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Newsletter

Volume: 24 - Number: 2, December 2011

From the President

Don Anderson

I have always loved the way that the American Society of Biomechanics operates! Someone has a good idea, and they make it happen. They don't have to do it alone, because there are other members happy to help. No (paid) professional staff to get in the way, or burdensome approval process or committee structure to navigate. [As a result, we operate with a very low administrative overhead.] From idea to action is as simple or as difficult as you choose to make it. When at our best, ASB is the ultimate grass roots organization.

- Online free Annual Meeting abstract submission process? Thank you Art Kuo!
- Facebook and Twitter? Thank you Meghan Vidt and Michelle Sabick!
- Online educational clearinghouse? Thank you Andy Karduna!
- Share your classroom webcasts? Thank you Francisco Valero-Cuevas!
- Host a Regional ASB meeting? Three-page proposal and you can have \$2000 of funding. And, Gerry Smith wants to make it easy for you!

What great ideas do you have, and what is keeping you from making them happen? Maybe you think that there are better ways to run our annual meetings. Perhaps you believe that more students need to be exposed to our field. Maybe you'd like to see ASB reaching out more to high school students, or you have a great idea for adding more value to ASB membership.

Get Involved! The act of imagining (and realizing) a better ASB is a creative process. ASB is now a 34-year-old professional organization. I have been involved only 23 of those years, but in that time I can tell you that many people have shared ideas and offered their service to make the ideas a reality. ASB is a better organization because of it.

Another part of what is so great about the ASB approach is that new people joining the organization bring new insights, experiences, and ways of doing things with them. That has a clear impact on how we operate. At the same time, the Executive Board has been working hard to find ways for our more experienced members to share all the insights and wisdom that they have gathered over their years in the field. This makes for a powerful force to continue the growth of ASB.

Please get involved and participate in your professional society. Let the Executive Board members know how they can help you to contribute. When you don't, it is a lose-lose proposition. You miss an opportunity to contribute and the ASB misses an opportunity to grow and change.

Student's Corner

Meghan Vidt

The leaves are falling and the holidays are just around the corner! With the fall semester comes the chance to reflect on the 25th Annual Meeting, which was held in Long Beach, CA, in August. This was a great time to learn about exciting research in biomechanics, and network with other meeting attendees. There was a lot of activity on the student front at this year's meeting, and the enthusiastic attendance at all the events made each of them a great success!

This year, the Student Event was re-organized, and we had the pleasure of hearing presentations from ASB members. Dr. Chaudhari delivered an engaging discussion about how to deliver an effective poster and oral presentation. Student members, including Clint Wutzke, Jason Franz, and Boyi Dai, shared their experiences with hosting an ASB regional meeting and the various opportunities ASB offers to students through regional meetings, student Grants-in-Aid, and the newly formed Student Advisory Committee. There was an overwhelming response to this new format, with over 70 students in attendance! On the social side, the Student Night Out was reinstated this year. This social event was attended by over 40 students. The Rock Bottom Brewery provided a relaxed atmosphere for students to sip a microbrew and network with one another. A good time was had by all!

This year the one-on-one student mentor program had a record breaking 34 student participants. Thank you to all the students and mentors who participated. Other networking opportunities at this year's meeting were provided by the Women in Science Breakfast, where 49 women were in attendance, including 27 students. This event featured informal, round-table conversations over breakfast on the terrace. The Diversity Luncheon was attended by 27 members, including 18 students. This year's event was led by Drs. Alaa Ahmed and Francisco Valero-Cuevas, and featured an open discussion about the challenges and successes of diversity-related issues at different institutions. With the excellent turn out from students and scientists alike, these events were very successful. However, if you have any suggestions for how these events can be improved for next year's meeting, please email me (mvidt@wakehealth.edu).

Now that the school year is in full swing, I am working closely with the Student Advisory Committee to identify ways that ASB can further enhance the value of student membership and serve as a resource for students. We are exploring a few ideas, so if you have any thoughts you would like the committee to consider, please send me an email. We're here for you!

Looking toward the spring semester, keep an eye open for announcements about upcoming ASB regional meetings. These meetings are small and provide a great way for students to present their work and receive constructive feedback. We hope you will consider attending a regional meeting near you.

Finally, it's never too early to start thinking about your abstract for the 2012 Annual ASB Meeting. ASB 2012 will be hosted by the University of Florida in Gainesville, FL, from August 15-18, 2012. This meeting will again feature many of the student events from the 2011 meeting, providing lots of opportunities to get connected within ASB. If you have any suggestions or ideas for the upcoming Annual Meeting, please don't hesitate to [contact me](#). Enjoy the upcoming holiday season and best of luck with classes and research!



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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



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](#).



Attention!

The ASB Annual Meeting will be in Gainesville, Florida in 2012!

Abstract Submission Deadline: March 2, 2012

See the [conference website](#) for more details



Greetings of the Season and Best Wishes for the New Year!

Education Committee

Gerald Smith

We wish to thank the tutorial presenters at the annual meeting in Long Beach, California in August for the stimulating kick off to the conference that they provided. Rick Lieber from University of California, San Diego had the first tutorial on "Plasticity of Muscle Mechanics". The second session was presented by Tom Kepple and Scott Selbie from C-Motion Inc. and focused on the topic: "Visual3D: Inside the Black Box". About 100 participants attended the sessions in a nearly full conference room at the Westin Hotel; we trust that everyone went away with some new ideas on these topics.

At each annual conference the tutorial sessions are organized with an eye to present a useful topic for the student membership of ASB. We solicit topic and speaker suggestions each year through the conference evaluation responses. However, if some fresh tutorial ideas come to mind over the next weeks before the program is finalized, please forward them to me as we are always looking ahead to future conference events.

While the annual ASB conference site is generally known well in advance, each year new plans are made for regional conferences. Proposals for the regional conferences are submitted by the end of September each year and the ASB executive board evaluates the submissions and decides on funding for each proposal. For 2012, there are four regional conferences which have received support from ASB. These are all very student-centered events which provide opportunity for interacting with well established biomechanists, to meet other students who may be potential collaborators, and of course to provide a venue for learning presentation skills in a friendly environment. We are pleased to announce the regional meetings for Spring of 2012:

February 24, 2012

2012 Human Movement Science Research Symposium, University of North Carolina at Chapel Hill,
Chapel Hill, North Carolina

April 13-14, 2012

South Central ASB Meeting, University of Texas, Southwestern Medical Center
Dallas, Texas

April 20-21, 2012

2nd Annual Rocky Mountain ASB Regional Meeting, Boise State University
Boise, Idaho

May 18-19, 2012

Northwest Biomechanics Symposium, University of Oregon
Eugene, Oregon

We encourage students and advisors to plan on attending and presenting at the regional conference in your area. Note that these four regions do not span the whole country and leave substantial geographic gaps. We encourage other groups from the east, midwest and southwest in particular to consider organizing such a regional conference to benefit students in those areas.



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As we compile this newsletter in the beginning of December, the deadline for submission of student Grant-in-Aid awards has just passed. The submission date was moved forward this year to allow the award scheduling to better fit the yearly ASB calendar. We anticipate completing proposal review in sufficient time to announce awards with funding beginning in April and running through March of the following year. As one of the requirements for a GIA award is to present the research project in the following ASB conference, the new timing will allow for abstract submission after nearly a full year of funding rather than the nine months available under the old schedule. We trust this timing will help students meet their presentation obligations more easily. For the current round of submissions, 24 proposals have been received--a considerable jump from the 12 of last year's award round. Announcement of the award winners will be made in the Spring of 2012.

Call for Proposals

ASB Annual Meeting Participant Research Study

The American Society of Biomechanics (ASB) is piloting a new initiative that involves conducting research studies at its annual meeting. The ASB annual meeting regularly has 500-600 attendees, many of whom are recurring participants and experimentalists that appreciate the difficulty of obtaining large test subject sample sizes. **This call for proposals offers ASB members the opportunity to propose research studies that will benefit from the recruitment of test subjects from among the conference attendees.**

Proposal submission deadline: January 9, 2012.

For more details on the proposals, click [here](#). Interested investigators are encouraged to contact: 2012 ASB Program Chair, [Liz Hsiao-Wecksler](#) or Program Chair – Elect, [Rakié Cham](#)



A photograph of the University of Florida's iconic red brick tower and the adjacent building with a red roof, set against a clear sky. The tower is on the left, and the building extends to the right. Lush green trees are in the foreground.

36th Annual Meeting
**OF THE AMERICAN SOCIETY
OF BIOMECHANICS**

AUGUST 15 - 18, 2012
GAINESVILLE, FLORIDA

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Mark Bishop and Melissa Wohlstein

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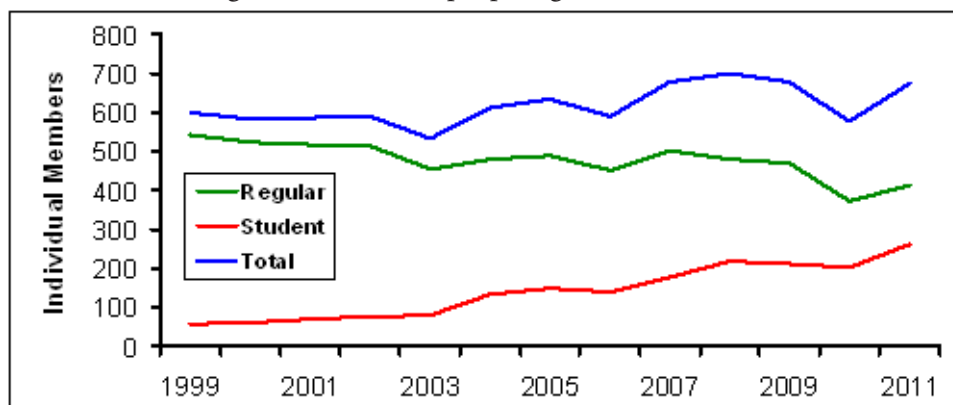
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Secretary/Membership Chair

Michael Madigan

Howdy, friends. It is customary for the Membership Chair to provide an update on our membership numbers in each Newsletter. Our total number of members has recovered from the dip we experienced last year. It is interesting to note, though, that the number of Regular members (412) continues a slow decline from 2007. Our number of student members (261) is higher than ever. This is good news for the long-term health of the society because many of these students will transition to Regular membership upon graduation.



Congratulations to the inaugural class of ASB Fellows that was announced at the annual meeting in Long Beach. All of these individuals are past-presidents of ASB.

As a reminder, Fellow status is awarded to select members of ASB to recognize exceptional professional achievement and service, and to encourage continued service to the Society in a leadership role. Prospective Fellows must be nominated by a Fellow, and must be approved by two-thirds vote of the ASB Executive Board. Additional information on Fellow status, as well as the application for Fellow status, is available on the ASB website at the 'Membership' link on the left-hand-side of the home page.

In an effort to serve the membership and various organizations, it is sometimes helpful to identify individuals among our membership with a selected area of



Inaugural ASB Fellows: Ronald F. Zernicke, Walter Herzog, Kenton Kaufman, Philip E. Martin, Melissa Gross, Robert J. Gregor, Joseph J. Crisco (strategically positioned between the two women), James Ashton-Miller, Irene Davis, Thomas D. Brown, Peter R. Cavanagh, Mark D. Grabner.



ASB Executive Board 2010-11

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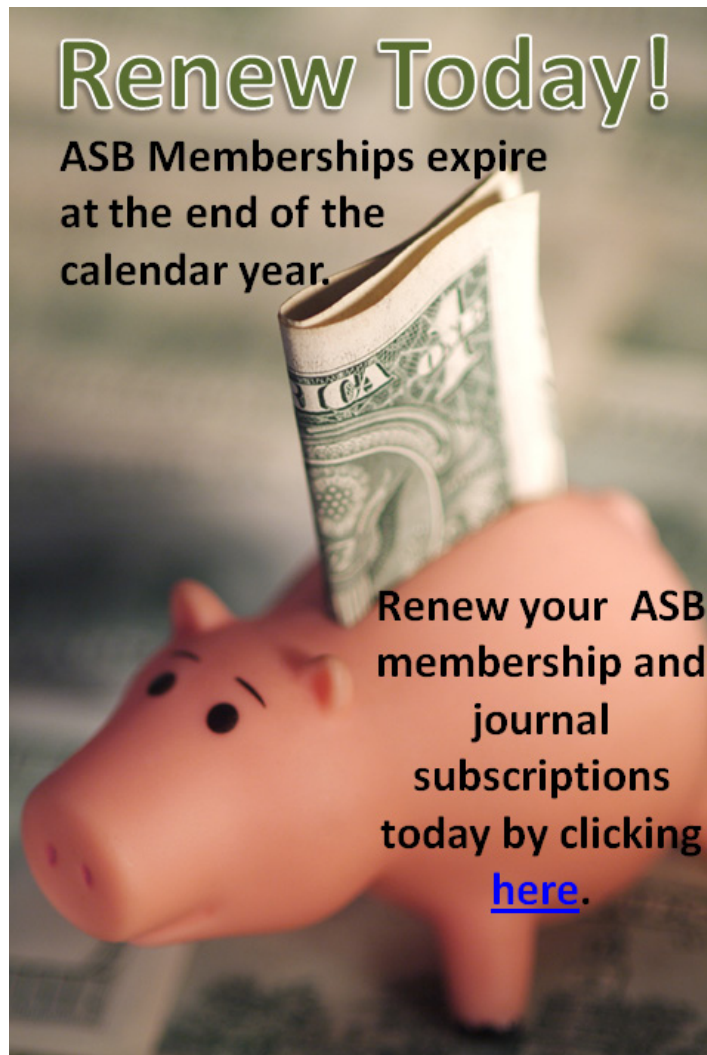
expertise. When you [renew your membership](#) for 2012, you will notice that the “Interests” field in our membership database is now required. Please take the time to enter a few keywords on your specific area of interest. This will be a great help in the future. Please also take the time to ensure your email address and other contact information is all up-to-date.

As we all know, research is a challenging endeavor. From unfunded proposals to unexpected experimental results and rejected papers, researchers must endure seemingly constant criticism and failure. I remember when I got my first manuscript rejected. I was crushed emotionally, and it took me days to get over it. Not only has my skin grown thicker over the last decade or so, but it is these struggles that make success so gratifying. Eventually, I got that manuscript accepted by another journal, and it was a great feeling to overcome the initial failure. A quote by an 18th century English author gives me comfort that even simple-minded individuals like myself can succeed as long as they persevere.

“Great works are performed, not by strength, but by perseverance.”

- Samuel Johnson

I wish you perseverance in your research and life, and a joyous holiday season.



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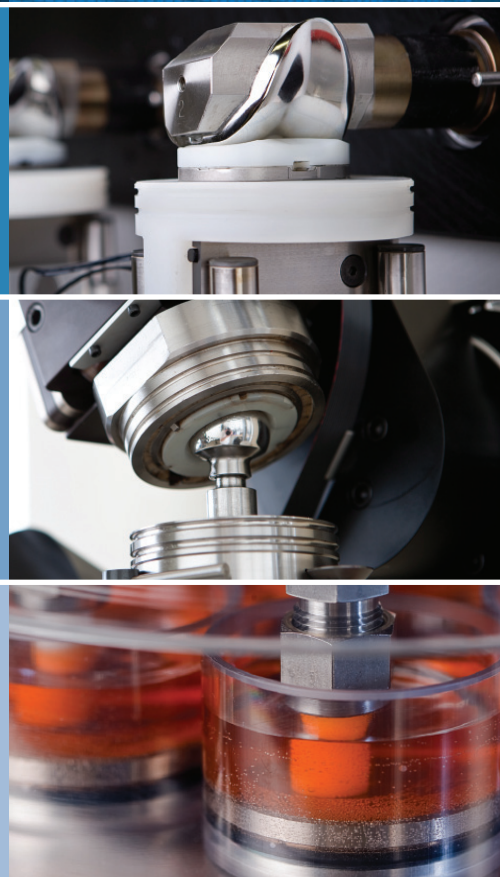
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ASB Corporate Members 2011

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:

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Communications Chair

Zong-Ming Li

Videos of the Month

As you know, ASB launched “[Videos of the Month](#)” in June of 2010. The purpose is to share internet biomechanics videos among biomechanists and others interested in biomechanics. Video links are selected from the nominated videos. The website is very popular and has received >5660 hits so far. Please continue to submit your video nominations to [Matt Seeley](#) and [me](#).

ASB on Facebook and Twitter

To communicate with the membership on a more timely basis, we have added ASB on Facebook and Twitter. We are providing up-to-date information on upcoming deadlines, such as conference registration, grant opportunities, and regional meeting. Please “[like](#)” or “[follow](#)” us to be abreast with ASB.

Website Update

We have a number of updates on the website after each annual meeting including award receipts, grants, Executive Board, and conference abstracts. We also added a web page of “[Endorsed Meetings](#)”, which lists future ASB annual meetings, ASB regional meetings, and other meetings that are relevant to biomechanics. Other resources such as educational materials and research webinars are added to the website. Please visit our [website](#) for these updates.



FACULTY OPENING

The Department of Mechanical Engineering at Stanford University (<http://me.stanford.edu/>) invites applications for a tenure-track faculty appointment at the junior level (Assistant or untenured Associate Professor) in the broad area of **Biomechanical Engineering**. Areas of interest include, but are not limited to, mechanobiology, cell mechanics, transport phenomena in biological systems, bio-inspired design, design and analysis of biodevices or bioinstrumentation, biomaterials, and modeling of physiological systems. In general, we give higher priority to the overall originality and promise of the candidate's work than to the area of specialization.

An earned doctorate, evidence of the ability to pursue a program of research, and a strong commitment to graduate and undergraduate teaching are required. Successful candidates will be expected to teach courses at the graduate and undergraduate levels and to build and lead a team of graduate students in Ph.D. research.

Applications should include a curriculum vitae with a list of publications, a one-page statement each of research vision and teaching interests, and the names and addresses of five references. Please submit your application online at:

http://me.stanford.edu/research/open_positions.html

The review of applications will begin on October 1, 2011. However, applications will be accepted until the position is filled.

Stanford University is an equal opportunity employer and is committed to increasing the diversity of its faculty. It welcomes nominations of and applications from women and members of minority groups, as well as others who would bring additional dimensions to the university's research and teaching missions.

THE UNIVERSITY OF MICHIGAN

Faculty Positions, Department of Industrial and Operations Engineering

The Department of Industrial and Operations Engineering at the University of Michigan invites applications and nominations for faculty positions beginning September, 2012.

We seek outstanding candidates for faculty positions in the areas of Human Factors and Ergonomics at all levels and Production, Distribution and Logistics at the Assistant/Associate Professor level. Applicants in research areas including cognitive and physical ergonomics, system safety, production systems, supply chain management, service systems, and healthcare engineering are encouraged to apply.

Candidates must have a Ph.D. and must demonstrate a strong commitment to high-quality research and evidence of teaching potential. Experience related to manufacturing and/or service operations is desirable. Candidates for Associate or Full Professor should have a commensurate record of research publications and are expected to provide organizational and research leadership, develop sources of external funding, build relationships with industry, and interact with faculty colleagues.

Candidates should provide (i) a current C.V., (ii) a list of references, and one page summary statements describing: (iii) career teaching plans; and (iv) research plans. Candidates are encouraged to have their references send recommendations to us directly. The application review process will begin on November 7, 2011, but the positions will remain open and applications will continue to be reviewed until appointments are made.

We seek candidates who will provide inspiration and leadership in research and actively contribute to teaching. We are especially interested in candidates who can contribute, through their research, teaching and/or service, to the diversity and excellence of the academic community. The University of Michigan is responsive to the needs of dual career families.

Send inquiries and responses to:

Email: IOEFacultySearch@umich.edu

Web: http://ioe.engin.umich.edu/people/fac/fac_search/

or mail to:

Faculty Search Committee c/o Gwendolyn J. Brown

Department of Industrial and Operations Engineering

University of Michigan

1205 Beal Avenue

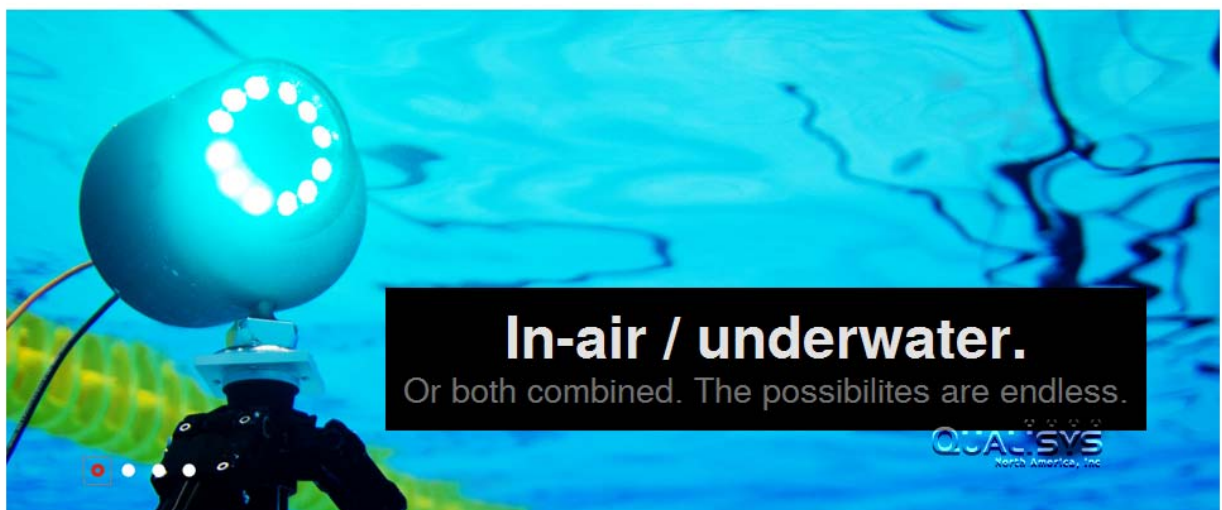
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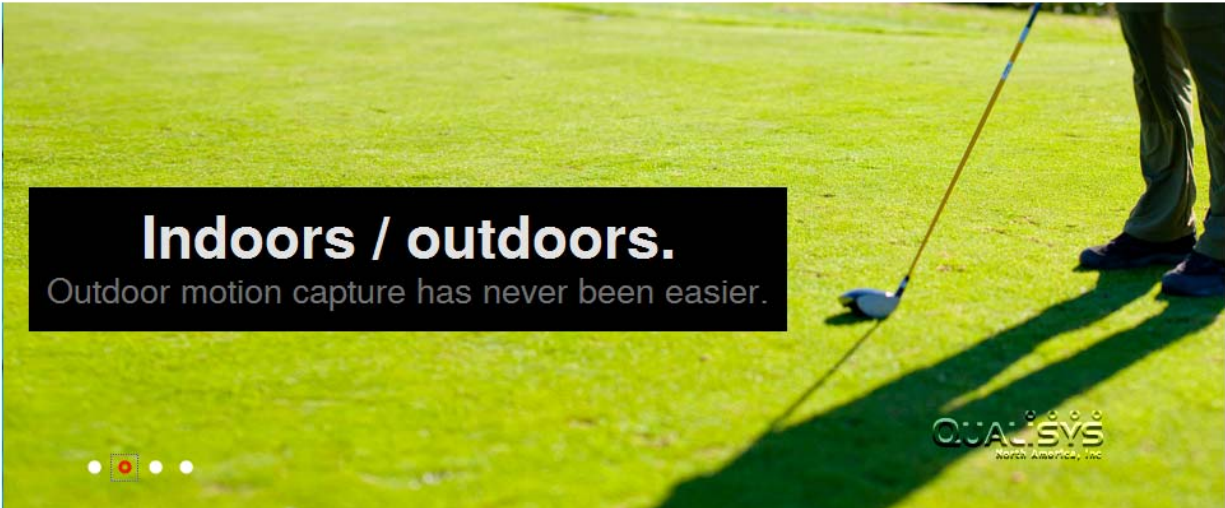


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CALL FOR ABSTRACTS

Annual Meeting of the American Society of Biomechanics

August 15 to 18, 2012


The 2012 Meeting of the American Society of Biomechanics will be held August 15 to 18 in Gainesville, Florida. The organizers of ASB encourage the submission of abstracts on the full spectrum of biomechanics topics, including aging, biofluidics, comparative biomechanics, cellular and tissue mechanics, computational biomechanics, ergonomics, imaging, injury prevention, instrumentation, locomotion, molecular motors, motor control, neuromechanics, orthopedics, prosthetics/orthotics, rehabilitation, robotics, sports, tissue engineering, and vehicle occupant safety. Both modeling and experimental work is encouraged at scales ranging from molecular to whole body.

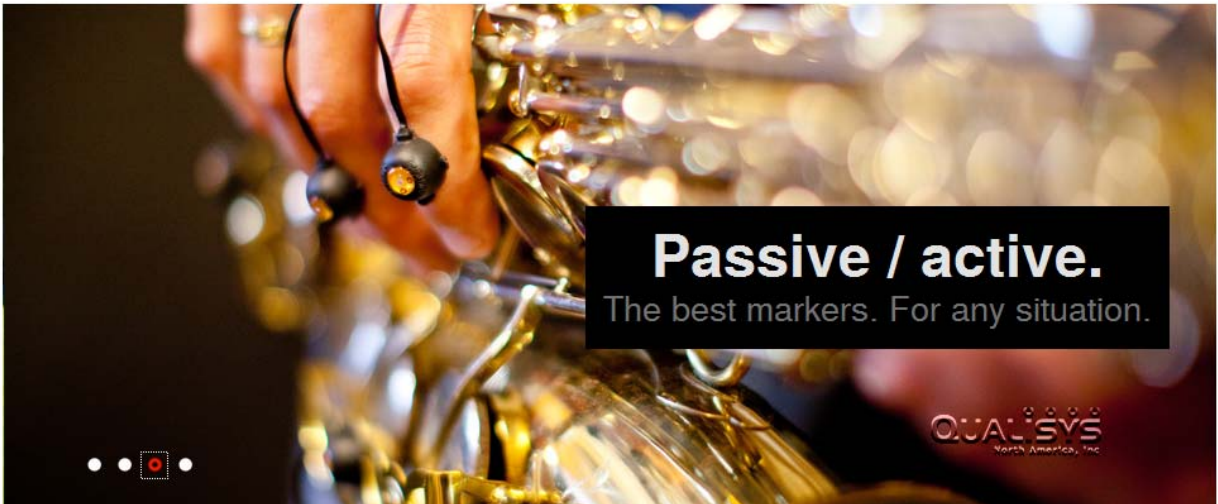
The program will include concurrent sessions, poster sessions, lab tours, tutorials, symposia, keynote lectures, best paper competitions (Clinical Biomechanics, Journal of Biomechanics), and honorary awards (Borelli, Hay, Young Scientist Pre-Doctoral, Young Scientist Post-Doctoral).

The abstract submission website will open on February 2, 2012 and abstracts will be accepted until 5:00 PM EST on March 2, 2012.


Meeting information is available through the ASB 2012 conference [website](#), including links for abstract submission, meeting registration, and details on the eligibility and nominating requirements for each of the awards.


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Got A Minute?

Abstract reviewers needed for ASB 2012!


To volunteer, please send your name and area of expertise to Liz Hsiao-Wecksler, ASB 2012 Program Chair at: ethw@illinois.edu
You will need to review ~15-25 abstracts between mid-March and mid-April 2012.


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A View From the Blue

Michelle Sabick

Don Anderson started out this newsletter with a call to get involved and I would like to echo that same sentiment. About seven years ago I was looking for a way to get more involved with ASB because I truly believe it to be a fantastic professional organization filled with intelligent and interesting people who do what they do because they have a passion for it. I have been to meetings for many other professional societies and have never felt as welcomed as I continually do as ASB.

So, seven years ago I got involved in a minimal way--coordinating the advertisements for the newsletter--and with a minimal time commitment. I think it started with a single e-mail to then-editor Andy Karduna offering my skills. I wasn't sure how I could contribute since I didn't consider myself nearly as gifted as most of the members of the Executive Board. However, helping out with the newsletter seemed a good fit for me, because I could stay somewhat "behind the scenes" and utilize some of the skills I do possess (such as an anal attention to detail). Even though I only spent a few hours two times a year coordinating the ads, that small effort that I made to get involved has made a huge difference to me as a person and to my career. After helping Andy for a couple of newsletters, I accepted the position of Newsletter Editor and am now finishing my second term in this role. In the six years I have been involved on the Executive Board, I have had the distinct privilege of working with six different presidents and a host of other great biomechanists.

While I hope that my time and efforts have benefitted the Society in some way, I certainly feel like I have gotten more out of my experience than I have put in. For example, I learned about many of the programs and initiatives that the ASB supports or organizes and have been able to better guide my students and colleagues to utilize these resources. The friends that I have made while serving are now spread around the biomechanical world, including serving on grant review panels, chairing conferences, scheduling guest lectures, and serving on university promotion and tenure committees. All of these relationships have been helpful for my career, and I thank all of those individuals for their help and support over the years.

I often struggle at this time of year to publish a newsletter right around the time my university is holding final exams (and I often curse my lack of ability to complete this document by my own self-imposed deadlines), but I will definitely never regret getting involved with ASB. Please consider doing the same. Hopefully, I can serve as an example of a person who is not a great mind, and not a research superstar, but who has still managed to contribute to the success of our Society in some small way.

"The difference between involvement and commitment is like ham and eggs. The chicken is involved; the pig is committed."

-Martina Navratilova



Find us on Facebook or Follow us on Twitter

Facebook: [American_Society_of_Biomechanics](#)

Twitter: [@AmSocBiomech](#)



Events Calendar

William Ledoux

NOTE:

For a more comprehensive international listing, please visit ISB's [website](#)

Orthopaedic Research Society
February 4 - 7, 2012, San Francisco, California
Abstract deadline - past

American Academy of Orthotists and Prosthetists
March 21 - 24, 2012, Atlanta, Georgia
Abstract deadline - past

International Foot and Ankle Biomechanics Community
April 11 - 13, 2012, Sydney, Australia
Abstract deadline - past

Gait and Clinical Movement Analysis Society
May 9 - 12, 2012, Grand Rapids MI
Abstract deadline - past

Advanced Experimental Approaches and Inverse Problems in Tissue Biomechanics
May 29 - 31, 2012, Saint-Étienne, France
Abstract deadline - December 15, 2011

American College of Sports Medicine
May 29 - June 2, 2012, San Francisco, California
Abstract deadline - past

Canadian Society of Biomechanics Societe Canadienne de Biomechanique
June 6 - 9, 2012, Vancouver, BC, Canada
Abstract deadline - February 1, 2012

ASME Summer Bioengineering Conference
June 20 - 23, 2012, Fajardo, Puerto Rico
Abstract deadline - January 13, 2012

European College of Sport Science
July 4 - 7, 2012, Bruges, Belgium
Abstract deadline - February 15, 2012

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

American Society of Biomechanics
August 15 - 18, 2012, Gainesville, Florida
Abstract deadline - March 2

IEEE Engineering in Medicine and Biology Society
August 28 - September 1, 2012, San Diego, California
Abstract deadline - March 15, 2012

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

International Research Council on Biomechanics of Injury
September 12 - 14, 2012, Dublin, Ireland
Abstract deadline - December 19, 2011

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

International Shoulder Group
August 22 - 24, 2012, Aberystwyth Univ., Wales, UK
Abstract deadline - March 21, 2012

Human Factors and Ergonomics Society
October 22 - 26, 2012, Boston, Massachusetts
Abstract deadline - March 19, 2012

International Society of Biomechanics
Proposed dates August 4 - 9, 2013
Abstract deadline - TBA



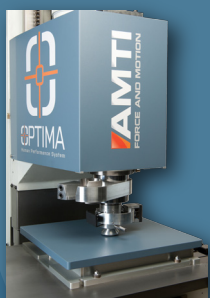
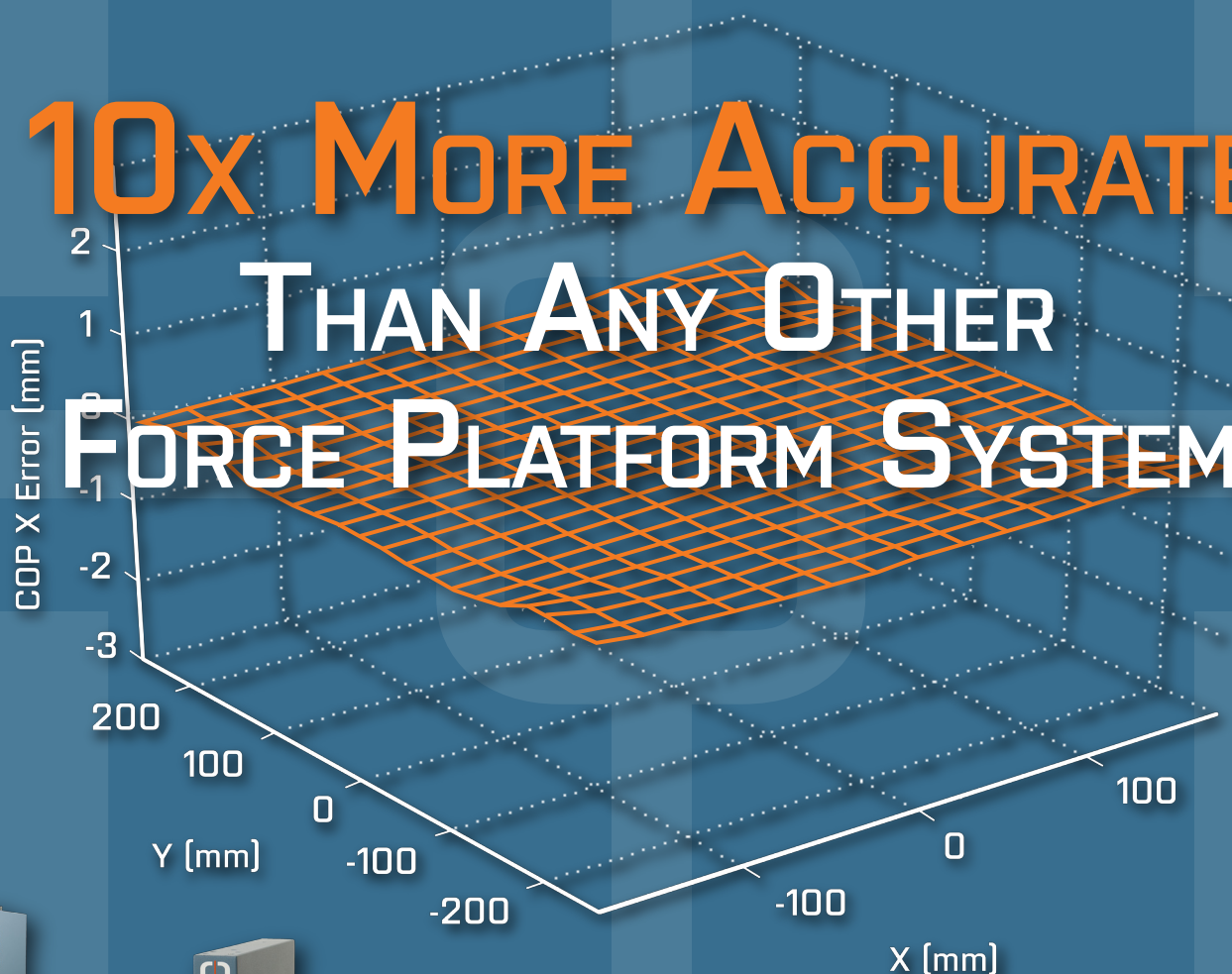
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