

**SPEAKERS PROGRAM**

17th Conference on Solid State Ionics

Printed on Thu 25 June 09 at 22:32:41

**APL - PLENARY LECTURE**Date **06/29/2009** Time **0900 to 0950**Chair **Alastair Cormack, Alfred University,  
ALFRED, USA**Room **Concert Hall**

Times	Title	Speaker	Presentation Type
0900 0950	CONFINEMENT EFFECTS IN SOLID STATE IONICS	Maier, Joachim Prof.	Plenary Lecturer

**M1A - CATHODES I**Date **06/29/2009** Time **0950 to 1230**Chair **Emma Kendrick, FiFe Batteries Ltd,  
ABINGDON, UK**Room **Concert Hall**

Times	Title	Speaker	Presentation Type
0950 1010	THE ELECTROCHEMICAL INTERCALATION REACTION OF LiNiO <sub>2</sub> , LiCoO <sub>2</sub> and Li(CoNi) <sub>2</sub> O <sub>2</sub> INVESTIGATED BY PHOTOELECTRON SPECTROSCOPY METHODS	Ensling, David Dr.	Oral Presentation
1010 1030	COMPARATIVE STUDY OF CAPACITY AND RATE CAPABILITY OF LiNi <sub>y</sub> Mn <sub>1-y</sub> Co <sub>1-2y</sub> O <sub>2</sub> (y=0.5, 0.45, 0.4, 0.33)	Li, Zheng Mr.	Oral Presentation
1100 1130	ELECTROCHEMICAL BEHAVIOUR OF SPUTTERED c-V <sub>2</sub> O <sub>5</sub> AND LiCoO <sub>2</sub> THIN FILMS FOR SOLID STATE LITHIUM MICROBATTERIES	Pereira-Ramos, Jean-Pierre Dr	Keynote
1130 1150	SURFACE EFFECT ON ELECTRONIC STRUCTURE AND LI-ION INTERCALATION IN NANOCRYSTALLINE ELECTRODE MATERIALS	Okubo, Masashi Dr	Oral Presentation
1150 1210	FROM 'CORE-SHELL' TO COMPOSITE MIXED CATHODE MATERIALS FOR RECHARGEABLE LITHIUM BATTERIES BY MECHANOCHEMICAL PROCESS	Kosova, Nina Dr	Oral Presentation
1210 1230	CHANGES IN THE CRYSTAL AND ELECTRONIC STRUCTURE OF Li(CO,Ni) <sub>2</sub> O <sub>2</sub> UPON LI-DEINTERCALATION	Schmidt, Peter C. Dr.	Oral Presentation

**M1B - MIXED CONDUCTORS I**Date **06/29/2009** Time **0950 to 1230**Chair **Harry Tuller, MIT, CAMBRIDGE, USA**Room **Ontario Room**

Times	Title	Speaker	Presentation Type
0950 1010	ELECTRIC CONDUCTION PROPERTIES OF BORON-DOPED CERIUM OXIDE	Gregori, Giuliano Dr.	Oral Presentation
1010 1030	SILVER(I) POLYCHALCOGENIDE HALIDES, THE INTERPLAY AND INFLUENCE OF ION MOBILITY ON CONDUCTION, RESISTIVITY-SWITCHING AND THERMOELECTRIC PROPERTIES	Nilges, Tom Dr.	SFB 458 Oral Presentation
1100 1130	RESISTIVE SWITCHING OF METAL OXIDE THIN FILMS REALIZED BY THE ELECTROCHEMICAL BEHAVIOR	Terabe, Kazuya Dr	Keynote
1130 1150	CONDUCTIVITY HYSTERESIS IN THE (100-x)La <sub>0.6</sub> Sr <sub>0.4</sub> CoO <sub>3-x</sub> CeO <sub>2</sub> SYSTEM	Konyshcheva, Elena Dr	Oral Presentation
1150 1210	METHANE CONVERSION OVER FERRITE-BASED MIXED CONDUCTORS: A TEMPERATURE-PROGRAMMED REDUCTION STUDY	Thursfield, Alan Dr.	Oral Presentation
1210 1230	ON THE H <sub>2</sub> /H <sub>2</sub> O/Ni/SZ AND THE CO <sub>2</sub> /CO/Ni/SZ ELECTRODE KINETICS	Mogensen, Mogen Dr.	Oral Presentation

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**M1C - ELECTROLYTES I**Date **06/29/2009** Time **0950 to 1230**Chair **Edith Bucher, University of Leoben,  
LEOBEN, AUSTRIA**Room **Territories**

Times	Title	Speaker	Presentation Type
0950 1010	Na-MODIFIED CUBIC ZIRCONIA	Näfe, H.	Oral Presentation
1010 1030	PREPARATION OF YSZ FILMS BY MAGNETRON SPUTTERING FOR ANODE-SUPPORTED SOFC	Wang, Haiqian Dr.	Oral Presentation
1100 1130	ELECTRICAL PROPERTIES OF BULK AND GRAIN BOUNDARIES OF SCANDIA-STABILIZED ZIRCONIA CO-DOPED WITH YTTRIA AND CERIA	Preis, Wolfgang Prof.	Keynote
1130 1150	METASTABLE PHASE TRANSITIONS AND THE DEGRADATION OF IONIC CONDUCTIVITY IN THE SYSTEM Y2O3-ZrO2	Butz, Benjamin Mr.	Oral Presentation
1150 1210	INFLUENCE OF SUBSTRATE MATERIAL ON THE MICROSTRUCTURE OF YTTRIA-STABILIZED-ZIRCONIA THIN FILMS	Scherrer, Barbara Ms.	Oral Presentation
1210 1230	EIS ANALYSIS OF YSZ-ELECTROLYTE TEMPERATURE DISTRIBUTION IN OPERATION WITH DYNAMIC LOADS	Klotz, Dino Mr.	Oral Presentation

**M1D - DEVICES I**Date **06/29/2009** Time **0950 to 1230**Chair **Masahiro Tatsumisago, Osaka Prefecture  
University, SAKAI, JAPAN**Room **Confederation 5&6**

Times	Title	Speaker	Presentation Type
0950 1010	A MINIATURIZED LOW-TEMPERATURE SOLID OXIDE FUEL CELL BASED ON HIGH-TECH BUILDING BLOCKS	Evans, Anna Ms.	Oral Presentation
1010 1030	ENHANCED POWER DENSITY OF METAL-SUPPORTED SOFC WITH TWO-STEP FIRING PROCESS	Cho, Hyoup Je Mr.	Oral Presentation
1100 1130	POROUS ELECTROLYTE-SUPPORTED TUBULAR MICRO-SOFC DESIGN	Torabi, Ali Mr	Oral Presentation
1130 1150	ACCOMMODATING CELL TO CELL VARIATIONS IN COMMERCIAL LI-ION BATTERY MODELING	Dubarry, Matthieu Dr.	Oral Presentation
1150 1210	CHALLENGES FOR MICROFABRICATION IN SOLID OXIDE FUEL CELL RESEARCH	Bieberle-Hütter, Anja Dr.	Oral Presentation
1210 1230	EXPERIMENTAL PERFORMANCE EVALUATION OF A 5-CELL STACK HIGH TEMPERATURE PEM FUEL CELL PROTOTYPE	Das, Susanta Kumar Dr.	Oral Presentation

**M2A - CATHODES II**Date **06/29/2009** Time **1350 to 1540**Chair **Rotraut Merkle, Max-Planck Institute for  
Solid State Research, STUTTGART,  
GERMANY**Room **Concert Hall**

Times	Title	Speaker	Presentation Type
1350 1420	ON-CHIP SOLID OXIDE FUEL CELL DEVICES INCORPORATING ULTRA-THIN La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> -? CATHODE FILMS	Lai, Bo-Kuai Dr.	Keynote
1420 1440	EFFECT OF OXYGEN PARTIAL PRESSURE ON GRAIN GROWTH IN La <sub>0.6</sub> Sr <sub>0.4</sub> CoO <sub>3</sub> -? FILM ON Ce <sub>0.9</sub> Gd <sub>0.1</sub> O <sub>2</sub> -? SUBSTRATE	Akashi, Takaya Dr.	Oral Presentation
1440 1500	SOLUTION PRECURSOR PLASMA SPRAY DEPOSITION OF SOFC ELECTRODE MATERIALS	Coyle, Thomas Dr.	Oral Presentation
1500 1520	PROCESSING AND ELECTROCHEMICAL CHARACTERIZATION OF INK-JET PRINTED SrTi <sub>1-x</sub> FexO <sub>3-<math>\lambda</math></sub> CATHODES	Jung, WooChul Mr.	Oral Presentation
1520 1540	MICROSTRUCTURES AND ELECTROCHEMICAL BEHAVIOR OF Sm <sub>0.5</sub> Sr <sub>0.5</sub> CoO <sub>3</sub> DEPOSITED BY SUSPENSION PLASMA SPRAYING	Li, Chang-Jiu Dr.	Oral Presentation

**M2B - POLYMERS I**Date **06/29/2009** Time **1350 to 1540**Chair **Nicolaas Stolwijk, University of Muenster,  
MUNSTER, GERMANY**Room **Ontario Room**

Times	Title	Speaker	Presentation Type
1350 1420	PROTON AND LITHIUM ION DIFFUSION IN HYBRID INORGANIC-ORGANIC POLYMERS	Allcock, Harry	Keynote
1420 1440	MECHANISTIC STUDIES OF CATION AND ANION TRANSPORT IN POLYMER ELECTROLYTES	Wiemhöfer, Hans-Dieter Dr.	SFB 458 Oral Presentation
1440 1500	IONIC CONDUCTIVITY OF ELECTROLYTES BASED ON STAR-BRANCHED POLY(ETHYLENE OXIDE) WITH HIGH CONCENTRATION OF LITHIUM SALTS	Marzantowicz, Micha Dr.	Oral Presentation
1500 1520	STUDY OF ION TRANSPORT BEHAVIOR IN HOT PRESSED NANO COMPOSITE POLYMERIC ELECTROLYTE MEMBRANES: (1-x) [75PEO: 25NaNO <sub>3</sub> ]: x SiO <sub>2</sub>	Agrawal, Rakesh C. Dr. Mr.	Oral Presentation
1520 1540	CORRELATION BETWEEN FREE VOLUME AND OXYGEN PERMEATION IN ION-EXCHANGED NAFION MEMBRANES FOR FUEL CELLS	Mohamed, Hamdy Prof.	Oral Presentation

**M2C - PROTONS I**Date **06/29/2009** Time **1350 to 1540**Chair **Yoshitaka Aoki, Hokkaido University,  
SAPPORO, JAPAN**Room **Territories**

Times	Title	Speaker	Presentation Type
1350 1420	NANOPROTONICS IN PLATINUM-CONTAINING PEROVSKITE-TYPE OXIDES	Matsumoto, Hiroshige Mr	Keynote
1420 1440	HIGH TOTAL PROTON CONDUCTIVITY IN LARGE-GRAINED YTTRIUM-DOPED BARIUM ZIRCONATE	Yamazaki, Yoshihiro Dr.	Oral Presentation
1440 1500	ELECTRICAL PROPERTIES OF CHEMICAL DEFECTS IN PROTON CONDUCTOR Ba(Zr <sub>0.81</sub> Yb <sub>0.15</sub> Zn <sub>0.04</sub> )O <sub>3-?</sub> SINTERED AT LOW TEMPERATURES	Park, Jong-Sung Dr	Oral Presentation
1500 1520	PROTON CONDUCTION IN METAL OXIDE NANOPARTICLES DENSIFIED UNDER HIGH PRESSURE	Takamura, Hitoshi Dr.	Oral Presentation
1520 1540	HILLY SULFONATED POLY(ARYLENE SULFONE)S: STABILITY, MICROSTRUCTURE AND PROTON TRANSPORT	Cavalca de Araujo, Carla Dr. Ms.	Oral Presentation

**M2D - IONIC TRANSPORT I**Date **06/29/2009** Time **1350 to 1540**Chair **Hideki Maekawa, Tohoku University,  
SENDAI, JAPAN**Room **Confederation 5&6**

Times	Title	Speaker	Presentation Type
1350 1420	LITHIUM DIFFUSION IN CRYSTALLINE AND AMORPHOUS IONIC CONDUCTORS STUDIED BY SOLID STATE NMR	Heitjans, Paul Prof.	Keynote
1420 1440	EFFECT OF HUMIDIFIED ATMOSPHERE ON OXYGEN TRANSPORT PROPERTIES IN THE IONIC CONDUCTOR La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub>	Liu, Jingjing Miss	Oral Presentation
1440 1500	OXIDE-ION DIFFUSION IN THE Y <sub>0.5+0.25x</sub> Nb <sub>0.25x</sub> Zr <sub>0.5-0.5x</sub> O <sub>1.75</sub> SYSTEM: THE ROLE OF DOPANT CATIONS	Marrocchelli, Dario Mr	Oral Presentation
1500 1520	OXIDE ION TRANSPORT IN La <sub>1-x</sub> Sr <sub>x</sub> Co <sub>1-y</sub> CryO <sub>3-d</sub> (x=0, 0.3; y=0, 0.3)	Zuev, Andrey Dr.	Oral Presentation
1520 1540	INFLUENCE OF Ca <sup>2+</sup> AND Sr <sup>2+</sup> SUBSTITUTION ON THE ELECTRICAL CONDUCTIVITY OF Gd <sub>4</sub> Al <sub>2</sub> O <sub>9</sub> .	Hassan, O.H. Mr.	Oral Presentation

**M3A - ANODES I**Date **06/29/2009** Time **1620 to 1800**Chair **Ting-Lian Wen, Shanghai Institute of Ceramics, SHANGHAI, CHINA**Room **Concert Hall**

Times	Title	Speaker	Presentation Type
1620 1640	HYDROGEN ELECTRO-OXIDATION ON DOPED CERIA THIN FILMS WITH WELL-DEFINED GEOMETRIES	Chueh, William Mr.	Oral Presentation
1640 1700	Ce <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> A POSSIBLE ANODE MATERIAL	Rolle, Aurelie Dr	Oral Presentation
1700 1720	La-DOPED SrTiO <sub>3</sub> AS ANODE MATERIAL FOR IT-SOFCs	Irvine, John Prof.	Oral Presentation
1720 1740	ELECTROCHEMICAL PROPERTY OF (La,Sr)(Cr,Mn)O <sub>3</sub> -(Ce,Gd)O <sub>2</sub> COMPOSITE OXIDE ANODE FOR CH <sub>4</sub> -FUELED SOFC	Lee, Jong-Ho Dr.	Oral Presentation
1740 1800	INFLUENCE OF LATTICE OXYGEN STOICHIOMETRY ON THE MECHANISM OF METHANE OXIDATION IN SOFC ANODES	McIntosh, Steven Dr	Oral Presentation

**M3B - STRONTIUM TITANATES**Date **06/29/2009** Time **1620 to 1800**Chair **Han-Il Yoo, Seoul National University, SEOUL, KOREA**Room **Ontario Room**

Times	Title	Speaker	Presentation Type
1620 1640	PREDICTING SPACE-CHARGE POTENTIALS AT GRAIN BOUNDARIES IN STRONTIUM TITANATE	De Souza, Roger Dr.	Oral Presentation
1640 1700	WATER AS A SOURCE FOR OXYGEN INCORPORATION INTO ACCEPTOR DOPED SrTiO <sub>3</sub> SINGLE CRYSTALS	Argiris, Christos Dr.	Oral Presentation
1700 1720	INTERPLAY OF DEFECT CHEMISTRY AND HETEROGENEOUS CATALYSIS: CO AND CH <sub>4</sub> OXIDATION USING Sr(Fe <sub>x</sub> Ti <sub>1-x</sub> )O <sub>3</sub> -?	Vracar, Milos Dr.	Oral Presentation
1720 1740	NONSTOICHIOMETRY IN Y-SUBSTITUTED SrTiO <sub>3</sub>	Ma, Qianli Dr.	Oral Presentation
1740 1800	NOVEL FEATURES OF WATER INCORPORATION IN OXIDES REVEALED BY IN-SITU LOCAL ABSORPTION SPECTROSCOPY	Lee, Jong-Sook Dr	Oral Presentation

**M3C - SURFACES & INTERFACES I**Date **06/29/2009** Time **1620 to 1800**Chair **Jose Santiso, Research Centre for Nanoscience and Nanotechnology, BARCELONA, SPAIN**Room **Territories**

Times	Title	Speaker	Presentation Type
1620 1640	ELECTROCHEMICALLY INDUCED SPILLOVER AND DIFFUSION ON PT(111): PEEM IMAGING, KINETIC MODELING AND THE NEMCA EFFECT	Bessler, Wolfgang G. Dr.	Oral Presentation
1640 1700	DIP COATING FABRICATION PROCESS FOR TUBULAR SOFCs	Torabi, Alireza Mr.	Oral Presentation
1700 1720	EXPERIMENTAL STUDIES AND FORMAL CONSIDERATIONS ON THE INFLUENCE OF ELASTIC STRAIN IN PHASE BOUNDARIES ON THE INTERFACE IONIC TRANSPORT	Schichtel, N.	Oral Presentation
1720 1740	SURFACE CHARGING OF METAL OXIDE NANOPARTICLES BY OXYGEN CHEMISORPTION	Ankonina, Guy Mr	Oral Presentation
1740 1800	CYCLIC VOLTAMMETRY CHARACTERIZATION OF A La <sub>0.8</sub> Sr <sub>0.2</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-δ</sub> ELECTRODE INTERFACED TO CGO/YSZ	Bebelis, Symeon Prof.	Oral Presentation

**M3D - MIXED GLASS FORMER EFFECT**Date **06/29/2009** Time **1620 to 1800**Chair **Philipp Maass, Fachbereich Physik,  
Universität Osnabrück, GERMANY**Room **Confederation 5&6**

Times	Title	Speaker	Presentation Type
1620 1640	THE MIXED-NETWORK-FORMER EFFECT IN GLASSES: STRUCTURE/PROPERTY CORRELATIONS STUDIED BY SOLID-STATE NMR AND X-RAY PHOTOELECTRON SPECTROSCOPIES	Eckert, H.	SFB 458 Oral Presentation
1640 1700	MIXED GLASS FORMER EFFECTS IN ALKALI OXY- AND THIO-BOROPHOSPHATE GLASSES	Martin, Steve W.	Oral Presentation
1700 1720	OCCURRENCE OF THE MIXED GLASS FORMER EFFECT IN ION CONDUCTING CHALCOGENIDE GLASSES: A STRUCTURAL EXPLANATION	Pradel, Annie	Oral Presentation
1720 1740	3D STRUCTURE OF FAST ION CONDUCTING 0.5Li <sub>2</sub> S+0.5[(1-x)GeS <sub>2</sub> +xGeO <sub>2</sub> ] GLASSES	Petkov, V.	Oral Presentation
1740 1800	MIXED ANION EFFECT AND MIXED FORMER EFFECT IN A VARIETY OF SUPERIONIC GLASSY SYSTEMS AND THEIR APPLICATION TO ALL-SOLID-STATE BATTERIES	Tatsumisago, Masahiro Dr.	Oral Presentation

**BPL - PLENARY LECTURE**Date **06/30/2009** Time **0800 to 0850**

Chair

Room **Concert Hall**

Times	Title	Speaker	Presentation Type
0800 0850	NANOSTRUCTURED MIXED ION/ELECTRON CONDUCTORS BY DESIGN	Nazar, Linda Prof.	Plenary Lecturer

**T1A - NOVEL MATERIALS I**Date **06/30/2009** Time **0850 to 1010**Chair **Stephen Skinner, Imperial College London,  
LONDON, UK**Room **Concert Hall**

Times	Title	Speaker	Presentation Type
0850 0910	DEFECT CHEMISTRY OF THE CAGE COMPOUND Ca <sub>12</sub> A <sub>7</sub> - THE ROUTE FROM A SOLID ELECTROLYTE TO A SEMICONDUCTOR AND ELECTRIDE	Janek, Juergen Prof. Dr.	Oral Presentation
0910 0930	IONIC CONDUCTING BEHAVIOR OF MANGANESE-DOPED MAYENITE	Zhang, Yaoqing Mr.	Oral Presentation
0930 0950	NbTi <sub>0.5</sub> Ni <sub>0.5</sub> O <sub>4</sub> AS ANODE COMPOUND MATERIAL FOR SOFCs	Boulfrad, Samir Dr	Oral Presentation
0950 1010	TOPOTACTIC SYNTHESIS OF THE ROCK SALT STRUCTURE Li <sub>12</sub> Mo <sub>5</sub> O <sub>17</sub> FROM THE RIBBON STRUCTURE Li <sub>4</sub> Mo <sub>5</sub> O <sub>17</sub>	Pralong, Valerie Dr	Oral Presentation

**T1B - POLYMERS II**Date **06/30/2009** Time **0850 to 1010**Chair **Doug MacFarlane, Monash University,  
CLAYTON, AUSTRALIA**Room **Ontario Room**

Times	Title	Speaker	Presentation Type
0850 0910	ELECTROCHEMICAL POLYPYRROLE-POLY(PROPYLENE IMINE) DENDRIMERIC STAR CO-POLYMER	Baleg, Abd Almonam Mr	Oral Presentation
0910 0930	DEVELOPMENT OF AN ALKALINE DMFC MEMBRANE	Holmlund, Peter M.Sc	Oral Presentation
0930 0950	CONDUCTIVITY OF SOLID POLYELECTROLYTE MATERIALS	Cramer-Kellers, Cornelia PD Dr.	SFB 458 Oral Presentation
0950 1010	CONDUCTIVITY OF POLY(ETHYLENE OXIDE)LITHIUM TRIFLATE IN THIN FILM GEOMETRIES	Bishop, Christina Ms.	Oral Presentation

**T1C - PROTONS II**Date **06/30/2009** Time **0850 to 1010**Chair **Hiroshige Matsumoto, INAMORI Frontier Center, Kyushu University, FUKUOKA, JAPAN**Room **Territories**

Times	Title	Speaker	Presentation Type
0850 0910	GADOLINIUM MOLYBDATES: NEW PROTON CONDUCTORS BASED ON FLUORITE LIKE STRUCTURE	Braida, Marc David Mr	Oral Presentation
0910 0930	PROTON CONDUCTING SOLID OXIDE FUEL CELLS WITH THE NOVEL LaNbO <sub>4</sub> AS THE ELECTROLYTE	Grande, Tor Mr	Oral Presentation
0930 0950	NOVEL PROTON CONDUCTIVITY IN HYDRATED NANO-GRAINED ZIRCONIA AND CERIA	Yamaguchi, Shu Prof.	Oral Presentation
0950 1010	HIGH CONDUCTIVITY OF NANOCRYSTALLINE Ba <sub>2</sub> In <sub>2</sub> O <sub>5</sub> IN HYDROGEN CONTAINING ATMOSPHERES AT INTERMEDIATE TEMPERATURES	Jankovic, Jasna Mrs.	Oral Presentation

**T1D - SURFACES & INTERFACES II**Date **06/30/2009** Time **0850 to 1010**Chair **Monika Backhaus-Ricoult, Corning Incorporated, CORNING, USA**Room **Confederation 5&6**

Times	Title	Speaker	Presentation Type
0850 0910	NANO-Au/YSZ INTERFACE – FABRICATION AND SENSING CHARACTERISTICS AIMING FOR SELECTIVE DETECTION OF AUTOMOTIVE EXHAUSTS	Plashnitsa, Vladimir Dr.	Oral Presentation
0910 0930	STUDIES ON INTERFACIAL PROPERTIES OF INTERSTITIAL OXIDE ION-TYPE ELECTROLYTES WITH MIXED CONDUCTING ELECTRODES	Nakao, Takayuki Mr	Oral Presentation
0930 0950	IMPROVING INTERFACE BETWEEN CATHODE AND ELECTROLYTE OF SOFC	Hildenbrand, Nicolas Mr	Oral Presentation
0950 1010	STUDY OF CHARGE TRANSPORT AT THE INTERFACE OF EPITAXIAL YSZ/SrTiO <sub>3</sub> HETEROSTRUCTURES DEPOSITED BY PLD	Santiso, J.	Oral Presentation

**T2A - NOVEL MATERIALS II**Date **06/30/2009** Time **1040 to 1230**Chair **Juergen Janek, Justus-Liebig-University Giessen, GIESSEN, GERMANY**Room **Concert Hall**

Times	Title	Speaker	Presentation Type
1040 1110	REDOX CHEMISTRY OF THE NOVEL FAST OXIDE ION CONDUCTOR CeNbO <sub>4+d</sub> DETERMINED THROUGH AN IN-SITU SPECTROSCOPIC TECHNIQUE	Skinner, Stephen Dr	Keynote
1110 1130	Canceled		Oral Presentation
1130 1150	LITHIUM FAST-ION CONDUCTION PHASE IN LiBH <sub>4</sub> AND ITS LOW TEMPERATURE STABILIZATION	Maekawa, Hideki Prof.	Oral Presentation
1150 1210	CHARACTERIZATION OF SNO <sub>2</sub> NANOBASKET ELECTRODE MATERIALS	Johnson, Paige Ms.	Oral Presentation
1210 1230	STUDY OF THE STRUCTURAL CHANGES UPON REVERSIBLE ELECTROCHEMICAL LITHIUM INSERTION IN COPPER BASED LAYERED OXYSULFIDES	Zeng, Dongli Ms.	Oral Presentation

**T2B - POLYMERS III**Date **06/30/2009** Time **1040 to 1230**Chair **Harry Allcock, The Pennsylvania State University, UNIVERSITY PARK, USA**Room **Ontario Room**

Times	Title	Speaker	Presentation Type
1040 1110	SYSTEMATICS OF ION TRANSPORT IN A SALT-IN-POLYMER ELECTROLYTE: RADIOTRACER DIFFUSION VERSUS CONDUCTIVITY	Stolwijk, Nicolaas Dr.	Keynote and SFB 458
1110 1130	ON THE CONDUCTIVITY AND PROTON TRANSPORT MECHANISM IN FULLY HYDRATED NAFION MEMBRANES	Tsampas, Mihalis Mr.	Oral Presentation
1130 1150	MOLECULAR DYNAMICS OF BF <sub>4</sub> TETRAHEDRON AND INCREASE OF PROTON CONDUCTIVITY AT PHASE TRANSITIONS IN PYRIDAZINE TETRAFLUBORATE (C <sub>4</sub> H <sub>4</sub> N <sub>2</sub> )HBF <sub>4</sub>	Yoshida, Yukihiko Dr.	Oral Presentation
1150 1210	PROTON CONDUCTING PLASTIC CRYSTAL ELECTROLYTES	MacFarlane, Doug Dr	Oral Presentation
1210 1230	HIGH-ION CONDUCTING SOLIDIFIED HYBRID ELECTROLYTES BY SELF-ASSEMBLY OF IONIC LIQUIDS AND TiO <sub>2</sub>	Honma, Itaru Dr	Oral Presentation

**T2C - IONIC TRANSPORT II**Date **06/30/2009** Time **1040 to 1230**Chair **Manfred Martin, RWTH Aachen University, AACHEN, GERMANY**Room **Territories**

Times	Title	Speaker	Presentation Type
1040 1110	A TOTAL SCATTERING AND SIMULATION APPROACH TO MODELLING DEFECT STRUCTURE IN DOPED BISMUTH OXIDES	Abrahams, I.	Keynote
1110 1130	MODULATED STRUCTURE AND IONIC CONDUCTIVITY OF THE -Bi <sub>2</sub> O <sub>3</sub> -RELATED PHASE Bi <sub>38</sub> Mo <sub>7</sub> O <sub>78</sub>	Ling, Chris Dr	Oral Presentation
1130 1150	ATOMIC-SCALE INSIGHT INTO DEFECTS AND ION TRANSPORT IN INFINITE-LAYERED SrFeO <sub>2</sub>	Weaver, Paul	Oral Presentation
1150 1210	NEUTRON SCATTERING INVESTIGATION AND PAIR DISTRIBUTION FUNCTION ANALYSIS OF SOLID STATE IONICS MATERIALS	Malavasi, Lorenzo Dr	Oral Presentation
1210 1230	COOPERATIVE MECHANISMS OF FAST-ION CONDUCTION IN OXIDES WITH TETRAHEDRAL UNITS: INSIGHT INTO LaBaGaO <sub>4</sub> AND La <sub>9.33</sub> Si <sub>6</sub> O <sub>26</sub> APATITE	Islam, M.S.	Oral Presentation

**T2D - HUGGINS I**Date **06/30/2009** Time **1040 to 1230**Chair **Anthony Petric, McMaster University, HAMILTON, CANADA**Room **Confederation 5&6**

Times	Title	Speaker	Presentation Type
1040 1110	FROM BOB'S TOOLBOX: SOLID STATE IONIC PROBES AND METHODS	Gür, Turgut Dr.	Keynote
1110 1130	THERMODYNAMICS, KINETICS, AND ROBERT A. HUGGINS	Liaw, Bor Yann Dr.	Huggins Symposium
1130 1150	DESIGNING NANOWIRE MATERIALS FOR ENERGY STORAGE	Cui, Yi Dr.	Huggins Symposium
1150 1210	RESEARCH ACTIVITIES ON MATERIALS AND FABRICATION OF SOFCs	Peng, Ranran Mrs. for Meng, G. Dr.	Huggins Symposium
1210 1230	INTERCALATION COMPOUNDS, BATTERIES, AND PATENTS: WHAT HAPPENS AFTER GRAD SCHOOL	Ebert, L.B. Dr.	Huggins Symposium

**T3A - CATHODES III**Date **06/30/2009** Time **1350 to 1540**

Chair

Room **Concert Hall**

Times	Title	Speaker	Presentation Type
1350 1420	DEFECT CHEMISTRY OF LiFePO <sub>4</sub>	Amin, Ruhul Dr.	Keynote
1420 1440	LITHIUM-ION BATTERY CATHODES USING IRON SILICATES	Kam, Kinson Dr	Oral Presentation
1440 1500	LI-ION TRANSPORT MECHANISMS IN ORTHOSILICATE-TYPE CATHODE MATERIALS: A DFT STUDY	Liivat, Anti Dr.	Oral Presentation
1500 1520	STRUCTURE, ELECTROCHEMISTRY AND LI DIFFUSION IN OLIVINE STRUCTURES DOPED WITH Cu, Mg, AND Mn	Miller, Joel Mr	Oral Presentation
1520 1540	PHASE CONTENT, DIFFUSIVITY, AND RATE CAPABILITY IN THE LiMn <sub>0.5</sub> Fe <sub>0.5</sub> PO <sub>4</sub> CATHODE SYSTEM	Hashambhoy, Ayesha Ms.	Oral Presentation

**T3B - MEASUREMENT TECHNIQUES I**Date **06/30/2009** Time **1350 to 1540**Chair **Hellmut Eckert, University of Münster,  
MÜNSTER, GERMANY**Room **Ontario Room**

Times	Title	Speaker	Presentation Type
1350 1420	IN SITU OBSERVATION OF ELECTRODE REACTIONS PROBED BY MICROSPECTROSCOPY	Luerssen, Bjoern Dr.	Keynote
1420 1440	NANOSCOPIC CHARACTERISATION OF ION TRANSPORT IN SOLID ELECTROLYTES BY TIME-DOMAIN ELECTROSTATIC FORCE SPECTROSCOPY (TD-EFS)	Schirmeisen, Andre Dr.	SFB 458 Oral Presentation
1440 1500	ACOUSTIC EMISSION MEASUREMENT OF GAPLESS TYPE ATOMIC SWITCH USING Cu <sub>2</sub> S ION/HOLE MIXED CONDUCTOR	Tsuchiya, Takashi Dr.	Oral Presentation
1500 1520	SYMMETRICAL ANODE TEST OF SOLID OXIDE FUEL CELL BY ELECTROCHEMICAL IMPEDANCE SPECTRUM	Wen, Ting-Lian Mr.	Oral Presentation
1520 1540	A NOVEL APPROACH TO STUDY THE KINETICS OF SURFACE OXYGEN EXCHANGE BETWEEN GAS PHASE AND OXIDE-ION CONDUCTORS	Bouwmeester, Henny J.M. Dr	Oral Presentation

**T3C - IONIC TRANSPORT III**Date **06/30/2009** Time **1350 to 1540**Chair **Andreas Heuer, University Muenster, Phys.  
Chem., MUEENSTER, GERMANY**Room **Territories**

Times	Title	Speaker	Presentation Type
1350 1420	OXYGEN TRANSPORT PROCESSES IN FLUORITE TYPE OXYGEN ION CONDUCTORS	Martin, Manfred Dr	Keynote
1420 1440	MECHANISM OF POLYANION TRANSPORT IN OXIDES WITH THE SCANDIUM TUNGSTATE STRUCTURE	Zhou, Yongkai Mr.	Oral Presentation
1440 1500	Co AND Pr DIFFUSION IN La <sub>2</sub> NiO <sub>4</sub> + $\delta$ ; STUDIED BY SIMS	Li, Zuoan	Oral Presentation
1500 1520	OXYGEN ION DIFFUSION IN Bi <sub>2</sub> O <sub>3</sub> - BASED MATERIALS	Kotsantonis, Sotirios Mr	Oral Presentation
1520 1540	MODELS FOR THE MIXED GLASS FORMER EFFECT IN ION CONDUCTING GLASSES	Maass, P.	Oral Presentation

**T3D - HUGGINS II**Date **06/30/2009** Time **1350 to 1540**Chair **Turgut Gur, Stanford University,  
STANFORD, USA**Room **Confederation 5&6**

Times	Title	Speaker	Presentation Type
1350 1420	WATER IN LITHIUM BATTERIES - FRIEND OR FOE?	Huggins, R.A. Dr.	Keynote
1420 1440	THE EFFECTS OF OVERPOTENTIAL, PARTICLE SIZE AND MISFIT STRAIN ON THE KINETICS OF PHASE TRANSITION IN NANOSCALE OLIVINES: THE CONDITIONS FOR THE APPEARANCE OF AN AMORPHOUS PHASE	Tang, Ming Dr.	Huggins Symposium
1440 1500	REMOTE AREA POWER SUPPLY UTILIZING A VANADIUM REDOX FLOW BATTERY	Schreiber, Martha	Huggins Symposium
1500 1520	DEVELOPMENT OF PROTON AND MIXED PROTON-ELECTRONIC CONDUCTORS FOR FUEL CELLS AND GAS SENSORS	Thangadurai, V.	Huggins Symposium
1520 1540	SYNTHESIS AND CHARACTERIZATION OF MESOPOROUS ANATASE AND RUTILE TiO <sub>2</sub>	Wohlfahrt-Mehrens, Margret Dr.	Huggins Symposium

**T4A - CATHODES IV**Date **06/30/2009** Time **1610 to 1800**Chair **John Irvine, St. Andrews University, ST  
ANDREWS, UK**Room **Concert Hall**

Times	Title	Speaker	Presentation Type
1610 1630	ELECTRODE PERFORMANCE OF LANTHANUM NICKELATE WITH INTERMEDIATE TEMPERATURE ELECTROLYTES	Sayers, Ruth Miss	Oral Presentation
1630 1650	REACTION MECHANISM OF COPPER-MANGANESE SPINEL AS A SOLID OXIDE FUEL CELL CATHODE	Zhang, Qi Ms.	Oral Presentation
1650 1710	COBALTITES WITH VARIABLE DIMENSIONALITY AS CATHODE MATERIALS FOR SOFC'S	Preux, Nicolas Mr	Oral Presentation
1710 1730	Effect of high pressure oxygen on the performance of 8YSZ/La <sub>0.8</sub> Sr <sub>0.2</sub> O <sub>0.95</sub> MnO <sub>3-δ</sub> ; symmetrical cells	Gamble, Stephen Mr.	Oral Presentation
1730 1750	CHARACTERIZATION OF YSr <sub>2</sub> Fe <sub>3</sub> O <sub>8</sub> AS ELECTRODE MATERIALS FOR SOFC	Azad, Abul Dr.	Oral Presentation

**T4B - MEASUREMENT TECHNIQUES II**Date **06/30/2009** Time **1610 to 1800**Chair **Tatsumi Ishihara, Kyushu University,  
FUKUOKA, JAPAN**Room **Ontario Room**

Times	Title	Speaker	Presentation Type
1610 1630	ATOMIC-RESOLUTION STRUCTURAL ANALYSIS OF La <sub>2/3-x</sub> Li <sub>3x</sub> TiO <sub>3</sub> BY TRANSMISSION ELECTRON MICROSCOPY	Tsurui, Takao Dr.	Oral Presentation
1630 1650	PROBING CATION KINETICS IN COMPLEX OXIDES BY TEMPERATURE-JUMP OPTICAL RELAXATION SPECTROSCOPY	Shi, Jianmin Dr.	Oral Presentation
1650 1710	AN AFM STUDY OF PEROVSKITE-YSZ INTERACTIONS	Lee, Shiwoo Dr.	Oral Presentation
1710 1730	DEPTH-RESOLVED in-situ XAFS MEASUREMENTS OF Nd <sub>2</sub> NiO <sub>4</sub> <sup>+</sup> EPITAXIAL THIN FILMS	Amezawa, Koji Dr.	Oral Presentation
1730 1750	VOLTAGE-ASSISTED 180 TRACER INCORPORATION AS A TOOL FOR OBTAINING SHALLOW DIFFUSION PROFILES: BASIC CONSIDERATIONS AND APPLICATION TO YSZ SINGLE CRYSTALS AND THIN FILMS	Fleig, Juergen Dr.	Oral Presentation

**T4C - DEVICES II**Date **06/30/2009** Time **1610 to 1730**Chair **Diana Golodnitsky, Tel Aviv University, TEL AVIV, ISRAEL** Room **Territories**

Times	Title	Speaker	Presentation Type
1610 1630	ULTRAHIGH ENERGY DENSITY MICROBATTERIES	Lai, Wei Dr.	Oral Presentation
1630 1650	SELECTIVE DETECTION OF ACETONE AND GASOLINE BY TEMPERATURE MODULATION IN ZINC OXIDE NANOSHEETS SENSORS	Fan, Huiqing Dr.	Oral Presentation
1650 1710	EFFECT OF CATHODE GAS HUMIDIFICATION ON PERFORMANCE AND DURABILITY OF SOLID OXIDE FUEL CELLS	Nielsen, Jimmi Mr	Oral Presentation
1710 1730	AN INTERMEDIATE TEMPERATURE DIRECT METHANOL FUEL CELL WITH STABLE PERFORMANCE	Lan, Rong Dr	Oral Presentation
1730 1750	VIABILITY OF COAL CONVERSION IN A BOUDOUARD GASIFIER-SOFC COUPLE	Gur, Turgut M. Dr.	Oral Presentation

**T4D - HUGGINS III**Date **06/30/2009** Time **1610 to 1800**Chair **Venkataraman Thangadurai, University of Calgary, CALGARY, CANADA** Room **Confederation 5&6**

Times	Title	Speaker	Presentation Type
1610 1630	FAST KINETICS OF LiCoO <sub>2</sub> in LiNO <sub>3</sub> ELECTROLYTE FOR LITHIUM-ION WATER BATTERY	Ruffo, Riccardo Dr.	Huggins Symposium
1630 1650	THE IMPEDANCE OF THIN DENSE OXIDE CATHODES	Boukamp, Bernard Dr.	Huggins Symposium
1650 1710	INVESTIGATION OF THE SPINEL PHASE IN THE CU-MN-O SYSTEM	Petric, Anthony Dr.	Huggins Symposium
1710 1730	NEW DOUBLE PEROVSKITE-TYPE STRUCTURE FAST PROTON CONDUCTORS FOR INTERMEDIATE-TEMPERATURE FUEL CELLS	Bhella, Surinderjit Singh	Huggins Symposium
1730 1750	RESOLVING THE EFFECTS OF APPLIED OVERPOTENTIAL AND PARTICLE SIZE ON PHASE TRANSFORMATIONS IN OLIVINES USING IN-SITU SYNCHROTRON X-RAY DIFFRACTION	Kao, Yu-Hua	Huggins Symposium

**CPL - PLENARY LECTURE**Date **07/01/2009** Time **0830 to 0920**Chair **Klaus Funke, University of Muenster, MUEENSTER, GERMANY** Room **Concert Hall**

Times	Title	Speaker	Presentation Type
0830 0920	DESIGN OF ION CONDUCTIVE AND LOW TG POLYMERS USING IONIC LIQUIDS	Ohno, Hiroyuki Dr. Prof	Plenary Lecturer

**W1A - COMPOSITES**Date **07/01/2009** Time **0920 to 1220**Chair **Alan Thursfield, Newcastle University, NEWCASTLE-UPON-TYNE, UK** Room **Concert Hall**

Times	Title	Speaker	Presentation Type
0920 0940	DSC, XRD AND SEM STUDIES ON AgI : -ALUMINA COMPOSITE SILVER ION CONDUCTORS SYNTHESIZED VIA A HIGH-PRESSURE ROUTE	Wasiucionek, Marek Dr.	Oral Presentation
0940 1000	ELECTROCHEMICAL HYDROGEN PRODUCTION WITH A CELL EMPLOYING CsH <sub>2</sub> PO <sub>4</sub> /SiP <sub>2</sub> O <sub>7</sub> -BASED COMPOSITE AT INTERMEDIATE TEMPERATURES	Muroyama, Hiroki Dr	Oral Presentation
1000 1020	OXYGEN SURFACE EXCHANGE AND BULK DIFFUSION FOR MIXED IONIC-ELECTRONIC CONDUCTING COMPOSITE: DENSE CERAMICS VS. POWDER	Sadovskaya, E.	Oral Presentation
1050 1120	HYDROGEN ABSORPTION AND EMISSION CHARACTERISTICS OF METAL-OXIDE BI-LAYER COMPOSITE MATERIALS MEASURED BY ION BEAM ANALYSIS	Morita, K.	Keynote
1120 1140	STABILITY, OXYGEN PERMEABILITY AND CHEMICAL EXPANSION OF Sr(Fe,Al)O <sub>3</sub> -delta AND Sr(Co,Fe)O <sub>3</sub> -delta - BASED MEMBRANES	Yaremchenko, Aleksey Dr.	Oral Presentation
1140 1200	MODIFIED ELECTRODE MATERIALS FOR 3D-MICROBATTERIES	Golodnitsky, Diana Prof.	Oral Presentation
1200 1220	STRUCTURE ANALYSIS OF COBALT OXIDE HYDRATES BASED ON COMPOSITE CRYSTAL MODELS	Takada, Kazunori Dr.	Oral Presentation

**W1B - PROTONS III**

Date 07/01/2009 Time 0920 to 1220

Chair Constantinos Vayenas, University of Patras, Room Ontario Room  
PATRAS, GREECE

Times	Title	Speaker	Presentation Type	
0920	0940	PROTON MIGRATION PROPERTIES IN GRAIN INTERIOR OF RARE EARTH DOPED BaZrO <sub>3</sub> PROTON CONDUCTORS	Iguchi, Fumitada Dr.	Oral Presentation
1000	1020	EFFECT OF ISOVALENT SUBSTITUTION ON PROTON CONDUCTIVITY OF MH(PO <sub>3</sub> H) (M = K <sup>+</sup> , Cs <sup>+</sup> )	Zhou, Weihua Mr.	Oral Presentation
1050	1120	LOW-TEMPERATURE PROTON CONDUCTION IN NANOCRYSTALLINE SOLID ELECTROLYTES	Kim, Sangtae Dr.	Keynote
1120	1140	COST-EFFECTIVE SOLID-STATE REACTION SINTERING METHOD FOR PROTON CONDUCTING YITTRIUM-DOPED BARIUM ZIRCONATE CERAMICS	Sanders, Michael Mr.	Oral Presentation
1140	1200	HYDRATION ENTHALPIES OF PROTON CONDUCTORS BY TG-DSC	Haugsrud, Reidar Dr.	Oral Presentation
1200	1220	CONTROL OF MIXED PROTON AND ELECTRON HOLE CONDUCTIVITY BY MIXING RARE-EARTH ORTHO-BORATES	Unemoto, Atsushi Dr.	Oral Presentation

**W1C - ELECTROLYTES II**

Date 07/01/2009 Time 0920 to 1220

Chair Rose-Noelle Vannier, Unité de Catalyse et de Chimie du Solide (UCCS), VILLENEUVE D'ASCQ, FRANCE Room Territories

Times	Title	Speaker	Presentation Type	
0920	0940	SOLID SOLUTIONS ON THE BASE OF BISMUTH VANADATE: PREPARATION, STRUCTURE, PHASE TRANSITIONS, DIELECTRIC AND TRANSPORT PROPERTIES	Politova, Ekaterina Dr.	Oral Presentation
0940	1000	TOTAL SCATTERING STUDY OF LOCAL STRUCTURE IN -Bi <sub>2</sub> O <sub>3</sub>	Norberg, Stefan Dr.	Oral Presentation
1000	1020	FABRICATION OF LiCoO <sub>2</sub> THIN FILMS BY PULSED LASER DEPOSITION	Ohnishi, Tsuyoshi Dr.	Oral Presentation
1050	1120	LOCAL LITHIUM COORDINATION AND MOBILITY IN NOVEL SOLID ELECTROLYTES	van Wüllen, Leo Dr.	Keynote and SFB 458
1140	1200	EFFECT OF COMPRESSIVE STRESS ON CERAMIC CONDUCTORS	Izumi, Toru Mr.	Oral Presentation
1200	1220	THE EFFECT OF SiO <sub>2</sub> IMPURITY ON THE GRAIN-BOUNDARY CONDUCTION OF GDC AND LSGM	Cho, Yoon Ho Mr.	Oral Presentation

**W1D - DOKIYA**

Date 07/01/2009 Time 0920 to 1220

Chair Tsutomu Minami, Technology Reserach Institute of Osaka Prefecture, IZUMI, JAPAN Room Confederation 5&amp;6

Times	Title	Speaker	Presentation Type	
0920	0940	MODEL PREDICTIONS OF ELECTRODE MICROSTRUCTURE EFFECTS ON PERFORMANCE OF HOLLOW FIBER SOFCs	Doraswami, Uttam Mr.	Oral Presentation
0940	1000	HIGHCONDUCTING OXIDE CERAMICS BIMEVOX: SYNTHESIS, STRUCTURE, PROPERTIES	Morozova, Maria Ms.	Oral Presentation
1120	1140	ION TRANSPORT AND WATER INCORPORATION IN SILICATE/GERMANATE APATITES AS POTENTIAL SOFC MATERIALS	Panchmatia, Pooja Dr.	Oral Presentation
1140	1200	LOW TEMPERATURE SOLID OXIDE FUEL CELL ELECTRODES FABRICATED BY THERMALLY-INDUCED AGGLOMERATION OF PLATINUM THIN FILMS	Ryll, Thomas Mr.	Oral Presentation
1200	1220	VERY FAST OXYGEN REDUCTION KINETICS OF OPTIMISED (La,Sr)CoO <sub>3-?</sub> THIN FILM ELECTRODES	Januschewsky, Judith Dipl.-Ing. Ms.	Oral Presentation

**SPEAKERS PROGRAM**

17th Conference on Solid State Ionics

Printed on Thu 25 June 09 at 22:32:41

**DPL - PLENARY LECTURE**

Date 07/02/2009 Time 0800 to 0850

Chair Doreen Edwards, Alfred University,  
ALFRED, USA

Room Concert Hall

Times	Title	Speaker	Presentation Type
0800 0850	ELECTROCATALYSIS AND ELECTROCHEMICAL PROMOTION WITH OXYGEN ION AND PROTON CONDUCTORS	Vayenas, Constantinos G. Dr.	Plenary Lecturer

**R1A - LANTHANUM GALLATES**

Date 07/02/2009 Time 0850 to 1010

Chair Clare Grey, Stony Brook University, STONY  
BROOK, USA

Room Concert Hall

Times	Title	Speaker	Presentation Type
0850 0910	INTERMEDIATE TEMPERATURE STEAM ELECTROLYSIS USING LaGaO <sub>3</sub> -BASED ELECTROLYTE	Ishihara, Tatsumi Dr	Oral Presentation
0910 0930	SOLID STATE NMR STUDIES OF DOPED LANTHANUM GALLATE ANIONIC CONDUCTORS: ION MOBILITY AND TRAPPED DEFECTS	Blanc, Frédéric Dr	Oral Presentation
0930 0950	MECHANOSYNTHESIS AND IONIC CONDUCTIVITY OF ALUMINIUM-SUBSTITUTED LANTHANUM GALLATE	Figueiredo, Filipe Dr.	Oral Presentation
0950 1010	THE EFFECT OF ANODE SINTERING TEMPERATURE ON THE PERFORMANCE OF LANTHANUM-GALLATE THICK-FILM SUPPORTED SOFC	Choi, Gyeong Man Dr.	Oral Presentation

**R1B - OXYGEN PERMEABILITY I**

Date 07/02/2009 Time 0850 to 1010

Chair Steve Martin, Iowa State University, AMES,  
USA

Room Ontario Room

Times	Title	Speaker	Presentation Type
0850 0910	KINETIC DEMIXING OF ASYMMETRIC La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3-<math>\delta</math></sub> (x = 0.3 and 0.5) OXYGEN PERMEABLE MEMBRANES	Grande, Tor Dr.	Oral Presentation
0910 0930	OXYGEN PERMEATION AND THERMO-CHEMICAL STABILITY INVESTIGATION OF PEROVSKITE-TYPE MEMBRANES FOR OXYFUEL PROCESSES	Markus, Torsten Mr	Oral Presentation
0930 0950	OXYGEN STEADY STATE PERMEATION THROUGH La <sub>1.9</sub> Sr <sub>0.1</sub> NiO <sub>4+d</sub>	Li, Zuoan Dr.	Oral Presentation
0950 1010	OXYGEN EXCHANGE KINETICS ON (La,Sr)FeO <sub>3</sub> THIN FILMS	Vang Hendriksen, Peter Dr.	Oral Presentation

**R1C - ANODES II**

Date 07/02/2009 Time 0850 to 1010

Chair Werner Sitte, University of Leoben,  
LEOBEN, AUSTRIA

Room Territories

Times	Title	Speaker	Presentation Type
0850 0910	NANOSTRUCTURED TRANSITION METAL Pnictide AS NEGATIVE ELECTRODE FOR LITHIUM-ION BATTERIES	Monconduit, Laure Mrs	Oral Presentation
0910 0930	IMPROVEMENT OF ELECTROCHEMICAL PERFORMANCE OF ALL-SOLID-STATE LITHIUM SECONDARY BATTERIES BY SURFACE MODIFICATION OF LiMn <sub>2</sub> O <sub>4</sub> POSITIVE ELECTRODE	Tatsumisago, Masahiro Dr.	Oral Presentation
0930 0950	LITHIUM INSERTION/EXTRACTION BEHAVIOR OF NANO-SIZED TiO <sub>2</sub> (B)	Fukutsuka, Tomokazu Dr.	Oral Presentation
0950 1010	NANOCRYSTALLINE LiCrTiO <sub>4</sub> AS ANODE FOR ASYMMETRIC SUPERCAPACITOR	Chitturi, Venkateswara Rao Dr.	Oral Presentation

**SPEAKERS PROGRAM**

17th Conference on Solid State Ionics

Printed on Thu 25 June 09 at 22:32:41

**R1D - MODELLING & SIMULATION I**

Date 07/02/2009 Time 0850 to 1010

Chair

Room Confederation 5&amp;6

Times	Title	Speaker	Presentation Type
0850 0910	SUPERIONIC CONDUCTION IN SUBSTOICHIOMETRIC LiAl ALLOY: AN ab-initio STUDY	Cucinotta, Clotilde Dr.	Oral Presentation
0910 0930	3D-MICROBATTERY DESIGN LIMITATIONS FROM MD/FEA SIMULATION	Thomas, Josh Prof.	Oral Presentation
0930 0950	MEAN-FIELD APPROACHES FOR COULOMB INTERACTIONS AND BOUND PAIRS IN SILVER CHLORIDE	Mebane, David Dr.	Oral Presentation
0950 1010	Ab initio STUDY OF LaBO <sub>3</sub> (B=Mn, Fe, Co, and Ni) SURFACE OXYGEN REDUCTION REACTIONS FOR SOLID OXIDE FUEL CELLS	Lee, Yueh-Lin Mr.	Oral Presentation

**R2A - IONIC TRANSPORT IV**

Date 07/02/2009 Time 1040 to 1230

Chair Paul Heitjans, Leibniz University Hannover, Room Concert Hall  
HANNOVER, GERMANY

Times	Title	Speaker	Presentation Type
1040 1110	HIGH TEMPERATURE CONDUCTIVITY of Ln <sub>2</sub> M <sub>2</sub> O <sub>7</sub> (Ln= Sm-Lu; M= Ti, Zr, Hf) PYROCHLORES FAMILY	Shlyakhtina, Anna Dr.	Keynote
1110 1130	OXYGEN DIFFUSION IN SR <sub>3</sub> YM <sub>4</sub> O <sub>10.5</sub> (314-PHASES), M=CO, CO/FE, CO/GA	Rupasov, Dmitry Mr.	Oral Presentation
1130 1150	EFFECT OF MICROSTRUCTURE ON THE CONDUCTIVITY OF A NASICON-TYPE LITHIUM ION CONDUCTOR	Johnson, Paul Mr.	Oral Presentation
1150 1210	LITHIUM ION CONDUCTION IN LITHIUM BOROHYDRIDES UNDER HIGH PRESSURE	Kuronuma, Yota Mr.	Oral Presentation
1210 1230	TRIVALENT RARE EARTH ION CONDUCTION IN NASICON-TYPE SOLIDS	Tamura, Shinji Dr.	Oral Presentation

**R2B - OXYGEN PERMEABILITY II**

Date 07/02/2009 Time 1040 to 1230

Chair Gang He, Faculty of Materials Science and Chemical Engineering, China University of Geosci, WUHAN, CHINA Room Ontario Room

Times	Title	Speaker	Presentation Type
1040 1110	MICROSTRAIN AND OXYGEN ION CONDUCTIVITY OF THIN FILMS	Rupp, Jennifer L.M. Dr.	Keynote
1110 1130	OXYGEN PERMEABILITY OF INTERGROWTH-BASED PEROVSKITE LaxSr <sub>3-x</sub> FeCoO <sub>7-d</sub>	Kagomiya, Isao Dr.	Oral Presentation
1130 1150	PROCESSING AND STABILITY OF ASYMMETRIC Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> - MEMBRANES FOR OXYGEN SEPARATION	Kovalevsky, A. Dr.	Oral Presentation
1150 1210	PREPARATION AND CHARACTERISATION OF PEROVSKITIC ASYMMETRIC MEMBRANE STRUCTURES	Betz, M.	Oral Presentation
1210 1230	LONG-TERM STABILITY OF THE OXYGEN EXCHANGE PROPERTIES OF (La,Sr) <sub>1-z</sub> (Co,Fe) <sub>3-d</sub> IN DRY AND WET ATMOSPHERES	Bucher, Edith Dr.	Oral Presentation

**R2C - PROTONS IV**Date **07/02/2009** Time **1040 to 1230**Chair **Sangtae Kim, University of California, Davis, Room Territories  
DAVIS, USA**

Times	Title	Speaker	Presentation Type
1040 1100	POWER-LAW SCALING OF PROTON CONDUCTIVITY IN AMORPHOUS SILICATE THIN FILMS	Aoki, Yoshitaka Dr	Keynote
1110 1130	A STABLE NH <sub>4</sub> PO <sub>3</sub> -BASED PROTON CONDUCTOR FOR INTERMEDIATE TEMPERATURE FUEL CELLS	Tao, Shanwen Dr	Oral Presentation
1130 1150	NMR STUDY OF VACANCY TRAPPING IN PEROVSKITE MATERIALS FOR USE IN INTERMEDIATE TEMPERATURE SOLID OXIDE FUEL CELLS	Buannic, Lucienne Ms	Oral Presentation
1150 1210	<sup>1</sup> H NMR STUDY OF PROTON DYNAMICS IN beta-Cs <sub>3</sub> (HSO <sub>4</sub> ) <sub>2</sub> [H <sub>2</sub> -x(SxP <sub>1-x</sub> )O <sub>4</sub> ]	Omi, Hironori Dr.	Oral Presentation
1210 1230	PROTON DIFFUSION IN PROTON CONDUCTING PEROVSKITES INVESTIGATED WITH NEUTRON SPIN-ECHO	Karlsson, Maths Dr.	Oral Presentation

**R2D - MODELLING & SIMULATION II**Date **07/02/2009** Time **1040 to 1230**Chair **Stefan Adams, National University of  
Singapore, SINGAPORE, SINGAPORE** Room **Confederation 5&6**

Times	Title	Speaker	Presentation Type
1040 1110	UNDERSTANDING THE NATURE OF ION CONDUCTIVITY IN INORGANIC SYSTEMS VIA COMPUTER SIMULATIONS	Heuer, Andreas Dr.	Keynote and SFB 458
1110 1130	PERCOLATION OF OXIDE NETWORKS IN COMPOSITE LITHIUM BASED ELECTROLYTES	Jarosik, Anna Ms.	Oral Presentation
1130 1150	PERCOLATION THEORY TO PREDICT EFFECTIVE PROPERTIES OF SOLID OXIDE FUEL CELL COMPOSITE ELECTRODES	Lin, Zijong Dr.	Oral Presentation
1150 1210	LaNi <sub>1-x</sub> Fe <sub>x</sub> O <sub>3</sub> AS AN SOFC CATHODE: THERMODYNAMIC MODELING OF ITS DEFECT CHEMISTRY	Bobba, Rambabu Professor	Oral Presentation
1210 1230	QUANTITATIVE PHYSICO-CHEMICAL MODELING OF SURFACE AND BULK TRANSPORT IN Ni/YSZ PATTERNED ANODES	Vogler, Marcel	Oral Presentation

**R3A - CATHODES V**Date **07/02/2009** Time **1350 to 1540**Chair **Josh Thomas, Uppsala University,  
UPPSALA, SWEDEN** Room **Concert Hall**

Times	Title	Speaker	Presentation Type
1420 1440	CATHODE PROPERTY OF -Fe <sub>2</sub> O <sub>3</sub> /CARBON COMPOSITE FABRICATED BY AQUEOUS SOLUTION METHOD FOR LITHIUM-ION BATTERY	Hibino, Mitsuhiro Dr.	Oral Presentation
1440 1500	LOW COST, HIGH CAPACITY Li-ION CATHODE MATERIAL	Kendrick, Emma Dr	Oral Presentation
1500 1520	LAYERED Na(Ni <sub>0.5</sub> Mn <sub>0.5</sub> )O <sub>2</sub> and NaCrO <sub>2</sub> AS SODIUM INTERCALATION HOST	Komaba, Shinichi Dr	Oral Presentation
1520 1540	ORGANIC ELECTRODES FOR SUSTAINABLE Li-ION BATTERIES	Chen, Haiyan Ms.	Oral Presentation

**R3B - NON-CRYSTALLINE MATERIALS I**Date **07/02/2009** Time **1350 to 1540**Chair **John Kilner, Imperial College, LONDON, UK** Room **Ontario Room**

Times	Title	Speaker	Presentation Type
1350 1420	NEARLY CONSTANT LOSS EFFECTS IN BORATE GLASSES - NEW INSIGHTS	Banhatti, R.D. Dr.	Keynote and SFB 458
1420 1440	ELECTRICAL PROPERTIES VS. MICROSTRUCTURE OF NANOCRYSTALLIZED V2O5-P2O5 GLASSES - AN EXTENDED TEMPERATURE RANGE STUDY	Garbarczyk, Jerzy E. Prof.	Oral Presentation
1440 1500	ION CONDUCTIVITY OF SPUTTER-DEPOSITED BORATE GLASS THIN FILMS	Schmitz, Guido Prof. Dr.	SFB 458 Oral Presentation
1500 1520	OXYGEN DIFFUSION IN AMORPHOUS SILICA AND MIXED CATION SILICATE GLASSES	Sunder, Kirsten Mrs.	SFB 458 Oral Presentation
1520 1540	STRUCTURE/PROPERTY CORRELATIONS IN ION-CONDUCTING MIXED GLASS FORMER SYSTEMS	Christensen, Randilynn Ms.	Oral Presentation

**R3C - POLYMERS IV**Date **07/02/2009** Time **1350 to 1540**Chair **Hans-Dieter Wiemhöfer, University of Münster, MÜNSTER, GERMANY** Room **Territories**

Times	Title	Speaker	Presentation Type
1350 1420	R&D OF SOLVENT-FREE LITHIUM-ION POLYMER BATTERY FOR STATIONARY APPLICATIONS	Kobayashi, Yo Dr.	Keynote
1420 1440	POLYBENZIMIDAZOLE MEMBRANES AND ELECTRODES FOR HT-PEMFCs	Parrondo, Javier Dr.	Oral Presentation
1440 1500	IONIC TRANSPORT STUDY OF POLYMETHYLMETHACRYLATE BASED SALICYLIC ACID DOPED PROTON CONDUCTING GEL POLYMER ELECTROLYTES	Mohamad Isa, Mohd Ikmar Nizam Dr.	Oral Presentation
1500 1520	ENHANCEMENT OF PROTON CONDUCTIVITY BY OLIGOMERIC AMIDE THIN FILMS	Nagao, Yuki Dr.	Oral Presentation
1520 1540	COMPOSITE HYBRID POLYMER ELECTROLYTES	Sgreccia, Emanuela Ms.	Oral Presentation

**R3D - SURFACES & INTERFACES III**Date **07/02/2009** Time **1350 to 1540**Chair **Mogens Mogensen, Risø National Laboratory for Sustainable Energy, ROSKILDE, DENMARK** Room **Confederation 5&6**

Times	Title	Speaker	Presentation Type
1350 1420	IN SITU STUDY OF SURFACE CHEMISTRY IN OPERATING SOFC AND ITS IMPACT ON THE OXYGEN EXCHANGE	Backhaus-Ricoult, Monika Dr.	Keynote
1420 1440	CURRENT INSTABILITY IN SOLID OXIDE FUEL CELLS.	Burmistrov, Ilya Mr.	Oral Presentation
1440 1500	MODULATION OF OSCILLATORY CO OXIDATION ON PLATINUM USING ELECTROCHEMICAL PROMOTION	Lizarraga, Leonardo Dr.	Oral Presentation
1500 1520	MICROSTRUCTURE EFFECTS ON OXYGEN SURFACE EXCHANGE IN NANOSCALE CERIA THIN FILMS	Tsuchiya, Masaru Mr	Oral Presentation
1520 1540	IMPACTS OF DEFECTS ON PHASE STABILITY OF Ag <sub>2</sub> S/Ag NANOWIRES	Osada, Minoru Dr	Oral Presentation

**SPEAKERS PROGRAM**

17th Conference on Solid State Ionics

Printed on Thu 25 June 09 at 22:32:41

**R4A - CATHODES VI**

Date 07/02/2009 Time 1610 to 1800

Chair Janina Molenda, Faculty of Materials  
Science and Ceramics, KRAKOW, POLAND

Room Concert Hall

Times	Title	Speaker	Presentation Type
1610 1630	NANO-STRUCTURED Sm <sub>0.5</sub> Sr <sub>0.5</sub> CoO <sub>3</sub> ELECTRODES FOR INTERMEDIATE-TEMPERATURE SOFCs WITH ZIRCONIA ELECTROLYTES	Xia, Changrong Dr. Peng, Ranran Ms.	Oral Presentation
1630 1650	DESIGN AND CHARACTERIZATION OF LSM-ScSZ NANOCOMPOSITE AS MIEC MATERIAL FOR FUNCTIONALLY GRADED CATHODES OF SOLID OXIDE FUEL CELLS	Sadykov, V.	Oral Presentation
1650 1710	EFFECT OF INFILTRATE STRUCTURE AND COMPOSITION ON SOLID OXIDE FUEL CELL CATHODE POLARIZATION RESISTANCE	Nicholas, Jason Dr.	Oral Presentation
1710 1730	THREE-DIMENSIONAL MICROSTRUCTURE OF SOLID OXIDE FUEL CELL CATHODE MATERIALS	Wilson, James Dr.	Oral Presentation
1730 1750	DEGRADATION STUDY OF OXYGEN SURFACE EXCHANGE AND BULK DIFFUSION COEFFICIENT VALUES OF MIXED IONIC ELECTRONIC CONDUCTING CATHODES	Endler, Cornelia Ms.	Oral Presentation

**R4B - NON-CRYSTALLINE MATERIALS II**

Date 07/02/2009 Time 1610 to 1800

Chair Isaac Abrahams, Queen Mary, University of  
London, LONDON, UK

Room Ontario Room

Times	Title	Speaker	Presentation Type
1610 1630	STRUCTURE AND PROPERTY RELATIONSHIPS OF Na <sub>2</sub> S + B <sub>2</sub> S <sub>3</sub> + P <sub>2</sub> S <sub>5</sub> GLASSES	Bischoff, Christian Mr.	Oral Presentation
1630 1650	LOCAL CONDUCTIVITY OF PHASE SEPARATED CHALCOGENIDE GLASSES INVESTIGATED BY NEAR FIELD MICROSCOPY	Pradel, Annie Dr.	Oral Presentation
1650 1710	DEVITRIFICATION KINETICS OF BULK AND PULVERISED SODIUM METAPHOSPHATE GLASSY PHASE	Hariharan, K. Dr.	Oral Presentation
1710 1730	CHARACTERIZATION OF NEWLY SYNTHESIZED LITHIUM BASED GLASS (Ag <sub>2</sub> S) <sub>x</sub> (LiPO <sub>3</sub> ) <sub>1-x</sub>	Kartini, Evvy Dr.	Oral Presentation
1730 1750	FABRICATION AND CHARACTERIZATION OF LEAD- FREE LOW MELTING POINT GLASS IN P <sub>2</sub> O <sub>5</sub> -SnO-CaO SYSTEM WITH SiO <sub>2</sub> DOPING	He, Gang Dr.	Oral Presentation

**R4C - ELECTROLYTES III**

Date 07/02/2009 Time 1610 to 1800

Chair Stephen Hull, The ISIS Facility, DIDCOT, UK

Room Territories

Times	Title	Speaker	Presentation Type
1610 1630	EXAFS STUDY OF LOCAL STRUCTURE AND STRAIN-INDUCED VACANCY ORDERING IN Ce <sub>0.8</sub> Gd <sub>0.2</sub> O <sub>1.9</sub>	Lubomirsky, Igor Dr.	Oral Presentation
1630 1650	PVDF-HFP NANOCOMPOSITE POLYMERS CONTAINING PYRA <sub>1,2</sub> O <sub>1</sub> TFSI IONIC LIQUIDS AS ELECTROLYTES FOR LI ION BATTERIES	Quartarone, Eliana Dr.	Oral Presentation
1650 1710	MANUFACTURING OF ELECTROLYTE LAYERS BY ELECTRON BEAM PHYSICAL VAPOR DEPOSITION (EB-PVD) FOR SOLID OXIDE FUEL CELL (SOFC) APPLICATIONS	Uhlenbruck, Sven Dr.	Oral Presentation
1710 1730	DENSE NANOCRYSTALLINE CGO THIN FILMS PREPARED BY FLAME SPRAY SYNTHESIS	Karageorgakis, Nikolaos Mr.	Oral Presentation
1730 1750	COATINGS OF Li <sub>2</sub> S-P <sub>2</sub> S <sub>5</sub> SOLID ELECTROLYTE FILM ON LiCoO <sub>2</sub> PARTICLES BY PULSED LASER DEPOSITION	Hayashi, Akitoshi Dr.	Oral Presentation

**R4D - MIXED CONDUCTORS II**Date **07/02/2009** Time **1610 to 1800**Chair **Kazuya Terabe, National Institute for  
Materials Science, WPI Center of Materials  
Nanoarchitecto, TSUKUBA, JAPAN**Room **Confederation 5&6**

Times	Title	Speaker	Presentation Type
1610 1630	A COMPARISON BETWEEN ELECTROCHEMICAL AND CATALYTIC PROMOTION: THE CASE OF N2O ABATEMENT IN POTASSIUM-MODIFIED Pd CATALYSTS	Marnellos, George Dr.	Oral Presentation
1630 1650	SEMICONDUCTOR-TURNING-ELECTROLYTIC OF BaTiO <sub>3</sub>	Yoo, Han-Il Dr	Oral Presentation
1650 1710	DEVELOPMENT OF OXYGEN ELECTRODES FOR REVERSIBLE SOLID OXIDE FUEL CELLS WITH SCANDIA STABILISED ZIRCONIA ELECTROLYTES	Laguna-Bercero, Miguel Dr	Oral Presentation
1710 1730	ELECTROCHEMICAL BEHAVIOUR OF Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-?</sub> THIN FILMS	Niedrig, Christian	Oral Presentation
1730 1750	CONTROL OF THE HIGH TEMPERATURE TRANSPORT PROPERTIES OF GdBaCo <sub>2</sub> O <sub>5+δ</sub> EPITAXIAL FILMS BY INDUCING MICROSTRUCTURAL DEFECTS	Burriel, M.	Oral Presentation

**EPL - PLENARY LECTURE**Date **07/03/2009** Time **0800 to 0850**Chair **Stan Whittingham, SUNY, BINGHAMTON,  
USA**Room **Concert Hall**

Times	Title	Speaker	Presentation Type
0800 0850	OXYGEN ION CONDUCTIVITY: DEFINING THE LIMITS	Kilner, J.A. Dr.	Oral Presentation

**F1A - CATHODES VII**Date **07/03/2009** Time **0850 to 1230**Chair **Thomas Coyle, University of Toronto,  
TORONTO, CANADA**Room **Concert Hall**

Times	Title	Speaker	Presentation Type
0850 0910	STABILITY OF PEROVSKITE SOFC CATHODES	Misture, Scott T. Dr.	Oral Presentation
0910 0930	INVESTIGATION OF DOPED STRONTIUM TITANATE MATERIALS FOR USE AS SOLID OXIDE ELECTROLYSIS CELL CATHODES	Fish, Jason Mr	Oral Presentation
0930 0950	GUIDELINES FOR IMPROVING CO <sub>2</sub> TOLERANCE OF MATERIALS FOR SOLID STATE ELECTROCHEMICAL SYSTEMS	Frade, Jorge Prof.	Oral Presentation
0950 1010	FIRST PRINCIPLES MODELING OF PATHWAYS FOR OXYGEN INCORPORATION INTO SOFC CATHODE	Kotomin, E.	Oral Presentation
1010 1030	MECHANISTIC INTERPRETATION OF OXYGEN INCORPORATION KINETICS INTO (Ba,Sr)(Co,Fe)O <sub>3</sub> -MICROELECTRODES	Merkle, R.	Oral Presentation
1100 1130	TRANSITION METAL OXIDES FOR FUNCTIONAL CATHODE MATERIALS	Molenda, Janina Prof.	Keynote
1150 1210	ELECTRODE REACTION MECHANISM OF LSCF AND LSM STUDIED BY in situ ELECTROCHEMICAL XAS	Orikasa, Yuki Mr.	Oral Presentation
1210 1230	OXYGEN VACANCY CONTENT, ORDERING, AND STRUCTURES OF La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3-d</sub>	Dabrowski, Bogdan Prof.	Oral Presentation

**F1B - ANODES III**Date **07/03/2009** Time **0850 to 1230**Chair **Steven McIntosh, University of Virginia,  
CHARLOTTESVILLE, USA**Room **Ontario Room**

Times	Title	Speaker	Presentation Type
0850 0910	INVESTIGATION ON DIRECT-HYDROCARBON SOLID OXIDE FUEL CELL WITH POROUS Cu-Ni/YSZ ANODE SUPPORTED YSZ MEMBRANE	Lu, Zhe Prof.	Oral Presentation
0930 0950	CARBON TOLERANT Ni - Au/GDC SOFC ANODES OPERATING UNDER INTERNAL STEAM REFORMING CONDITIONS	Niakolas, Dimitrios Dr.	Oral Presentation
0950 1010	Ni/YSZ ELECTRODE DEGRADATION STUDIED BY IMPEDANCE SPECTROSCOPY	Hauch, Anne Dr.	Oral Presentation
1010 1030	PERFORMANCE OF Ba <sub>1-x</sub> Ce <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>3</sub> -Ni COMPOSITE ANODES FOR PROTON CONDUCTING SOLID OXIDE FUEL CELLS	Peng, Ranran Mrs.	Oral Presentation
1100 1130	CURRENT DENSITY DEPENDENCE OF CHANGES IN THE MICROSTRUCTURE OF SOFC ANODES DURING ELECTROCHEMICAL OXIDATION	Hatae, Toru Mr	Keynote
1130 1150	FABRICATION OF HOLLOW FIBER SOLID OXIDE FUEL CELL ANODES	Droushiotis, Nicolas Mr	Oral Presentation
1150 1210	A DETAILED STUDY OF HYDROGEN OXIDATION REACTION BASED ON PATTERNED NI ANODES FOR SOFC	Utz, Annika Ms	Oral Presentation

**F1C - ELECTROLYTES IV**Date **07/03/2009** Time **0850 to 1230**Chair **Juergen Fleig, Vienna University of  
Technology, VIENNA, AUSTRIA**Room **Territories**

Times	Title	Speaker	Presentation Type
0850 0910	MANUFACTURE PROCESS AND PROPERTIES OF NANOMETER GDC ELECTROLYTE FOR SOFC	Han, Min Fang Dr.Mrs.	Oral Presentation
0930 0950	SCAVENGING OF HIGHLY RESISTIVE INTERGRANULAR PHASES IN GDC BY THE ADDITION OF ALKALI EARTH OXIDES	Cho, Pyeong-Seok Mr.	Oral Presentation
0950 1010	AUTO COMBUSTION SYNTHESIS AND CHARACTERIZATION OF NANO-CRYSTALLINE Ce <sub>0.85</sub> Gd <sub>0.15</sub> O <sub>1.925</sub>	Singh, Prabhakar Dr.	Oral Presentation
1010 1030	DEFECT CHEMISTRY OF ACCEPTOR DOPED Yb <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> - BASED MATERIALS	Abrantes, J.C.C. Dr.	Oral Presentation
1100 1130	CHARACTERISATIONS OF NEW SOFC ELECTROLYTES OF WEBERITE TYPE	Vannier, Rose-Noelle Prof.	Keynote
1130 1150	IONIC CONDUCTIVITY IN IONIC LIQUID-BASED ELECTROLYTES	Kunze, M.	Oral Presentation
1150 1210	ION TRANSPORT PATHWAYS IN ENERGY-SCALED BOND VALENCE LANDSCAPES	Adams, S.	Oral Presentation
1210 1230	MOLECULAR DYNAMICS SIMULATIONS OF DOPANT SEGREGATION PHENOMENA IN YTTRIA-STABILIZED-ZIRCONIA AND GADOLINIA-DOPED-CERIA	Tsuchiya, Masaru Dr.	Oral Presentation

**F1D - APATITES**Date **07/03/2009** Time **0850 to 1230**Chair **Gyeong Man Choi, POSTECH, POHANG,  
KOREA**Room **Confederation 5&6**

<b>Times</b>	<b>Title</b>	<b>Speaker</b>	<b>Presentation Type</b>
0850 0910	DEFECT CHEMICAL MODEL OF LANTHANOID SILICATE OXYAPATITE	Kobayashi, Kiyoshi Dr	Oral Presentation
0930 0950	STRUCTURE AND TRANSPORT PROPERTIES OF DOPED APATITE-TYPE LANTHANUM SILICATES PREPARED VIA MECHANOCHEMICAL ROUTE	Pavlova, Svetlana Dr.	Oral Presentation
0950 1010	IONIC CONDUCTION MECHANISM OF B-TYPE CARBONATED APATITE	Tanaka, Yumi Dr	Oral Presentation
1010 1030	STRUCTURE AND IONIC CONDUCTIVITY OF APATITE TYPE-LANTHANUM SILICATES DOPED ON THE Si-SITE	Guillot, Stephanie Ms.	Oral Presentation
1100 1130	EFFECT OF CATION DOPING ON IONIC AND ELECTRONIC PROPERTIES FOR LANTHANUM SILICATE-BASED SOLID ELECTROLYTES	Mineshige, Atsushi Dr.	Keynote
1130 1150	IONIC CONDUCTING APATITE-TYPE LANTHANUM SILICATE FILMS PREPARED BY ATMOSPHERIC DC PLASMA SPRAYING	Yoshioka, Hideki Dr.	Oral Presentation
1150 1210	HYDRATION STUDIES OF RARE EARTH SILICATE/GERMANATE IONIC CONDUCTORS WITH THE APATITE STRUCTURE	Orera, Alodia Dr	Oral Presentation
1210 1230	APATITE TYPE LANTHANUM SILICATE AND COMPOSITE ANODE HALF CELLS	Jothinathan, Ezhil Mrs.	Oral Presentation