

## CONFERENCE PROGRAM

<b>Sunday 16 July 2017</b>	
13.00 – 18.00 <i>Level 10</i>	Registration
13.00 – 16.00 <i>Level 1 (R2)</i>	Student Workshop
17.00 – 19.00 <i>Level 10</i>	ANZSMS Welcome Reception Guest Speaker – Josh Hixson, Australian Wine Research Institute (AWRI)

<b>Monday 17 July 2017</b>	
8.00 – 9.00 <i>Level 10</i>	Registration / Arrival tea & coffee
9.00 – 9.15 <i>Level 2</i>	Conference Open
9.15 – 10.00 <i>Level 2</i>	2017 ANZSMS Morrison Medal Recipient - Professor Kliti Grice, Curtin University <i>Molecules (and stable isotopes) about the evolution of life and their preservation across ocean anoxic events (including major mass extinction events)</i>
<i>Level 2</i>	<b><i>Environment/Forensics 1</i></b>
10.00 – 10.15	Professor Kevin Thomas, University of Queensland <i>High-resolution mass spectrometric retrospective screening of newly identified contaminants of emerging concern</i>
10.15 – 10.30	Mr Morphy Dumlao, (Student) University of New South Wales <i>Solid-phase microextraction dielectric barrier discharge ionisation for mass spectrometry</i>
10.30 – 11.00 <i>Level 10</i>	Morning Tea in the Exhibition
11.05 – 11.45 <i>Level 2</i>	Invited Speaker: Professor Jin-Ming Lin, Tsinghua University <i>Droplet generation and its application in cell analysis</i>
<i>Level 2</i>	<b><i>Clinical/Diagnostics</i></b>
11.45 – 12.00	Mr Rafea Naffa, (Student) Massey University <i>Rapid simultaneous quantitation of mature collagen crosslinks by silica hydride column and liquid chromatography-mass spectrometry (LC-MS) without derivatization</i>

12.00 – 12.15	Dr Taryn Guinan, Monash University <i>Desorption ionisation on porous silicon for the rapid detection of nicotine from breath</i>
12.15 – 13.30 <i>Level 10</i>	Lunch in the Exhibition
12.15 – 13.30 <i>Level 2</i>	Workshop hosted by Agilent
13.35 – 14.25 <i>Level 2</i>	Invited Speaker: Professor Richard A. Yost, University of Florida <i>Ion mobility/mass spectrometry for metabolomics and clinical analysis</i>
<i>Level 2</i>	<b><i>Lipids/Metabolites 1</i></b>
14.25 – 14.40	Dr Darren Creek, Monash University <i>Combining metabolomics and proteomics to reveal the mechanisms of action and resistance of peroxide antimalarials</i>
14.40 – 14.55	Mr Yepy H. Rustam (Student) University of Melbourne <i>An integrated 'omics' approach toward understanding the role of aberrant lipid metabolism in colon cancer</i>
14.55 – 15.10	Dr Marten Snel, South Australian Health and Medical Research Institute <i>Inter-generational changes in the gut microbiome and faecal metabolome of inbred mice</i>
15.10 – 15.45 <i>Level 10</i>	Afternoon Tea in the Exhibition
<i>Level 2</i>	<b><i>Lipids/Metabolites 2</i></b>
15.45 – 16.15	Professor Gavin Reid, University of Melbourne <i>Illuminating the structural diversity of the lipidome: 193 nm photo-dissociation tandem mass spectrometry for comprehensive lipid characterization</i>
16.15 – 16.30	Mr Venkateswara R. Narreddula, (Student), Queensland University of Technology <i>Photo-dissociation for structural elucidation of isomeric lipids using a novel fixed-charge derivative</i>
16.30 - 16.45	Dr Berwyck Poad, Queensland University of Technology <i>Combining charge-switch derivatisation with ozone-induced dissociation for facile fatty acid analysis</i>
16.45 – 17.00	Dr Elizabeth McKenzie, Liggins Institute <i>Long-term storage of human skin surface samples for metabolomics</i>
17.00 – 19.00 <i>Level 10</i>	Poster Session

Tuesday 18 July 2017	
8.00 – 9.00 <i>Level 10</i>	Registration / Arrival tea & coffee
9.00 – 9.45 <i>Level 2</i>	Invited Speaker: Vicki Wysocki, Ohio State University <i>Native MS in Structural Biology: SID/IMMS and SID/HRMS</i>
<i>Level 2</i>	<b><i>Structural/Native MS</i></b>
9.45 – 10.00	Dr Simon Brown, Illawarra Health and Medical Research Institute, University of Wollongong <i>Lipid-protein interactions: Mass spectrometric tools and techniques for structural characterisation</i>
10.00 – 10.15	Mr Julian Alexander Harrison, (Student) University of Wollongong <i>Mass spectrometry analysis of Australian snake venom trimeric phospholipase A2 stability</i>
10.15 – 10.30	Dr Nicholas Demarais, University of Auckland <i>Elucidation of disulfide bond connectivity by theta nano-electrospray</i>
10.30 – 11.05 <i>Level 10</i>	Morning Tea in the Exhibition
<i>Level 2</i>	<b><i>MS in Industry</i></b>
11.05 – 11.20	Mr Alex Oglobline, Chemistry First <i>Mass spectrometry in Australia. a view from a commercial lab</i>
11.20 – 11.35	Dr Neil Choi, DTS Food Assurance <i>Challenges in a commercial food analytical laboratory: modernisation of vitamin D3 analysis in infant formula by LCMSMS</i>
11.35 – 11.50	Sandra Hack, CPR Pharma Services <i>Regulated bioanalysis supporting preclinical and clinical studies</i>
11.50 - 12.05	Jana Skopec, Agrifor Scientific <i>Mass spectrometry importance and uses in the industry</i>
12.05 – 13.30 <i>Level 10</i>	Lunch in the Exhibition
12.05 – 13.30 <i>Level 2</i>	Workshop hosted by Oceania Mass Spectrometry Imaging Society

13.30 – 14.25 <i>Level 2</i>	Invited Speaker: Jasna Peter-Katalinic, University of Muenster, Germany and University of Rijeka, Croatia <i>A focus on complex carbohydrate mass spectrometry tools</i>
<i>Level 2</i>	<b><i>Advances in Instrumentation and Methods</i></b>
14.25 – 14.40	Dr Igor Filipov, Mscube Ltd. <i>A new high-resolution operational mode for quadrupole mass filters</i>
14.40 – 14.55	Ms Anna Radionova, (Student) The University of Auckland <i>Theta-channel nano-electrospray emitters for biological applications</i>
14.55 – 15.10	Mr Michael Leeming, (Student) The University of Melbourne <i>Non-targeted detection of metabolite-protein adducts</i>
15.10 – 15.45 <i>Level 10</i>	Afternoon Tea in the Exhibition
<i>Level 2</i>	<b><i>Imaging</i></b>
15.45 – 16.15	Professor Peter Hoffmann, University of South Australia <i>Mass spectrometry imaging (MSI) in combination with laser micro dissection and LC-MS/MS analysis for cancer diagnostics on tumour tissue</i>
16.15 – 16.30	Dr Paul Trim, South Australian Health and Medical Research Institute <i>MALDI imaging of lipids in human prostate cancer explants.</i>
16.30 – 16.45	Dr Johan Gustafsson, University of South Australia <i>Bimodal mass spectrometry imaging of fingermarks and gastric metabolites</i>
16.45 – 17.30 <i>Level 2</i>	ANZSMS AGM

<b>Wednesday 19 July 2017</b>	
8.00 – 9.00 <i>Level 10</i>	Registration / Arrival tea & coffee
9.00 – 9.45 <i>Level 2</i>	Invited Speaker: Myeong Hee Moon, Yonsei University <i>Flow field-flow fractionation and mass spectrometry for proteomic &amp; lipidomic analysis</i>
<i>Level 2</i>	<b><i>Environment/Forensics 2</i></b>
9.45 – 10.00	Associate Professor Stewart Walker, Flinders University <i>Use and abuse of mass spectrometry</i>
10.00 – 10.15	Miss Eliza Moule, (Student) Flinders University <i>Rapid detection of THC, MDMA and cocaine in saliva via Direct Sample Analysis- Time of Flight Mass Spectrometry (DSA-ToF)</i>
10.15 – 10.30	Associate Professor Oliver Jones, RMIT University <i>Revealing potential route specific impurities in the synthesis of illicit narcotics via mass spectrometry</i>
10.30 – 11.05 <i>Level 10</i>	Morning Tea in the Exhibition
11.05 – 11.45 <i>Level 2</i>	Guilhaus Prize: Dr W. Alexander Donald, University of New South Wales <i>Mechanism and control of the selective fragmentation of protein ions</i>
<i>Level 2</i>	<b><i>Ion Chemistry</i></b>
11.45 – 12.00	Dr David Harman, Western Sydney University <i>Pretty dicey chemistry: an ion trap mass spectrometry study into the reactivity of 1-cubyl radical</i>
12.00 – 12.15	Dr Jiaye Li, The University of Melbourne <i>Formation and gas-phase reactivity of atomically size-precise copper nanoclusters</i>
12.15 – 12.30	Mr Hyun Eui Lee, (Student) University of New South Wales <i>Capturing reactive high-valent iron(IV)-oxo intermediates of catalytic cycles using theta-capillary nanoelectrospray ionisation mass spectrometry</i>
12.30 – 12.45	Miss Fiona Bathie, (Student) The University of Melbourne <i>Generation and gas phase chemistry of the elusive organoargentates in the +3 oxidation state</i>
12.45 – 19.00	Free Time
<b>18.30 – 23.00</b>	<b>ANZSMS26 Conference Dinner at Adelaide Oval</b>

## Thursday 20 July 2017

8.00 – 9.00 <i>Level 10</i>	Registration / Arrival tea & coffee
9.00 – 9.45 <i>Level 2</i>	Invited Speaker: Christophe Juvet, The National Center for Scientific Research (France) <i>Cold Ions, spectroscopy and mass spectrometry</i>
<i>Level 2</i>	<b><i>Ion Spectroscopy</i></b>
9.45 – 10.00	Dr Christopher Hansen, University of Bristol <i>Ion imaging mass spectrometry with VUV universal ionisation: exploring the UV photo-dissociation dynamics of 2-bromothiophene</i>
10.00 – 10.15	Associate Professor Adam Trevitt, University of Wollongong <i>Laser photo-dissociation spectroscopy of protonated N-aromatic ions: Is it a crap-shoot?</i>
10.15 – 10.30	Dr David Marshall, Queensland University Of Technology <i>Optimisation of photochemical reactions using action spectroscopy</i>
10.30 – 11.05 <i>Level 10</i>	Morning Tea in the Exhibition
11.05 – 11.45	Bowie Medallist: Dr Tara Pukala, University of Adelaide <i>Structural Characterisation of Biomolecular Assemblies by Chemical Cross-Linking and Ion Mobility-Mass Spectrometry</i>
<i>Level 2</i>	<b><i>Ion Mobility MS</i></b>
11.45 – 12.00	Professor Richard O'Hair, University of Melbourne <i>Probing the structure of multiply charged betaine clusters using IR-vibrational spectroscopy combined with ion mobility-mass spectrometry (IM-MS)</i>
12.00 – 12.15	Dr James Bull, University of Melbourne <i>Photoswitching azoarenes: Ion mobility mass spectrometry coupled with laser spectroscopy</i>
12.15 – 13.30 <i>Level 10</i>	Lunch in the Exhibition

13.30 – 14.25 <i>Level 2</i>	Invited Speaker: Dr Yu-Ju Chen, Institute of Chemistry of Acedemia Sinica <i>Mass Spectrometry-based Strategies towards Comprehensive Phospho-proteomic Network</i>
<i>Level 2</i>	<b><i>Proteomics</i></b>
14.25 – 14.40	Dr Matthew Dun, Unter, University of Newcastle <i>Redoxome analysis of mutant FLT3 acute myeloid leukaemia patients reveals mechanisms of cooperation between kinase signalling and oxidative stress</i>
14.40 – 14.55	Ms Parul Mittal, (Student) University of Adelaide <i>Molecular characterization of metastatic endometrial cancer by mass spectrometry</i>
14.55 – 15.10	Mr Muhammad Zenaidee, (Student) University of New South Wales <i>Ion ‘supercharging’ significantly improves global protein identification in whole-cell protein digests by liquid chromatography tandem mass spectrometry</i>
15.10 – 15.30 <i>Level 2</i>	Conference Close & Awards Presentation

*This Conference Program is correct at the time of publication. The ANZSMS26 Organising Committee reserves the right to alter or delete items in the Conference Program without notice.*