

JST-ライプニッツ協会(独)共同ワークショップ 2017

JST-Leibniz Association Joint Workshop on Advanced Material Sciences

JSTは、ドイツのライプニッツ協会と包括連携協定を結んでおり、これに基づく共同ワークショップを2017年9月にドイツにて開催する予定です。JST 濱口理事長、ライプニッツ協会クライナー会長を含め、40-50名程度が参加の見込みであり、有識者として CREST 次世代フォトニクス領域の北山研一総括及びライプニッツ高分子研究所(ドレスデン)の Brigitte Voit 教授に共同議長をお願いしています。

プログラム

Wednesday, 20 September

17:30-18:30 Visit of labs of IPF
18:30-20:30 **Networking Reception**

Thursday, 21 September

9:00-9:15 **Greetings**

- Prof. Dr.-Ing. Matthias Kleiner, President, Leibniz Association
- Dr. Michinari Hamaguchi, President, Japan Science and Technology Agency (JST)

Session I: Photonics and Engineering of Photoluminescent Materials

Chairs: Prof. Dr. Thomas Schröder (IHP), Prof. Kenichi Ishikawa (The University of Tokyo)

9:15-10:50 (4 speakers)

11:20-12:55 (4 speakers)

- Dr. Tobias Schulz (IKZ): "InGaN structure at the atomic scale - correlation to optical properties"
- Prof. Dr. Oliver G. Schmidt (IFW): „Nano- and quantum photonics with membranes and dots “
- Prof. Giovanni Capellini (IHP): “Tensile strained Ge as active gain medium for Si CMOS compatible lasers”
- Prof. Dr. Mikhail Ivanov (MBI): “High harmonic generation spectroscopy of ultrafast phase transitions in strongly correlated solids”
- Dr. Masahiro Nakano (Osaka University): Development of a genetically encoded thermometer
- Prof. Kenichi Ishikawa (The University of Tokyo): Ab initio strong field physics
- Prof. Akira Oiwa (Osaka University): Photon-spin Poincaré interface using electron spins in quantum dots
- Prof. Motoaki Iwaya (Meijo University): Current status and expectation of AlGaIn UV lasers

14:00-14:15 Anne Schmitz (DFG): “Funding Possibilities for German-Japanese Research”

Session II: Polymers, Nano Science and Photonics

Chairs: Prof. Dr. Brigitte Voit (IPF), Dr. Takashi Uemura (Kyoto University)

14:15-15:50 (4 speakers)

16:15-17:50 (4 speakers)

- Prof. Dr. Andreas Fery (IPF): “Plasmonic materials made from nanoparticles assembly”
- Prof. Dr. Brigitte Voit (IPF): “Polymers for Optoelectronic Applications”

- Prof. Dr. Martin Möller (DWD): “Light driven microgel objects – motion out of equilibrium”
- Dr. Camelia Miron (INP): "Structural modification of fluorescent polymer nanocomposites treated by plasma in liquids for electroluminescent devices"
- Dr. Yumoto (Kyoto University): “Lead-halide perovskites: a new solution-processed semiconductor for photonics”
- Dr. Takashi Uemura (Kyoto University): “Polymer Chemistry in Coordination Nanospaces”.
- Dr. Takane Imaoka (Tokyo Institute of Technology): “Monodisperse macromolecular metal complexes: A new pathway to atom-precise clusters”
- Dr. Kei Saito (Monash University): "Photo-responsive Dynamic Polymers and Their Applications"

19:30 – 22:00 Dinner (Restaurant Körnergarten)

Friday, 22 September

Session III: *(Nano)measurement technologies, including Terahertz range*

Chairs: Prof. Dr. Volker Deckert (IPHT), Prof. Akira Furusawa (The University of Tokyo)

9:00 – 10:35 (4 speakers)

11:00 – 12:15 (3 speakers)

- Dr. Dana Cialla-May (IPHT): “Surface enhanced Raman spectroscopy (SERS) in bioanalytical and biomedical applications“
- Prof. Dr. Norbert Esser (ISAS): "Raman at interfaces “
- PD Dr. Karsten Hinrichs (ISAS): “Optofluidik and Nanopolarimetry: IR detection of molecular interfaces and interactions“
- Prof. Dr. Volker Deckert (IPHT): “Nanoscale spectroscopy”
- Prof. Akira Furusawa (The University of Tokyo): “Hybrid quantum information processing: A way for large-scale optical quantum information processing”
- Dr. Tomohiro Amemiya (Tokyo Institute of Technology): “Optical metamaterials for advanced photonic devices”
- Dr. Masaya Notomi (Nippon Telegraph and Telephone Corporation): “Integrated Nanophotonics for Optical Computation”

12:15 – 13:20 Lunch

13:20 – 14:20 Review & General Discussion

14:20 – 14:30 Closing remarks

Posters:

Dr. Petra Pötschke (IPF): “Polymer nanocomposites for thermoelectric applications”

Dr. Katja Fricke (INP): “Thin Plasma Polymer Films for Biosensor Applications”