



## Monday, 19 August

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| 8am     | <b>Registration</b><br><i>Aula Parva</i>  |
| 8:30am  | <b>Opening</b><br><i>Aula Parva</i>   |
| 9am     | <b>P1 - Synthesis &amp; Processing</b><br><i>Aula Parva</i>   |
| 9am     | <b>Nanostructured ferroelectric films by chemical solution deposition</b><br>» <u>Prof. Mari-Ann Einarsrud</u>  |
| 9:45am  | <b>Coffee Break</b><br><i>Aula Parva</i>  |
| 10:15am | <b>S1-01 - Synthesis &amp; Processing</b><br><i>Aula Parva</i>  |
| 10:15am | <b>Interplay between chemistry and non-conventional sintering processes to design electroceramics at low temperature</b><br>» Dr. Catherine Elissalde, Dr. U-Chan Chung, Dr. Christopher Castro Chavarria, Ms. Nadia BENCHAREF, Dr. Bernard Plano, Prof. Graziella Goglio, Dr. Thomas Hérisson de Beauvoir, Dr. Claude Estournès, Dr. Mario Maglione, Dr. Hélène Debèda |
| 10:45am | <b>Influence of Dopants on Processing and Properties of Sodium Niobate Ceramics</b><br>» Prof. Barbara Malič, Ms. Brigit Kmet, Mr. Silvo Drnovšek, Dr. Mojca Otoničar   |
| 11am    | <b>Preparation of Pb<sub>1-x</sub>Ba<sub>x</sub>(Zr,Ti)O<sub>3</sub> piezoceramics through cold-sintering process</b><br>» Dr. Arun Ichangi, Dr. Andrea Bergamini, Dr. Frank Clemens  |

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| 11:15am | <b>Optimization challenges of KNN-based piezo ceramics: temperature stability of strain, sintering temperature and scalable processability.</b><br>» Dr. Paula Huth, Dr. Hannes Engelhardt, Mrs. Antje Kynast, Mr. Faramarz Kazemi Renani, Dr. Arno Görne, Dr. Franz Schubert  |
| 11:30am | <b>Low-temperature sintering by SPS of KNN ceramics: A study on transient flux and its effect on grain size and piezoelectric performance for efficient energy harvesting.</b><br>» Dr. Christopher Castro Chavarria, Dr. U-Chan Chung, Dr. Mario Maglione, Dr. Hélène Debèda, Dr. Catherine Elissalde                                     |
| 10:15am | <b>S2-01 - Functionalities in Electroceramics</b><br><i>Theater hall</i>   |
| 10:15am | <b>Insights into the ultrahigh electrostrain of fine-grained Ba<sub>0.85</sub>Ca<sub>0.15</sub>Ti<sub>0.9</sub>Zr<sub>0.1</sub>O<sub>3</sub> ceramics: relation with its early size effects</b><br>» Dr. Harvey Amorín, Dr. José E. García, Dr. Diego A. Ochoa, Dr. Pablo Ramos, Dr. Michel Venet, Prof. Alicia Castro, Dr. Miguel Algueró |
| 10:45am | <b>Analyzing defect properties in functional oxide ceramics by x-ray photoelectron spectroscopy</b><br>» Prof. Andreas Klein   |
| 11am    | <b>Electrical properties of ceramic-polymer composites based on bismuth manganite</b><br>» Dr. Anna Szeremeta, Dr. Maciej Zubko, Dr. Andrzej Nowok, Ms. Irena Gruszka, Prof. Sebastian Pawlus, Prof. Andrzej Molak   |
| 11:15am | <b>Sintering and Piezoelectric Properties of 3D-Printed Potassium Sodium Niobate by Binder Jetting</b><br>» Mr. Francesco Bertolini, Dr. Marco Mariani, Dr. Elisa Mercadelli, Dr. Carlo Baldisserri, Dr. Carmen Galassi, Mr. Claudio Capiani, Prof. Raffaele Ardito, Prof. Nora Lecis  |



Continued from **Monday, 19 August**

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| 11:30am | <b>Towards lower annealing temperatures and enhanced properties in aerosol-deposited piezoelectric thick films: a study of the effect of Li additive on BaTiO<sub>3</sub> films</b><br>» <u>Mr. anass chirir</u> , Dr. Oscar ROJAS, Ms. Laurence Boyer, Dr. Olivier Durand, Dr. Pascal Marchet                |
| 11:45am | <b>Lunch - Cafe of Faculty of History</b><br><i>Aula Parva</i>  |
| 1:45pm  | <b>S3-01 - Theory &amp; Modelling</b><br><i>Aula Parva</i>  |
| 1:45pm  | <b>Impact of doping conditions on the Fermi level in lead-free (anti)ferroelectrics</b><br>» <u>Prof. Karsten Albe</u> , Dr. Lorenzo Villa, Dr. Leonie Koch   |
| 2:15pm  | <b>The role of the depolarization field-driven feedback in the stochastic domain formation in uniaxial ferroelectrics</b><br>» <u>Prof. Yuri Genenko</u> , Dr. Olga Mazur, Prof. Leonid Stefanovich   |
| 2:30pm  | <b>Defect chemistry of ferroelectric perovskite lanthanum tungsten nitride</b><br>» <u>Dr. Craig Fisher</u> , Dr. Takafumi Ogawa, Dr. Hiroki Moriwake   |
| 2:45pm  | <b>Computational modeling of ferroelectric and piezoelectric plastic crystals</b><br>» <u>Dr. Elin Sødahl</u> , Prof. Julian Walker, Dr. Seyedmojtaba Seyedraofi, Prof. Carl Henrik Gørbitz, Dr. Manjunath Balagopalan, Prof. Ola Nilsen, Dr. Jesús Carrete, Prof. Georg H. K. Madsen, Prof. Kristian Berland |
| 3pm     | <b>Modeling of hysteretic response of porous piezo/ferroelectric ceramics</b><br>» <u>Mr. Radu Stirbu</u> , Prof. Liliana Mitoseriu   |
| 1:45pm  | <b>S4-01 - Structure-Property Relations</b><br><i>Theater hall</i>  |

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| 1:45pm | <b>Protons in mixed-conducting perovskites: Why, how many, and how fast?</b><br>» <u>Dr. Rotraud Merkle</u> , Dr. Maximilian Hoedl, Dr. Andrew Chesnokov, Dr. Christian Berger, Dr. Giulia Raimondi, Mr. Tolga Acartürk, Prof. Ulrich Starke, Dr. Denis Gryaznov, Prof. Eugene Kotomin, Prof. Joachim Maier          |
| 2:15pm | <b>Microstructure Control of Cathode Particle Coating Layer for Li-ion Batteries</b><br>» <u>Prof. Tomoya Ohno</u> , Prof. Shigeto Hirai, Dr. Jeevan Kumar Padrti, Prof. Takeshi Matsuda, Prof. Hisao Suzuki   |
| 2:30pm | <b>Crystallization of Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>2</sub>F<sub>3</sub> glass: In situ observation of the function of distribution of relaxation times</b><br>» <u>Dr. Edvardas Kazakevičius</u> , Prof. Algimantas Kežionis, Mr. Maciej Nowagiel, Dr. Tomasz Płociński, Prof. Tomasz K. Pietrzak |
| 2:45pm | <b>A brief overview of the impact of salts on the electrical performance of ceria-based electrolytes</b><br>» <u>Dr. João Paulo de Freitas Grilo</u> , Dr. Tao Yang  |
| 3pm    | <b>Charge injection and hysteresis loops of (anti-)ferroelectric PLZST</b><br>» Dr. Binxiang Huang, Prof. Tongqing Yang, <u>Prof. Andreas Klein</u>  |
| 3:15pm | <b>Coffee break</b><br><i>Aula Parva</i>   |
| 3:45pm | <b>S5-01 - Applications of Electroceramics</b><br><i>Aula Parva</i>  |
| 3:45pm | <b>Ceramics in membrane separation</b><br>» <u>Prof. Wojciech Kujawski</u> , Prof. Joanna Kujawa, Dr. Katarzyna Knozowska, Dr. Guoqiang Li   |
| 4:15pm | <b>Fabrication of thermoelectric module using legs produced through economic and easily scalable processes</b><br>» <u>Prof. Andres Sotelo</u> , Mrs. Parisa Amir Khizi, Dr. Maria A. Madre, Prof. Miguel Angel Torres Portero, Dr. Andrei Kovalevsky, Dr. Shahed Rasekh   |



Continued from **Monday, 19 August**

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| 4:30pm | <b>Tape casting for ultrathin Al<sub>2</sub>O<sub>3</sub> membrane production used in H<sub>2</sub>-low pressure sensors</b><br>» <a href="#">Mr. Clemens Motzkus</a>   |
| 3:45pm | <b>S4-02 - Structure-Property Relations</b><br><i>Theater hall</i>  |
| 3:45pm | <b>Exploring Structure in Lead-Free Ferroelectrics at the Atomic Level</b><br>» <a href="#">Prof. Andreja Benčan</a> , Dr. Oana Condurache, Ms. Katarina Žiberna, Prof. Goran Drazic  |
| 4:15pm | <b>Effect of Active Filler Particle Shape on Structure and Properties of Flexible, Lead-free BaTiO<sub>3</sub>-based Piezoelectric Nano Generators</b><br>» <a href="#">Mrs. Buse Muslu Kop</a> , Dr. Sakhavat Dadashov, Mr. Beytullah GÖL, Dr. A. Murat Avci, Dr. Seval Kinden, Prof. Ender SUVACI   |
| 4:30pm | <b>S2-02 - Functionalities in Electroceramics</b><br><i>Theater hall</i>  |
| 4:30pm | <b>Structural, ferroelectric and magnetic properties of Bi<sub>5</sub>Ti<sub>3</sub>FeO<sub>15</sub> Aurivillius-based multiferroic materials</b><br>» <a href="#">Dr. Jelena Bobic</a> , Dr. Nikola Ilic, Prof. Robertas Grigalaitis, Dr. Adis Džunuzović, Dr. Mirjana Vijatovic Petrovic, Dr. Ivan Stijepović, Dr. Bojan Stojadinovic, Prof. Biljana Stojanović |
| 4:45pm | <b>Poster Session</b><br><i>Aula Parva</i>  |
|        | <b>The structural and physical properties of substrate-stressed SrTiO<sub>3</sub> thin films</b><br>» <a href="#">Mrs. Noelle C. Zanini</a> , Dr. Olena Okhay, Dr. Oleksandr Tkach, Prof. Ian M Reaney, Prof. Paula M. Vilarinho  |

**Lowering the crystallization temperature of Ferroelectric thin films using laser based processing to achieve tunable microwave devices on polymer substrates**

» [Prof. James Raju K C](#)

**Enhancing Electroacoustic Performance of Sea-Shell Flextensional Piezoelectric Transducers via Texture Development**

» Dr. Ayse Yavuz, Mrs. Ezgi Yalcin, Dr. Sinan Dursun, [Prof. Sedat Alkoy](#), Prof. Ebru Mensur

**Influence of microstructure on the electrical properties of ceria-based composites for CO<sub>2</sub> separation membranes.**

» Mr. Henrique Tidei, Dr. Tao Yang, [Dr. João Paulo de Freitas Grilo](#)

**Structure and dielectric bahavior of BNT-BT piezoceramics obtained by hydrothermally synthesized powders**

» Dr. Andrea Lazić, [Dr. Jelena Vukmirović](#), Dr. Ivan Stijepović, Dr. Marija Milanović, Dr. Branimir Bajac, Mrs. Elvira Toth, Dr. Željka Cvejić, Prof. Vladimir V. Srdić

**Microstructural and dielectric properties of geopolymmer materials: A comprehensive analysis**

» [Ms. Hanane EL HAROUACHI](#), Prof. Mohammed ELGETTAFI, Mr. El Hassan YAHAKOUN, Prof. Mohamed Loutou

**Sustainable MXene-reinforced nanocomposites for sensing applications**

» Dr. Ming Dong, [Dr. Dimitrios Papageorgiou](#)

**Stereolithography of silicon carbide-based composite for electronic packages**

» [Mrs. Arpine Giloyan](#), Mrs. Marina Aghayan

**Polymer/ceramic composite materials with piezoelectric and thermoelectric properties for energy harvesting and conversion**

» Dr. Marco Fortunato, Dr. Riccardo Manfredi, Dr. Maurizio Vignolo, [Dr. Giovanna Canu](#), Prof. Lavinia Petronela Curecheriu, Dr. Andreea Irina Barzic, Dr. Mirjana Vijatovic Petrovic, Dr. Floriana Craciun, Dr. Elisa Mercadelli, Prof. Liliana Mitoseriu, Dr. Vincenzo Buscaglia, Dr. Paola Stagnaro, Dr. Maria Teresa Buscaglia



Continued from **Monday, 19 August**

#### **Investigation of electrolytes for bipolar Aqueous Sodium Ion batteries**

» Ms. Dovilė Škarnulytė, Mrs. Milda Petrulevičienė, Ms. Jurga Juodkazytė, Dr. Linas Vilčiauskas

#### **Exploring the Dielectric Dynamics of Autoclaved Aerated Geopolymers (AAG): Insights into Material Behavior nad Implications for Sustainable Materials Development**

» Prof. Mohamed Loutou, Prof. Abdelmalik El Aatiaoui, Prof. Mohamed ABOU-SALAMA

#### **Peculiarities of manganite nanoparticle formation via sol-gel polyacrylamide route**

» Mr. Evaldas Lugauskas, Mr. Dovydas Karoblis, Prof. Gediminas Niaura, Dr. Dominika Zákutná, Prof. Aivaras Kareiva

#### **The effect of KPF6 and KBF4 additives on the morphology and optical properties of CsPbBr3 perovskite**

» Mr. Shahab Khameneh asl, Mr. Behzad Abasht, Dr. Hossein Aghajani, Prof. Asghar Asgari

#### **Synthesis-Structure-Properties of the Mn-ion Based Perovskite Multiferroics**

» Prof. BOGDAN DABROWSKI, Dr. J. Więckowski, Prof. A. Szewczyk

#### **Photolithography of Self-Assembled Monolayers for Selective Area Deposition of Oxides**

» Ms. Karola Neeleman

#### **Performance Analysis of Micropatterned Solid Oxide Cells in Dry and Moist Environments**

» Mr. Mohamed Ahmed Baba, Mr. Bartłomiej Bartłomiej, Dr. Mantas Sriubas, Mr. Gazy Khatmi, Dr. Brigitta Abakevičienė, Prof. Sigitas Tamulevičius, Prof. Sebastian Molin, Dr. Tomas Tamulevičius

#### **Design Aspects of the Pulsed Electroacoustic Method for Measuring Space Charge in Ceramics**

» Mr. Xinyi Ma, Dr. Sebastian Stark

#### **Synthesis and characterization of rare-earth orthoferrite powders, coatings, and nanotubes**

» Mr. Justinas Januškevičius, Dr. Živilė Stankevičiūtė, Prof. Thomas C. K. Yang, Prof. Aivaras Kareiva

#### **PREPARATION OF TRIAXIAL PORCELAINS BY USING NATURAL MATERIALS AND EXAMINING THEIR DIELECTRIC PROPERTIES**

» Mr. Mehmet Taşyağan, Dr. Ertuğrul İzci

#### **Electrochemical reduction as potential source of the instability of electrode interface in Na<sub>1/2</sub>Bi<sub>1/2</sub>TiO<sub>3</sub>-BaTiO<sub>3</sub> piezoceramics**

» Mr. Pengcheng Hu, Dr. Binxiang Huang, Dr. Daniel Bremeyer, Prof. Jurij Koruza, Prof. Andreas Klein

#### **Stabilization of the first-order phase transition character and Enhancement of the Electrocaloric Effect by NBT substitution in BaTiO<sub>3</sub> ceramics**

» Dr. Merve Karakaya, Ms. İrem Gürbüz, Dr. Lovro Fulanović, Dr. Umut Adem

#### **STRUCTURE AND ELECTRIC PROPERTIES OF EPITAXIAL LaMnO<sub>3</sub> BASED THIN FILMS OBTAINED BY POLYMER ASSISTED DEPOSITION**

» Ms. Sara Joksović, Dr. Jelena Vukmirović, Ms. Danica Piper, Dr. Bojan Miljević, Dr. Srđan Rakić, Dr. Marija Milanović, Dr. Mirjana Novaković, Dr. Branimir Bajac, Prof. Vladimir V. Srdić

#### **Determination the Curie temperature via temperature-dependent X-ray diffraction on barium bismuth potassium titanate**

» Mr. Swen Subotic, Ms. Annika Eberwein, Ms. Tabea Weismann, Dr. Susanne Wagner, Dr. Claudia Bucharsky, Prof. Günter Schell

#### **Density Functional Theory Study of Mechanical Behavior and Thermophysical Characteristics of Sm<sub>2</sub>Zr<sub>2</sub>O<sub>7</sub> Pyrochlore.**

» Ms. Muhammad Jahangir Khan

#### **Defect energy levels of Mn- and Fe-doped BaTiO<sub>3</sub>**

» Dr. Katharina Lohaus, Mr. Denis Sudarikov, Prof. Andreas Klein



Continued from Monday, 19 August

### Designing ZnO Nanowall-Based Flexible Piezoelectric Nanogenerators for High Performance Wearable Energy Harvesters

» Ms. Gamze YÜKSEL, Mr. Beytullah GÖL, Dr. Seval Kinden, Prof. Ender SUVACI

### Ultrafast and low-cost synthesis route of Ti-based MXenes with high yields

» Ms. Jovana Paskaš, Mr. Miloš Dujović, Mrs. Elvira Toth, Mr. Marko Radenković, Mr. Milinko Perić, Ms. Milica Govendarica, Dr. Vasa Radonić, Dr. Marko Radović, Prof. Miladin Radović, Prof. Vladimir V. Srdić, Dr. Nikola Kanas

### Simultaneous increase in piezoelectric response and Curie point in BaTiO<sub>3</sub> based Pb-free piezoceramic

» Mr. Getaw Abebe Tina, Prof. Rajeev Ranjan

### Solution-derived BiFeO<sub>3</sub>-based perovskite films with potential applications in emerging technologies

» Prof. M. Lourdes Calzada, Dr. IÑIGO BRETOS, Dr. RICARDO JIMENEZ, Dr. JESÚS RICOTE, Prof. RAFAEL SIRERA, Dr. Miguel Algueró, Ms. ADRIANA BARRETO, Ms. MARIA ECHANIZ-CINTORA, Ms. Y. ANDREA RIVAS

### A modified solid-state synthesis of positive temperature coefficient of resistance ceramics based on bismuth sodium barium titanate with additions of calcium oxide

» Ms. Tabea Weismann, Ms. Annika Eberwein, Mr. Swen Subotic, Dr. Susanne Wagner, Dr. Claudia Bucharsky, Prof. Günter Schell

### Influence of synthesis and sintering on piezoelectric properties of Na0.5Bi0.5TiO<sub>3</sub>-based ceramics

» Dr. Marko Robić, Ms. Meryem Lachhab, Prof. Barbara Malić, Dr. Mojca Otoničar

### Fabrication of multilayer textured Sr-doped Ca<sub>3</sub>Co<sub>4</sub>O<sub>9</sub>/Ag laminar composites

» Dr. Maria A. Madre, Mrs. Parisa Amir Khizi, Prof. Hongchao Wang, Prof. Miguel Angel Torres Portero, Prof. Andres Sotelo, Dr. Andrei Kovalevsky, Dr. Shahed Rasekh

### Investigation of the solid-state formation reactions in (Ba,Ca)(Zr,Ti)O<sub>3</sub> piezoceramics

» Ms. Anna Paulik, Dr. Marc Widenmeyer, Dr. Marius Kremer, Ms. Anamaria Mihaeljevic, Prof. Jurij Koruza

### Closing the Loop: Maximizing the Potential of Spent Adsorbents in the Circular Economy

» Dr. Malcolm Watson, Dr. Jasmina Nikic, Dr. Mirjana Vrijatovic Petrovic, Dr. Jelena Bobic, Prof. Jasmina Agbaba

### Towards high-end photonics: enhancing orientation in novel CSBN thin layers

» Ms. Laura Van Bossele, Dr. Hannes Rijckaert, Prof. Jeroen Beeckman, Prof. Klaartje De Buysser

### Towards in-situ XPS Analysis of negative temperature coefficient spinels

» Mr. Jakob Konstantin Laux, Mr. Gero Pickel, Mr. Pengcheng Hu, Prof. Klaus Reichmann, Prof. Andreas Klein

### Ferroelectric and Magnetic Properties of Substituted BiFeO<sub>3</sub> with Rare Earth Elements

» Dr. Marianela Escobar, Mr. Ali Alhusein, Dr. Soma Salamon, Dr. Vladimir Shvartsman, Prof. Heiko Wende, Prof. Doru Lupascu

### Negative and zero thermal expansion in K0.5Bi0.5TiO<sub>3</sub>

» Ms. pooja punetha, Dr. Gobinda Das Adhikary, Prof. Pavan Nukala, Prof. Rajeev Ranjan

### Structural aspects into polarization, weak-field piezoelectric, and electrostrain responses in ergodic relaxor states of Na0.5Bi0.5TiO<sub>3</sub>-based systems

» Mr. Gudeta Jafo Muleta, Dr. Gobinda Das Adhikary, Prof. Rajeev Ranjan



Continued from **Monday, 19 August**

#### **Dielectric Studies of Bismuth Manganite Ceramic**

» Dr. Edita Palaimiene, Dr. Jan Macutkevic, Mr. Justas Čiurlys, Prof. Jūras Banys, Prof. Andrzej Molak

#### **Effect of Bi<sub>2</sub>O<sub>3</sub> additive and sintering temperature on BaCe<sub>0.7</sub>Zr<sub>0.1</sub>Y<sub>0.1</sub>Zn<sub>0.1</sub>O<sub>3-δ</sub> electrolyte material for protonic ceramic fuel cell application**

» Dr. Pradyush Satardekar, Mr. Prajval Salgaonkar, Dr. Dario Montinaro

#### **Investigation of Hexagonal Phase Stability and Ferroic Properties in Mn doped Lutetium Ferrite**

» Mrs. Andrius Pakalniškis, Prof. Gediminas Niaura, Prof. Anna Morozovska, Prof. Eugene Eliseev, Dr. Guillaume Rogez, Dr. Pierre Rabu, Dr. Shih-Wen Chen, Prof. Thomas Chung-Kuang Yang, Prof. Ramūnas Skaudžius, Prof. Aivaras Kareiva

#### **Forsterite and cordierite electroceramics by 3D printing and ceramization of novel silicone-based blends**

» Ms. Annalaura Zilio, Dr. Hamada Elsayed, Dr. Alberto Conte, Mr. Davide Peroni, Prof. Nicola Bianchi, Prof. Enrico Bernardo

#### **Influence of chemical composition variations on the properties of positive temperature coefficient of resistance ceramics based on barium titanate-bismuth sodium titanate**

» Ms. Annika Eberwein, Mr. Swen Subotic, Ms. Tabea Weismann, Dr. Susanne Wagner, Dr. Claudia Bucharsky, Prof. Günter Schell

#### **The Investigation of Impedance Spectroscopy of Various La<sub>0.67-x</sub>Na<sub>x</sub>TiO<sub>3</sub> (with 0,05 < x < 0,17) Ceramics as Candidates for the Electrostrictive Materials**

» Dr. Saulius Daugėla, Mr. Théo Grivois, Dr. Anthony Rousseau, Dr. Maud Barré

#### **Solution-derived piezoelectric modified (Ba,Ca)(Ti,Zr)O<sub>3</sub> film as a lead-free alternative.**

» Dr. Hannes Rijckaert, Prof. Paolo Mele, Prof. Jeroen Beeckman, Prof. Klaartje De Buysser

#### **Properties of La<sub>1-x</sub>NaxMnO<sub>3</sub> thin films deposited on various substrates**

» Dr. Aleksandar Radojković, Dr. Jelena Bobić, Dr. Mirjana Vijatović Petrović, Dr. Adis Džunuzović, Prof. Biljana Stojanović, Dr. Nikola Ilić, Dr. Jelena Vukmirović, Dr. Ivan Stijepović, Dr. Bojan Miljević, Prof. Vladimir V. Srđić

#### **Influence of aliovalent and isovalent dopants on the PTCR effect of BaTiO<sub>3</sub> based thermistors**

» Mr. Florian Hortmann, Dr. Christian Molin, Dr. Sylvia E. Gebhardt

#### **Properties of La<sub>1-x</sub>NaxMnO<sub>3</sub> thin films deposited on various substrates**

» Dr. Aleksandar Radojković, Dr. Jelena Bobić, Dr. Mirjana Vijatović Petrović, Dr. Adis Džunuzović, Dr. Nikola Ilić, Dr. Jelena Vukmirović, Dr. Ivan Stijepović, Dr. Bojan Miljević, Prof. Vladimir V. Srđić

#### **Cold Sintering of 0.5(BaZr<sub>0.2</sub>Ti<sub>0.8</sub>)O<sub>3</sub>-0.5(Ba<sub>0.7</sub>Ca<sub>0.3</sub>)TiO<sub>3</sub> ferroelectric ceramics with Ba(OH)<sub>2</sub>·8H<sub>2</sub>O as a Transient sintering Aid**

» Dr. Aadil Abass Shah, Mr. Samir Salmanov, Mr. Andrej Debevec, Prof. Barbara Malič, Dr. Mojca Otoničar

#### **Crystalline and Conductive Properties of ITO/Al<sub>2</sub>O<sub>3</sub> Composite Films by Aerosol Deposition**

» Mr. Kotaro Ogawa, Dr. Kenji Sakai, Prof. Shinzo Yoshikado, Prof. Yuuki Sato

#### **Development and characterization of Nd:YAG laser sensitized uncooled PbSe films for enhanced mid-IR sensitivity**

» Dr. Jovana Stanojev, Ms. Sara Joksović, Dr. Branimir Bajac, Dr. Ivana Kundacina, Dr. Jovan Matovic

#### **Electronic structure, phase formation, and defect distribution in the Ba(Ce,Fe,Acc)O<sub>3-d</sub> system**

» Dr. Rotraut Merkle, Dr. Andrew Chesnokov, Dr. Maximilian Hoedl, Dr. Denis Gryaznov, Ms. Christina Nader, Dr. Andreas Egger, Prof. Edith Bucher, Prof. Eugene Kotomin, Prof. Werner Sitte, Prof. Joachim Maier



Continued from **Monday, 19 August**

**Effect of sintering diffuse time on structure of B-Site ordered and electric properties in Li-Substituted Pb(Yb0.5Nb0.5)O3**

» Mr. CHEN KAIYUAN, Prof. ZHANG QI

**"Sodium niobate and bismuth manganate composites proposed for energy harvesting"**

» Prof. Andrzej Molak

**Piezoelectric BiFeO<sub>3</sub> thin films from metalorganic precursor solutions**

» Mr. Alexander Komar, Dr. Nicolas Godard, Dr. Marko Vrabelj, Dr. Thorsten Bayer, Prof. Klaus Reichmann

**YScS<sub>3</sub>: potential p-type transparent conducting material**

» Ms. Eleanor Teather, Ms. Polina Komar, Mr. Diego Barlettani, Prof. David Payne, Prof. Robin Perry

**Tuesday, 20 August**

8am **Registration**  
*Aula Parva*

8:30am **Introduction Day 2**  
*Aula Parva*

9am **P2 - Applications of Electroceramics**  
*Aula Parva*

9am **Light and Chemical Modulation of Grain Boundaries and Electrochemical Interfaces: New Opportunities for Improved Energy Conversion Devices**  
» Prof. Harry Tuller

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| 9:45am  | <b>Coffee Break</b><br><i>Aula Parva</i>   |
| 10:15am | <b>S5-02 - Applications of Electroceramics</b><br><i>Aula Parva</i>  |
| 10:15am | <b>Thin films as key functional layers for reversible solid oxide cells</b><br>» <u>Prof. Lucile Bernadet</u> , Prof. Fjorelo Buzi, Prof. Kosova Kreka, Prof. Natasha Di Benedetto, Prof. Federico Baiutti, Prof. Guilherme Silva, Prof. Jordi Orrit Prat, Prof. Raül Bonet, Prof. Jaume Caro, Dr. Dario Montinaro, Prof. Marc Torrell, Prof. Alex Morata, Prof. Albert Tarancón |
| 10:45am | <b>Analysis of the performance degradation of perovskite oxide electrodes in solid electrochemical cells</b><br>» <u>Prof. Jong Hoon Joo</u> , Ms. Jinsil Lee, Mr. Yonghun Shin, Mr. Taeyun Kim, Prof. Donghwa Lee, Dr. Wooseon Choi, Prof. Youngmin Kim   |
| 11am    | <b>Exploring CaVO<sub>3</sub>, SrVO<sub>3</sub> and SrMoO<sub>3</sub> Perovskites as Prospective Anode Materials for Biogas-Powered Solid Oxide Fuel Cells</b><br>» <u>Mr. Rui Pinto</u> , Dr. Aleksey Yaremchenko   |
| 11:15am | <b>Rare-earth and alkaline-earth vanadates as fuel electrodes for SOFCs</b><br>» <u>Dr. Blanca Isabel Arias Serrano</u> , Mr. Rui Pinto, Dr. Aleksey Yaremchenko   |
| 11:30am | <b>Tin-containing Silicon Oxycarbide and Oxycarbonitride Ceramic Nanocomposites as Stable Anodes for Magnesium Ion Batteries</b><br>» <u>Mr. Wuqi Guo</u> , Dr. Jun Wang, Ms. Oyku Icin, Prof. Cekdar Vakifahmetoglu, Prof. Aleksander Gurlo, <u>Dr. Maged Bekheet</u>   |
| 10:15am | <b>S4-03 - Structure-Property Relations</b><br><i>Theater hall</i>   |
| 10:15am | <b>Defect-driven electronic properties at ferroelectric and multiferroic interfaces</b><br>» <u>Prof. Dennis Meier</u>   |



Continued from **Tuesday, 20 August**

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| 10:45am | <b>Effect of pore shape on the dielectric and high field properties of BaTiO<sub>3</sub> ceramics</b><br>» Dr. Giovanna Canu, Dr. Roland Brunner, Mr. Philipp Aldo Wieser, Dr. Maria Teresa Buscaglia, Dr. Nadejda Horchidan, Prof. Liliana Mitoseriu, Dr. Marco Deluca, Dr. Vincenzo Buscaglia |
| 11am    | <b>Flash sintering as a method to enhance performance of tunable dielectric Ba<sub>0.6</sub>Sr<sub>0.4</sub>TiO<sub>3</sub> ceramics</b><br>» Dr. Oleksandr Tkach, Mrs. Camila Ribeiro, Dr. M. Elisabete Costa, Prof. Paula M. Vilarinho  |
| 11:15am | <b>Decoding structure-property connections in perovskite ferroelectric oxides via total scattering method</b><br>» Dr. Kaustuv Datta  |
| 11:30am | <b>Properties of potassium-sodium niobate processed by ultrafast high-temperature sintering</b><br>» Mr. Joao L. Miranda, Mrs. Camila Ribeiro, Dr. Oleksandr Tkach, Prof. Ana M. O. R. Senos, Prof. Paula M. Vilarinho  |
| 11:45am | <b>Lunch - Cafe of Faculty of History</b><br><i>Aula Parva</i>  |
| 1:45pm  | <b>S5-03 - Applications of Electroceramics</b><br><i>Aula Parva</i>   |
| 1:45pm  | <b>Phosphate Framework Materials for Aqueous Ion Insertion Batteries</b><br>» Dr. Linas Vilčiauskas   |
| 2:15pm  | <b>Electrochemical NO<sub>x</sub> removal: overcoming the problem of electrode passivation by oxygen using La<sub>1.5</sub>Ba<sub>0.5</sub>NiO<sub>4±δ</sub> selective electrocatalyst</b><br>» Dr. Kiryl Zakharchuk, Dr. Aleksey Yaremchenko, Dr. Andrei Kovalevsky                            |

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| 2:30pm | <b>Development of lithium-conductive inorganic and composite materials for solid-state batteries</b><br>» Prof. Anatolii Bilous, Dr. Ivan Lisovskyi, Dr. Volodymyr Khomenko, Mr. Serhiy Chernukhin, Prof. Vyacheslav Barsukov, Dr. Natalya Stryzhakova, Prof. Yurii Maletin                                   |
| 2:45pm | <b>Tribo-piezoelectric films for energy harvesting for future applications in wind and wave energy</b><br>» Mrs. Noelle C. Zanini, Ms. Bruna O. Araújo, Dr. Oleksandr Tkach, Prof. Lars R. Jensen, Prof. Paula M. Vilarinho   |
| 3pm    | <b>Materials and Manufacturing Methods for Electromagnetic Energy Harvesting Devices</b><br>» Mr. Modestas Sadauskas, Dr. Karolis Ratautas, Ms. Justina Žemgulytė, Ms. Viktorija Vrubliauskaite, Dr. Paulius Ragulis, Mr. Leonid Kovalenko, Mr. Oleg V'yunov, Prof. Anatolii Bilous, Dr. Zilvinas Kancleris   |
| 1:45pm | <b>S2-03 - Functionalities in Electroceramics</b><br><i>Theater hall</i>  |
| 1:45pm | <b>Large electromechanical coupling in Zr-doped ceria</b><br>» Prof. Anatoly Frenkel, Prof. Yue Qi, Dr. Ellen Wachtel, Dr. David Ehre, Prof. Igor Lubomirsky  |
| 2:15pm | <b>Electro-optic characterization of ferroelectric thin films for nanophotonic integrated circuits</b><br>» Prof. Jeroen Beeckman, Mr. Enes Lievens, Mr. Kobe De Geest, Mr. Ewout Picavet, Prof. Dries Van Thourhout, Prof. Klaartje De Buysser   |
| 2:30pm | <b>Functional response of acceptor and donor doped 0.9Pb(Mg<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>-0.1PbTiO<sub>3</sub> ceramics</b><br>» Dr. Andraz Bradesko, Dr. Ankita Sarkar, Dr. Lovro Fulanović, Prof. Hana Ursic, Dr. Sarunas Svirskas, Prof. Jūras Banys, Prof. Barbara Malić, Prof. Tadej Rojac |
| 2:45pm | <b>Origin of the enhanced dielectric tunability in antiferroelectric PNZST ceramics</b><br>» Dr. Nikola Novak, Ms. Vida Jurečić, Prof. Hana Ursic, Prof. Tadej Rojac, Prof. Vid Bobnar  |



Continued from **Tuesday, 20 August**

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| 3pm    | <b>Electromagnetic properties of 3D-printed carbon-BaTiO<sub>3</sub> composites</b><br>» <a href="#">Dr. Jan Macutkevic</a> , Dr. Pauline BLYWEERT, Dr. Darya Meisak, Dr. Alexander Zharov, Dr. Artyom Plyushch, Prof. Jūras Banys, Prof. Vanessa Fierro, Prof. Allain Celzard  |
| 3:15pm | <b>Coffee break</b><br><i>Aula Parva</i>  |
| 3:45pm | <b>S5-04 - Applications of Electroceramics</b><br><i>Aula Parva</i>   |
| 3:45pm | <b>Some Aspects in the Application of Electrically Conducting MAXphase-based NanoCeramics and 2D MXene Layers</b><br>» <a href="#">Prof. Arunas Ramanavicius</a> , Prof. Ilya Navitski, Prof. Sarunas Zukauskas, Prof. Simonas Ramanavicius, Prof. Alma Ručinskienė, Prof. Ernestas Brazys, Prof. Rokas Miksiunas   |
| 3:45pm | <b>S2-04 - Functionalities in Electroceramics</b><br><i>Theater hall</i>  |
| 3:45pm | <b>Low Temperature Dielectric Relaxations in Ferroelectrics, Relaxor-Ferroelectrics and Canonical Relaxors</b><br>» Ms. Yang Li, <a href="#">Prof. Andrew J. Bell</a>   |
| 4:15pm | <b>Lead-free flexible composite films: properties and potential application</b><br>» <a href="#">Dr. Mirjana Vijatovic Petrovic</a> , Dr. Francesco Cordero, Dr. Elisa Mercadelli, Dr. Nikola Ilic, Dr. Zeljko Despotovic, Dr. Jelena Bobic, Dr. Adis Dzunuzovic, Dr. Carmen Galassi, Dr. Paola Stagnaro, Dr. Giovanna Canu, Dr. Maria Teresa Buscaglia, Dr. Maurizio Vignolo, Dr. Floriana Craciun |

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| 4:30pm | <b>Homogeneity and Multifunctionality of 0.5Ba(Zr0.2Ti0.8)O<sub>3</sub>-0.5(Ba0.7Ca0.3)TiO<sub>3</sub> Ceramic Thin Films by Chemical Solution Deposition</b><br>» <a href="#">Mr. Sabi William Konsago</a> , Ms. Katarina Žiberna, Dr. Jernej Ekar, Dr. Aleksander Matavž, Prof. Janez Kovač, Prof. Andreja Benčan, Prof. Hana Ursic, Prof. Barbara Malič |
| 4:15pm | <b>S6-01 - MEMS, Tunable devices, thermistors, varistors</b><br><i>Aula Parva</i>  |
| 4:15pm | <b>lead-free PTC thermistors: high transition temperature and scalable processing</b><br>» <a href="#">Dr. Hannes Engelhardt</a> , Dr. Michael Arnold, Mrs. Tashneem Ara Islam, Dr. Arno Görne   |
| 4:30pm | <b>Temperature-dependent cation distribution in NTC thermistor spinels probed with neutron diffraction and Seebeck measurements</b><br>» Mr. Jan Dinger, <a href="#">Prof. Jörg Töpfer</a>   |

## Wednesday, 21 August

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| 8am    | <b>Registration</b><br><i>Aula Parva</i>  |
| 8:30am | <b>Introduction Day 3</b><br><i>Aula Parva</i>  |
| 9am    | <b>P3 - Functionalities in Electroceramics</b><br><i>Aula Parva</i>                                   |
| 9am    | <b>Advances in thick-film technology for novel applications</b><br>» <a href="#">Prof. Hana Ursic</a> |
| 9:45am | <b>Coffee break</b><br><i>Aula Parva</i>  |



Continued from **Wednesday, 21 August**

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| 10:15am | <b>S2-05 - Functionalities in Electroceramics</b><br><i>Aula Parva</i>  | 10:45am | <b>Synthesis and characterisation of high-quality single crystals by the contactless floating zone and pedestal methods</b><br>» <u>Dr. Milan Klicpera</u>   |
| 10:15am | <b>Quantum effects in SrTiO<sub>3</sub>: old single crystals and novel hybrids</b><br>» <u>Dr. Mario Maglione</u> , Ms. Marion Baudier-Pons, Prof. Jean-Marc Heintz, Dr. Nicolas Penin, Dr. Catherine Elissalde, Dr. U-Chan Chung, Dr. Jean-Francois Silvain, Dr. Teddy Fournier          | 11am    | <b>Challenges in producing high-quality Na<sub>0.5</sub>Bi<sub>0.5</sub>TiO<sub>3</sub>-based bulk ceramics and free-standing thick films</b><br>» <u>Dr. Marija Dunce</u> , Dr. Eriks Birks, Dr. Artyom Plyushch, Dr. Sarunas Svirskas, Mr. Arturs Atvars, Mr. Gysts Agafonovs, Ms. Madara Leimane, Prof. Jūras Banys |
| 10:45am | <b>Impedance spectroscopy study of A0.33BO<sub>3</sub> (A - La, Nd, Pr; B - Ta, Nb) perovskites</b><br>» <u>Dr. Tomas Šalkus</u> , Dr. Vilma Kavaliukė, Dr. Saulius Daugėla, Prof. Algimantas Kežionis, Dr. Edvardas Kazakevičius, Mr. Théo Grivois, Dr. Anthony Rousseau, Dr. Maud Barré | 11:15am | <b>Ceramic suspensions for vat photopolymerization of (Na<sub>1/2</sub>Bi<sub>1/2</sub>)TiO<sub>3</sub>-based lead-free piezoceramics</b><br>» Mr. Tobias Pötzelsberger, Dr. Anastasia Kucheryavaya, Dr. Max Schmallegger, Ms. Yue Liu, Dr. Lovro Fulanović, <u>Prof. Jurij Koruza</u>                                 |
| 11am    | <b>Ionic and electronic transport in co-substituted CaTi<sub>0.9</sub>Sc<sub>0.1</sub>O<sub>3-δ</sub> perovskites</b><br>» <u>Dr. Aleksey Yaremchenko</u> , Mr. Gonçalo Henriques, Mr. Rui Pinto, Dr. Atul Jamale   | 11:30am | <b>S5-05 - Applications of Electroceramics</b><br><i>Theater hall</i>  |
| 11:15am | <b>La-doped hafnia thick films prepared by aerosol deposition method</b><br>» <u>Dr. Alaka Panda</u> , Prof. Tadej Rojac, Dr. Soukaina Merselmiz, Ms. Ivana Gorican, Prof. Hana Ursic   | 11:30am | <b>Impact of the solvent in electrophoretic deposition of protective coating for SOC stacks</b><br>» <u>Mrs. Monika Łazor</u> , Prof. Yevgeniy Naumovich, Dr. Agnieszka Żurawska, Mr. Leszek Ajdys, Prof. Paulina Wiecińska  |
| 11:30am | <b>Hafnium zirconium oxide based ferroelectric tunnel junctions</b><br>» <u>Prof. Tseung-Yuen Tseng</u>   | 11:45am | <b>Lunch - Cafe of Faculty of History</b><br><i>Aula Parva</i>   |
| 10:15am | <b>S1-02 - Synthesis &amp; Processing</b><br><i>Theater hall</i>  | 1:45pm  | <b>S3-02 - Theory &amp; Modelling</b><br><i>Aula Parva</i>   |
| 10:15am | <b>New insights on the solid-state synthesis of (Ba,Sr)TiO<sub>3</sub> and BiFeO<sub>3</sub> from in situ X-ray diffraction</b><br>» <u>Prof. Jacob Jones</u> , Dr. Corrado Wesley, Dr. Tom Rowe, Dr. Jennifer Forrester  | 1:45pm  | <b>Analysis of local vs. macroscopic properties of porous ferroelectrics based on 3D reconstructed ceramic microstructures</b><br>» Dr. Leontin Padurariu, Mr. Radu Stirbu, Dr. Fereshteh Falah Chamasemani, Dr. Roland Brunner, Dr. Vlad Alexandru Lukacs, Dr. Cristina Elena Ciomaga, <u>Prof. Liliana Mitoseriu</u> |
|         |   | 2:15pm  | <b>Diffuse scattering and PDF analysis not only with neutrons</b><br>» <u>Dr. Jiri Kulda</u>   |



Continued from **Wednesday, 21 August**

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| 2:30pm | <b>Influence of the initial disorder on the stochastic formation of ferroelectric domain structure</b><br>» <u>Dr. Olga Mazur</u> , Prof. Yuri Genenko, Prof. Leonid Stefanovich  |
| 1:45pm | <b>S1-03 - Synthesis &amp; Processing</b><br><i>Theater hall</i>  |
| 1:45pm | <b>Electroceramics by unconventionally low fabrication temperatures, current state and future perspectives</b><br>» <u>Prof. Jari Juuti</u> , Prof. Mikko Nelo, Prof. Tuomo Siponkoski, Prof. Maria Väätäjä, Prof. Jenni Ylä-Mella, Prof. Eva Pongracz, Prof. Heli Jantunen |
| 2:15pm | <b>Adsorption controlled growth of homoepitaxial c-plane sapphire films</b><br>» <u>Dr. Felix Hensling</u> , Mrs. Lena Majer, Prof. Jochen Mannhart   |
| 2:30pm | <b>Synthesis of electro-heating materials made from sewage sludge</b><br>» <u>Dr. Jorge Luis Hernandez Morelos</u> , Dr. Marina Vlasova, Dr. Pedro Antonio Márquez Aguilar  |
| 2:45pm | <b>Anisotropic 0-3 Piezocomposites with Anisometric Single-Crystalline Filler Particles Crystallographically Oriented by Dielectrophoresis Method</b><br>» Mr. Hüseyin Alptekin Sarı, <u>Prof. Sedat Alkoy</u>  |
| 3pm    | <b>Potassium sodium niobate solid-state powder synthesis and its challenges</b><br>» <u>Dr. Soňa Hříbalová</u> , Ms. Anna Mašlová, Ms. Sofiia Zadniprianska   |
| 3pm    | <b>S2-06 - Functionalities in Electroceramics</b><br><i>Aula Parva</i>  |
| 3pm    | <b>Electrical conductivity of (Na,Bi)TiO<sub>3</sub> with different BaTiO<sub>3</sub> content</b><br>» <u>Mr. Pengcheng Hu</u> , Dr. Daniel Bremicker, Prof. Jurij Koruza, Dr. Mohammad Amirabbasi, Dr. Jochen Rohrer, Prof. Andreas Klein                                  |

5pm      **Visit of the Palace of the Grand Dukes**  
*Aula Parva*

6:30pm    **Gala Dinner - Palace of the Grand Dukes**  
*Aula Parva*

**Thursday, 22 August**

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| 8:30am | <b>Introduction Day 4</b><br><i>Aula Parva</i>  |
| 9am    | <b>S4-04 - Structure-Property Relations</b><br><i>Aula Parva</i>  |
| 9am    | <b>Defects and domain walls in uniaxial ferroelectrics</b><br>» <u>Prof. Sverre M. Selbach</u>  |
| 9:30am | <b>Influence of Redox Treatments on Fermi Level, Electronic and Structural Properties of SrFeO(3-d) Thin Films</b><br>» <u>Mr. Gero Pickel</u> , Ms. Yue Liu, Prof. Andreas Klein   |
| 9:45am | <b>Fabrication and characterization of highly oriented bilayer thin films based on LaSrMnO<sub>3</sub>/BaSrTiO<sub>3</sub></b><br>» <u>Ms. Danica Piper</u> , Dr. Jelena Vukmirović, Ms. Sara Joković, Dr. Marija Milanović, Dr. Ivan Stijepović, Dr. Bojan Miljević, Dr. Srđan Rakić, Dr. Mirjana Novaković, Prof. Vladimir V. Srdić |
| 9am    | <b>S5-06 - Applications of Electroceramics</b><br><i>Theater hall</i>   |
| 9am    | <b>Optical control of dielectric permittivity in widegap aluminates</b><br>» <u>Prof. Hiroki Taniguchi</u>  |
| 9:30am | <b>Lead-free Piezoceramic Materials for Transducer Applications</b><br>» <u>Mr. William Schulz</u> , Prof. Andrew J. Bell   |



Continued from **Thursday, 22 August**

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| 9:45am  | <b>Development of Flexible, Lead Free Piezoelectric Nanogenerators with Improved Properties via BaTiO<sub>3</sub> Nanowires Incorporation into Polyvinyl Chloride Matrix</b><br>» <a href="#">Dr. Sakhavat Dadashev</a> , Mr. Beytullah GÖL, Dr. Seval Kinden, Prof. Ender SUVACI | 11am    | <b>Electrical conductivity relaxation related to mixed valence ions and a structurally disordered state in Bi-Mn-O-based ceramics proposed for energy harvesting</b><br>» <a href="#">Prof. Andrzej Molak</a>  |
| 10am    | <b>Flexible piezoelectric composite based on lead-free electrospun fibers and PDMS matrix</b><br>» <a href="#">Dr. Frank Clemens</a> , Dr. Arun Ichangi, Prof. Sanjay Mathur  | 11am    | <b>S1-04 - Synthesis &amp; Processing</b><br><i>Theater hall</i>   |
| 10:15am | <b>The effect of various cationic substitutions on the dielectric, and impedance spectroscopy study of Na<sub>0.5</sub>Bi<sub>0.5</sub>TiO<sub>3</sub> based electroceramics</b><br>» Dr. Abdul Manan, Mr. Aamir Jalil, <a href="#">Prof. Michael T. Lanagan</a>                  | 11am    | <b>High-Entropy Oxide and Alloy Nanoparticles Synthesized by Continuous Supercritical Hydro/Solvothermal Flow Process</b><br>» <a href="#">Prof. Hiroshi Kitagawa</a>  |
| 10am    | <b>S2-07 - Functionalities in Electroceramics</b><br><i>Aula Parva</i>  | 11:30am | <b>FAST/SPS as a manufacturing technique for K-ion cell components</b><br>» <a href="#">Ms. Wiktoria Krzyżaniak</a> , Dr. Mateusz Marczewski, Prof. Jarosław Jakubowicz, Dr. Dariusz Garbiec   |
| 10am    | <b>Tunable metacomposites properties in Ag-BaTiO<sub>3</sub> CERMETs by microstructural design</b><br>» Dr. Ina Turcan, Dr. Vlad Alexandru Lukacs, Mr. Radu Stirbu, Dr. Cristina Elena Ciomaga, <a href="#">Prof. Liliana Mitoseriu</a> , Dr. Donatella Giuranno                  | 11:30am | <b>S2-08 - Functionalities in Electroceramics</b><br><i>Aula Parva</i>   |
| 10:15am | <b>Design Aspects of the Pulsed Electroacoustic Method for Measuring Space Charge in Ceramics</b><br>» <a href="#">Mr. Xinyi Ma</a> , Dr. Sebastian Stark   | 11:30am | <b>Electrocaloric properties and phase transition character of the B-site substituted BaTiO<sub>3</sub>-rich BaTiO<sub>3</sub>-Na<sub>0.5</sub>Bi<sub>0.5</sub>TiO<sub>3</sub> solid solutions</b><br>» Mr. Oğuz Akkaşoğlu, Dr. Merve Karakaya, Dr. Lovro Fulanović, <a href="#">Dr. Umut Adem</a> |
| 10:30am | <b>Coffee Break</b><br><i>Aula Parva</i>  | 11:45am | <b>Influence of Ni-Cu substitution and uneven element content on electrical properties of High Entropy Oxides</b><br>» <a href="#">Ms. Daria Pankratova</a> , Dr. Khabib Yusupov, Dr. Alberto Vomiero  |
| 11am    | <b>S4-05 - Structure-Property Relations</b><br><i>Aula Parva</i>  | 12pm    | <b>Investigating point defects, conduction mechanisms and piezoelectricity in 0.67BiFeO<sub>3</sub>-0.33BaTiO<sub>3</sub> ceramics</b><br>» <a href="#">Dr. Antonio Iacomini</a> , Mrs. Maja Koblar, Prof. Tadej Rojac   |
|         |   | 12:15pm | <b>Study and development of high permittivity dielectric materials for RFID applications</b><br>» <a href="#">Mr. Tom Rautureau</a> , Dr. Pascal Marchet, Dr. Pierre-Marie Geffroy, Dr. Fabrice Rossignol, Mr. Arnaud carle  |
|         |   | 11:45am | <b>S6-02 - MEMS, Tunable devices, thermistors, varistors</b><br><i>Theater hall</i>  |



Continued from **Thursday, 22 August**

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| 11:45am | <b>PTCR behavior of lead-free BNBT-based thermistor ceramics</b><br>» <u>Mr. Jörg Friedrich</u> , Prof. Jörg Töpfer  |
| 12pm    | <b>Microstructural and electrical characteristics of ZnO-Cr<sub>2</sub>O<sub>3</sub>-based varistor ceramics</b><br>» <u>Prof. Slavko Bernik</u> , Dr. Tian Tian, Dr. Matejka Podlogar, Dr. Guorong Li |
| 12:15pm | <b>S4-06 - Structure-Property Relations</b><br><i>Theater hall</i>   |
| 12:15pm | <b>Reducing leakage current and enhancing dielectric properties of isovalent-substituted lead-free NBT perovskite</b><br>» <u>Dr. Fatima CHAOU</u> , Prof. Mohamed ABOU-SALAMA                         |
| 12:30pm | <b>Closing</b><br><i>Aula Parva</i>  |