




















ISBS 2018 Auckland Conference Programme

MONDAY 10th Sept - Workshops, Opening, Geoffrey Dyson lecture, Kiwiana opening reception, Sports Playing Field				
08:00	INDUSTRY PARTNER set-up - Sunday 9th from noon to 5pm.	REGISTRATION OPEN WG306 from 8:00. Collect your puffer jacket (for those who registered by the standard rate date) and name badge. Remember to download to your digital device the ISBS 2016 conference programme and proceedings prior to attending the conference. To ensure a smooth running conference all delegates to please upload your oral podium, oral poster pitch, and digital posters prior to attending the conference via ISBS2018@aut.ac.nz.		
08:10				
08:20				
08:30	Teacher biomechanics education day at AUTM. Chairs: Sarah-Kate Millar and Chris Whatman. Separate conference registration fee. 1. Duane Knudson			
08:40				
08:50				
09:00	2. Laura-Anne Furlong	 ISBS PRE CONFERENCE BOARD MEETING WG517 (#22 board)	 FORCEDECK WORKSHOP WG403 (#384 theatre) COMMERCIALISATION & FUNDING Philip Graham Smith	 WORKSHOP WG126 (#140 theatre) ORAL PRESENTATION FEEDBACK. Joshua McGeown and SPRINZ PhD students
09:10	3. Kim Hébert-Losier			
09:20	4. Phillip Fink			
09:30	5. Suzie Belcher (supported by Chris Whatman & Chole McKenzie)			
09:40				
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10:00				
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10:30			 NZ HERALD WORKSHOP WG403 (#384 theatre) HOW TO WORK WITH THE MEDIA TO AMPLIFY YOUR WORK Dylan Cleaver, NZ Herald	 WORKSHOP WG126 (#140 theatre) JAPAN COLLABORATION. Sayumi Iwamoto, Erika Ikeda, Ryu Nagahara, Aaron Uthoff
10:40				
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12:00		 SPRINGER WORKSHOP WG403 (#384 theatre) WHAT MAKES A SUCCESSFUL PAPER – AN EDITOR'S PERSPECTIVE. Steve McMillan, Springer.	 WORKSHOP WG126 (#140 theatre) ORAL PRESENTATION FEEDBACK. Gillian Weir, Joshua McGeown, SPRINZ PhD students	 NORAXON WORKSHOP WG907 (#108 - open flat) ELECTROMYOGRAPHY IN SPORTS PERFORMANCE Erin Feser, NORAXON
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14:50		WG403 Opening set-up. Travel grant awardees and dignitaries to meet at 14:40 please at entrance to WG403.		
Move to Opening				
15:00	   OPENING CEREMONY Titahi ki Tua kapa haka Opening Ceremony (Haka powhiri) led by Dr Valance Smith, AUT VC Derek McCormack, NZOC President Mike Stanley, HPSNZ CE Michael Scott, ATEED GM Pam Ford, Karakia, Blessing of dignitary gifts, Titahi ki Tua kapa haka (Haka powhiri), ISBS President Yong-Hoo Kwon, ISBS Banner unfurling, Travel grants awarded. WG403 (#384 lecture). AUT-AUT Millennium-ATEED-HPSNZ-ISBS Co-hosts. Chair: Prof Patria Hume.			
15:10				
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16:00					
16:10	<p>KEYNOTE. ISBS GEOFFREY DYSON AWARDEE HERMANN SCHWAMEDER. Moving on slopes: Issues and challenges from a biomechanical perspective. Sponsored by ISBS. WG403 (#384 lecture). ISBS co-host. Chair: President ISBS Prof Young Hoo Kwon.</p>				
16:20					
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16:50	Industry Partners Representative Address: Imogen Moorhouse VICON CEO				
17:00	Move to Sir Paul Reeves Atrium				
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18:50	KIWIANA OPENING RECEPTION & ISBS2018 INDUSTRY PARTNER PLAYING FIELD EVENT. (Kiwi Kai & Games)				
19:00	Sir Paul Reeves Atrium. WG201, WA224, WG306. VICON industry partner. Chair: Mr Kelly Sheerin. Programme coordinators: Prof Patria Hume, Dr Valance Smith, Ms Selina Nihalani. Speakers: Alex Muir (Vicon), Matt Farley, (AUT Group Chef). Guest international darts player - "The Doctor" Graeme Lowe. Tim Davison and VUTA. Dr Lindsay Neill (Kiwiana research), Assoc Prof Lindsay White (Cloudy Bay Clams research), Prof Len Gillman and Prof Thomas Neitzert (sustainability). Playing Field Co-ordinators: Dr Allan Carman and Dr Denny Wells. 11 industry partners.				
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20:00	Free Evening General Delegates - Try the great selection of Auckland restaurants	Tea and biscuit stations are supported by CHANUI	Chocolate box stations are supported by AMTI	Fruit baskets are supported by STT Systems	Awards are supported by Dick Frizzell, Asics and Samsung
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TUESDAY 11th Sept - Technology Keynote, Wise Wizards debate, Sports Playing Field, Student				
07:00				
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07:30	ISBS STUDENT MENTOR BREAKFAST WG308 (wave room). Chairs: Dr Gillian Weir and Dr Tim Exell.			
07:40	Registered mentees and mentors only receive cooked breakfast.			
07:50	Move to sessions			
08:00	Podium 1 WG403 (theatre oral A)	Podium 2 WG126 (theatre oral B)	Podium 3 WA220 (theatre oral C)	Podium 4 WG404 (theatre oral D)
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08:30				
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08:50				
09:00	Poster oral 1 WG403 (theatre oral A)	Poster oral 2 WG126 (theatre oral B)	Poster oral 3 WA220 (theatre oral C)	Poster oral 4 WG404 (theatre oral D)
09:10				
09:20				
09:30				
09:40	Move to morning tea and posters on display			

09:50	SAMSUNG			
10:00				
10:10	SAMSUNG DIGITAL POSTERS WG201, WA224, WG306. <i>Chair: Prof Barry Wilson.</i>			
10:20	Move to sessions			
10:30	Podium 5 WG403 (theatre oral A)	Podium 6 WG126 (theatre oral B)	Podium 7 WA220 (theatre oral C)	Podium 8 WG404 (theatre oral D)
10:40				
10:50				
11:00				
11:10				
11:20	Move to keynote lecture in WG403			
11:30	 			
11:40	KEYNOTE. SPORTS TECHNOLOGY. MOUNIR ZOK. WG403 (#384 lecture). <i>ATEED co-host. Chair: Prof Jacqueline Alderson.</i>			
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12:30	Move to lunch and long tables			
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13:00	SPORTS TECHNOLOGY LONG TABLE DISCUSSIONS. WG201, WA224, WG306. What can biomechanists do to use technology more effectively to help improve sport performance? WG201, WA224. <i>Kistler industry partner lunch</i> and meet with keynote. <i>Facilitators: Dr Mounir Zok, Mr Simon Briscoe, Dr Paul McAlpine, Dr Allan Carman, Dr Matt Brughelli, Mr Farhan Tinwala, Prof Barry Wilson, Dr Ryu Nagahara, Prof Jacqueline Alderson, Ms Shelley Diewald, Prof Mike McGuigan.</i>			
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13:50	Move to sessions			
14:00	Podium 9 WG403 (theatre oral A) O33-36	Podium 10 WG126 (theatre oral B)	Podium 11 WA220 (theatre oral C)	Podium 12 WG404 (theatre oral D)
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14:50	Podium 13 WG403 (theatre oral A)	Podium 14 WG126 (theatre oral B)	Podium 15 WA220 (theatre oral C)	Podium 16 WG404 (theatre oral D)
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16:00	 Move to afternoon tea and Exhibitor Playing Field continued			
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16:20	EXHIBITOR PLAYING FIELD & SPRINZ SPORT AND EXERCISE BIOMECHANICS TEACHING ARCHIVE LAUNCH & Afternoon Tea. WG201, WA224, WG306. <i>Chairs: Prof Duane Knudson and Dr Anna Lorimer. Playing Field Co-ordinators: Dr Allan Carman and Dr Denny Wells.</i>			
16:30				
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16:50	Move to keynote panel in WG403			
17:00				
17:10	KEYNOTE PANEL. WISE WIZARDS' WORDS OF WIZDOM (Life members, Geoffrey Dyson lecturers, Fellows). <i>Joe Hamill, Bruce Elliott, Juris Terauds, Walter Herzog, Patria Hume</i> WG403 (#384 lecture). <i>Chairs: Associate Professor Jacqueline Alderson and Professor Gareth Irwin.</i>			
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18:00	Move to dinner options and events			
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19:10			STUDENTS night. AUT Titahi ki Tua kapa haka Marae visit/hangi. Coordinators: Dr Valance Smith & Mr Joshua McGeown.	Free Evening Other delegates - Try the great selection of Auckland restaurants
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WEDNESDAY 12th Sept - SportSmart Keynote panel, Applied 1/2 day AUTM				
07:00	DELEGATE NETWORKING. Posters displayed. WG201, WA224, WG306.			
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07:50	Move to sessions			
08:00	Podium 17 WG403 (theatre oral A)	Podium 18 WG126 (theatre oral B)	Podium 19 WA220 (theatre oral C)	Podium 20 WG404 (theatre oral D)
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08:20				
08:30				
08:40				
08:50	Poster oral 5 WG403 (theatre oral A)	Poster oral 6 WG126 (theatre oral B)	Poster oral 7 WA220 (theatre oral C)	Poster oral 8 WG404 (theatre oral D)
09:00				
09:10				
09:20				
09:30				
09:40	Move to morning tea and posters on display			
09:50	 SAMSUNG			
10:00	SAMSUNG DIGITAL POSTERS WG201, WA224, WG306. Chair: Prof Duncan Reid. Meeting of the Associate Editors and Editorial Board for the Sports Biomechanics journal.			
10:10				
10:20	Move to sessions			
10:30	Podium 21 WG403 (theatre oral A)	Podium 22 WG126 (theatre oral B)	Podium 23 WA220 (theatre oral C)	Podium 24 WG404 (theatre oral D)
10:40				
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11:00				
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11:30	Move to keynote panel in WG403			
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12:20	KEYNOTE PANEL. ACC SPORTSMART: Injury Prevention; taking the science to the people. Prof James Selfe (UK), Isaac Carlson (ACC), Mr Joe Harawira (NZ Rugby), Ms Sharon Kearney (NZ Netball Physiotherapist). WG403 (#384 lecture). ACC industry partner. Chair: Natalie Hardaker.			
12:30				
12:40				
12:50	Move to lunch and long tables			
13:00	 SPORTS INJURY PREVENTION LONG TABLE DISCUSSIONS WG201, WA224, WG306. What can biomechanists do to more effectively help reduce sports injuries? ACC industry partner. Lunch and meet with keynote panel members. Facilitators: Dr Chris Whatman, Prof Duncan Reid, Dr Ken Quarrie, Prof James Selfe, Mr Isaac Carlson, Mr Joe Harawira, Ms Sharon Kearney, Dr Anna Lorimer, Dr Richard Ellis.			
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13:50	Move to bus stop from WG306 Foyer			
14:00	Travel to AHT Millennium by bus for Applied Sessions. All leaving at 2:00. 2:30 at pool for all			

14:10	Travel to AUT Millennium by bus for Applied sessions. All leaving at 2:00. 2:30 at pool for an.	
14:20	Individual schedules. Co-ordinators: Mr Martin Dowson, Dr Simon Briscoe, Dr Allan Carman.	
14:30	   	
14:40	AUT-AUT Millennium-AUT SPRINZ-HPSNZ Applied sessions. Welcome and overview by Mr Mike	
14:50	Stanley, Mr Martin Dowson, Prof Barry Wilson. Chair: Mr Martin Dowson.	
15:00		
15:10	Delegates are guided in groups on a tour of AUT Millennium ending up at their first session. Delegates	
15:20	are then directed to their second session. Sessions are indicated on name badges.	
15:30	Rowing Stroke Analysis	
15:40	Paralympic Swimming Technique Analysis and Technology Development	
15:50	Utilising Biomechanics in Track and Field Throwing Events	
16:00	Biomechanics Related to Athlete Development	
16:10	Sprinting – Performance and Rehabilitation	
16:20	Integration between inertial sensors and motion capture – running and basketball	
16:30	Cycling Biomechanics - Forces and Physiology	
16:40	The Impact of Innovation on Biomechanics	
16:50	Sports Medicine and Biomechanics	
17:00	Wearable Technology in Snow Sports Load Monitoring	
17:10		
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17:30	 <p>Sir Graeme Avery Event. Chair: Mr Derek McCormack. Speakers: Mr Mike Stanley, Mr Michael Scott, Olympic Athlete Richard Patterson. Sileni industry partner.</p>	
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19:30	Bus back to city - ALL buses leaving at 19:30	
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20:00	Free Evening General Delegates - Try the great selection of Auckland restaurants	
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	THURSDAY 13th Sept - Hans Gross lecture, 1/2 day networking tour, New Investigator award semi-finalist judging			
07:00	DELEGATE NETWORKING. Posters displayed. WG201, WA224, WG306.			
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07:50	Move to sessions			
08:00	Podium 25 WG403 (theatre oral A)	Podium 26 WG126 (theatre oral B)	Podium 27 WA220 (theatre oral C)	Podium 28 WG404 (theatre oral D)
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08:50	Poster oral 9 WG403 (theatre oral A)	Poster oral 10 WG126 (theatre oral B)	Poster oral 11 WA220 (theatre oral C)	Poster oral 12 WG404 (theatre oral D)
09:00				
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09:40	Move to morning tea and posters on display			










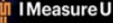















09:50	SAMSUNG			
10:00	SAMSUNG DIGITAL POSTERS WG201, WA224, WG306. Chair: Prof Hiroyuki Nunome.			
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10:40	Move to sessions			
10:50	Podium 29 WG403 (theatre oral A)	Podium 30 WG126 (theatre oral B)	Podium 31 WA220 (theatre oral C)	Podium 32 WG404 (theatre oral D)
11:00				
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11:30	Move to Keynote session			
11:40	 KEYNOTE. HANS GROS AWARD -Steffen Willwacher. Sports equipment: How the transformation from passive to digital systems opens new doors and puts new demands on sports biomechanists. WG403 (#384 lecture). ISBS co-host. Chair: Duane Knudson.			
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12:50	Move to lunch and long tables			
13:00	KISTLER measure. analyze. innovate.			
13:10	STUDENT BIOMECHANICS LONG TABLE DISCUSSIONS. WG201, WA224, WG306. What opportunities are there for student biomechanists in laboratories, industries, universities, sports clubs around the world? Kistler industry partner lunch. Facilitators: Dr Gillian Weir, Dr Tim Exell, Dr Neil Bezodis, Dr Laura-Anne Furlong, Dr Sarah Breen, Dr Gerda Strutzenberger, Dr Ezio Preatoni, Dr Kevin Ball, Prof Peter Sinclair, Prof Nunome Fukoka, Dr Shinji Sakurai, Dr Wen-Tzu Tang, Dr Cassie Wilson, Dr Helen Bayne.			
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13:50	Move to tour from WG306 Foyer			
14:00	 SOCIAL TOUR A) Sky Tower tour & city harbour walking tour. Coordinator: Erika Ikeda	 SOCIAL TOUR B) Titahi ki Tua kapa haka Marae visit and hangi. Coordinator: Dr Valance Smith		
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17:00	Free Evening General Delegates - Try the great selection of Auckland restaurants.			
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FRIDAY 14th Sept - New Investigator award finalist judging, Annual General Meeting, Sports	
07:00	DELEGATE NETWORKING. WG201, WA224, WG306.
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07:50	Move to sessions			
08:00	Podium 33 WG403 (theatre oral A)	Podium 34 WG126 (theatre oral B)	Podium 35 WA220 (theatre oral C)	Podium 36 WG404 (theatre oral D)
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08:50	Podium 37 WG403 (theatre oral A)	Podium 38 WG126 (theatre oral B)	Podium 39 WA220 (theatre oral C)	Podium 40 WG404 (theatre oral D)
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10:00	 Move to morning tea then AGM			
10:10	 ANNUAL GENERAL MEETING 10:10 to 10:40. WG126. Chair: President ISBS Prof Young Hoo Kwon.			
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10:30				
10:40	Move to keynote symposium in WG403			
10:50	  Podium 41. ISBS NEW INVESTIGATOR AWARD COMPETITION. Three oral podium and three oral poster speakers TBD after semi-final judging. WG403 (#384 lecture). Chair: Dr Neal Bezodis.			
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11:45	Transition to Keynote session			
11:50	   KEYNOTE PANEL. SPORTS PERFORMANCE INNOVATION FORUM. SCIENCE TO COMMERCIALISATION – TRANSLATING SCIENCE TO COMMERCIAL OUTCOMES. Mr Brian Russell, Dr Thor Besier, Dr Eric Helms, Mr Farhan Tinwala, Mr Ryan Archibald. WG403 (#384 lecture). ATEED and AUT co-hosts. Chair Brian Russell.			
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12:50	Move to lunch on level 3 and 4, Showcase on Level 4			
13:00	    SPORTS TECHNOLOGY SHOWCASE. WG401. Tekscan bronze medal partner (lunch) and AUT and ATEED co-hosts. Opportunities for biomechanists to engage with technology companies: Avice, AUT Strain Gauge, Circuband, MyBio Motion, Beta-Energy, Force Mat, Myovolt, Physio Wear. Coordinators: Ms Amber Taylor, Dr Rosanne Ellis, Mr Ryan Archibald.			
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14:10	Move to keynote			
15:00	 KEYNOTE. SOPHIA NIMPHIUS. Re-evaluating what we “know” about female athletes in biomechanics research: Across the continuum from capacity to skill. WG403 (#384 lecture). AUT SPRINZ co-host. Chair: Professor John Cronin.			
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16:00	ACADEMIC PROGRAMME CLOSING. NIA Awards by Vice Chancellor Derek McCormack, ISBS President Prof Young Hoo Kwon, Dr Neil Bezodis, Samsung Digital Poster Award by Prof Mike McGuigan, Kiwiana Awards by Industry Partners, ISBS 2019 USA conference presentation by Dr Mark Walsh, Banner handover by President ISBS Prof Young Hoo Kwon. WG403 (#384 lecture). Chair: Professor Patria Hume.			
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16:50	Move to board meeting, mentor catch-up			

Industry Partner exhibitor break down from 10:40 to be completed by 12:30.

Sports Technology exhibitor break down from 15:00 to be completed by 17:00.

17:00				
17:10	ISBS POST		Student mentor catch-up option	
17:20	CONFERENCE BOARD			
17:30	MEETING WG517 (#22			
17:40	board) Chair:			
17:50	President ISBS Prof			
18:00	Young Hoo Kwon.			
18:10	Change for dinner ready for closing event.			
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21:10	MIDDLE EARTH BANQUET. Chair: Dr Sarah-Kate Millar. Sir Paul Reeves Atrium WG201, WA224. OFF THE WALL Band from 19:30-22:30. AUT-ATEED-HPSNZ-AUT Millennium-ISBS co-hosts and industry partners.			
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