

Potential Program Structure

Synthetic Chemistry (Jonathan George)

The symposia in this theme will showcase a wide range of novel synthetic strategies and techniques for the generation of new organic, inorganic and polymeric substances. The theme will emphasise the common approaches of modern synthetic chemists across different disciplines, such as the design of new catalysts, green chemistry and self-assembly, that are required in the development of efficient and economical chemical syntheses.

Modern Organic Synthesis (Kate Jolliffe)

Modern Polymer Synthesis (San Thang)

Modern Aspects of Metal-Based Reactivity and Function (Paul Bernhardt)

Supramolecular Chemistry (Palli Thordarson)

Organometallic (Bernie Flynn)

Bruce-fest - A Symposium Celebrating the ⁷⁶Os Birthday of Michael Bruce
(Mark Humphrey)

Catalysis (David Lupton)

Reaction Mechanism and Structure Design (Michelle Coote)C

Fundamental Interactions in Chemistry (Greg Metha)

Symposia within this theme will interest chemists involved in the study of fundamental interactions between atoms and molecules, particularly new principles and applications of theoretical and experimental techniques. Key fields of research related to this theme include physical chemistry, chemical physics, theoretical modelling, computational chemistry, quantum chemistry, statistical mechanics, photochemistry, spectroscopy & structure, thermodynamics & kinetics and reaction dynamics.

Ions, Reactive and Unstable Intermediates (Adam Trevitt)C

Theoretical (Brian Yates)C

Spectroscopy (Mark Buntine)

Advanced Materials (David Lewis)

This theme will bring together Chemists, Physicists, Engineers and Nanotechnologists to examine and create the chemical properties of surfaces and structures that are the basis for Advanced Materials. Symposia will include the science of surfaces, interactions between structures, surface and particle design and fabrication.

Polymers and Polymer Composites (Darren Martin)

Materials for Energy Applications (Thomas Nann)

Materials for Sensing (Justin Gooding)C

Electroactive Materials (David Officer)

Vesicles, Polymers and Nanoparticles: Building Blocks for Functional Composite
Nanomaterials (Tak W. Kee, Martina Stenzel)

Thin Films and Surface Coatings (Adrian Thomas)

Computation of Materials and Surface Science (Debra Bernhardt)

Chemical Health and Safety (Deborah Ward)

This theme area is for anyone who works in Chemistry and with Chemicals needs to understand the risks and how to mitigate them. Get insights into how to maximise profits, recycle creatively, clean up operations and operate legally and safely.

- Remediation ()
- OHS Practices (Lara Wallis)
- Environment (?)
- Chemical Safety (James Kaufman)

Chemistry in Health (Andrew Harvey)

The Chemistry in Health theme will interest chemists involved in research with application to health and medicine, in particular medicinal chemists and polymer chemists. Key fields of research related to this theme include chemical biology, drug discovery, organic chemistry, drug delivery, polymer chemistry, computer-aided drug design and inorganic chemistry.

- Chemical Biology (Chris Burns - WEHI)C
- Drug Discovery – Hit to Lead Strategies (Michael Kassiou - USyd)C
- Enabling Technologies in Drug Discovery (Colin Pouton - Monash)
- Computer Aided Drug Design/Biomolecular Modelling (Renate Griffith - UWoll, Brian Smith - LaTr)
- Polymers for Health (Idriss Blakey - UQ)
- Bioinorganic and Bioorganic (Lou Rendina - USyd)C

Chemical Analysis and Sensing (Ingo Köper)

The chemical analysis and sensing theme will include a wide range of sensing approaches, from instrumental development to molecular mechanisms, from the development of novel sensing strategies to various applications including environmental monitoring, identification of unknown materials and compounds as well as quantification and chemical metrology. Key fields of research include analytical chemistry, physical chemistry, chemical physics, organic chemistry, photochemistry, spectroscopy & structure, chemical biology, drug discovery, drug delivery, polymer chemistry, and electrochemistry.

- Separation Science (Emily Hilder)C
- Detection and Identification (Ingo Köper)C
- Miniaturised systems/microfluidics (Amanda Ellis)C
- Environmental Monitoring (Dianne Jolley)
- Conservation (Rachel Popelka-Filcoff)C
- Electrochemical Analysis (Conor Hogan)

Community Engagement (Tatiana Anesbury)

The RACI National Congress 2014 will provide targeted activities, professional development and networking opportunities to the wider community in the areas of science education, research and industry.

Congress High School Student Visits coupled with meetings/presentations by leading chemists.

Student Engagement (Ian Jamie)

Public Engagement (Siegbert Schmid)

Teacher Professional Development Workshops (Bob Morton)

Awards to be included in the Program. The default plan will be to dedicate a session or sessions to each of the awards. Certainly not an exhaustive list—just what was on the submissions. There is no issue adding others.

Biota Award

Adrian Albert Award

Cornforth Medal (at Dinner maybe)

H.G. Smith Memorial Award (at Dinner maybe)

Leighton Memorial Medal (at Dinner maybe)

AJ Birch Medal

Burrows Award

Student Stranks Awards

Breyer Medal

Stokes Medal

Bond Medal

Physical Chemistry Division Medal

Doreen Clark Medal

Peter Alexander Early Career Medal

Environmental Chemistry Medal

Other Events

Division AGMs

Users Groups

Royal Presidents Dinner