Program of CNRS-NIMS online introductory workshop

As of 30th March Final version

Moderator: Dr. Tomonobu NAKAYAMA (Director, Division of International Collaborations and Public Relations, NIMS)

Dr. Elisabeth BLANQUET (April 12th) / Dr. Thierry LOISEAU (April 15th) (Scientific Delegates at CNRS Chemistry, CNRS Head Office) Holding dates of online workshop; Friday 12th April and Monday 15th April

Online meeting tool: zoom meeting hosted by NIMS

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| **First day (Friday, 12th April)** |  | | | |
| 15:00 to 15:05 (JST)  8:00 to 8:05 (Paris time)  Opening remarks | Dr. Tomonobu NAKAYAMA Director, NIMS | |  | |
| 15:05 to 15:15 (JST)  8:05 to 8:15 (Paris time)  Topic 1: Spintronics | Dr. Claire BARADUC (SPINTEC (Univ. Grenoble Alpes/CNRS/CEA)) and  Dr. Tomoya NAKATANI (Research Center for Magnetic and Spintronic Materials, NIMS)  Title: Tunnel Magnetoresistance Sensors for Space Applications | | |  |
| 15:15 to 15:25 (JST)  8:15 to 8:25 (Paris time)  Topic 2:  Thermoelectric materials | Dr. David BERTHEBAUD (CNRS & Nantes Univ.) and Dr. Takao MORI (MANA, NIMS)  Title: Fruitful thermoelectric collaboration of NIMS and CNRS | | |
| 15:25 to 15:35 (JST)  8:25 to 8:35 (Paris time)  Topic 3:  Spectroscopy of point defects in wide bandgap semiconductors | Dr. Jacek KASPRZAK (CNRS & Univ. Tsukuba) and Dr. Tokuyuki TERAJI (Research Center for Electronic and Optical Materials, NIMS)  Title: Optical Coherence of Quantum Emitters in Diamond Photonic Structures | | |
| 15:35 to 16:05 (JST)  8:35 to 9:05 (Paris time)  Topic 4:  Luminescence & vibrational properties | Dr. Camille LATOUCHE (Nantes Univ.)  Title: Ab initio simulations of the luminescence and vibrational properties in solids. | Dr. Tadaaki NAGAO (MANA, NIMS)  Title: Carbon Dots as Sustainable Materials for UV Screener, Direct White Light Emitter, and Laser | |
| 16:05 to 16:35 (JST)  9:05 to 9:35 (Paris time)  Topic 5:  Chemistry first approach with the pioneer use of other solvents than water in super critical conditions | Dr. Cyril AYMONIER  (CNRS & Bordeaux Univ.)  Title: Chemistry in supercritical fluids in the field of materials science | Dr. Lok Kumar SHRESTHA (MANA, NIMS)  Title: Supramolecular Assembly of Fullerene for Sensing, Energy Storage, and Beyond | |
| 16:35 to 17:05 (JST)  9:35 to 10:05 (Paris time)  Topic 6:  Electrocatalysis (ORR, HER, MOR) | Dr. Corinne LAGROST  (CNRS & Rennes Univ.)  Title: Molecular grafting of noble metal nanocatalysts for tailoring ORR and MOR performances | Dr. Hidenori NOGUCHI (GREEN, NIMS)  Title: Investigation of Interfacial Structure of Electrode/Electrolyte Interfaces by Nonlinear Spectroscopic Techniques | |
| **Second day (Monday, 15th April)** |  | | |
| 15:00 to 15:10 (JST)  8:00 to 8:10 (Paris time)  Topic 1:  Device physics on wide bandgap semiconductors | Dr. Julien PERNOT (CNRS & Univ. Grenoble Alpes) and Dr. Satoshi KOIZUMI (Research Center for Electronic and Optical Materials, NIMS)  Title: Carrier Mobility Characteristics of Doped Diamond | | |
| 15:10 to 15:20 (JST)  8:10 to 8:20 (Paris time)  Topic 2:  Nanocomposites, coatings | Dr. Fabien GRASSET (CNRS-LINK, NIMS) and Dr. Hiroyo SEGAWA (Research Center for Electronic and Optical Materials, NIMS)  Title: Materials for Energy and Environment applications: Program A of LINK | | |
| 15:20 to 15:30 (JST)  8:20 to 8:30 (Paris time)  Topic 3:  Multiferoic magnetic materials | Dr. Claire COLIN (CNRS) and Dr. Noriki TERADA (Research Center for Magnetic and Spintronic Materials, NIMS) Title: Recent Research for Multiferroic and Magnetocaloric Materials under NIMS-CNRS Collaboration | | |
| 15:30 to 15:40 (JST)  8:30 to 8:40 (Paris time)  Topic 4:  Micro/nano-mechanics | Dr. Szilvia KALACSKA (CNRS, École des Mines de Saint-Étienne) and Dr. Thomas E. J. EDWARDS (Research Center for Structural Materials, NIMS)  Title: 3D Mapping of Stress and Crystal Defect Structures in Metallic Bicrystal Micro-testpieces by n3D-XRD-CT. | | |
| 15:40 to 16:20 (JST)  8:40 to 9:20 (Paris time)  Topic 5:  Synthesis of mixed-anion compounds and layered materials | Dr. Shunsuke SASAKI (CNRS & Nantes Univ.)  Title: Materials design by anionic redox topochemistry | Dr. Takaaki TANIGUCHI (MANA, NIMS)  Title: Highly Crystalline Conducting Nanosheets Synthesized via Chemical Exfoliation | | Dr.Renzhi MA (MANA, NIMS)  Title: Synthesis of Metal Hydroxide Nanosheets and Composites for Alkaline Energy Application |
| 16:20 to 16:30 (JST)  9:20 to 9:30 (Paris time)  International collaboration tools of CNRS | Dr. Jacques MALEVAL (Director of the CNRS office at Tokyo) | | |  |
| 16:30 to 16:35 (JST)  9:30 to 9:35 (Paris time)  Closing remarks | Dr. Thierry LOISEAU (Scientific Delegate at CNRS Chemistry, CNRS Head Office/ Univ. Lille) | | |