

CATALYSING AUSTRALIA-JAPAN SCIENCE AND INNOVATION

29 - 30 MARCH 2022
SYDNEY, AUSTRALIA

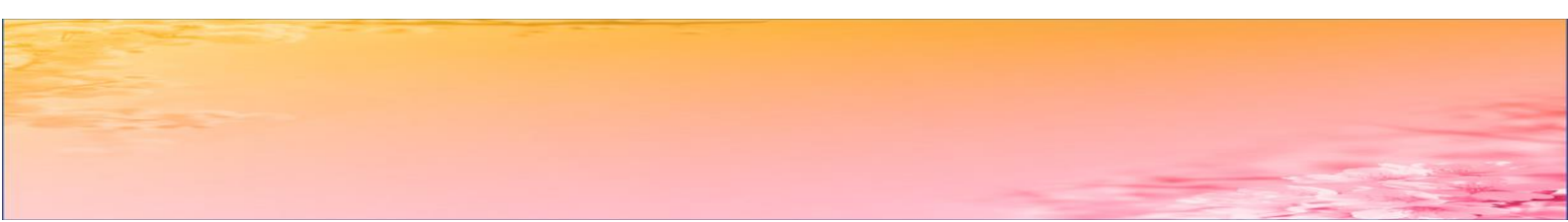


JSPS
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IN AUSTRALIA



Day 1 (29 March 2022)

| Time | Presenter | Talk | Affiliation |
|-----------------------------|-------------------------------------|--|---|
| Introductory Session | | | |
| 8:00-8:30 | Registrations | Registration | Registration |
| 8:30-8:35 | Dr Ashraf Ghanem & Dr Tamim Darwish | Welcoming Message | JSPSAAA |
| 8:35-8:45 | Dr Ruth Eriksen | Introduction of JSPSAAA | JSPSAAA |
| 8:45-8:50 | JSPS-Tokyo | Message from JSPS Tokyo | JSPS |
| 8:50-8:55 | Mr Akihiko Sunami | Message from the Embassy of Japan in Canberra | Embassy of Japan in Canberra |
| 8:55-9:00 | AJF | Message from AJF | AJF |
| 9:00-9:05 | AAS | Message from AAS | AAS |
| Session 1 Chair: TBA | | | |
| 9:05-9:25 (20 min) | Prof. Pall Thordarson | Recent Developments in the Australian RNA Ecosystem | UNSW |
| 9:25-9:40 (15 min) | Ms Sara Jose | Therapeutic targeting of Bruton tyrosine kinase (BTK) in neurodegenerative diseases | UQ |
| 9:40-9:55 (15 min) | Dr Anna Guller | Potential anti-cancer and immunomodulatory effects of TMS-like magnetic fields | Macquarie University |
| 9:55-10:15 (20 min) | Prof. Andrzej Kilian | Two into one: bringing ecological principles into agricultural practice for sustainable future | Diversity Arrays Technology, Canberra |
| 10:15-10:30 (15 min) | Dr Pingping Han | Salivary exosome for diagnosing periodontitis | UQ |
| 10:30-10:45 (15 min) | Dr Sohel Julovi | Thrombospondin-1 drives cardiac remodelling in chronic kidney disease | Westmead Institute For Medical Research |
| 10:45-11:05 (20 min) | Prof. Rachel Codd | New Methods and Collaborations to Expand the Scope of Biomolecule Discovery | USYD |
| 11:05-11:35 | <i>Morning tea</i> | | |



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Session 2- Chair: TBA

| | | | |
|-------------------------|------------------------|---|--------------------------------|
| 11:35-11:55 (20 min) | Prof. Hironao Sajiki | Development of Continuous Chemical Conversion Methods- Applying New Devices | Gifu Pharmaceutical University |
| 11:55-12:10 (15 min) | Ms Namrata Maslekar | Synthesis of diamine functionalised graphene oxide and its application in the fabrication of electrically conducting reduced graphene oxide/polymer nanocomposite films | UNSW |
| 12:10-12:25 (15 min) | Dr Vipul Agarwal | Manipulating the Properties of Polymer/Graphene Oxide Nanocomposites Using In Situ Emulsion-based Polymerisation | UNSW |
| 12:25-12:45 (20 min) | Prof Michael Breadmore | Continuous Autonomous Environmental Monitoring by Capillary Electrophoresis | UTAS |

12:45-14:00 *Lunch*

Session 3 Chair: TBA

| | | | |
|-------------------------|--------------------|---|-------|
| 14:00-14:20 (20 min) | Dr Miles Apperley | TBA | ANSTO |
| 14:20-14:35 (15 min) | Dr Noelia Martinez | ULTIMATE-Subaru: Advancing the near-infrared astronomical capabilities at the Subaru telescope with Ground Layer Adaptive Optics. | ANU |
| 14:35-14:50 (15 min) | Ms Karyn Wilde | ANSTO's National Deuterium Facility: facility overview, diversity of capabilities, user program and impact. | ANSTO |
| 14:50-15:10 (20 min) | Dr Jamie Schulz | Japan & Australia - Regional Leaders and Partners in Neutron Scattering | ANSTO |
| 15:10-15:30 (20 min) | Ms Michelle Durant | Existing programs and new opportunities for international collaboration with AINSE | AINSE |

15:30-16:00
(30 min)

Prof. Brian Schmidt

TBA

ANU

16:00-16:15 *Afternoon tea*

Session 4 Chair: TBA

| | | | |
|-------------------------|----------------------|---|--------------------------------|
| 16:15-16:35 (20 min) | Prof Kazuhiro Nogita | New Colombo Plan Mobility Program "Advanced Manufacturing in Japan – Creating Opportunities for Australia's Future Engineers" | UQ |
| 16:35-16:55 (20 min) | Mr Izuhara Takero | SoftBank Artificial Intelligence technology in Australia | ST SOLUTIONS AUSTRALIA PTY LTD |

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| | | | |
|--|---------------------------|--|----|
| 16:55-17:15 (20 min) | A/Prof Nenad Naumovski | The role of food science and human nutrition on psycho-cardiological outcomes | UC |
| Poster session & Networking 17:15-18:30 | | Poster Session & Networking | |
| Dinner: 19:00-22:00 | | SMC Venue | |
| <i>End for day one</i> | | | |

Day 2 (30 March 2022)

| Time | Presenter | Talk | Affiliation |
|-----------------------------|---|--|--|
| 8:30-8:40 | Dr Ashraf Ghanem & Dr Tamim Darwish | Housekeeping | JSPSAAA |
| Session 1 Chair: TBA | | | |
| 8:40-9:00 (20 min) | Prof Tamaki Nakano | Construction of Chiral Conformation of Polymers and Small Molecules Using Circularly Polarized Light | Hokkaido University |
| 9:00-9:15 (15 min) | Prof Gordon Thorogood | The Australian Nuclear Science and Technology Organisation and the Nagaoka University of Technology, Over 20 Years of Partnership | ANSTO |
| 9:15-9:30 (15 min) | Dr Aditya Rawal | NMR Platform for Characterization of Materials in Energy Environment and Health | UNSW |
| 9:30-9:45 (15 min) | Dr Marina Pervukhina | Digital permeability upscaling and Carbon dioxide hydraulic fracturing for underground Energy storage and gas enhancement production: JOGMEC, CSIRO, Kyushu, Yamaguchi, Kyoto and Curtin Universities collaborations | CSIRO |
| 9:45-10:00 (15 min) | Dr Steven Phipps | Achieving net zero together: The potential for Tasmania and Japan to collaborate on decarbonisation | Ikigai Research |
| 10:00-10:15 (15 min) | Mr Keith Sweatman | Value from Collaboration- A Case Study | Nihon Superior Co., Ltd |
| 10:15-10:35 (20 min) | Mr Shinichi Hiroi; Mr Hirofumi Kawazoe | Hydrogen Energy Supply Chain (HESC)- Japan- Australia partnership | Hydrogen Engineering Australia Pty Ltd |
| 10:35-10:50 | <i>Morning Tea</i> | | |
| Session 2 Chair: TBA | | | |
| 10:50-11:05 (15 min) | Prof. Elliot Gilbert | Small and Ultra Small Angle Scattering for Nano- and Micro-Structural Characterisation at ACNS, ANSTO | ANSTO |

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|-------------------------|-----------------------|--|--|
| 11:05-11:20 (15 min) | Dr Debashish Mazumder | Iso-elemental fingerprinting technology for food provenance | ANSTO |
| 11:20-11:35 (15 min) | Mr Jiaqiang Luo | Can variation in wine preference amongst consumers be explained by salivary protein composition? | The University of Melbourne |
| 11:35-11:50 (15 min) | Dr Yoshitaka Nakayama | Corynebacterium glutamicum mechanosensitive channels for developing amino acids-selective nanovalves. | Victor Chang Cardiac Research Institute |
| 11:50-12:05 (15 min) | A/Prof Andreea Molnar | The role of games in combating antibiotic resistance | Swinburne University Of Technology |
| 12:05-12:20 (15 min) | Dr Jason Whyte | Beyond "Safe Until Sorry" Management of Emerging Contaminants via Data Science Applied to a Publication Database | The University of Melbourne |
| 12:20-12:35 (15 min) | Dr Tsuyoshi Kobayashi | Collaborative research on the ecology of inland floodplain wetlands | NSW Department of Planning and Environment |
| 12:35-12:50 (15 min) | Dr Damith Herath | Robotic Art in Health Care | UC |
| 12:50- 13:05 | Dr Cindy Kok | Development of adeno-associated virus vectors for cardiac gene therapy | Westmead Institute for Medical Research |

13:05-14:05 *Lunch*

Session 3

13:30-18:00 ANSTO tour- ANSTO's educational tour is aimed to inform participants about the research infrastructure available at ANSTO for Australian researchers and the international research communities. The tour will involve visits to the following ANSTO's facilities: Australia's Open Pool Australian Lightwater (OPAL) reactor; Australian Centre for Neutron Scattering; Centre for Accelerator Science; National Deuterium Facility. ANSTO's tour bus is proudly sponsored by UQ-KU project.

| Time | Group 1 | Group 2 |
|------|----------------------------------|---------------|
| 2:00 | Arrival in DC and ANSTO Overview | |
| 2:15 | OPAL | ACNS |
| 2:40 | ACNS | OPAL |
| 3:05 | Travel | Travel |
| 3:10 | NDF Lab 1 | CAS |
| 3:35 | NDF Lab 2 | Afternoon Tea |
| 4:00 | Afternoon Tea | NDF Lab 1 |
| 4:25 | CAS | NDF Lab 2 |
| 4:50 | Return to DC and depart site | |

18:00 *Close*

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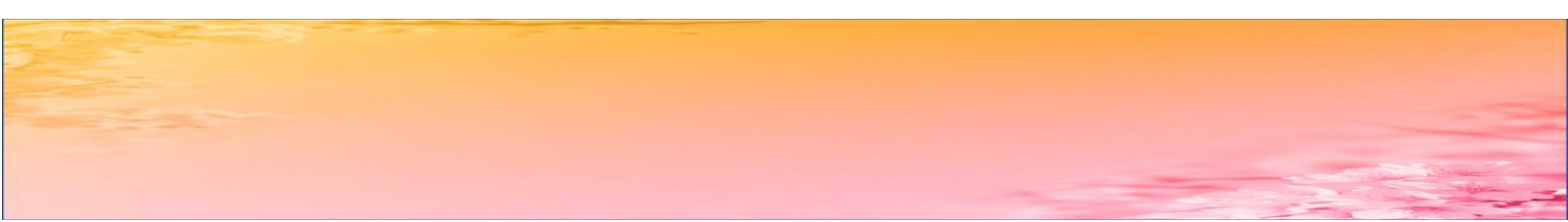


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Posters:

| Poster presenter | Title | Affiliation |
|---------------------|--|-------------------------|
| Mr Alan Robertson | Re-analysing existing clinical genomic information: an effective way to increase diagnostic yield for patients | UQ |
| Dr John Tang | The age of epidemics: acute infectious disease and economic development in historical perspective | University of Melbourne |
| Dr Mahbube Subhani | Bond properties at the softwood to hardwood interface | Deakin University |
| Dr Anthony Duff | Neutron crystallography of the transition state of RuBisCO | ANSTO |
| Dr Nicolas de Souza | Scientific opportunities for high-resolution neutron spectroscopy at ANSTO | ANSTO |
| Dr Jitendra Mata | Small and Ultra Small Angle Scattering for Nano- and Micro-Structural Characterisation at ACNS, ANSTO | ANSTO |
| Dr Ruth Eriksen | Tintinnids in the Southern Ocean –agglutinating communities with a focus on diatom and coccolithophorid consortia | CSIRO |
| Mr Yit Tao Loo | Effects of sugarcane flavones and fiber on short-chain fatty acids production by gut microbiota during in vitro pig fecal fermentation | University of Melbourne |



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Fourth JSPSAAA annual symposium

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