Sunday
Welcome reception and registration at 6 pm. Canapes and open bar (beer, wine and soft drinks for 1 hour)

Monday
08.50 to 10.30  Session 1  Chair: Rod Boswell
Lowke  8.50-9.10  Toward a New Theory of Electrical Breakdown in Air?
Buckman  9.10-9.30  Positron Interactions with the Rare-Gas Atoms
Charles  9.30-9.50  Research and development activities of the Space Plasma, Power and Propulsion laboratory
Hole  9.50-10.10  Plasma Theory and Modelling at the ANU
Murphy  10.10-10.30  The Formation and the Effects of Metal Vapour in Welding Arcs

Morning tea
11.10 to 12.30  Session 2  Chair: John Howard
Samuell  11.10-11.30  A hydrogen global model to complement plasma-surface interaction experiments
Dixon  11.30-11.50  Characterisation of a micro discharge array source
Jacob  11.50-12.10  RF Plasma Polymer Thin Films for Emerging Electronics and Biomedical Applications
Hong Young Chang  12.10-12.30  Fast Measurement of Electron Density using Fourier Cutoff Probe

Lunch
14.00 to 15.20  Session 3  Chair: Hong-Young Chang
Corr  14.00-14.20  The Material Diagnostic Facility: A linear plasma device for studying fusion relevant plasma-surface interactions
Caneses  14.20-14.40  Initial wave activity in the “Material Diagnostic Facility” (MDF)
Hae June Lee  14.40-15.00  The effect of magnetic field in diocotron instability of a hollow electron beam
J. W. Shon  15.00-15.20  Industrial Application of Very High Frequency CCP Plasma Source

Afternoon tea
16.00 to 17.40  Session 4  Chair: Ron White
Machacek  16.00-16.20  Threshold Effects in Positron Scattering with Atoms and Molecules
M. G. Neira-Velázquez 16.20-16.40 Gas ionization of CO2/H2S using plasma of radiofrequency
Eun Ha Choi 16.40-17.00 Measurement of Hydroxyl Radical, Plasma Density and Electron temperature for atmospheric Bioplasma Jet
Boadle 17.00-17.20 Positronic Helium? - Search for Positron Bound States in the Doubly Excited Region of the Helium Atom
Tran 17.20-17.40 Plasma modification and deposition of polymers for biofuel production

Dinner not provided, please organise your own.

**Tuesday**

09.00 to 10.20  
**Session 5**  
Chair: Christine Charles

Mozetic 9.00-9.20 Improved hemocompatibility of PET vascular grafts by oxygen plasma treatment
Booth 9.20-9.40 Plasma deposition of nanocrystalline silicon for solar cells: RF waveform tailoring to optimize deposition rate and film morphology
Shahidi 9.40-10.00 Self cleaning and antibacterial effect on Cotton Fabrics Using Dc Magnetron Sputtering
Garcia 10.00-10.20 Electron scattering data to model electron tracks in gases: application to ethylene and sulfur hexafluoride

**Morning tea**

11.00 to 12.20  
**Session 6**  
Chair: Paul Booth

Dedrick 11.00-11.20 Control of diffuse and filamentary discharge modes in a pulsed, radio-frequency surface discharge in atmospheric-pressure argon
Howard 11.20-11.40 Imaging studies of the ion velocity distribution function in the MDF helicon plasma source
Haskey 11.40-12.00 Initial results from the new Helical Mirnov Array for the H-1NF Heliac

Myoung-Jae Lee 12.00-12.20

**Lunch**

14.00 to 15.00  
**Session 7**  
Chair: Tony Murphy

O’Connell 14.00-14.20 Propagation of ionization fronts in atmospheric pressure plasma jets and their interactions
Lei Chang 14.20-14.40 Wave modelling in cylindrical non-uniform plasmas: electrostatic and electromagnetic waves
Schroeder 14.40-15.00 Expanding structures in magnetized plasmas

**Afternoon tea**

16.00 to 17.20  
**Session 8**  
Chair: J. W. Shon
White 16.00-16.20  Kinetic and fluid equation treatments of non-equilibrium electron and positron transport in dense gases and liquids
Tam 16.20-16.40  3D Modelling of dc Atmospheric Arc Discharges
Sang-Hun Seo 16.40-17.00  An experimental study on a large area multi-electrode discharge in the fabrication of microcrystalline thin film solar cell
Kim Chang-Bae 17.00-17.20

19:00  
*Conference banquet and open bar (wine beer and soft drinks for 2 hours)*

**Wednesday**

**09.00 to 10.20**  
*Session 9*  
Chair: Deborah O’Connell

L.Campbell 9.00-9.20  Electron impact excitation of the higher-energy states of molecular oxygen in the atmosphere of Europa
Couedel 9.20-9.40  Mode coupling due to ion wakes in 2D complex plasma crystals
Dai 9.40-10.00  Enhancing inorganic nanomaterials by plasma functionalization/doping
C. Campbell 10.00-10.20  Extending the Usefulness of an Electron Scattering Setup by the Addition of a Light Polarization Detector and Magnetic Angle Changer

**Morning tea**

**11.00 to 12.00**  
*Session 10*  
Chair: Matthew Hole

Limao-Vieira 11.00-11.20  Electron transfer-induced fragmentation by atom-molecule collisions
Boswell 11.20-11.40  Particle-in-cell simulations of hollow cathode enhanced capacitively coupled rf discharges
Gans 11.40-12.00  Manipulating electron dynamics and plasma chemistry in dual radio-frequency driven atmospheric pressure plasmas

**Farewell**