

June 2018

ISB *Now*



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News from the Awards Officer Catherine Disselhorst-Klug

By Dieter Rosenbaum | June 2018

David Winter Young Investigator Award 2017 - Poster

Erik Lamers

Vanderbilt University; Nashville, TN, USA

“Biomechanically-assistive garment offloads low back during leaning and lifting”

David Winter Young Investigator Award 2017 - Podium

Jack Martin

Neuromuscular Biomechanics Lab; University of Wisconsin-Madison; Madison, Wisconsin, USA

“Achilles Tendon Wave Speed Tracks Joint Torque and Muscle Activity in Gait”

Clinical Biomechanics Award 2017

Professor Kenton Kaufman

Motion Analysis Laboratory; Mayo Clinic, Rochester, MN, USA

Kaufman K.R. et. al: Functional Assessment and Satisfaction of Transfemoral Amputees with Low Mobility (FASTK2):A Clinical Trial of MPK vs. NMPK Knees.

Promising Scientists Award 2017

Karl Zelik, PhD

Biomechanics & Assistive Technology Lab; Vanderbilt University; Nashville, TN, USA

Carlo De Luca Emerging Scientist Award 2017

Alessio Gallina, MSc.

University of British Columbia, Department of Physical Therapy, Vancouver, Canada

President's Blog June, 2018 by Joe Hamill

By Dieter Rosenbaum | June 2018

As I am writing this blog post, it is only a few weeks away from the ECSS, ISEK and WCB conferences in Dublin, Ireland. I know that a number of ISB Executive Council members and ISB members generally take part so we will have good representation at these meetings. I will be at the WCB meeting so I hope to see many of you there.

The ISB Congress in Calgary, Canada is only a year away and the organizing committee led by Drs. Walter Herzog and Benno Nigg have made great strides on the preparation for this event. The website for the 2019 Congress is live and you can find it at:

<https://www.isb2019.com/>

I want to congratulate Executive Council member Alberto Leardini on an excellent job on organizing the awards for students. As the Student Awards Officer, Alberto has a monumental job in this portfolio and always seems to handle the awards selection with an appointed committee with good humor and high standards.

I also want to thank Dr. Tim Derrick and his committee members who has expertly guided this committee on the establishment of standards for reporting kinetic methodologies. This ISB committee, formed with several ISB members, was organized to present a report to the Executive Council and which will ultimately be published as were the standards for reporting kinematic methodologies.

I recently was at the American College of Sports Medicine meeting in Minneapolis, MN, USA and attended the Motor Control ISB Working Group Symposium. The symposium was organized by Dr. Paola Contessa, the Chair of the Working Group and her committee, and featured several very interesting talks. One talk by Dr. Ross Miller of the University of Maryland particularly intrigued me. The talk was entitled "Predictive Models Are Most Useful When They Are Wrong". He suggested that, historically, greater emphasis has been placed on the prediction of accurate results that admittedly are impressive. However, Ross argues that there is more to be learned from inaccurate results. It was suggested that, with inaccurate predictions, the user has the impetus to investigate the source of the inaccuracy bit is the model design, the cost function or the overall framework of the question. Overall, I found this an intriguing argument for the use of predictive models.

Lastly, I wish all of you (at least in the Northern Hemisphere) a fruitful summer and, if you are traveling either for pleasure or to a professional meeting, safe travels.

Joseph Hamill, Professor Emeritus

President, International Society of Biomechanics

Student's Corner - How to Get the Most out of Conferences

By Dieter Rosenbaum | June 2018

Conference season is underway! Below are some tips that I have found to navigate a successful conference and get the most of your conference experience.

1. Navigating the conference

1. When you get the conference agenda, map out your days to organize time spent at sessions, visiting exhibitors, scheduling meetings, and other conference events
2. Go to panels - try going to panels based on a specific topic as well as panels by the person speaking, even if it may be a topic you weren't immediately interested in
3. Go to events - there will be luncheons, dinners, meet-and-greets and more! Try to get out of your comfort zone and meet new people. Conferences are a great opportunity to network and make friends
4. Talk to people that have been to your conference before and see if they have an important information to give in terms of the conference set-up and making the most of your time there
5. Talk to new people, build collaborations, and enjoy your time with likeminded scholars
6. Take time for yourself. Get out and enjoy the location of the conference. This can be through conference events, but also by exploring with friends or people you meet at the conference

2. Informational interviews: Setting up informational interviews are a great opportunity to meet with someone whom you would like mentorship from!

1. Don't be afraid - reach out to people you want to talk to and ask the questions you want to ask
2. Do your research beforehand - prepare relevant questions
3. Write down a few key points about their research or recent work
4. Provide a short background of yourself - no more than 30 seconds
5. Prepare questions:
 1. How did you get your start in this field?
 2. What projects are you working on right now?
 3. What is your opinion on [an exciting new development]
 4. What do you wish you would have done differently [when you were a PhD student/when choosing a PostDoc/beginning your first faculty position]?
 5. What advice would you give to someone [in my position]?
 6. Is there anyone else you would recommend I speak with?
6. Keep it about them
7. Follow-up with a thank you!
8. We talk more about this in [Episode 5 of BOOM](#)

3. Presenting your research

1. Be confident - find a presentation style that works for you. As you begin, maintain eye contact with the audience, smile, take deep breaths, and try to relax
2. Less is more for slides. Aim for 1 slide per minute
3. Be clear and concise. What are the main points that you want your audience to take away?
4. When it is time for Q & A, remember that you are the expert of your work. Prepare extra slides in advance for some questions you might get asked
5. Practice in front of friends and family and be open to their perspectives
6. Advice for presenting a poster
 1. [Ten Simple Rules](#)
 2. [Tips by NeuroWire](#)

Biomechanics on our Minds (BOOM) Podcast

We have now released five episodes of our new biomechanics podcast, BOOM! It is available for free on

[SoundCloud](#). Recent episodes include the fourth episode with Dr. Jill McNitt-Gray on collaborations across universities and disciplines and our fifth episode with Dr. Mary Rodgers on building and maintaining successful mentorships. You can email us with ideas for biomechanics topics or to share a “research fail” on the podcast at isb.studentrepresentative@gmail.com.

World Congress of Biomechanics Student Event

We will hold an event for the ISB students in Dublin during the World Congress of Biomechanics on 8 July, 2018. To RSVP, please email me at isb.studentrepresentative@gmail.com. Looking forward to seeing familiar faces and meeting new student members!

Connect with ISB on Social Media

Keep up to date with ISB by liking our [ISB Facebook Page](#), joining the [Student Members Facebook Page](#) and following [ISB on Twitter](#)! If you have any feedback, comments, suggestions or questions please feel free to contact me at isb.studentrepresentative@gmail.com.

Kind Regards,

Melissa Boswell

Technical Groups Report June, 2018 by Elizabeth Clarke

By Dieter Rosenbaum | June 2018

Hand and Wrist Biomechanics International is accepting members - MEMBERSHIP IS FREE!

Hand and Wrist Biomechanics International (HWBI) was officially formed in 2012 on the 20-year anniversary of the International Symposium on Hand and Wrist Biomechanics. The vision for this core interest group has been to enhance the advancement of hand and wrist biomechanics and its clinical application by facilitating interdisciplinary scientific exchange among engineers, surgeons, therapists, and others. If you are interested in actively engaging in this mission, we invite you to fill out the online membership form. At this time, membership is free. <http://www.hwbi.org/membership>

EDC Officer Report June, 2018 by Felipe Carpes

By Dieter Rosenbaum | June 2018

Dear ISB members. 2018 is running fast, and here we bring you some information regarding the biomechanics in the EDC.

Congress in Chile

The II Congress of the Chilean Society for Movement Science is coming. The activity happens on 2-4 August 2018 in Santiago. You may want to learn more about the congress by visiting the ACCM website: www.accm.cl

Biomechanics Winter Schools in Brazil

While the season has change to a warm period in part of the globe, there are other parts where the winter is coming. To warm up the cold weather the Brazilian Society of Biomechanics will support activities of Winter Schools on Biomechanics, in Brazil. The list of the schools supported by the society will be published soon in the society's website www.bsb.org.br

II Latin American Meeting of Biomechanics will happen on 2019

Next year the Latin American Meeting of Biomechanics will take place in Manaus, Amazonas, Brazil. The first edition of the activity that has the purpose of increase the network between the biomechanics community in Latin America happened last 2017. For the 2019 edition a large participation of scientists from different places from Latin America is expected.

Brazilian Congress of Biomechanics

The 18^o Brazilian Congress of Biomechanics will happen next year, from 1-4 May. The main details of the events were revealed last month during a symposium including around 250 professors and students from Manaus, Amazonas, Brazil, in the heart of the Amazon forest. For the first time happening in the North of Brazil, the event expects more than 700 people attending. The organizing committee is compromised to make the trip to Manaus memorable. The event will have speakers from different countries including the ISB President professor Joe Hamill. Stay tuned: <http://cbb2019.com.br>