ISMPB

International Society for the Measurement of Physical Behaviour



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ISMPB Newsletter

November, 2018

www.ismpb.org

Message from the President

Last month we had a General Membership Meeting and for me this was a chance to review where we, as a Society, have come. The focus of our Society has always been on the ICAMPAM meetings: the preparation, the concern about having a strong scientific content, allowing for networking opportunities, financial viability, etc. This year is no exception. However, we have now fundamentally moved away from just having only this one focus. We have a viable growing journal, a great Newsletter, active social media, members volunteering to join committees (even the audit committee?!), and a website which provides integrated content with the flexibility to be used as platform for other activities. It is this shift that has shown, to me, that we have an interesting and exciting future.

The coming months will see a lot of emails coming out about ICAMPAM 2019. This is still our main focus and the chance for us to get together, discuss our work and aspirations, and to socialise. To make this meeting another success, and to build on what we have already achieved, we aim to grow this meeting. Not just in numbers, but in the type of content. Attracting new delegates depends not just on the Board and the Scientific Committee, but on all of us. We all need to disseminate information about ICAMPAM 2019, engage with our colleagues and collaborators and let people know of our positive experiences of our meeting.

This is a busy period for the Society, but an exciting one. I look forward to continuing our journey together.

Malcolm Granat



KEEP UP TO DATE ON OUR WESITE http://www.ismpb.org/

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	Member Profile Annual Meeting Minutes JMPB Journal—Issue 2 About JMPB BPARC Upcoming Meetings Member Activity Social Media

Member Profile

Tiago V. Barreira

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Everybody has a unique career path to their current destination. Can you share some of your stops along the way?

Although I never imagined that I would be working in a place with so much snow and so cold like Syracuse in New York, my path to get here was not very tortuous. I was a swimmer growing up and very early I got interested in the physiology of training. I always want to know why we did so many different sets, practiced for long hours, many times a week. So it was an easy choice for me to choose Exercise Science as my major when I arrived at the University of North Carolina at Wilmington. During my time there, I had great mentors that pushed me forward in my path, Dr. Bennett and Dr. Tseh (which I still collaborate with regularly).

Although he probably never knew this, I can probably say that Dr. Miller was the professor that had the biggest influence on what I am doing today. Dr. Miller taught Measurement and Evaluation with the book that he wrote. It was one of the most challenging and rewarding classes I took during my whole academic career. I have taught Measurement and Evaluation numerous times and I have never been able to demand as much as he did of the students. During his class, I began to question the reliability and validity of the tools and measurements used in Exercise Science and I have continued to do so since then.

By pure luck, I went to Middle Tennessee State University (MTSU) in 2005 to do my masters. At the same time, Dr. Minsoo Kang was joining MTSU as faculty in the Health and Human Performance Department. It did not take long for me to seek his guidance and volunteer to help in his projects. That is when I got involved with research testing the reliability and validity of physical activity measurement tools. Working with Dr. Kang, I was able to collaborate with several leaders in the field like: Dr. Tudor-Locke, Dr. Bassett, and Dr. Aisworth. From then on, there was no turning back.

In 2010, I completed my PhD under mentorship of Dr. Kang at MTSU and started a postdoc at Pennington Biomedical Research Center (PBRC), where I worked under Dr. Katzmarzyk with close collaboration with Dr. Tudor-Locke. At PBRC, I had the pleasure of working in one of the largest multi-country studies on physical activity and obesity of children (ISCOLE). In 2014, I joined the Exercise Science Department at Syracuse University.

Tell us about a current project you are working on.

I'm currently working on several projects led by my laboratory and in collaboration with colleagues at Syracuse University and around the world. I'm excited about the project that we are just finishing: testing the reliability and validity of the Cosmed K5 portable metabolic cart. I continue to work on the development of the automated algorithm for sleep detection for waist-worn accelerometers. Finally, in collaboration with different groups in the US and abroad, I'm working on studies related to cadence (steps/min), which I believe has great potential as a physical activity index.

What do you think are the most important research advancements in this area?

I think we all want to see a single or multiple devices that are non-intrusive and can accurately capture the multitude of behaviours we are interested in measuring. I think it is also important to increase the awareness of how complex the measure of physical behaviour is, and improve the standards of measurement in research. Currently, both researchers and reviewers are not demanding accurate description of behaviour measurement methods in publications.

Have you participated in any ISMPB events? If so, can you please describe your experiences?

Yes, I have attend 3 ICAMPAM conferences (2011, 2015, and 2017). ICAMPAM is one of my favourite conferences, it is always great to see so many people that are passionate about getting measurement right. In each of those conferences, I learned a great deal and was able to share my research. I also made connections that led to collaboration in multiple publications and I am sure will lead to even more in the future.

In the future, what would you like to see from the ISMPB?

I think the ISMBP mission is spot on. I hope ISMBP continues to bring people from different backgrounds to work together and as hard as it seems, I hope its members start working towards unification of measurements and creation of standards instead of generation of even more ways to define the behaviours that we are interested in measuring.

GENERAL MEMBERSHIP MEETING

Thursday, September 27, 2018 (virtually held)

• President's Report – Malcolm Granat

- * ICAMPAM 2017
 - * 308 delegates from the following countries:
 - Australia (15), Brazil (1), Canada (7), China (4), Denmark (5), Finland (7), France (5), Germany (15), Ireland (3), Israel (2), Japan (6), Netherlands (9), Norway (4), Russia (2), Slovenia (2), Spain (1), Sweden (2), Switzerland (1), Taiwan (1), UK (24), USA (192)
 - * 133 Regular/Post Doc members and 54 students
 - * 220 abstracts were submitted.
 - * 139 poster abstracts were accepted
 - * 67 oral abstracts were accepted.
 - * 10 symposia proposals were submitted and 5 were accepted
- Financial Report Alan Donnelly
 - * Total Revenue: €147,727.90
 - * Memberships, Abstract Fees, ICAMPAM 2017 registrations, Exhibitor/Sponsor fees, Social Events/Trips/Excursions
 - Total Expenditure: €106,241.70
 - Podium Conference Management (2016), Board/Committee meetings, Marketing and communications, membership, Conference expenses
 - * Total Equity: €85,318.03
 - * Membership Fees:

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- Proposed new fees would be:
 - * Full member \$150 Student rate \$75 USD
- 2 year membership
- Report by Audit Committee 2017 2018
 - * (Joanne McVeigh, Philippa Dall and Ben Stansfield)
 - * Nominations for Audit Committee 2018 2019
- Membership report Alan Donnelly
 - 193 active members
 - * 137 Regular / Post Doc Members
 - * 55 Student Members
- Journal Patty Freedson

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- * 3rd issue will be published ~October 10
 - 60 papers received
 - * 55.6% acceptance ratio
 - * 20 papers in various phases of revision
- General Society Business Malcolm Granat
 - * Board for 2018
 - * Conference Co-Chairs & Scientific Program Chair
 - * (Jorunn Helbostad, Kenneth Meijer and Guy Plasqui)
 - Sensor Method Collaboratory Group (Sarah Keadle)
- Next AGM in Maastricht 2019
 - * See page 8 for details

Current Board Members





President Malcolm Granat



Vice-President





Treasurer Alan Donnelly







Co-Secretary Miriam Cabrita

Elected Representative Jeff Hausdorff



Elected Representative Sarah Keadle

Elected representative Bronwyn K. Clark





Advisory Board Member Advi Rick Troiano Di

Advisory Board Member David R. Bassett, Jr.

Journal for the Measurement of Physical Behaviour

The Official Journal of the International Society for the Measurement of Physical Behaviour

Volume 1, Issue 2, June 2018

ORIGINAL RESEARCH

Classification and Processing of 24-Hour Wrist Accelerometer Data

Authors: Anna Pulakka, Eric J. Shiroma, Tamara B. Harris, Jaana Pentti, Jussi Vahtera, Sari Stenholm https://doi.org/10.1123/jmpb.2017-0008

Using Devices to Assess Physical Activity and Sedentary Behavior in a Large Cohort Study: The Women's Health Study

Authors: I-Min Lee, Eric J. Shiroma, Kelly R. Evenson, Masamitsu Kamada, Andrea Z. LaCroix, Julie E. Buring https://doi.org/10.1123/jmpb.2018-0005

Measurement of Sitting Time in Older Adults With and Without Alzheimer's Disease

Authors: Amber Watts, Mauricio Garnier-Villarreal, Paul Gardiner https://doi.org/10.1123/jmpb.2018-0002

Estimating Resting Core Temperature Using Heart Rate

Authors: David P. Looney, Mark J. Buller, <u>Andrei V. Gribok</u>, Jayme L. Leger, Adam W. Potter, William V. Rumpler, William J. Tharion, Alexander P. Welles, Karl E. Friedl, Reed W. Hoyt

Wearable Device Validity in Determining Step Count During Hiking and Trail Running

Authors: James W. Navalta, Jeffrey Montes, Nathaniel G. Bodell, Charli D. Aguilar, Ana Lujan, Gabriela Guzman, Brandi K. Kam, Jacob W. Manning, Mark DeBeliso

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ABOUT JMPB

- ⇒ Publisher: Human Kinetics
- \Rightarrow On-line journal (hard copies available upon request for extra charge)
- \Rightarrow 4 issues per year
- Open access publishing possible (fees range from US\$2000 \$2950) \Rightarrow
- \Rightarrow No page charges
- Types of papers ⇒ Web portal is open here: <u>https://mc.manuscriptcentral.com/hk_jmpb</u>
- \Rightarrow 1st issue to be published in March 2018
- Novel methods for sensor calibration and validation \Rightarrow
- New sensor technology \Rightarrow

TOPICS IN JMPB

- \Rightarrow Analytic advances in measurement and interpretation
- \Rightarrow New sensor-based outcomes for clinical sciences
- \Rightarrow Applications of wearables for assessing exposure and outcomes
- \Rightarrow Evidence-based papers leading to best practices for use of wearables in research and clinical settings

PAPERS IN VOLUME 1, ISSUE 2 (in press)

- \Rightarrow Using Devices to Assess Physical Activity and Sedentary Behavior in a Large Cohort Study, the Women's Health Study. /-Min Lee, Eric J. Shiroma, Kelly Evenson, Masamitsu Kamada, Andrea LaCroix and Julie Buring
- ⇒ Measurement of Sitting Time in Older Adults with and without Alzheimer's Disease. Amer Watts, Mauricio Garnier-Villarreal and Paul Gardiner
- ⇒ Wearable Device Validity in Determining Step Count During Hiking and Trail Running. James W. Navalta, Jeffrey Montes, Nathaniel Bodell, Charli D. Aguilar, Ana Lujan, Gabriela Guzman, Brandi K. Kam, Jacob W. Manning and Mark DeBeliso
- ⇒ Classification and Processing of 24-hr Wrist Accelerometer Data. Anna Pulakka, Eric J. Shiroma, Tamara B. Harris, Jaana Pentti, Jussi Vahtera and Sari Stenholm
- ⇒ Estimating Resting Core Temperature Using Heart Rate. David P. Looney, Mark J. Buller, Andrei Gribok, Jayme L. Leger, Adam W. Potter, William V. Rumpler, William J. Tharion, Alexander P. Welles, Karl E. Friedl and Reed W. Hoyt

Did you present at **ICAMPAM?**

Keynote & invited speakers, podium & poster presenters are encouraged to submit papers to JMPB adapted from their ICAMPAM 2017 presentations.

•Cross-sectional | longitudinal studies

•Evidence based best practices

•Experimental studies

•Brief reports •Technical notes

•Reviews

SolutionBoston Physical ActivityBPARCResource Collaborative

We are excited to be able to spread the word about a newly-formed physical activity working group, the **Boston Physical Activity Resource Collaborative (BPARC)!** In the summer of 2016, two physical activity researchers in Boston, Nicolas Oreskovic, MD, MPH and Rachel Millstein, PhD, MHS, realized a need for more communication and collaboration across physical activity professionals in the Boston and Massachusetts (USA) areas.

Though there are many diverse physical activity researchers, practitioners, even existing physical activity advocacy groups in the Boston area, prior to the creation of BPARC, there was limited communication or collaboration among these groups and institutions. As ISMPB knows well, physical activity research thrives on standardized methods, large sample sizes, and collaboration across diverse communities and institutions. We determined a need for a centralized place for people interested in studying physical activity, increasing available knowledge, sharing ideas, methods, and data, participating in outreach, and promoting public health efforts towards increasing activity. As such, we created a centralized hub for collaboration, methodology standardization, pooled data collection opportunities, and knowledge dissemination to serve as a resource to the community. Allowing a centralized place for research across institutional "silos" will avoid redundancy, move physical activity science forward, and increase public health impact.

We have begun work in these areas:

Establishment of Collaborative and Research Home: BPARC has created a website for our members as well as the general public to learn more about the Collaborative and its members, the resources available, and to facilitate knowledge sharing and collaborations. BPARC has already begun to provide services to the research community. We have quarterly phone meetings and send recent articles out through an email listserv, as well as posting relevant articles on our website, to keep members informed on the latest research and methodology. Our meetings allow members to stay informed on local research efforts, funding opportunities, and dissemination projects currently underway. This type of cross-talk can also facilitate increased collaboration between BPARC members (and disciplines) and will reduce redundancy across groups.

Objective Measurement Standardization: BPARC collaborations will allow researchers to discuss and agree upon a standardized method for processing objective PA data (e.g., accelerometer data cut points, valid wear time protocols). Having such a method (e.g., "The Boston Method") could make research more powerful and be an adoptable method for other research groups to move PA measurement science forward.

ISMPB Members involved in BPARC!!



Dr. Elroy Aguiar



Dr. Stephen Intille



Dr. Dinesh John



Dr. John Sirard



Dr. Catrine Tudor-Locke

- **Population Health Improvement:** Our ultimate goal as physical activity researchers is to improve the health of the communities and populations we study, work with, and live among. BPARC can allow members to collaborate to broaden the reach of our research across a greater diversity of geographic and socioeconomic groups. Creating an environment that fosters partnerships between separate institutions will result in access to many more neighborhoods and diverse populations than any single institution alone.
- **Dissemination of Knowledge:** BPARC has already begun to increase opportunities for community-based dissemination and services for the research community. We have fostered new collaborations and consultations that will result in publications and presentations, as well as collaborations with grass roots and community based groups that will maximize knowledge dissemination to the general public. We are also working on grant opportunities to further increase our reach to community groups and to sustain our work.
- **Services:** BPARC and its members are already in the process of acting as a resource for the local physical activity and advocacy communities by offering services including methodology consultation, an very popular accelerometer loaning program, GIS consultation, grant proposal assistance, and measurement consultation.

We are eager to continue our mission of connecting diverse physical activity professionals of all types in the Boston area and beyond. With over 50 members (and growing), we are an inclusive and vibrant group that spans training, profession, career-stage, and are of focus and expertise. We welcome any interested professionals to help us continue with our goals and help our community become more active.

Please visit our website for additional information: <u>https://projects.iq.harvard.edu/bparc</u>

Publication on the creation of this important collaboration:



HHS Public Access

Author manuscript JPhys Act Res. Author manuscript; available in PMC 2018 October 09.

Published in final edited form as: J Phys Act Res. 2018; 3(2): 74–77. doi:10.12691/jpar-3-2-2.

The Need for Local, Multidisciplinary Collaborations to Promote Advances in Physical Activity Research and Policy Change: The Creation of the Boston Physical Activity Resource Collaborative (BPARC)

Rachel A. Millstein^{#1,2,*}, Nicolas M. Oreskovic^{#2,3}, Lisa M. Quintiliani⁴, Peter James^{2,5}, and Stephen Intille⁶

KEEP UP TO DATE ON OUR WESITE http://www.ismpb.org/

CONTRIBUTIONS CONTACT: BRONWYN CLARK: <u>b.clark3@uq.edu.au</u> CHERYL HOWE: <u>howec@ohio.edu</u>



Getting to Maastricht:

Maastricht is in the heart of Europe, surrounded by Belgium and Germany and near France. Maastricht, most southern city in The Netherlands, is easy to reach by car, train or plane. Connections with major European cities is very good.

The Netherlands

- Eindhoven Airport (1 hr by car; 1.5 hrs by public transport)
- Maastricht-Aachen Airport (20 min by car; 45 min by public transport)
- Schiphol Amsterdam (2.5 hrs by car; 2.5 hrs by public transport)

Belgium

- Brussels Airport (1 hr by car; 1.5 hrs by public transport)
- Charleroi Airport (1.5 hrs by car; 3 hrs by public transport)
- Liège Bierset Airport (0.5 hrs by car; 1 hr by public transport)

Germany

- Düsseldorf International Airport (1.5 hr by car; 3 hrs by public transport)
- Cologne-Bonn Airport (1 hr by car; 3 hrs by public transport)
- Düsseldorf/Weeze Airport (1.5 hr by car; 3 hrs by public transport)

Maastricht Exhibition & Congress Center:

The sixth International Conference on Ambulatory Monitoring of Physical Activity and Movement will take place at the Maastricht Exhibition & Congress Center (MECC). MECC Maastricht is a five-minute walk from the Maastricht-Randwyck train station and a stone's throw away from Maastricht Central Station.

ICAMPAM Keynote Speakers:

- Pedro Hallal: Physical activity surveillance and global health
- Frank Sheer: Chronobiology in sleep and physical activity
- Taija Juutinen Finni: Multimodal sensing in physical activity assessment

Key Dates:

Oct 25, 2018 - Jan 26, 2019

Oral and Poster Abstract Submissions Pre-Conference Workshop Submissions Oct 25, 2018 - Dec 20, 2018



Call for Symposia Submissions Oct 25, 2018 - Dec 13, 2018

Registration Opens: Early 2019

ISPGR World Congress 2019

June 30th - July 4th in Edinburgh, Scotland

ISPGR World Congress brings together posture and gait researchers and clinicians from around the world for discussion and exchange of the most cutting edge knowledge, insights, issues and ideas. ISPGR holds biennial meetings around the world for basic and clinical scientists in order to:

- Present and discuss the latest research and clinical findings relating to the control of posture and gait and related disorders
- Facilitate interaction between members who meet from all corners of the globe
- Promote the broad discipline of posture and gait research

www.ispgr.org/cpages/homepage

Standard Delegate:

Standard Student:



2019 ACTIVE LIVING CONFERENCE

FEBRUARY 17-20, 2019 | CHARLESTON, SC, USA

Early Booking Deadline: November 16, 2018

- Early bird Delegate: \$485
- Early bird Student: \$300

Registration fee includes:

- Access to conference sessions
- Full conference materials including access to the abstracts online
- Welcome drinks reception
- Breakfast
- Mid-session refreshments, as scheduled in the conference program
- Lunch as scheduled in the conference program



ACTIVE LIVIN

ELSEVIER

Prevention Research Center



The International Society of Behavioral Nutrition and Physical Activity (ISBNPA) will host our 18th meeting in Prague, Czech Republic this year.

\$590

\$325

- Abstract Submission Deadline: Dec 3, 2018
- Registration Opens: January 20, 2019
- Early Registration Deadline: April 5, 2019

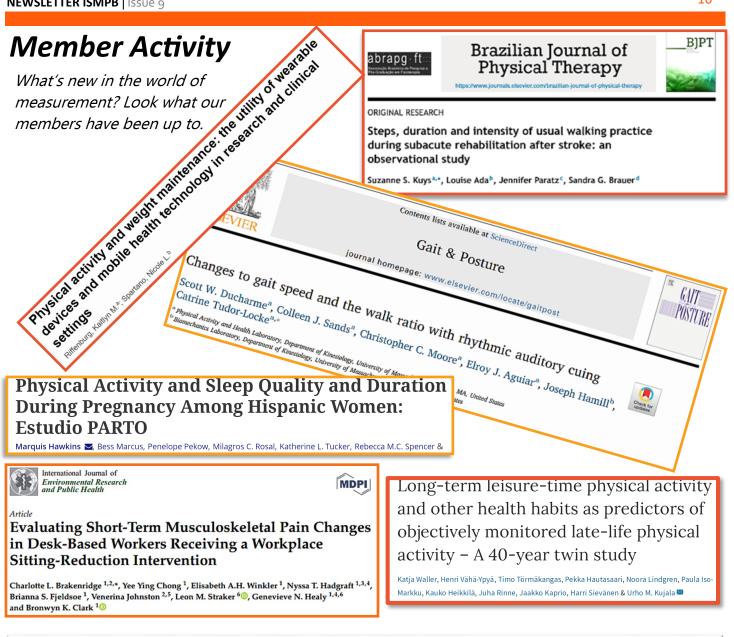
For more information, contact: Email: <u>isbnpa2019secretariat@venuewest.com</u>

Conference website: www.annualmeeting.isbnpa.org



"Bridging Research and Practice for Healthy, Active Lives"

Abstract Submission Deadline: Thurs., Nov. 1, 2018 Registration: www.acsmannualmeeting.org/attend/registration/



Dowd et al. International Journal of Behavioral Nutrition and Physical Activity (2018) 15:15 DOI 10.1186/s12966-017-0636-2

International Journal of Behavioral Nutrition and Physical Activity

REVIEW

Open Access



A systematic literature review of reviews on techniques for physical activity measurement in adults: a DEDIPAC study

Kieran P. Dowd¹, Robert Szeklicki², Marco Alessandro Minetto³, Marie H. Murphy⁴, Angela Polito⁵, Ezio Ghigo³, Hidde van der Ploeg^{6,7}, Ulf Ekelund^{8,9}, Janusz Maciaszek², Rafal Stemplewski², Maciej Tomczak² and Alan E. Donnelly^{10*}



Become a member of ISMPB

Renew your membership!

Your membership expired on September 30, 2018. Be sure to renew to stay connected! Current member rates are \$75 for students and \$150 for regular/post doc members. Membership is valid from October 1, 2018 - September 30, 2020.

Who can become a member?

Membership in ISMPB is open to everyone from around the world involved in the measurement of free-living physical behaviour. Membership fees support the mission of ISMPB in creating a vibrant community bringing together people from a wide variety of backgrounds and expertise, including researchers, clinicians, therapists, signal analysts, computational scientists and commercial companies.

Member Benefits

- \Rightarrow Register for Society Meetings at reduced registration rates
- ⇒ Support a new, young and independent Society
- \Rightarrow Become connected with leading experts in the field
- \Rightarrow Opportunity to get involved as an ISMPB Committee member
- \Rightarrow Vote in annual elections for the Board of Directors
- \Rightarrow Stand for election to the Board of Directors
- \Rightarrow Eligible for student awards at the Society Meetings (best oral and best poster)
- \Rightarrow Access to online resources and conference proceedings
- \Rightarrow Opportunity to post news and information on related events

Link http://www.ismpb.org/membership/

Newsletter



www.ismpb.org www.facebook.com/ISMPB.org https://twitter.com/ismpb_org



