

# VUV14 Program - Monday 19 July

8.30-9.00	<b>Opening Session</b> Chair: S. Suga		<b>Hall A</b>
	Official opening by The Hon. Warren Entsch MP, representing the Australian Minister for Science		
9.00-10.30	<b>Plenary Session 1</b> Chair: F. Larkins		<b>Hall A</b>
9.00	<b>M-PI-1</b> D. Charalambidis (Plenary) <i>The attosecond-science frontiers: metrology and potential applications</i>		
9.45	<b>M-PI-2</b> B. Sonntag (Plenary) <i>Inner-shell photoionization with a VUV free-electron-laser</i>		
10.30-11.00	<b>Morning Tea and Exhibition</b>		<b>Halls C/D</b>
11.00-12.30	<b>Poster Session 1</b>		<b>Halls C/D</b>
12.30-14.00	<b>Lunch</b>		
14.00-15.30	<b>Solids / Surfaces 1</b> Chair: K. Prince	<b>Hall A</b>	<b>Imaging</b> Chair: R. Garrett
			<b>Rooms 1/2</b>
	14.00	<b>M-I-1A</b> E. Shirley (Invited) <i>Toward quantitatively describing multipole, multiplet and correlation effects in VUV spectra</i>	14.00 <b>M-I-1P</b> K. Nugent (Invited) <i>Phase retrieval from coherent soft x-ray optics</i>
	14.30	<b>M-O-1A</b> M. Agåker <i>Resonant inelastic soft X-ray scattering at hollow lithium states in solids</i>	14.30 <b>M-I-2P</b> I. McNulty (Invited) <i>X-ray microscopy at the Advanced Photon Source</i>
	14.45	<b>M-O-2A</b> S. Fujimori <i>High-energy photoemission study on uranium compounds</i>	15.00 <b>M-O-1P</b> C. Jacobsen <i>X-ray imaging without lenses: diffraction imaging at Stony Brook and the ALS</i>
15.00	<b>M-I-2A</b> C. Masciovecchio (Invited) <i>Inelastic UV Scattering: a new tool to investigate collective excitations in condensed matter physics</i>	15.15 <b>M-O-2P</b> E. di Fabrizio <i>Phase and intensity control through diffractive optical elements in x-ray microscopy</i>	
15.30-16.00	<b>Afternoon Tea and Exhibition</b>		<b>Halls C/D</b>
16.00-17.30	<b>Microscopy</b> Chair: S. Heun	<b>Hall A</b>	<b>Alternative Sources</b> Chair: K. Baldwin
			<b>Rooms 1/2</b>
	16.00	<b>M-I-3A</b> C. Larabell (Invited) <i>X-ray tomography: Biological cells in 3-D at better than 50 nm resolution</i>	16.00 <b>M-I-3P</b> A. Klisnick (Invited) <i>Picosecond XUV lasers for users: current achievements and future LASERIX facility at LIXAM</i>
	16.30	<b>M-I-4A</b> M. Lerotic (Invited) <i>Cluster analysis in soft X-ray spectromicroscopy: finding the patterns in complex specimens</i>	16.30 <b>M-I-4P</b> K. Eikema (Invited) <i>Frequency-comb metrology in the VUV</i>
	17.00	<b>M-I-5A</b> M. Kiskinova (Invited) <i>Spectroscopic identification and imaging of surface processes occurring at microscopic and mesoscopic scales</i>	17.00 <b>M-O-3P</b> D. Neshev <i>High-order harmonic generation yielding tunable extreme-ultraviolet radiation of high spectral purity</i>
17.15		17.15 <b>M-O-4P</b> G. O'Sullivan <i>Recent progress in source development for EUV lithography</i>	
17.30-18.30	<b>Poster Session 1 (continued)</b>		<b>Halls C/D</b>
17.30-19.00	<b>Welcome Reception</b> (To be held in conjunction with Poster Session 1)		<b>Halls C/D</b>

# VUV14 Program – Tuesday 20 July

8.30-9.20	<b>Australian Synchrotron Session</b> Chair: M. Ridgway		<b>Hall A</b>
	8.30	<b>F. Larkins</b> <i>Australian Synchrotron - The National Science Case</i>	
	8.50	<b>J. Boldeman</b> <i>Australian Synchrotron - The Machine</i>	
	9.05	<b>R. Garrett</b> <i>Australian Synchrotron - The Beamlines</i>	
9.30-10.30	<b>Sources Mini-Symposium</b> Chair: J. West	<b>Hall A</b>	<b>Ions</b> Chair: U. Becker
	9.30	<b>W. Eberhardt</b> <i>The BESSY Soft X-ray FEL</i>	9.30 <b>Tu-I-1P F. Wulleumier</b> (Invited) <i>Photoionization of excited atoms and ions: recent progress and future prospects</i>
	9.45	<b>E. Gluskin</b> <i>Developments in the FEL programme at the Advanced Photon Source</i>	10.00 <b>Tu-O-1P N. Berrah</b> <i>Inner-shell dynamic studies in negative ions</i>
	10.00	<b>W. Flavell</b> <i>4GLS, the UK's 4<sup>th</sup> Generation Light Source</i>	10.15 <b>Tu-O-2P C. Latimer</b> <i>Anion spectroscopy of core photoexcited bromo-chloro-alkanes</i>
	10.15	<b>T. Gerber</b> <i>Temporally resolved experiments with synchrotron and fs-laser radiation at SLS</i>	
10.30-11.00	<b>Morning Tea and Exhibition</b>		<b>Halls C/D</b>
11.00-12.30	<b>Sources Symposium (cont.)</b> Chair: J. West	<b>Hall A</b>	<b>Magnetism 1</b> Chair: C. Fadley
	11.00	<b>N. Smith</b> <i>Coming of age at the Advanced Light Source</i>	11.00 <b>Tu-I-2P S. Kevan</b> (Invited) <i>Coherent soft x-ray magnetic scattering</i>
	11.15	<b>T. Hara</b> <i>SPring-8 compact SASE source (SCSS)</i>	11.30 <b>Tu-I-3P L. Braicovich</b> (Invited) <i>Dichroism in resonant inelastic soft X-ray scattering</i>
	11.30	<b>P. Morin</b> <i>The new French light source SOLEIL</i>	12.00 <b>Tu-O-3P S. Eisebitt</b> <i>Magnetic imaging by dichroic x-ray holography</i>
	11.45	<b>K. Prince</b> <i>The ELETTRA FEL and plans for FERMI</i>	12.15 <b>Tu-O-4P C. Schneider</b> <i>Imaging magnetization dynamics in microstructures by picosecond-XPEEM</i>
	12.00	<b>R. Cavell</b> <i>The Canadian Light Source - from a dream to first light</i>	
	12.15	General Discussion	
12.30-14.00	<b>Lunch</b> (and IAB Board Meeting at Cairns International Hotel Boardroom)		
14.00-15.30	<b>Magnetism 2</b> Chair: T. Ishii	<b>Hall A</b>	<b>Soft Matter</b> Chair: K. Seki
	14.00	<b>Tu-I-1A E. Arenholz</b> (Invited) <i>Vector magnetometry studies of exchange biased systems using soft x-ray magnetic dichroism</i>	14.00 <b>Tu-I-4P Y. Luo</b> (Invited) <i>Local electronic and geometrical structures of hydrogen-bonded complexes studied by soft X-ray spectroscopy</i>
	14.30	<b>Tu-O-1A A. Kimura</b> <i>Surface magnetic property of c(2x2) CuMn/Cu(001) 2-dimensional ordered surface alloy: Probed by soft x-ray magnetic circular dichroism</i>	14.30 <b>Tu-O-5P Y. Cai</b> <i>X-ray Raman scattering of oxygen in high-pressure low-temperature H<sub>2</sub>O</i>
	14.45	<b>Tu-O-2A E. Weschke</b> <i>Resonant magnetic soft x-ray scattering at the lanthanide M<sub>5</sub> edges</i>	14.45 <b>Tu-O-6P K. Nakagawa</b> <i>Natural circular dichroism of amino acid films observed in soft X-ray and VUV region using polarizing undulator</i>
	15.00	<b>Tu-I-2A K. Amemiya</b> (Invited) <i>Direct observation of surface and interface magnetism with the depth-resolved X-ray magnetic circular dichroism technique</i>	15.00 <b>Tu-O-7P A. Soldatov</b> <i>Electronic structure of human hemoglobin: ultrasoft X-ray emission study</i>
			15.15 <b>Tu-O-8P J. Moore</b> <i>High sensitivity detection of desorbed biomolecules by photoionization with tunable VUV</i>

15.30-16.00	<b>Afternoon Tea and Exhibition</b>	<b>Halls C/D</b>
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16.00-17.30	<b>Correlated Materials 1</b> Chair: A. Kotani	<b>Hall A</b>	<b>Clusters</b> Chair: H. Schmoranzner	<b>Rooms 1/2</b>
16.00	<b>Tu-I-3A C.-T. Chen</b> (Invited) <i>Soft x-ray investigation of strongly correlated electron systems</i>		16.00	<b>Tu-I-5P A. Rubens de Castro</b> (Invited) <i>Non-linear phenomena in atoms and clusters induced by intense VUV radiation from a Free Electron Laser</i>
16.30	<b>Tu-I-4A S. Shin</b> (Invited) <i>Ultra-high-resolution photoemission spectroscopy of superconductors using a VUV laser</i>		16.30	<b>Tu-O-9P J. Bozek</b> <i>Spin resolved inner-shell photoelectron spectroscopy of Xe clusters</i>
17.00	<b>Tu-O-3A K. Okada</b> <i>Large-cluster-model calculation of O 1s XAS for <math>Y_{2-x}Ca_xBaNiO_5</math></i>		16.45	<b>Tu-O-10P A. De Fanis</b> <i>Photoelectron-photoion-photoion coincidence imaging in Ar dimer</i>
17.15	<b>Tu-O-4A H. Komoda</b> <i>Direct observation of superconducting gap in <math>YB_6</math> by ultra-high-resolution photoemission spectroscopy</i>		17.00	<b>Tu-I-6P M. Neeb</b> (Invited) <i>Time-resolved photoelectron spectroscopy on small metal cluster anions using fs laser pulses</i>

17.30-18.00	<b>Break</b>
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18.00-19.00	<b>Public Lecture</b>	<b>Hall A</b>
18.00	<b>J. Seymour</b> <i>Australia, the land of things that bite, sting and kill! Is it really that bad?</i>	

# VUV14 Program – Wednesday 21 July

8.20-9.35	<b>Plenary Session 2</b> Chair: K. Codling		<b>Hall A</b>
8.20	<b>W-PI-1</b> R. Dörner (Plenary) <i>Electrons from fixed- in-space molecules and clusters</i>		
9.05	<b>W-I-1A</b> J. Ajello (Invited) <i>A journey through the solar system in the ultraviolet</i>		
9.40-10.40	<b>Solids / Surfaces 2</b> Chair: I. Lindau	<b>Hall A</b>	<b>Atmospheres</b> Chair: G. de Souza
9.40	<b>W-I-2A</b> J. Larsson (Invited) <i>Combining laser and synchrotron radiation in time-resolved experiments</i>		9.40 <b>W-I-1P</b> R. Meier (Invited) <i>VUV diagnostic spectroscopy at the edge of space</i>
10.10	<b>W-O-1A</b> P. Heimann <i>Ultrafast x-ray absorption spectroscopy of laser-excited materials</i>		10.10 <b>W-I-2P</b> T. Slanger (Invited) <i>Observation of 10.5-13.5 eV OI Rydberg states in the terrestrial ionospheric nightglow: the new role of large telescopes in atmospheric studies</i>
10.25	<b>W-O-2A</b> G. Paolicelli <i>Bulk Sensitive Photoemission: first results of VOLPE project at ESRF</i>		
10.40-11.00	<b>Morning Tea and Exhibition</b>		<b>Halls C/D</b>
11.00-12.30	<b>Poster Session 2</b>		<b>Halls C/D</b>
12.30-14.00	<b>Lunch</b>		
14.00-15.30	<b>Magnetism 3</b> Chair: W. Eberhardt	<b>Hall A</b>	<b>Photodissociation</b> Chair: K. Mitsuke
14.00	<b>W-I-3A</b> A. Fujimori (Invited) <i>Photoemission and MCD study of magnetic semiconductors for spintronics</i>		14.00 <b>W-I-3P</b> W. Ubachs (Invited) <i>High resolution molecular physics studies using a laser-based tunable XUV source at 10<sup>7</sup> resolving power</i>
14.30	<b>W-O-3A</b> T. Takeuchi <i>Soft x-ray spectroscopy of diluted magnetic semiconductor Ga<sub>1-x</sub>M<sub>x</sub>N (M = Cr, Mn)</i>		14.30 <b>W-O-1P</b> H. Lefebvre-Brion <i>The 'cathedral' in the near-threshold absorption spectrum of N<sub>2</sub></i>
14.45	<b>W-O-4A</b> O. Rader <i>Which Mn is ferromagnetic in Ga<sub>1-x</sub>Mn<sub>x</sub>As?</i>		14.45 <b>W-O-2P</b> C.R. Wu <i>EUV photolysis of molecular ice systems of astronomical interest</i>
15.00	<b>W-I-4A</b> N. Mannella (Invited) <i>Electron localization, polarons and clustered states in manganites</i>		15.00 <b>W-O-3P</b> K. Kavanagh <i>Probing colliding calcium plasmas with emission and VUV absorption imaging</i>
			15.15 <b>W-O-4P</b> P. Cosby <i>Dissociative recombination of vibrationally-excited oxygen molecular ions</i>
15.30-16.00	<b>Afternoon Tea and Exhibition</b>		<b>Halls C/D</b>
16.00-17.30	<b>Correlated Materials 2</b> Chair: A. Moewes	<b>Hall A</b>	<b>Dynamics</b> Chair: K. Ueda
16.00	<b>W-I-5A</b> W. Flavell (Invited) <i>Resonant photoemission of transition metal perovskites - from GMR to catalysts</i>		16.00 <b>W-I-4P</b> M. Drescher (Invited) <i>Atomic dynamics with attosecond VUV pulses</i>
16.30	<b>W-O-5A</b> A. Sekiyama <i>Bulk electronic state of high Tc cuprate La<sub>2-x</sub>Sr<sub>x</sub>CuO<sub>4</sub> observed by high-energy angle-resolved photoemission spectroscopy</i>		16.30 <b>W-I-5P</b> C. Miron (Invited) <i>Femto-second dynamics probed by resonant photoemission and coincidence techniques</i>
16.45	<b>W-O-6A</b> A. Chikamatsu <i>In-situ angle-resolved photoemission study on La<sub>1-x</sub>Sr<sub>x</sub>MnO<sub>3</sub> thin films grown by Laser MBE</i>		17.00 <b>W-I-6P</b> K. Yamanouchi (Invited) <i>Ultrafast dynamics of molecules in the vacuum ultraviolet wavelength region: ultrashort pulsed excitation vs. monochromatic excitation</i>
17.00	<b>W-O-7A</b> S. Imada <i>Ferromagnetic metal to spin-glass insulator transition in pyrochlore-type molybdates R<sub>2</sub>Mo<sub>2</sub>O<sub>7</sub> studied with photoemission and XMCD</i>		
17.15	<b>W-O-8A</b> H. Dürr <i>Fs electron and spin dynamics in ferromagnetic films and nanostructures</i>		
17.30-18.30	<b>Poster Session 2 (continued)</b>		<b>Halls C/D</b>
19.00-23.00	<b>Conference Banquet – Cairns International Hotel</b>		

# VUV14 Program – Thursday 22 July

8.20-9.35	<b>Plenary Session 3</b> Chair: N. Smith		<b>Hall A</b>
8.20	<b>Th-Pl-1</b> J.C. Campuzano (Plen) <i>What angle-resolved photoelectron spectroscopy tells us about high-temperature superconductors</i>		
9.05	<b>Th-I-1A</b> M. Martin (Invited) <i>Synchrotron infrared science: Physics, biology, environmental science and coherence</i>		
9.40-10.40	<b>Solids / Surfaces 3</b> Chair: E. Gluskin	<b>Hall A</b>	<b>Photoionization 1</b> Chair: H. Schmidt-Böcking
9.40	<b>Th-I-2A</b> F. Parmigiani (Inv.) <i>Non-linear photoemission processes and electron dynamics at solid surfaces</i>		9.40 <b>Th-I-1P</b> J. Eland (Invited) <i>Studies of double photoionization using a fast pulsed VUV source</i>
10.10	<b>Th-O-1A</b> S. Hatta <i>Charge-density wave transition on In/Cu(001)</i>		10.10 <b>Th-I-2P</b> K. Taylor (Invited) <i>Multiphoton double ionization of atoms and molecules by FEL VUV light</i>
10.25	<b>Th-O-2A</b> E. Rotenberg <i>Spin density wave phase diagram of Cr(110) Thin Films</i>		
10.40-11.00	<b>Morning Tea and Exhibition</b>		<b>Halls C/D</b>
11.00-12.30	<b>Poster Session 3</b>		<b>Halls C/D</b>
12.30-14.00	<b>Lunch</b>		
14.00-15.30	<b>Nanostructures</b> Chair: X. Zhang	<b>Hall A</b>	<b>Photoionization 2</b> Chair: L. Avaldi
14.00	<b>Th-I-3A</b> W. Wurth (Invited) <i>Soft X-ray spectroscopy of deposited transition metal atoms and clusters</i>		14.00 <b>Th-I-3P</b> N. Saito (Invited) <i>Dynamics of core-ionization and excitation of molecules probed by multiple coincidence momentum imaging spectroscopy</i>
14.30	<b>Th-O-3A</b> T. van Buuren <i>X-ray absorption and emission studies of diamond nanoparticles</i>		14.30 <b>Th-I-4P</b> F. Penent (Invited) <i>Coincidence Auger spectroscopy</i>
14.45	<b>Th-O-4A</b> T. Schmitt <i>Local and non-local effects in resonant inelastic X-ray scattering of Na<sub>2</sub>V<sub>3</sub>O<sub>7</sub> nanotubes</i>		15.00 <b>Th-I-5P</b> N. Cherepkov (Invited) <i>Complete experiments in photoionization of atoms and molecules</i>
15.00	<b>Th-O-5A</b> T.-K. Sham <i>Studies of nanostructures using time-resolved x-ray excited optical luminescence</i>		
15.15	<b>Th-O-6A</b> L. Petaccia <i>Electronic structure of single-walled carbon nanotubes and interaction with atoms and gases studied via synchrotron radiation spectroscopy</i>		
15.30-16.00	<b>Afternoon Tea and Exhibition</b>		<b>Halls C/D</b>
16.00-17.30	<b>Solids / Surfaces 4</b> Chair: S.-J. Oh	<b>Hall A</b>	<b>Photoionization 3</b> Chair: M.-N. Piancastelli
16.00	<b>Th-I-4A</b> P. Soukiassian (Invited) <i>Atomic scale nanochemistry in Silicon Carbide oxidation and H-induced surface metallization</i>		16.00 <b>Th-O-1P</b> E. Kukk <i>VUV-induced processes in alkali halide dimer molecules -- how well does the ionic approach work?</i>
16.30	<b>Th-O-7A</b> A. Tadich <i>Mapping disorder-order induced changes to the Fermi surface of Cu<sub>3</sub>Au</i>		16.15 <b>Th-O-2P</b> D. Rolles <i>Probing the degree of core hole localization in isotope substituted N<sub>2</sub> via photoelectron spectroscopy</i>
16.45	<b>Th-O-8A</b> R. Woolley <i>Does an encapsulated atom 'feel' the effects of adsorption?</i>		16.30 <b>Th-I-6P</b> N. Kosugi (Invited) <i>Valence in the Rydberg / continuum region: theory and experiment of molecular inner-shell spectroscopy.</i>
17.00	<b>Th-O-9A</b> T. Okuda <i>Scanning tunneling microscope combined with synchrotron-radiation for elemental analysis</i>		17.00 <b>Th-O-3P</b> M. Meyer <i>Resonant and non-resonant two-photon ionization of atoms</i>
17.15	<b>Th-O-10A</b> M. Tsunekawa <i>Soft x-ray photoemission study of quasi-two-dimensional organic conductors BEDT-TTF and BEDO-TTF salts</i>		17.15 <b>Th-O-4P</b> J.-I. Adachi <i>Vibrationally resolved C 1s photoelectron angular distributions from fixed-in-space CO molecules: Mechanism of the shape-resonance-induced non-Franck-Condon effects</i>
17.30-18.30	<b>Poster Session 3 (continued)</b>		<b>Halls C/D</b>

# VUV14 Program – Friday 23 July

8.20-9.35	<b>Solids / Surfaces 5</b> Chair: R. Leckey	<b>Hall A</b>	<b>Photoexcitation</b> Chair: J.-E. Rubensson	<b>Rooms 1/2</b>
8.20	<b>F-I-1A E. Lundgren</b> (Invited) <i>The oxidation of some late transition metals: from UHV to ambient oxygen partial pressures</i>		8.20 <b>F-I-1P P. Hammond</b> (Invited) <i>Highly excited states: new experimental windows in photoexcitation</i>	
8.50	<b>F-I-2A H.-W. Yeom</b> (Invited) <i>Electronic transitions of atomic wires on silicon surfaces</i>		8.50 <b>F-I-2P Y. Azuma</b> (Invited) <i>Double photoexcitation of helium in a strong dc electric field</i>	
9.20	<b>F-O-1A K. Sakamoto</b> <i>Electronic structures of Ca induced one-dimensional reconstructions on a Si(111) surface</i>		9.20 <b>F-O-1P T. Softley</b> <i>Controlling the motion of hydrogen molecules</i>	
<b>9.45-10.30</b>	<b>Plenary Session 4</b> Chair: A. Yagishita		<b>Hall A</b>	
9.45	<b>F-Pl-1 A. Hitchcock</b> (Plenary) <i>Soft X-ray spectromicroscopy of biological and synthetic polymer systems</i>			
<b>10.30-11.00</b>	<b>Closing Session</b>		<b>Hall A</b>	
<b>11.00-17.30</b>	<b>Optional Conference Half-Day Excursions</b>			
<b>9.45-17.15</b>	<b>Saturday 24 July</b> <b>Optional Conference Full-Day Excursion (Reef Trip)</b>			