

**TIMETABLE FOR 16TH EUROPEAN CONFERENCE ON SOLID STATE CHEMISTRY
TECHNOLOGY AND INNOVATION CENTRE (TIC), UNIVERSITY OF STRATHCLYDE, 99 GEORGE STREET, GLASGOW, G1 1RD**

Sunday July 23rd

2pm Registration opens		
<i>Session chair: Dr Eddie Cussen</i>		
Time	Speaker	Talk title
3.30pm	Dr Eddie Cussen , Local organiser	Conference opening
	TBA , official from University of Strathclyde	Welcome remarks
	Prof Antoine Maignan , Chair of ECSSC Advisory board	Opening remarks
	Prof Martin Jansen , Chair of Division	Welcome address
4pm	Prof C. N. R. Rao , JNCASR, Bangalore, India	Plenary talk
5pm – 6pm Welcome reception for delegates, TIC		

Monday July 24th

<i>Session chair: TBA</i>			
Time	Speaker	Topic	Talk title
8.30am	Prof Laurent Chapon Diamond Light Source	Advanced characterisation techniques	Keynote talk
9.10am	Prof Derek Sinclair University of Sheffield	Physical chemistry of solids	Invited talk: The influence of non-stoichiometry and chemical doping on the electrical properties of ferroelectric $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3$
9.30am	Prof A. Sundaresan JNCASR, Bangalore	Functional materials	Contributed talk: Ordered Aeschynite-type Polar Oxides: A New Family of Multiferroics
9.50am	Prof H. Höpfe University of Augsburg	Functional materials	Contributed talk: Borosulphates – On A Novel Class of Silicate-Analogous Compounds
10.10am	Mr J. McNulty University of St Andrews	Functional materials	Contributed talk: Improper (Topological) Ferroelectricity in Hexagonal Tungsten Bronzes
10.30am – 11am Coffee break			
<i>Session chair: TBA</i>			
11am	Prof Valeria Nicolosi , Trinity College Dublin	Chalcogenide and oxide hydride materials, non-oxides	Keynote talk
11.40am	Prof Stefan Kaiser Max Planck Institut, Stuttgart	Advanced characterisation techniques	Invited talk: Ultrafast optical control of complex quantum materials
12pm	Dr F. Haarman Max-Planck-Institut, Dresden	Advanced characterisation techniques	Contributed talk: Unrevealing local atomic order in Intermetallics
12.20pm	Ms J. Wind University of Sydney	Advanced characterisation techniques	Contributed talk: Inelastic Neutron Scattering Studies of δ - Bi_2O_3 -related Oxide-ion Conductors
12.40pm	Dr A. S. Gibbs ISIS Neutron and Muon Source	Advanced characterisation techniques	Contributed talk: ^{193}Ir - opening the door to high quality neutron scattering studies of iridium-based materials

1pm – 2pm Lunch

Session chair: TBA

Time	Speaker	Topic	Talk title
2pm	Prof J. Paul Attfield , University of Edinburgh	Large volume high pressure techniques	Keynote talk: Oxide materials discovery using high pressure
2.40pm	Prof Hubert Huppertz University of Innsbruck	Large volume high pressure techniques	Invited talk: Extending the field of transition metal borates via high pressure synthesis
3pm	Mr S. Kloß University of Munich	Large volume high pressure techniques	Contributed talk: Accessing High-Valency Metal Nitridophosphates through High-Pressure Metathesis
3.20pm	Dr E. Morán Universidad Complutense de Madrid	Large volume high pressure techniques	Contributed talk: High Pressure Materials and Rechargeable Batteries: are they separate worlds?
3.40pm	Dr M. Pravica University of Nevada Las Vegas	Large volume high pressure techniques	Contributed talk: Synthesis of novel materials via hard x-ray photochemistry

4pm – 5.30pm Poster session, TIC

6pm Civic reception, Glasgow City Chambers

Tuesday July 25th

Session chair: TBA

Time	Speaker	Topic	Talk title
8.30am	Prof Russell Morris University of St Andrews	Microporous/mesoporous materials	Keynote talk: Exploiting weakness in materials to control the structure and properties of porous materials
9.10am	Prof Xiaodong Zou Stockholm University	Microporous/mesoporous materials	Invited talk: Automated electron diffraction techniques for phase analysis and structure determination
9.30am	Dr B. Davaasuren KAUST	Chalcogenide and oxide hydride materials, non-oxides	Contributed talk: MAu ₂ GeS ₄ -chalcogel (M = Co, Ni): versatile heterogeneous intra- and intermolecular hydroamination catalysts
9.50am	Dr L. Strizik University of Pardubice	Chalcogenide and oxide hydride materials, non-oxides	Contributed talk: Quadrature Frequency Resolved Spectroscopy of Upconversion Photoluminescence in GeGaS:Er ³⁺
10.10am	Ms S. Nicoud Université Lille	Chalcogenide and oxide hydride materials, non-oxides	Contributed talk: Toward new low dimensional oxy-chalcogenides

10.30am – 11am Coffee break

Session chair: TBA

11am	Prof Holger Kohlman Leipzig University	Chalcogenide and oxide hydride materials, non-oxides	Invited talk: The formation of metal hydrides between soft chemistry and brute force
11.20am	Dr S. Tencé CNRS, Univ. Bordeaux	Chalcogenide and oxide hydride materials, non-oxides	Contributed talk: Hydrogenation of intermetallics: a new way towards superconductivity
11.40am	Dr Oleg Drozhzhin Lomonosov Moscow State University	Chalcogenide and oxide hydride materials, non-oxides	Contributed talk: T _c -enhancement in Fe _{1+x} Se by electrochemical lithium intercalation
12pm	Prof J. Chen , University of Science & Technology Beijing	Chalcogenide and oxide hydride materials, non-oxides	Contributed talk: Local structure, negative thermal expansion, and magnetic properties of ReO ₃ -type ScF ₃ based fluorides

12.20pm	Prof Th. Schleid University of Stuttgart	Chalcogenide and oxide hydride materials, non-oxides	Contributed talk: Make Europium Great Again
12.40pm	Dr C. Birkel Technische Universität Darmstadt	Chalcogenide and oxide hydride materials, non-oxides	Contributed talk: Non-conventional synthesis of MAX phases and investigation of their structural and magnetic properties
1pm – 2pm Lunch			
Session chair: TBA			
2pm	Prof Mathias Wickleder University of Cologne	<i>Advances in Solid State Materials Synthesis</i>	<i>Keynote talk: Synthesis with and in sulfuric acid and sulfur trioxide</i>
2.40pm	Prof Valerie Pralong CRISMAT Laboratory, Caen	<i>Advances in Solid State Materials Synthesis</i>	<i>Invited talk</i>
3pm	Prof Z. Xia , University of Science and Technology Beijing	Advances in Solid State Materials Synthesis	Contributed talk: Cosubstitution: Useful Structural Design Principle to Discover New Rare Earth Doped Luminescence Materials for White LEDs
3.20pm	Prof P. Slater University of Birmingham	Advances in Solid State Materials Synthesis	Contributed talk: Flexibility of Perovskite & related structures to accommodate oxyanion dopants, and consequent influence on structure & conductivity
3.40pm	Prof A. Demourgues CNRS, Univ. Bordeaux	Advances in Solid State Materials Synthesis	Contributed talk: Tuning the Mn and Fe Valence States into New Ca _{0.7} Mn _{2-x} Fe _x O ₄ Solid Solution during Reversible Redox Processes
4pm – 5.30pm Poster session, TIC			
Conference banquet, details TBC			

Wednesday July 26th

Session chair: TBA			
Time	Speaker	Topic	Talk title
8.30am	Prof Claudia Felser Max Planck Institut, Munich	<i>Topological phenomena</i>	<i>Keynote talk: Topology in chemistry and materials science</i>
9.10am	Prof David Carpentier ENS Lyon, France	<i>Topological phenomena</i>	<i>Invited talk: Topological properties of insulators and semi-metals</i>
9.30am	Prof S. Ebbinghaus , Martin Luther University Halle-Wittenberg	Functional materials	Contributed talk: Multiferroic Composites with 0–3-, 2–2-, and 3–3-Connectivity
9.50am	Ms A. Bronova , Rheinische Friedrich-Wilhelms-Universität	Physical chemistry of solids	Contributed talk: Optical spectra and magnetic behavior of a wide range of europium(III) oxo-compounds: Analysis of the ligand-field effects
10.10am	Ms H. Bostrom University of Oxford	Physical chemistry of solids	Contributed talk: Columnar shifts as a means to hybrid improper ferroelectricity in molecular perovskites
10.30am	Dr S. Culver Justus-Liebig-University Giessen	Functional materials	Contributed talk: On the influence of soft lattices on ionic transport
10.50am – 11.15am Coffee break			
Session chair: TBA			
11.15am	Prof Kristina Edström Uppsala University, Sweden	<i>Electrochemistry</i>	<i>Keynote talk</i>

11.55am	Prof Keith Stevenson Skoltech Institute, Moscow	Electrochemistry	<i>Invited talk: Understanding ion solvation structure, energetics and kinetics in super-concentrated electrolytes for energy storage</i>
12.15pm	Dr H. El-Shinawi University of Glasgow	Electrochemistry	Contributed talk: Development of potential solid-electrolyte and electrode materials for all-solid-state lithium ion battery
12.35pm	Dr M. Valldor , Leibniz Institute for Solid State & Materials Research	Electrochemistry	Contributed talk: Novel <i>Anti</i> -Perovskite Li-Battery Cathode Materials
12.55pm	Mr M. Nowroozi Technische Universität Darmstadt	Electrochemistry	Contributed talk: Investigation of K_2NiF_4 type compounds as reversible intercalation-based cathodes for fluoride-ion batteries with high capacity & voltage
1.15pm – 2pm Lunch			
<i>Session chair: TBA</i>			
2pm	Prof Vladimir Cherepanov Ural Federal University, Ekaterinburg	Physical chemistry of solids	<i>Keynote talk: Peculiarities of the perovskite-type phases formation in $Ln_2O_3 - MO - TO_x$ systems (Ln, rare earth; M, alkali earth; T, Fe & Co) – phsy chem sol</i>
2.40pm	Dr J. Cumby University of Edinburgh	Physical chemistry of solids	Contributed talk: Understanding structure from polyhedral distortion
3pm	Dr G. Gouget CNRS, Université de Bordeaux	Functional materials	Contributed talk: Exploring the electronic properties of new niobates and titanates perovskites with mixed valence
3.20pm	Mr O. Mustonen Aalto University	Physical chemistry of solids	Contributed talk: Suppression of magnetic order in double perovskite $Sr_2CuTe_{0.5}W_{0.5}O_6$ –frustrated square-lattice antiferromagnet with random exchange
3.40pm	Dr E. Hunter University of Oxford	Functional materials	Contributed talk: Moving beyond $La_3Ni_2SbO_9$: The search for relaxor ferromagnetism in $LaSr_2Cr_2SbO_9$ and $PrSr_2Cr_2BO_9$ (B=Sb, Ta, Nb)
4pm	Dr O. Mentré Université Lille	Functional materials	Contributed talk: Crystal Chemistry of vacancies and interstitial anions in layered multiferroics
4.20pm	Prof Martin Jansen	<i>Closing comments</i>	