ECSSC15 Vienna

Time Schedule-Program

Monday 24.08.2015			
Poster Session 1 16.00 – 18.00			
Intermetallics			
Poster No.	**PRESENTER**		**TITLE**
PMon001	**Vrestal**	Jan	Ab initio calculated energy of formation of chromium Laves phases in phase equilibrium calculations
PMon002	**Schmetterer**	Clemens	Interactions between Sn-Zn solders and Ni-substrates - the Ni-Sn-Zn system
PMon003	**Schmetterer**	Clemens	Powder Preparation from the nano to the micrometer scale
PMon004	**Yakymovych**	Andriy	Structure transformations during Co/Sn solid/liquid interfacial reactions
PMon005	**Ponou**	Simeon	A Multicomponent Approach to Structurally Complex Zintl Phases for Energy Applications
PMon006	**Pavlu**	Jana	Ab initio and CALPHAD modelling of Laves phases in Mn-based systems
PMon007	**Janka**	Oliver	$Ba_3Pt_4Al_4$ - A Complex Platinide with a Pt/Al Framework Featuring Heterocubane [Pt_4Al_4] Units
PMon008	**Palcut**	Marian	Corrosion behavior of Al-Pd and Al-Co complex metallic alloys
PMon009	**Verchenko**	Valeriy	Evolution of the ground state in the system of binary intermetallics $CrGa_4$ and $MnGa_4$
PMon010	**Nash**	Philip	Experimental investigation of ternary Fe-Sn-Ti phase diagram at 873 K
PMon011	**Kainzbauer**	Peter	Experimental investigations in the binary Mn-Sb and ternary Mn-Sb-Bi System
PMon012	**Prokofiev**	Andrey	Intermetallic rare earth clathrates: synthesis, mechanism of rare earth incorporation and impact of electronic correlations on the thermoelectric properties
PMon013	**Wolf**	Silke	Karlsruhe Institut of Technologie
PMon014	**Jacob**	Aurélie	Liquidus projection of ternary Laves phase containing systems for the development of ferritic steel
PMon015	**Reichmann**	Thomas	Metallurgical preparation, thermodynamic characterisation and cycling measurements of new intermetallic anode materials for Li-ion batteries
PMon016	**Tence**	Sophie	New hydrides $RTXH_{1.5}$ (R = Rare-earth; T = Sc,Ti; X = Si,Ge)

PMon017	**Fürtauer**	Siegfried	New intermetallic anode materials: Experimental investigation of the Cu-Li-Sn system
PMon018	**Matselko**	Oksana	On the room and high temperature modifications of $Pd_3(Ga,Sb)$ ternary phase
PMon019	**Hillebrecht**	Harald	Ordered defect variants of a closest packing in $TaGa_{6-x}Zn_x$ - or packing of $Ta(Ga,Zn)_{12}$ polyhedra like in elemental metals
PMon020	**Hillebrecht**	Harald	Single crystal growth and crystal structures of binary intermetallics Ta_xGa_y
PMon021	**Kuznetsov**	Alexey	Ordering Patterns in Mixed Group 10 Metal Tellurides Based on B8-type Intermetallics
PMon022	**Tambornino**	Frank	Quantifying electron transfer in polar intermetallic phases: structural, NMR and theoretical studies on lithium amalgams
PMon023	**Mahon**	Tadhg	$R_2T_{3-x}Si_x$, a new pseudo-binary phase and prospective magnetocaloric material (R = Ce, Pr, Nd, Gd, Tb, Dy; T = Co, Ni).
PMon024	**Prots**	Yurii	Structural transformation of the $NaZn_{13}$-type derivatives in the La(Ce)-Ni-Ga systems
PMon025	**Wibner**	Patrick	Synthesis of supported intermetallic $Pd_{1-x}Zn_{1+x}$ nanoparticles for catalysis
PMon026	**Pathak**	Manisha	Synthesis, Structure and Properties of Novel Nitridogermanate $Ca_6[Ge_2N_6]$
PMon027	**Feng**	Xianjuan	Synthesis, crystal structure and properties of a new compound Ir_2Cd_{23}
PMon028	**Niehaus**	Oliver	Systematic investigations of Ce-Ru interactions by XPS
PMon029	**Gulo**	Fakhili	Ternary Intermetallic Compound in Ca-Cd-Pt System
PMon030	**Jandl**	Isabella	The NiAs Structure Family: Structure Composition Relations and Thermodynamic Modelling
PMon031	**Kroupa**	Ales	The assessment of the Al-V and Al-Si-V system
PMon032	**Beutl**	Alexander	The systems Li-Sb and Cu-Li-Sb, an experimental approach
PMon033	**Delsante**	Simona	Thermodynamic properties of Mg-Pd alloys
PMon034	**Boller**	Herbert	$V_{18}P_9C_2$ - a Complex Phosphide Carbide
PMon035	**Solokha**	Pavlo	Vacancy ordering phenomena in novel RZn_xGe_2 compounds (R=Tb-Er; 0.15<x<0.25)

Functional materials

Poster No.	PRESENTER		TITLE
PMon036	**Vasylechko**	Leonid	Anomalous Thermal Expansion of Mixed Samarium Cobaltites-Ferrites

PMon037	**Jung-König**	Jan	Nanoscaled Gadolinium and Magnesium Carbonate Hollow Spheres
PMon038	**Harm**	Sascha	Phase Relations of Alkali Metal Zinc Phosphates for Application in Lithium-Ion Battery Cathodes
PMon039	**Volkova**	Nadezhda	Phase equilibria, crystal structure and properties of the complex oxides in the Sm-Sr-Fe-Co-O system
PMon040	**Grotz**	Carolin	The two new polyphosphides AgP_{15} and Ag_2GeP_{60} compared to LiP_{15}
PMon041	**Rabu**	Pierre	A versatile tool box for the functionalization of layered materials: ion-exchange, micro-wave assisted reactions and post-functionalization
PMon042	**Safarifard**	Vahid	Amine functionalized metal organic framework for highly efficient reversible adsorption of iodine
PMon043	**Belaroui**	Lala Setti	Adsorption of linuron by an Algerian palygorskite modified with magnetic iron oxides
PMon044	**Bennett**	Matthew	Anion-Deficient Perovskite-type Oxides as New Materials for CO_2 Capture
PMon045	**Piir**	Irena	Bismuth titanate pyrochlore doped with transition metals (Cr, Mn, Cu, Fe, Zn): The thermal stability, structure, properties
PMon046	**Marchuk**	Alexey	$Ba_3P_5N_{10}X:Eu^{2+}$ (X = Cl, Br, I) - Luminescent Nitridophosphates with Zeolite-like Framework Structure
PMon047	**Abdmeziem**	Kaïssa	Characterization and photocatalytic properties of hydrothermally synthesized hydroxyphosphate material
PMon048	**Traiphol**	Nisanart	Colorimetric sensing of various organic acids by using polydiacetylene/zinc oxide nanocomposites: The effects of acid structure
PMon049	**Amara**	Sif-Eddien	Correlation between electrochemical behavior and microstructures of FeNbC ternary alloys
PMon050	**Urusova**	Anastasia	Crystal structure and properties of Y-substituted strontium and barium ferrites
PMon051	**Ivanov**	Ivan	Crystal structure, oxygen nonstoichiometry and electric properties of $PrBaCo_{2-x}FexO_{6-\delta}$
PMon052	**Maier**	Maria	Cubic, ceramic-like solid solutions $Li_{7-x-y}La_3Zr_{2-x-y}NbxTayO_{12}$ with garnet-type structure for all-solid-state Li-ion batteries: synthesis of dense samples and characterisation focussing on Raman spectroscopy
PMon053	**Tsvetkov**	Dmitry	Defect structure and related properties of $YBaCo_2O_{6-\delta}$
PMon054	**Miller**	Stuart	Defect Flourite vs Pyrochlore : the $M_2\ M'_2\ O_7$ case
PMon055	**Sereda**	Vladimir	Defect structure and defect-induced properties of $SrTi_{0.5}Fe_{0.5}O_{3-\delta}$
PMon056	**Telegin**	Sergey	Effect of cobalt deficiency on physical properties of the polycrystalline samples $EuBaCo_xO_{6-\delta}$ and the single crystal $EuBaCo_{1.9}O_{6-\delta}$
PMon057	**Dergham**	D.	Elaboration and caractérisation of ZnO-Cu thin films By thermal evaporation
PMon058	**Prodan**	Alina Mihaela	Evaluation of dextran coated iron oxide magnetic nanoparticles toxicity after intratracheal instillation

PMon059	**Slabon**	Adam	Fabrication of Nanoporous Metallic Coatings
PMon060	**Shevelkov**	Andrei	Fe-based layered tellurides $Fe_{3-\delta}GeTe_2$ and $Fe_{3-\delta}As_{1-y}Te_2$: synthesis, neutron diffraction study, Mössbauer spectroscopy and band structure calculations
PMon061	**Cario**	Laurent	Giant Zn deficiency and p-typeness tuned by a nanosize effect in N-doped ZnO nanoparticles
PMon062	**Bos**	Jan-Willem	Glass-like Thermal Conductivity in $SrTiO_3$ Thermoelectrics Induced by A-site Vacancies
PMon063	**Bos**	Jan-Willem	Improved Thermoelectric Performance in Nanostructured half-Heuslers
PMon064	**Bang**	Seong-eun	Hydrothermal synthesis and characterization of novel quaternary yttrium selenites
PMon065	**Huang**	RUI	Improvement of near infrared Long-Persistent Luminescence in Si Substituted $Zn_3Ga_2Ge_2O_{10}$
PMon066	**Lainé**	Fabien	Influence of the cationic substitution on crystal structure and physical properties in the $Fe_{3-x}Mn_xO_2BO_3$ ($0 \leq x \leq 3$) system
PMon067	**Gilyov**	Artyom	$La_{2-x}Sr_xNi_{1-y}FeyO_{4+\delta}$ as cathode materials for SOFC application
PMon068	**Rueff**	Jean-Michel	Low dimensional hybrids with magnetic and luminescence properties
PMon069	**Rueff**	Jean-Michel	Silver based hybrids with potential bactericidal properties
PMon070	**Müller-Buschbaum**	Klaus	Luminescence of Ln-N-MOFs for Sensing and Chromaticity Tuning
PMon071	**Verma**	Naveen	Luminescent characteristics of $CaAl_2O_4:Eu^{3+}$phosphors co-doped with Er^{3+} and Gd^{3+}
PMon072	**Verma**	Naveen	Optical properties of Yb^{3+} doped ZnO/MgO nanocomposites prepared by combustion method
PMon073	**Zagaynov**	Igor	Mesoporous ceria-based catalysts for oxidation reactions
PMon074	**de Laune**	Benjamin	Mixed Transition Metal Phases Relating to Schafarzikite: A Properties Investigation
PMon075	**Sardar**	Kripasindhu	Mixed metal nitride $Ni_{2-x}Co_xMo_3N$ as a heterogeneous catalyst and electro catalyst
PMon076	**Salek**	Guillaume	Mn^{2+} doped $Zn_3(PO_4)_2$ phosphors as thermal sensors
PMon077	**Kolchina**	Liudmila	Modified Ln_2CuO_4 (Ln=La, Pr) as cathode materials for solid oxide fuel cells
PMon078	**Asabina**	Elena	NZP-phosphates, containing metals in oxidation state +2, as new materials with regulated thermal expansion
PMon079	**Alfaifi**	Bandar	Nanostructured Fabrication of $MFeO_3$ (M= La, Y) for Efficient Solar to Chemical Energy Conversion by Photosynthetic Cell
PMon080	**Cherepanov**	Vladimir	New Family of Nanoscale Ordered Quintuple Perovskites $Ln_{2-\varepsilon}Ba_{3+\varepsilon}Fe_5O_{15-\delta}$ (Ln = Sm, Nd)

PMon081	**Isaeva**	Anna	New candidates for topological insulators in the bismuth-halogen systems
PMon082	**Förg**	Andrea	Novel coatings for corrosion and wear protection by thermal spraying
PMon083	**Patureau**	Pascaline	On the incorporation of Jahn-Teller Cu^{2+} ions into multiferroic $MnWO_4$
PMon084	**Matos**	Manuel	Organic light emitting diodes based on conjugated polymers functionalized with calix[4]arenes
PMon085	**Rabia**	Cherifa	Oxidation of cyclohexanone to adipic acid with aqueous hydrogen peroxide on $(NH_4)_xX_yPMo_{12}O_{40}$ with X= Sb, Sn
PMon086	**Tsvetkova**	Nadezhda	Oxygen non-stoichiometry and phase stability of Zn-doped $YBaCo_4O_{7\pm\delta}$ oxide with swedenborgite-type structure
PMon087	**Ciobanu**	Carmen Steluta	Photoluminescence and antimicrobial activity of Ag or Eu doped hydroxyapatite powders
PMon088	**Popa**	Cristina-Liana	Physico-chemical characterizations and cytotoxicity evaluation of novel zinc doped hydroxyapatite embedded in a collagen matrix
PMon089	**Yu**	Jae Su	Preparation and luminescence properties of $SrMoO_4$ optical materials doped with rare-earth ions
PMon090	**Boutamine**	Sultana	Revisite of reactivity of thiosemicarbazide on some divalent ions synthesis of complexes, characterization, DFT calculations, catalase like and biological activities
PMon091	**Uskokovic-Markovic**	Snezana	Raman spectroscopy on the impregnation of tungstophosphoric acid onto mesoporous and microporous supports
PMon092	**Mozharivskyj**	Yurij	Rare-Earth Antimonide and Bismuthide Suboxides: Interplay between the Structure and Transport Properties
PMon093	**Black**	Ashley P.	Red luminescence and ferromagnetism in europium oxynitridosilicates with a β-K_2SO_4 structure
PMon094	**Penkala**	Bartosz	Role of Lattice Oxygen on CO Oxidation Over $Ce_{18}O_2$-Based Catalyst Revealed Under Operando Conditions
PMon095	**Prutsch**	Denise	Self-Organized Amorphous TiO_2 Nanotubes as Na-Ion Battery Anodes
PMon096	**Pralong**	Valerie	Sodium Intercalation into the Iron Hydroxysulfate $NaFe_3(SO_4)_2(OH)_6$: a Topotactic Reversible Reaction from a Crystalline Phase to an Inorganic Polymer-like structure
PMon097	**Hank**	Zakia	Soil Remediation by Using Some Transition Metal Coordination Compounds
PMon098	**Halake**	Shobha	Solvothermal Synthesis and Characterization of Two New Barium-Organic Coordination Compounds
PMon099	**Nazarchuk**	Evgeny	Structural diversity of organically templated uranyl chromates
PMon100	**Zevalkink**	Alexandra	Structurally complex Zintl compounds for high temperature thermoelectric power generation
PMon101	**Nentwig**	Markus	Structure and thermoelectric properties of germanium antimony telluride heterostructures
PMon102	**Bizo**	Liliana	Substitution of couple Sn(IV)/Zn(II) for In(III) in the fluorite-like transparent conductors: $In_{5-2x}Sn_{1+x}SbZn_xO_{12}$

PMon103	**Bae**	Su-whan	Syntheses and Characterization of Two Series of Quaternary Mixed Metal Tellurites with Various Cation Sizes and Te^{4+} Polyhedra
PMon104	**Kim**	Saet Byeol	Synthesis and characterization of a new layered Pb^{2+}-Kemp's triacid coordination polymer
PMon105	**Farger**	Pierre	Synthesis and characterization of new hybrid coordination compounds based on imidazolium and 3d transition metal salts.
PMon106	**Lee**	Soohyun	Synthesis and detection properties of hydrothermally grown vertically aligned zinc oxide-based nanostructures for ultraviolet photodetector applications
PMon107	**Torralvo**	María José	Synthesis and magnetic properties of ferrite nanoparticles
PMon108	**Korolev**	Dmitrii	Synthesis, structure and valence states of 3d-atoms in the matrix of yttrium-gallium garnet
PMon109	**Uitz**	Marlena	The Electrochemical Performance of Rutile Nanorods for Lithium-Ion Batteries
PMon110	**Perz**	Martin	The Influence of Silicon on the Long-term stability of LSCF SOFC-Cathodes
PMon111	**Serras**	Paula	The use of waste biomass as carbon source in the synthesis of sodium vanadium fluorophosphates cathodes for Na-ion batteries
PMon112	**Gaudon**	Manuel	Thermochromic and piezochromic properties of $AMoO_4$ oxides
PMon113	**Amano-Patino**	Midori	Topochemical Reduction of Some Complex Ruthenium Oxides
PMon114	**Cascales**	Concepción	Tunable upconverted visible light and high sensitivity optical thermal sensing of Ln, Yb:$Y_6O_5F_8$ nanotubes
PMon115	**Traiphol**	Rakchart	Versatile route to prepare reversible thermochromic polydiacetylene/ poly(vinylpyrrolidone) nanocomposites: Effects of molecular weight and fabrication process
PMon116	**Röhr**	Martin	$[ZrO]^{2+}[G6P]^{2-}$ Biocompatible Inorganic-Organic Hybrid Nanoparticles for Supported Drug Delivery

Modern developments in chalcogenide research

Poster No.	PRESENTER		TITLE
PMon117	**Lai**	Kwing To	Synthesis and characterization of strong antiferromagnet CaFeSeO
PMon118	**Driss**	Dalel	A new chalcogenide compound $Ba_2F_2Fe_{1.5}Se_3$ with iron selenide layers
PMon119	**Woodruff**	Daniel	Chemical control of superconductivity in layered lithium iron selenide hydroxides
PMon120	**Peschke**	Simon	Flux Synthesis, Modulated Crystal Structures, and Physical Properties of $RE_2O_2MnSe_2$ (RE = La, Ce)
PMon121	**Popcevic**	Petar	High pressure study of intercalated transition metal dichalcogenides $Co_{0.33}NbS_2$ and $Fe_{0.33}TaSe_2$
PMon122	**Ritscher**	Anna	Mechanochemical Synthesis and Neutron Scattering Measurements on Kesterite (Cu_2ZnSnS_4)

PMon123	**Stolze**	Karoline	Mixed-Valent Selenium in the Uncharged Iridium Cluster $[Ir_4Se_{10}Br_{16}]$
PMon124	**Karabyn**	Vasyl	Phase change materials for the $Ge_8Bi_2Te_{11}$ - $Ge_8Sb_2Te_{11}$ system
PMon125	**Yusenko**	Kirill	Polymorphism in Intercalated Iron Selenide Superconductors: Influence of Interlayer Distance and Electron Transfer on the Critical Temperature
PMon126	**Kleeberg**	Fabian	Rare-Earth Metal Cations in a Polar Framework Erected by Thiogallato-closo-Dodecaborate Anions
PMon127	**Blandy**	Jack	Soft chemical control of the crystal structure and properties of $Sr_2MnO_2Cu_{1.5-x}S_2$
PMon128	**Nasonava**	Darya	Structural and properties features of Fe-substituted tetrahedrites
PMon129	**Delacotte**	Charlène	Structures and magneto-electric behaviors of calcium and iron based oxysulfides
PMon130	**Pompe**	Constantin	The crystal structures and polymorphism of Na_2TeQ_3 (Q=S, Se)
New methods of characterization			
Poster No.	**PRESENTER**		**TITLE**
PMon131	**Regoutz**	Anna	Polarisation dependence in hard X-ray photoemission of Sn-doped TiO_2
PMon132	**Regoutz**	Anna	High-pressure photoelectron spectroscopy investigation of the interaction between CO_2 and Cu-based reduction catalysts
PMon133	**Wittich**	Knut	Angular overlap modelling of the vanadyl(IV) chromophore in silver vanadyl(IV) bis(orthophosphate) pyrophosphate in comparison to single crystal EPR measurements
PMon134	**Andre**	Rémi	Assessment of the thermodynamic properties of solids at high temperature with the drop calorimetry technique
PMon135	**Iranmanesh**	Mitra	Combinatorial ceramic synthesis and scanning SQUID microscopy for searching new cuprate superconductors
PMon136	**Slawinski**	Wojciech	Novel crystal structure of MoO_3 nanobelts
PMon137	**Hartmann**	Thomas	Optimising PDF data quality using a laboratory powder diffractometer
PMon138	**Payne**	David	Recent Developments in Laboratory-based High Pressure Photoelectron Spectroscopy
PMon139	**Durach**	Dajana	Unusual Tetrahedra Network Structures of Lanthanum Barium Oxonitridosilicates
PMon140	**Coomer**	Fiona	Using muSR to investigate solid state materials: frustration in double perovskites

Tuesday 25.08.2015			
Poster Session 2 16.00 – 18.00			
New methods of synthesis			
Poster No.	**PRESENTER**		**TITLE**
PTue001	**Bouyon**	Tracy	Hybrid Gold/Thiolates Nanoparticles: Control of Surface Properties and Characterizations, Insertion in Porous Materials
PTue002	**Daviero**	Sylvie	New positive nanosheets from the exfoliation of dimensional oxybromide for oriented thin films deposit
PTue003	**de Sousa Filho**	Paulo Cesar	Synthesis and luminescent properties of mixed rare earth phosphate/vanadate hollow particles
PTue004	**Wörsching**	Matthias	Towards new subvalent compounds - the new nitridoborate $Ba_{23}(BN_2)_{11}(B(N/O)_3)_3N_{3-x}$
PTue005	**Renman**	Viktor	Collapsing transition metal oxohalides as negative electrode materials for lithium ion batteries
PTue006	**Rein**	Viktor	Encapsulation of Lipophilic Dyes and Drugs in Hydrophilic $ZrO(HPO_4)$ shells
PTue007	**Penner**	Simon	Enhanced kinetic stability of pure and Y-doped tetragonal ZrO_2
PTue008	**Bum Jae**	Lee	Fracture Toughness of Epoxy Semi-IPN Toughened with In-situ Polymerized Novel Polysulfone via Azide-alkyne Click Reaction
PTue009	**Müller**	Ulrike	Halogenidoaluminate Salts of the Intermetalloid Cluster Cation $[Bi_{12}Ni_2]^{4+}$ - Synthesis in Ionic Liquids, Crystal Structure and Chemical Bonding
PTue010	**Konar**	Sumit	Intercalation Compounds from LiH and Graphite: Relative Stability of Metastable Stages and Thermodynamic Stability of Dilute Stage Id
PTue011	**Schöttle**	Christian	Less-Noble Metal Nanoparticles
PTue012	**Hoehn**	Peter	Lithium and alkaline-earth nitrides of group 13 and 14 metals: millimeter-sized single crystals from lithium melts
PTue013	**Oana**	Carp	Materials synthesis via polysaccharides assisted procedures
PTue014	**Roslova**	Maria	Microwave-assisted Polyol Synthesis of $M_3Bi_2X_2$ (M = Ni, Pd; X =S, Se): Using Solution Chemistry to Access Ternary Metal-Rich Chalcogenides
PTue015	**Raguz**	Branimir	New polymorphs of lithium pyrophosphate
PTue016	**Pet'kov**	Vladimir	Phosphates of rare-earth elements and titanium: synthesis optimization and crystal structure study
PTue017	**Kosaka**	Tomomi	Preparation Pr doped perovskite red phosphors by hydrothermal reaction

PTue018	**Schnabel**	Anke	Silver Chromium(III) Phosphates: Syntheses, Equilibrium Relations, New Crystal Structures and De-intercalation Experiments
PTue019	**Peña**	Alazne	Sodium vanadium fluorophosphates prepared by a new microwave assisted synthesis: electrochemical study of raw and C-coated materials
PTue020	**Roy**	Subrata Chandra	Solid solutions in the quasi-binary system vanadyl(V) phosphate - molybdenyl(V) phosphate
PTue021	**Morsali**	Ali	Sonochemical syntheses of nano lead(II) coordination polymer; precursor for preparation of lead(II) oxide/iodide nano-structures
PTue022	**Schmitz**	Andreas	Synthesis and Crystal Structure of Thallium(I, III) Pyrophosphate
PTue023	**Haumann**	Sebastian	Synthesis and self-assembly of Cobalt and Nickel Nanoparticles
PTue024	**Nedumkandathil**	Reji	Synthesis and structural characterization of $BaTiO_{3-x}H_x$ oxyhydrides
PTue025	**Häbel**	Jan-Peter	Synthesis, Crystal Structures and Topotactic Oxidation of Polynary Silver Transition Metal Phosphates
PTue026	**Nash**	Philip	The Large Scale Synthesis of Aligned Plate Nanostructures
PTue027	**Hertrampf**	Jan	Three Modifications of Barium Tetramidogallate: An Intermediate in Ammonothermal GaN Crystal Growth
PTue028	**Konovalov**	Igor	The synthesis of nanoparticles of metal oxides by supercritical CO_2 anti-solvent precipitation
Solid state theory			
Poster No.	**PRESENTER**		**TITLE**
PTue029	**Kurkcu**	Cihan	An ab initio molecular dynamics study of structural properties of FeF_2 as a function of pressure
PTue030	**Masys**	Sarunas	Elastic Properties of $LaNiO_3$: An Employment of PBE-based Functionals
PTue031	**Kremenetskaya**	Olga	Electron density and ELI-D analysis of the cd → β-Sn phase transition of group IV elements
PTue032	**Deringer**	Volker	Exploring Bonding in Complex Solids with New Theoretical Tools
PTue033	**Azibi**	Mourad	First-principles calculations of the phase stability and surface energy of TiO_2 (100) and (110)
PTue034	**Herzig**	Peter	First-principles study of phase stability, hydrogen ordering, and the metal-insulator transition in hydrogen-rich lutetium hydrides
PTue035	**Touzani**	Rachid	Long looked-for and finally found: Nb_2RuB_2 - theoretical and experimental studies
PTue036	**Kang**	Hong Seok	Mechanical and Electronic Properties of π -Conjugated Organometallic Nanomaterials

PTue037	**Boviatsis**	John	On the correct form of the nonlinear optical susceptibility in strongly-driven semiconductor quantum dots
PTue038	**Tomerini**	Daniele	On the role of computational modelling in the understanding of novel organic electroactive materials for Li-ion batteries
PTue039	**Shipilov**	Alexander	Synthesis, phase formation, structure and thermal expansion behavior of double arsenates of zirconium and alkali earth metals
PTue040	**Azibi**	Mourad	The Vickers microhardness prediction of TiC and TiN: A DFT study
Collective magnetic phenomena			
Poster No.	**PRESENTER**		**TITLE**
PTue041	**Frei**	Maren	Charge and Spin Ordering in Intrinsically Doped Sodium Oxocuprates
PTue042	**Pachmayr**	Ursula	Coexistence of Ferromagnetism and Superconductivity in the iron chalcogenide $[(Li_{0.8}Fe_{0.2})OH]FeSe$
PTue043	**Batuk**	Dmitry	Crystal structure and magnetic phase transitions of $Bi_4Fe_5O_{13}F$, a material with the frustrated magnetic pentagonal Cairo lattice.
PTue044	**Solana-Madruga**	Elena	High pressure synthesis, structures and magnetic properties of Mn_2MSbO_6 oxides
PTue045	**Cussen**	Eddie	Valence Bond Glass Formation and Dynamic Magnetic Ordering in Frustrated Perovskites
PTue046	**Clemens**	Oliver	Ways Out of Frustration?! The Magnetic Structures of the low and high temperature phases of $Mn_3(VO_4)_2$
Ionic and electronic transport in solids			
Poster No.	**PRESENTER**		**TITLE**
PTue047	**Stanje**	Bernhard	Li-Ion Dynamics of Layer-Structured 2H-Li_xNbS_2 studied by ^{7}Li NMR
PTue048	**Taibl**	Stefanie	Visualization of ion motion in Fe-$SrTiO_3$ thin films by means of impedance spectroscopy under bias
PTue049	**Rettenwander**	Daniel	A Micro-contact Electrochemical Impedance Spectroscopy Study of NASICON Type $Li_{1.5}$ $Al_{0.5}$ $Ti_{1.5}$ $(PO_4)_3$ and $LiTi_2$ $(PO_4)_3$ Single Crystals
PTue050	**Langer**	Julia	Combined ^{6,7}Li NMR study of slow Li diffusion in monoclinic Li_2SnO_3
PTue051	**Fraenkl**	Max	Direct approach for impedance analysis of ion conducting glasses
PTue052	**Kochetova**	Nadezda	Electrical properties of perovskite-type complex oxides $Ba_2Sc_2MO_8$ (M=Ti, Zr)
PTue053	**Chezhina**	Natalia	Electron structure as a foundation for selecting the compositions of doped lanthanum gallate as electron ionic conductors for SOFC

PTue054	**Epp**	Viktor	Extremely High Li^+ Diffusivity in NASICON-type $Li_{1.5}Al_{0.5}Ti_{1.5}(PO_4)_3$
PTue055	**Wohlmuth**	Dominik	Fast Li Ion Transport in the $Li_7P_3S_{11}$ Glass Ceramic as Seen by $^{6,7}Li$ NMR Relaxometry
PTue056	**Wiedemann**	Dennis	High-Temperature Transformation from 1T- to 3R-Li_xTiS_2 Observed in situ with Neutron Diffraction
PTue057	**Ryabkov**	Y.I.	Ilmenite ceramics for advanced electrical and magnetic materials
PTue058	**Øygarden**	Vegar	Intercalation of water in the $LaSr_3Fe_3O_{10-\delta}$ Ruddlesden-Popper type material
PTue059	**Polt**	Julia	Investigation of the solid-solution Sr_2YNbO_6 - $Sr_3NbO_{5.5}$
PTue060	**Kharitonova**	Elena	$La_2Mo_2O_9$-based compounds with high oxygen conductivity in $La_2Mo_2O_9$ - $Ln_2W_2O_9$ - $Ln_2Mo_2O_9$ (Ln = Pr, Nd, Sm, Gd) ternary systems
PTue061	**Kharitonova**	Elena	Phase formation and conductivity of compounds in Ln_2MoO_6 - Bi_2O_3 (Ln = Pr, Nd) systems
PTue062	**Schrödl**	Nina	$La_2NiO_{4+\delta}$ as anode material for solid oxide electrolyser cells under chromium poisoning conditions
PTue063	**Monchak**	Mykhailo	Li diffusion pathways in LATP-based materials
PTue064	**Brandstätter**	Harald	Li ion dynamics in nanocrystalline and structurally disordered Li_2TiO_3
PTue065	**Walch**	Gregor	Light-induced stoichiometry changes in oxides at high temperatures
PTue066	**Woods**	Michael	Lithium diffusion in mixed conducting polymers
PTue067	**Cussen**	Eddie	Lithium ion Conduction in Disordered Non-Framework Crystalline Borohydrides
PTue068	**Welzl**	Andreas	Local conductivities in Li ion conducting garnet-based ceramics measured by microelectrodes.
PTue069	**Breuer**	Stefan	Mechanochemical synthesis and characterization of the metastable, nanocrystalline F ion conductor $(Ba_xCa_y)La_{(1-x-y)}F_{(3-x-y)}$
PTue070	**Preishuber-Pflügl**	Florian	Mechanochemistry of Fluorine Ion Conductors: Insights into Synthesis and Ion Transport via Impedance Spectroscopy and Solid-State NMR
PTue071	**Blazquez Alcover**	Ignacio	Metal exsolution in $Ba(Fe,M)_2(PO_4)_2$ (M=Li, Co, Ni) : Metal versus alkali cationic mobility
PTue072	**Animitsa**	Irina	NMR study of proton motion in fluorine-doped complex oxides with perovskite and brownmillerite structures
PTue073	**Animitsa**	Irina	The effect of phosphate doping on local structure and ion transport of $Ba_4Ca_2Nb_{2-x}P_xO_{11}$
PTue074	**Pralong**	Valerie	New Rock Salt type Structure from Chemical or Electrochemical insertion Reaction

PTue075	**Greaves**	Colin	New oxygen insertion reactions involving 1-D channels
PTue076	**Evans**	Ivana	Oxide Ion Conductors for Energy Applications: Hops and Twists in the Solid State
PTue077	**Maity**	Avishek	$Pr_2NiO_{4+\delta}$: InSitu electrochemical oxygen intercalation studied by synchrotron diffraction on single crystal
PTue078	**Koroleva**	Mariya	Synthesis, thermal stability and electrical properties of copper- or cobalt-containing bismuth titanates with the pyrochlore type structure
PTue079	**Schmidt**	Walter	Small change-great effect: Steep increase of Li ion dynamics in $Li_4Ti_5O_{12}$ at the early stages of chemical Li insertion (x = 0.1, x = 0.3)
PTue080	**Grebenev**	Vadim	Solid acid proton conductors of CsH_2PO_4 - $CsHSO_4$ - H_2O salt system
PTue081	**Chen**	Min	Space Charge Layer Effect at Nickel/$BaZr_{0.9}Y_{0.1}O_{3-\delta}$ interfaces in Protonic Ceramic Fuel Cells
PTue082	**Hofer**	Johannes	Synthesis and characterization of donor doped barium titanate
PTue083	**Driscoll**	Laura	Synthesis and doping studies of $Na_2M(SO_4)_2.2H_2O$ (where M = Fe, Co and Ni) for potential applications as a cathode material for Na-ion batteries
PTue084	**Krasnov**	Aleksey	Synthesis and properties of $Bi_{2-y}M_xTi_2O_7$-DELTA (M - Sc, In) pyrochlores
PTue085	**Wagner**	Reinhard	Synthesis of garnet-type Li-ion conductor $Li_{7-x}La_3Zr_{2-x}Bi_xO_{12}$
PTue086	**Zhang**	Bo	The mechanism of Ag filament formation in Ag doped AsS_2 thin layer
PTue087	**Kastlunger**	Georg	Theory of charge transport through single redox-active transition metal complexes

High pressure synthesis and in situ investigations

Poster No.	PRESENTER		TITLE
PTue088	**Belik**	Alexei	Crystal Chemistry and Physics of Perovskites with Small Cations at the A Site
PTue089	**Pobel**	Roman	Absence of superconductivity in metastable $Ca_{1-x}Pr_xFe_2As_2$ (x = 0-1) synthesized under high pressure conditions
PTue090	**Konatham**	Satish	Hydrothermal syntheses and single crystal X-ray structures of three new vanadium (V) tellurites CaV_2TeO_8, $Sr_4V_4Te_4O_{20}(OH)_4$ and $Cd_2V_2Te_2O_{11}$
PTue091	**Glätzle**	Matthias	High-pressure Synthesis and Single-Crystal Structure of HP-LaOF
PTue092	**Ovsyannikov**	Sergey	High-pressure high-temperature synthesis of bulk $Si_{1-x}B_x$ alloys: two semiconductors form an unusual metal
PTue093	**Castillo**	Rodrigo	High-pressure synthesis of three new Ge-rich compounds in the Ba - Ge system

PTue094	**Yamamoto**	Ayako	High-pressure synthesis, crystal structure and properties of bismuth dicalcogenides, $Bi(Se_{1-x}S_x)_2$ (x = 0, 0.5, 1.0) and its substitutions
PTue095	**Heymann**	Gunter	High-pressure/High-temperature Synthesis and Characterization of the first Palladium and Platinum containing Lithium Transition-Metal Sulfides $Li_2M_3S_4$ (M = Pd, Pt)
PTue096	**Köpf**	Marianne	Investigation on the mineraliser assisted synthesis of black phosphorus via in-situ neutron powder diffraction
PTue097	**Friedrich**	Daniel	Kinetics of the phase transition of $CsGaSe_2$
PTue098	**Kloß**	Simon David	$NdLiP_4N_8$ - The First Rare Earth Nitridophosphate by Metathesis
PTue099	**Bertschler**	Eva-Maria	Surprising Anion Topologies in Lithium Nitridophosphates
PTue100	**Vitzthum**	Daniela	Synthesis and Characterization of the New High-Pressure Gallium Borate $Ga_2B_3O_7(OH)$
PTue101	**Krumeich**	Frank	Thermal behavior of carbon-coated lithium iron phosphate

Others

Poster No.	PRESENTER		TITLE
PTue102	**Schildhammer**	Daniel	High-Temperature Synthesis and Characterization of Rare-Earth Molybdenum-Oxynitrides
PTue103	**Schmetterer**	Clemens	Slag to Materials - Possible Applications for Red Mud
PTue104	**Stoiber**	Dominik	Alkaline-earth Metal Dependent Structural Distortion in Inverse Perovskite Nitride Arsenides
PTue105	**Jung**	Joo-hei	Characterization of alumina-graphene composites (AGC) formed by the reaction of carbon monoxide with partially nitrided alumina powder
PTue106	**Sree Rama Murthy**	A	Development of yttria doped thoria solid electrolyte and its performance in liquid sodium systems as oxygen sensors
PTue107	**Sree Rama Murthy**	A	Synthesis, characterization and hydrogen sensing properties of $Cr_{1-x}Fe_xNbO_4$ (x = 0-1)
PTue108	**Mahmoud**	Ahmed	Electrical Conductivity, Gap Width and Sensitivity to CO_2 gas for ITO Powder and Nanoparticle
PTue109	**Weiz**	Alexander	Electrical properties of the bismuth-rich subiodides $Bi_{14}I_4$ and $Bi_{18}I_4$
PTue110	**Scott-Fordsmand**	Janeck James	Environmental Risk Assessment of Nanomaterials
PTue111	**Ovchinnikov**	Alexander	Extended anionic frameworks in the AE-Mn-N systems. Synthesis, structure and physical properties of new nitridomanganates
PTue112	**Lee**	Soo Hyun	Fabrication and properties of polydimethysiloxane films for optical and triboelectric applications

PTue113	**Petschnig**	Lucas	Solution Combustion Synthesis of $CeFeO_3$ under Ambient Atmosphere
PTue114	**Marshall**	Kayleigh	Hydrofluorothermal Synthesis of Novel Transition Metal Fluorophosphate and Fluorosulfate Frameworks
PTue115	**Faria**	Rodolfo	Hydrogenation of ternary intermetallic compounds MTrTt (M = Ca, Sr, Ba; Tt = Al, Ga; Tt = Si, Ge) - A chemical bonding view in position space
PTue116	**Ortner**	Teresa	Hydrothermal Synthesis and Characterization of the Lutetium borate-nitrate $Lu_2B_2O_5(NO_3)_2 \cdot 2\ H_2O$
PTue117	**Malek**	Marcin	Influence of binder type on the SiC-based ceramic slurries properties for casting shell moulds fabrication
PTue118	**Lee**	Kuan-Wei	InAlAs/InGaAs Metamorphic High-Electron-Mobility Transistor With a Sol-Gel Processed TiO_2 as Gate Dielectric
PTue119	**Amara**	Leïla	Interaction between carbides formed in FeTiNbC alloys. Corrosion resistance.
PTue120	**Reisinger**	Gabriel	Isothermal section and new compounds in the system Al-Fe-Ge
PTue121	**Choi**	Yeon-Hee	Luminescence spectra of Ce^{3+}-doped $LaAlO_3$ powders prepared from the La_2O_3-CeF_3-Al_2O_3 reaction system
PTue122	**Cassidy**	Simon	Metal-Ammonia Intercalated Iron Selenide Superconductors Studied In-Situ by Powder X-Ray Diffraction
PTue123	**Rasche**	Bertold	New environment for a two-dimensional topological insulator with hexagonal channels hosting $[BiI_2]$- ions
PTue124	**Mechtaeva**	Elizaveta	Protonation of $A_2Ln_2Ti_3O_{10}$ (A = K, Na, Li; Ln = La, Nd) in aqueous medium
PTue125	**Paidi**	Anil Kumar	Syntheses and structural characterization of new quaternary vanadates of niobium and tantalum AMV_2O_8 (A = K, Rb, Tl, Cs; M = Nb, Ta)
PTue126	**Heppke**	Eva	Sodium Ion Substitution in Barium Zirconate
PTue127	**Taibi**	Kamel	Some compositions $Pb_{1-x}Ba_x(Zr_yTi_{1-y})O_3$ with very small lead content
PTue128	**Jindal**	Jitender	Structural and electrochemical impedance spectroscopic studies of anodic oxide film on zirconium fabricated in different aqueous electrolytes
PTue129	**Benhebal**	Hadj	Synthesis and Characterization of Alkali Metals-doped Tin Oxide Thin Films by Sol-Gel Process
PTue130	**Regus**	Matthias	Synthesis and In-situ X-ray Characterization of New, Metastable Cr-Sb Compounds Using Multilayered Thin Films
PTue131	**Shaqiri**	Halil	Synthesis and characterization of mixed-metal silicophosphates
PTue132	**Najjar**	Wahiba	Synthesis, characterization of ZnO and Ag-doped ZnO : Application in photocatalytic degradation of endocrine disrupting under UV irradiation
PTue133	**Rudolph**	Daniel	The First Europium(II) Oxide Hydride Iodide

PTue134	**Hartenbach**	Ingo	The Incorporation of Lithium and Silicon Cations in Yttrium Tungstate
PTue135	**Hillebrecht**	Harald	The new borosulfates $Cs_2B_2S_3O_{13}$ and $Cs_3HB_4S_2O_{14}$ - on the way to the structure of vitreous B_2O_3?
PTue136	**Cupid**	Damian	Thermochemistry of New Anode Materials based on the Li-Si-O System for Li-Ion Batteries
PTue137	**García García**	F. Javier	Oxygen dynamics in $BaFeCl_{0.130(2)}O_{2.50(2)}$
PTue138	**Villesuzanne**	Antoine	Identification of n-type and p-type transparent conducting materials from first-principles

The size of the posters should be A0 (841 × 1189 mm) maximum.

The posters should be mounted by adhesive tape.

Poster session on Monday:

Posters can be mounted from Sunday, August 23, 2015, 16.00

Posters must be removed before Tuesday, August 25, 2015, 11.00 (first coffee break)

Poster session on Tuesday:

Posters can be mounted from Tuesday, August 23, 2015, 12.00

Posters must be removed before Wednesday, August 26, 2015, 14.00