

ISBS 2018 Auckland Conference

Workshops Programme

Monday 10th September, 9:00-13:30.

Invited workshop presenters have been asked to provide practical information for delegates. We thank the industry partners and companies who have supported the workshops.

FORCEDECKS WORKSHOP - COMMERCIALISATION & FUNDING by Philip Graham Smith

This workshop aims to improve your ability to attract and create commercialisation and funding opportunities. This workshop will challenge delegates to identify their real areas of expertise and consider ways in which they can attract and create funding opportunities. The aim is to help academics of all ages to focus their expertise, to manage their time more effectively and to explore new avenues to make their careers more rewarding, fulfilling and hopefully less stressful. Having been a former Head of Department and Associate Head of School (Business & Engagement), Dr Graham-Smith has been in the trenches and acknowledges the increasing demands and pressures of working in academia. The workshop will help delegates to strip back the various aspects of their roles, and to examine ways in which their teaching, research, consultancy and funding expectations can be managed successfully. Phil will be reflective on his own career and share experiences of working in academia, professional sport and private industry.



Dr Philip Graham-Smith has a long and established career as a biomechanist working in academia, professional sport and private industry. He is currently Head of Biomechanics at Aspire Academy in Qatar and was formerly Head of Department and Associate Head of School for Business and Engagement at the University of Salford. He was consultant to UK Athletics, the English Institute of Sport, the footwear company FitFlops, and he is co-founder of the ForceDecks system. He is passionate about making biomechanical techniques usable and meaningful in the applied world, aligning with the ISBS 2018 ethos of 'bridging the gap'.

SPRINZ WORKSHOP - ORAL PRESENTATION FEEDBACK by Joshua McGeown, Gillian Weir, Professor Mike McGuigan and SPRINZ PhD students

This workshop aims to help you engaging your audience during your ISBS presentation. This workshop aims to provide delegates with tips and feedback as to how best present their research for the ISBS 2018 congress. This interactive workshop will help delegates to learn how to distill and communicate complex ideas, structure your narrative and how to best visualize your data. Participants are encouraged to bring their ISBS presentations to practice and receive constructive feedback.



NZ HERALD WORKSHOP - HOW TO WORK WITH THE MEDIA TO AMPLIFY YOUR WORK by Dylan Cleaver, Editor at large with the New Zealand Herald

This workshop will help delegates be able to interact with media to be able to amplify their work.

Never before has there been so much attention given to the injury toll in elite sport, with the spotlight firmly centered on head injuries and the potential for long-term cognitive damage to those afflicted. With so much important research being done in the field of sports injury, it is important to know how to work with the media to highlight it. This workshop aims to give a brief overview of the fast-changing modern media landscape. It will offer advice as to how to establish contacts in the media and how to use those contacts wisely. It will demonstrate how to get your key messages across using simple language, without dumbing down the issue. It will traverse ethical issues and, finally, what to do when the message goes wrong. Attendees will use the lessons learnt from the examples, to workshop during the session how they can work with media to amplify their work.



Dylan Cleaver is an award-winning journalist who specializes in reporting on the intersection between sport and society and currently works as sports editor-at-large for Herald titles. For the past two decades he has worked for some of the biggest media companies in New Zealand. He has authored three books and has work published in an anthology of New Zealand's best non-fiction writing. Dylan was the journalist who worked on the stories on concussion in rugby that Professor Patria Hume outlined in her 2016 Geoffrey Dyson Keynote lecture. Dylan will be looking for interesting stories to highlight from the conference - so attending his workshop will provide an opportunity for you to learn how you might get your research stories covered.

WORKSHOP - JAPAN COLLABORATION by Sayumi Iwamoto, Erika Ikeda, Ryu Nagahara, and Aaron Uthoff

Do you want to share your experience with other researchers who are keen to conduct international research collaboration? The workshop will share experiences and key tips to enable successfully working together.



Japan Research Collaboration Workshop / 国際共同研究ディスカッションセッション

Data/Time (日時) : 10 September, 10:30-11:40am (9月10日 午前 10:30-11:40)

Venue (場所) : WG126



"There are many positives with working with Japanese researchers, but the one that stands out the most to me is their willingness to share knowledge and lend a helping hand." (Aaron Uthoff)



AUT ENGINEERING WORKSHOP - AI CHALLENGES by Boris Bačić & Russell Pears from Auckland University of Technology Engineering School

This workshop will help you to consider pushing your boundaries of biomechanics and sport science by embracing artificial intelligence (Dr Boris Bačić and Assoc. Prof Russel Pears, Auckland University of Technology, NZ).

Pushing the boundaries of biomechanics and sport science also means embracing artificial intelligence (AI) to advance and augment ways in which sport is coached, played, promoted, broadcasted and commercialised. Technologies capable of capturing human motion enable the advancement of research and can create strategic differences in elite sport, which is reflected by their increasing presence in the growing market of sport gadgets, exergames and rehabilitation technologies. Data-driven machine-learning AI approaches have the potential to provide insights from data, find patterns in specific contexts, generate knowledge, validate expert's common-sense rules, and offload support decisions and automate cognitive activities.

The workshop will provide a theoretical introduction and a set of analytical and model-designing visual tools for getting started. For those interested in Matlab or other languages, code samples will be provided. The participants will be able to use free open source software alternatives as part of hands-on exercises in a supervised lab.

Boris has multidisciplinary research interest in Computational Intelligence (CI), data analytics combined with sport science, rehabilitation, health, active life advancements and supporting technology. Russel has taught in various topics in computer science, while practicing as a consultant in the IT industry in the areas of database systems and data mining.



SPRINGER WORKSHOP - WHAT MAKES A SUCCESSFUL PAPER – AN EDITOR'S PERSPECTIVE by Steve McMillan from Springer's *Sports Medicine* journal



This workshop will help delegates increase their likelihood of success in publishing in journals such as *Sports Medicine*. From a compelling cover letter to a concise conclusion, Sports Medicine's Co-Editor in Chief, Steve McMillan, will provide an editor's perspective on what makes a successful paper. Sports Medicine receives over 600 submissions a year and can publish only a quarter of these ... How do the editors decide which manuscripts to send to peer review? Which manuscripts survive peer review? What details are essential to enable readers to best understand your research and allow for potential replication? What information is required from an ethical perspective? Why do word counts matter anyway?! This interactive workshop will guide you on how to produce an impressive manuscript and increase your chances of getting published in a reputable journal.

Steve McMillan is a Journal Editor at Adis, part of SpringerNature. He is currently Co-Editor-in-Chief of three journals: Sports Medicine, Sports Medicine - Open and Drug Safety - Case Reports. Steve started at Adis straight out of university, having completed an MSc in Sport & Exercise Science in 2005. Prior to becoming a Journal Editor, Steve gained experience as a Medical Writer, involved in reporting on and critically evaluating clinical drug trials, and as a writer/editor of newsletters in the fields of drug safety and pharmacoeconomics. Outside of work, Steve enjoys spending time with his young family.



NORAXON WORKSHOP - ELECTROMYOGRAPHY IN SPORTS PERFORMANCE by Coleman Bessert and Erin Feser from NORAXON

Noraxon USA (www.noraxon.com) will be hosting a workshop on electromyography (EMG) use in sports performance settings.



"You will be able to develop a better understanding of how EMG fits into an athlete monitoring program or research investigation by learning what can, and cannot, be determined with EMG data and reporting. Participants will see hands-on use of precision EMG systems and biomechanics analysis software with practical, sport-specific examples."

Erin Feser <erin.feser@noraxon.com>, Director of Education for Noraxon USA.

