

| Monday 27th January / afternoon | |
|---|---|
| | |
| from 13H15 | Distribution of Badges |
| 13H45 - 14H00 | Opening comments |
| | |
| | Session High Pressure / Chair Simon Clarke |
| 14H00 - 14H20 | Cédric Tassel, Univ. Bordeaux High pressure synthesis of new fluoride mixed anion materials |
| 14H20 - 14H40 | Kantaro Murayama, Univ. Kyoto High-Pressure Synthesis of New Compounds and Anion-Redox Chemistry |
| 14H40 - 15H00 | Artem Gabov, Univ. Kyoto Bond manipulation and band engineering by biaxial tensile strain in triple fluorite layered compounds |
| 15H00 - 15H20 | Angel-M. Arevalo-Lopez, Univ. Lille High-pressure polymorphs and properties in the AVO_3 (A = Mn and Co) oxides. |
| 15H20 - 15H40 | Yao Yuan, Univ. Kyoto High-Pressure Synthesis of New Nitrides with High Oxidation States |
| | |
| 15H40-16H10 | Coffee-Break |
| | |
| | Session Methods / Chair Joke Hadermann |
| 16H10-16H30 | Sepideh Rahimi, Univ. Antwerpen TEM techniques to study oxychalcogenides |
| 16H30-16H50 | Kozaki Shumma, Univ. Kyoto Trapping a Transient State during Topochemical Reaction |
| 16H50-17H10 | Yasuto Noda, Univ. Kyoto Solid-state NMR for mixed-anion compounds |
| 17H10 - 17H40 | Helies Hyrondelle, Univ. Bordeaux Unveiling the OH/F order in Mg & Zn-based hydroxyfluorides : correlation between the anionic distribution and the physico-chemical properties |
| 17H40-20H00 | Poster Session + buffet and drinks |

| | |
|--|---|
| | |
| Tuesday 28th January / morning | |
| | |
| | Session Hydrides and more / Chair Hiroshi Kageyama |
| 9H00-9H20 | Michael Hayward, Univ. Oxford The chemistry and magnetism of iridium-containing oxyhydride phases |
| 9H20-9H40 | Sophie Tencé, Univ. Bordeaux oxyhydride synthesis through water dissociation on electride intermetallics |
| 9H40-10H00 | Tatsuya Tsumori, Univ. Kyoto Electride formation induced by negative chemical pressure |
| 10H00-10H20 | Tsujimoto Yoshihiro, NIMS Tsukuba Rational design of chloride ion transport channels using a open borate framework |
| 10H20-10H40 | Romain Wernert, Univ. Oxford Manipulating the anion sublattice of Ruddlesden-Popper compounds |
| | |
| 10H40-11H10 | Coffee-Break |
| | |
| | Session Theory/ Chair Xavier Rocquefelte |
| 11H10-11H30 | Linda Reitz, Univ. Aachen Quantum chemical exploration of the crystal structures of small molecules under high pressure |
| 11H30-11H50 | Suguru Yoshida, Univ. Kyoto Symmetry and Crystallochemistry of Polyhedral Tilting in Solids |
| 11H50-12H10 | Wenhao Sun, Univ. Michigan Origin of the reaction temperature in solid-state materials synthesis |
| 12H10-12H30 | Emily Oliphant, Univ. Michigan From bands to bonds: real space covalent bonds from density functional theory |
| | |

| Tuesday 28th January / afternoon | |
|--|---|
| | Session Oxo-Fluorides / Chair Richard Dronskowski |
| 14H00-14H20 | Victor Duffort, Univ. Lille Exploring the structures of zirconium based oxyfluoride Aurivillius phases |
| 14H20-14H40 | Hiroshi Takatsu, Univ. Kyoto Anion Engineering in Transition Metal Oxides via Ionic Liquid-Gating Fluorination |
| 14H40-15H00 | Jonas Wolber, Univ. Lille Update on the high temperature behavior of the n=1 iron Aurivillius oxyfluoride |
| 15H00-15H20 | Alain Demourgues, Univ. Bordeaux Strong kinetic effects in the order–disorder transformation of Cu ²⁺ hydroxyfluorides and impact on magnetic properties |
| 15H20-15H40 | Truong Thinh, Univ. Bordeaux Exploration of topotactic fluorination of LaScSi electriles |
| | |
| 15H40-16H40 | Coffee Break + Poster session |
| | |
| | Session Electro-Photo Catalysis / Chair Stephane Jobic |
| 16H40-17H00 | Hajime Suzuki, Univ. Kyoto Development and optimization of layered oxyhalide photocatalysts for water splitting under visible light |
| 17H00-17H20 | David Portehault, Univ. Sorbonne Covalence and charge distribution in nanoscaled transition metal silicoborides and silicophosphides: syntheses in molten salts and electrocatalytic properties |
| 17H20-17H30 | Issei Yamamoto, Institute of Science Tokyo Electrochemical CO ₂ reduction using perovskite type oxyhydrides |
| 17H30-17H50 | Ryu Abe, Univ. Kyoto Mixed-Anion Photocatalysts for Visible-Light-Induced Water Splitting |
| | |
| from 20H15 | Restaurant Les Casseroles Lilloises / see website |
| | |

| Wednesday 29th January Morning | |
|--|---|
| | |
| | Session Chalcogenides / Chair Pascal Roussel |
| 9H30-9H50 | Lemuel Crentsil, Univ. Oxford Structural modulations in layered oxysulfides |
| 9H50-10H10 | Divyesh Parmar, Univ. Nantes Optimization of thermoelectric properties of misfit layered sulphide by compositional tuning |
| 10H10-10H30 | David Berthebaud, Univ. Nantes Structure and Transport Properties Relationships in Pseudo-Hollandite Chalcogenide Materials for Thermoelectricity |
| | |
| 10H30-11H00 | Coffee break 10H30-11H00 |
| | |
| | Session Synthesis / Chair Laurent Cario |
| 11H00-11H20 | Guillaume Dubois, Univ. Rennes Transition Metal Carbides and Nitrides Syntheses by Cluster Route as Catalyst for Hydrogen Evolution Reaction |
| 11H20-11H40 | Yuki Sasahara, Univ. Kyoto One-Step Topochemical Synthesis of Oxynitrides |
| 11H40-12H00 | Cédric Teyssédou, Univ. Lille Electrolytic Micro-Capacitors Based on Tantalum Films for High Voltage Applications |
| 12H00-12H20 | Guillaume Gouget, Univ. Rennes Looking for Brigitte: a strategy to stabilize molybdenum clusters with p-block elements |
| | |
| 12H20-13H00 | Closing Comments + take-away lunch |