board would like to recognize Bob Gregor, a Past President and ASB Fellow, as an emeritus member. This honor is reserved for long-standing members of the Society who have made substantial contributions to ASB.

Dr. Gregor completed graduate studies in exercise physiology, systems physiology and biomechanics at Penn State in 1975, and assumed a faculty position in the Department of Kinesiology at UCLA. In 1994, he took a faculty position at Georgia Tech and retired as Emeritus Professor in 2008. While at Georgia Tech he was the Founding Chair of the School of Applied Physiology and initiated three graduate programs including the first Masters Degree program in orthotics and prosthetics (O&P), was awarded NIH funding for a PhD training program in O&P and started a PhD program in Applied Physiology. He currently holds a position as Adjunct Professor in the Division of Biokinesiology and Physical Therapy at the University of Southern California. His primary area of research is in musculoskeletal biomechanics and neural control having developed research labs at both UCLA and Georgia Tech using both animal and human models.

Dr. Gregor served as a member of the Executive Board (1993-4, 1995-8), as Program Chair for the Annual Meeting at Ohio State (1994), as Meeting Chair for the Annual Meeting at Georgia Tech (1996) and as President (1996-7). He has recently been voted to the level of Fellow Emeritus effective 2012. In addition Dr. Gregor is an Emeritus Fellow in the American College of Sports Medicine; served on the Editorial Board, Medicine and Science in Sports and Exercise (1980 – 2008); was a Founding Member of the International Society of Biomechanics (1973); Co-Chairman of the Organizing Committee, XIIth International Congress of Biomechanics, UCLA (1989); was a Founding Member, Biomechanics and Physiology Sub Commission, Medical Commission, International Olympic Committee (1980-2003) and was Founding Editor-in Chief, Journal of Applied Biomechanics (1993-1996).



Additional 2012 Awards

ASB Fellows Scott Delp, Stanford University

Mary Rodgers, University of Maryland

Paul Devita, East Carolina University

Rick Lieber, University of California, San Diego

Student Travel Awards

Abigail Carpenter, University of Northern Colorado

Charalambos Charalambous, Medical University of South Carolina

Ata Kiapour, University of Toledo

David Lipps, University of Michigan

Dustyn Roberts, Polytechnic Institute of New York Univesity

Shane Wurderman, University of Nebraska Medical Center

Clinton Wutzke, University of North Carolina, Chapel Hill

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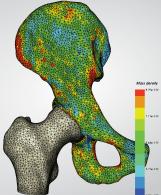
New and improved features of ScanIP+FE+CAD version 5.0 include:

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 automate repetitive tasks or write your own plugins
- Improved Grayscale Materials Assignment: easier to use and more interactive 3D visualization for better feedback
- **New and Improved Tools and Exports:** enhanced 2D and 3D view usability and new dedicated OpenFOAM export
- Parallelised Remeshing in +FE Free and New Fast Preview Modes: significantly improve the speed and performance of your operations

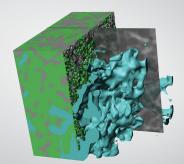
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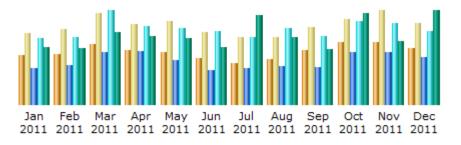


Communications Chair Zong-Ming Li

Time flies... I can hardly believe that it has been almost three years since I began serving as Chair of the ASB Communications Committee. This will be my last newsletter contribution on the Committee's behalf.

As you can imagine, our website serves as an important channel for our Society, both to our members and to the public. For example, in 2011, our site received 685,191 hits, which is equivalent to 57,000 hits/month and 2,000 hits/day! The most visited page is the Graduate Programs in Biomechanics page, which provides a comprehensive list of the biomechanics programs offered throughout the United States. The popularity of this page can likely be attributed to the interest of students looking to pursue careers in biomechanics, which is good for our profession. I am glad that our effort to compile this program information (a week of work by my lab members in 2006) has paid off! Other popularly visited pages include Awards, Conferences, Students, Board, and Membership.

In the world today, digital communication is evolving rapidly. Keeping pace with this changing technology, we have more than 15 communication modules scattered here and there online. Recently, the Executive Board appointed a task force to work with third-party webmasters to centralize ASB communications, which integrates some (if not all) of the communication features, such as the web pages, videos, tutorials, course materials, institutional/societal memory, webinars, archives, photos, membership database, abstract submission, conference organization, job postings, and Facebook and Twitter access.



Month	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Jan 2011	12336	17678	28291	50146	3.92 GB
Feb 2011	12642	18606	30316	50417	3.83 GB
Mar 2011	15135	22681	39775	70895	4.92 GB
Apr 2011	13552	19982	40629	59488	4.63 GB
May 2011	13063	20847	33843	57646	4.51 GB
Jun 2011	11554	17959	26663	55323	3.95 GB
Jul 2011	10297	16591	27588	50968	6.13 GB
Aug 2011	11187	16536	29255	57936	4.55 GB
Sep 2011	13656	19149	28751	51795	3.79 GB
Oct 2011	15536	21296	39999	63797	6.17 GB
Nov 2011	15561	23226	39941	61478	4.33 GB
Dec 2011	13999	20375	36074	55302	6.38 GB
Total	158518	234926	401125	685191	57.11 GB

Monthly history of ASB website traffic

Page 10

Continued on page 11....



ASB Corporate Members 2011

Corporate membership categories are aimed at encouraging affiliation by commercial organizations that market products which are used by the biomechanics research community, or companies that are otherwise engaged in activities that fall within the Society's general interest areas. Companies wishing to become a Corporate Member are encouraged to contact Gary Heise, Treasurer.

The ASB Executive Board is pleased to recognize the following companies:

Sustaining Member Simulia

Supporting Members C-Motion Polhemus

Partner Members Tekscan, Inc. PhoeniX Technologies, Inc. Northern Digital, Inc. Volume 25, Number 1 A new communication feature, "ASB Videos of the Month," has been very well received by our biomechanics community, as indicated by the 6,800 hits since its debut in June 2010. Our video review ad hoc committee appreciates your submission of many fascinating biomechanics videos, even though we have had to make the difficult decision to decline a few. Please continue to supply Matt Seeley and me with your video submissions so that we can satisfy the demand for this popular resource.

I would like to take this opportunity to thank several individuals for their generous help throughout my service term. I thank Dr. Iain Hunter for providing valuable assistance in archiving the abstracts of our annual meetings on the web over the past years. Special thanks go to Mr. Jeff Zeminski for maintaining the popular web page of graduate programs and for providing many requested updates for more than five years. It has been a pleasure working with the members of the video committee, Drs. Paul DeVita, Jill McNitt-Gray, and Matt Seeley. I thank them for reviewing the videos and enthusiastically submitting videos themselves. Finally, I thank Dr. Andrew Karduna (my predecessor) for being very resourceful when I was in need of help.

I am happy and fortunate that Dr. Michelle Sabick, our Newsletter Editor, will step up to chair the Communications Committee for the next few years. This really makes the transition smooth, as Michelle has been a part of the Communications Committee and is familiar with our work. In a nice flow within the Committee, Dr. William Ledoux will assume the role of Newsletter Editor after helping to edit the Newsletter's Events Calendar section in the past. I encourage our fellow members to volunteer for our communication tasks and get more involved in ASB in general. This will strengthen the function and efficiency of ASB.

It has been a great honor and pleasure to work with our dedicated ASB Board Members in service to our Society. I look forward to continued service in other capacities in the future. In the words of an ASB past president, "*Once you are hooked up with ASB, you never get off.*"

"First we thought the PC was a calculator. Then we found out how to turn numbers into letters with ASCII — and we thought it was a typewriter. Then we discovered graphics, and we thought it was a television. With the World Wide Web, we've realized it's a brochure."

- Douglas Adams

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*US patent number 7823460

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AMTI proudly funds the Force and Motion Foundation. During the 2011–2012 academic year, the foundation will award \$10,000 scholarships to help defray the educational expenses of two promising graduate students. To apply for academic and travel scholarships, view the Virtual Poster Session, and network with students and researchers from around the world, visit ForceAndMotion.org. Please use Scholarship Reference ID# AMTI-8253 when applying.





M^{*}

FORCE AND MOTION





Check in often for updates to the program on Facebook, the meeting website and the program website



Note: Mid-August in Florida is **hot** and **humid** with chances of afternoon thundershowers.

Feel free to dress like a native Floridian in comfortable attire, but bring a sweater since the indoor facilities will be air-conditioned.

Program Chair Liz Hsiao-Wecksler

The 2012 Annual Meeting from August 15th - 18th in Gainesville, Florida is shaping up to be another amazing event for ASB! Local host co-chairs, Chris Hass, Mark Tillman and Mark Bishop have been working hard to provide a memorable experience.

This year we broke another record with 536 abstract submissions and a 93% acceptance rate. To accommodate the increase in abstracts and allow more opportunities for oral presentations, we have added Thematic Poster Sessions which will run in parallel with the three Podium Presentation Sessions. These thematic poster sessions will allow more time to discuss each paper. Authors will generate extra-large posters, which will be displayed all day in the session room, and will also orally present their work in a "3 in 5" format, i.e., 3 presentation slides in 5 minutes. The 3 in 5 period will be followed by extended Q&A period.

Also new this year will be the Quickie Research Studies. Annual meeting attendees will have opportunities to participate as a research subject in studies that take less than 5 minutes. Help fellow ASB members with collecting data on a large subject population quickly! Research study participation is voluntary and not dependent on ASB membership.

Highlights of the 2012 Annual Meeting include:

- **Tutorials:** "Filtering of Biomechanical Data" by John Challis; "Overview of the Annual Grand Challenge Competition to Predict In Vivo Knee Loads" by B.J. Fregly; "Measuring 3D Skeletal Kinematics Using Radiographic Images" by Scott Banks and Shang Mu
- Lab Tours: Visit labs in the Departments of Orthopaedics, Applied Physiology and Kinesiology, and the Brain Rehabilitation Research Center
- Student Activities: "Tips to Help You Excel As a Student and Beyond" organized by Meghan Vidt; "Student Mentoring Program"
- Keynote Lecture: Professor Susan Harkema
- Memorial Tribute to Professor David Winter
- Invited Symposia: "ASB Fellows" organized by Jill McNitt-Gray; "Effects of Aging on the Energetics and Biomechanics of Gait" organized by Jason Franz and Rodger Kram; "Teaching Biomechanics" organized by Cécile Smeesters; "Biomechanics Associated with Seating" organized by Tammy Bush
- Quickie Research Studies: "Want to test proprioception? There's an app for that" PI: Andrew Karduna; "Portable Concussion Assessment Using the iPad2" PI: Jay L. Alberts
- Opening Reception at the Florida Museum of Natural History and Conference Banquet at the Rietz Union Grand Ballroom
- **Reduced Student Registration Fee Program:** Attendees from underrepresented groups, persons with physical disabilities, and female students participating in the student mentoring program may receive partial to full reimbursement of registration fees. This program is first come first served. Sponsored by the NIH.



simpleware

NEW US SALES OFFICE

The new Simpleware US sales office is based in the Washington DC Area and will be managed by Kerim Genc, PhD. Kerim brings a wealth of specialist knowledge and experience in Biomechanics applications, and is looking forward to supporting our well established North American customer base.

Simpleware develops world-leading software solutions for the conversion of 3D image data into high-quality CAD, Rapid Prototype, CFD and Finite Element models. The new office forms a basis of our business and service expansion and will enable us to build a stronger relationship with our customers in the US and Canada.

For further details please contact Kerim at:

6023 Curtier Dr. Unit D Alexandria, VA 22310 Phone: (571) 222-4169 Cell: (571) 926-2246 Email: k.genc@simpleware.com



OF THE AMERICAN SOCIETY OF BIOMECHANICS

AUGUST 15 - 18, 2012 GAINESVILLE, FLORIDA

MEETING CHAIRS

Mark Tillman and Chris Hass ORGANIZING COMMITTEE Mark Bishop and Melissa Wohlstein PROGRAM CHAIR Elizabeth T. Hsiao-Wecksler

UF FLORIDA

A View From the Blue Michelle Sabick

This column marks the end of my six-year tenure as Newsletter Editor for the American Society of Biomechanics. I am happy to report that Bil Ledoux, longtime contributor to the newsletter, will be taking the reins starting in August. Bil has compiled the Events Calendar for years and has also coordinated the advertising. Bil is the most detail-oriented draft reviewer that I have worked with, often saving me from sending out a newsletter full of errors and inconsistencies. With all his behind-the-scenes experience, Bil will be a fantastic editor and will take this document to the next level.

Bil and I will continue to work together as I move into the role of chair of the Communications Committee. This committee will be working to keep the society current in terms of its use of the web, smartphones, and newly emerging technology to communicate with our members. As an example of those efforts, our society now has a presence on both Facebook and Twitter. I truly view these venues as the future of ASB communications and possibly a replacement for the newsletter in the not-too-distant future. We have over 200 followers right now, and would like to see those numbers grow to 500 or more.

In this vein, we are also planning to provide conference updates, reminders, and general information via Facebook and Twitter daily during the Annual Meeting in Gainesville. Please remember to "like" the ASB Facebook page or follow our Twitter feed now to receive the latest information about the society (follow the links at the right). Then, be sure to monitor the ASB sites during the meeting for real-time information and daily highlights. You can even use them to connect/reconnect with colleagues while in Gainesville.

The ASB social networking sites will be a great resource leading up to the annual meeting for important reminders, deadlines, and information. Jason Franz, the Facbook moderator for ASB, would love to have your feedback now and leading up to the conference so that he can provide the most relevant information to the membership. Please send him a message via Facebook or e-mail if you have suggestions or additional ideas.

I would like to thank all the members of the ASB Executive Board who have served during my tenure as editor. In addition, a special thanks goes out to Bil Ledoux, Jason Franz, and Tarang Jain, without whom I couldn't do the job. I'll leave you with a great quote from John Lennon. Be happy!

"When I was 5 years old, my mother always told me that happiness was the key to life. When I went to school, they asked me what I wanted to be when I grew up. I wrote down 'happy.' They told me I didn't understand the assignment, and I told them they didn't understand life."

-John Lennon



Find us on Facebook or Follow us on Twitter

Facebook: American_Society_of_ Biomechanics

Twitter: @Am-SocBiomech



NOTE:

For a more compre-

hensive internation-

al listing, please visit

ISB's website

Events Calendar William Ledoux

ASME Summer Bioengineering Conference June 20 - 23, 2012, Fajardo, Puerto Rico Abstract deadline - past

European Society of Biomechanics July 1 - 4, 2012, Lisbon, Portugal Abstract deadline - past

European College of Sport Science July 4 - 7, 2012, Bruges, Belgium Abstract deadline - past

3-D Analysis of Human Movement July 18 - 20, 2012, Bologna, Italy Abstract deadline - past

American Society of Biomechanics August 15 - 18, 2012, Gainesville, Florida Abstract deadline - past

International Shoulder Group August 22 - 24, 2012, Aberystwyth Univ., Wales, UK Abstract deadline - past

IEEE Engineering in Medicine and

Biology Society August 28 - September 1, 2012, San Diego, California Abstract deadline - past

International Functional Electrical Stimulation Society

September 9 – 12, 2012, Banff, Alberta, Canada Abstract deadline - past

European Society of Movement Analysis for Adults and Children September 10 - 15, 2012, Stockholm, Sweden Abstract deadline - past

International Research Council on Biomechanics of Injury September 12 - 14, 2012, Dublin, Ireland Abstract deadline - past

European Orthopaedic Research Societv September 26 - 28, 2012, Amsterdam Abstract deadline - past

Human Factors and Ergonomics Societv October 22 - 26, 2012, Boston, Massachusetts Abstract deadline - past

International Conference on NeuroRehabilitation November 14 -16, 2012, Toledo, Spain Abstract deadline - July 1, 2012

Orthopaedic Research Society January 26 – 29, 2013, San Antonio, Texas Abstract deadline - August 6, 2012 www.ors.org/annual-meeting-2013/

American Academy of Orthotists and Prosthetists February 20 - 23, 2013, Orlando, Florida Abstract deadline - August 6, 2012

Gait and Clinical Movement Analvsis Society May 14 - 17, 2013, Cincinnati, Ohio Abstract deadline - TBA

American College of Sports Medicine May 28 - June 1, 2013, Indianapolis, Indiana Abstract deadline - past

International Society of Biomechanics August 4 - 9, 2013, Natal, Brazil

Abstract deadline - TBA

World Congress of Biomechanics July 6 - 11, 2014 Abstract deadline - TBA



BPTIMA Human Performance System





AMTI proudly funds the Force and Motion Foundation. During the 2011–2012 academic year, the foundation will award \$10,000 scholarships to help defray the educational expenses of two promising graduate students. To apply for academic and travel scholarships, view the Virtual Poster Session, and network with students and researchers from around the world, visit <u>ForceAndMotion.org</u>. Please use Scholarship Reference ID# AMTI-7852 when applying.