

April 22nd 2022
8:30 am (CEST) /
3:30 pm (JST)

Quantum Technologies for Quantum Communication & Laser Technologies for Battery Research and Manufacturing

Online Technology Seminar - Photonics Cluster Berlin Brandenburg

Workshop

April 22nd 2022 | PROGRAMME

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| 8:30 am 03:30 pm | Welcome and Introduction to the Photonics & Optoelectronics Network (PHOENIX) Gerrit Rössler, Berlin Partner for Business and Technology |
| Part 1: Quantum Technologies – Quantum Communications | |
| 08:40 am 03:40 pm | Quantum key distribution systems for future-proof information security in communication networks Dr. Nino Walenta, Fraunhofer HHI |
| 08:55 am 03:55 pm | Overview of Quantum Communication Technology in SIP CAO, Japan PhD Masahide Sasaki, Director General, Quantum ICT Collaboration Center, National Institute of Information and Communications Technology |
| 09:10 am 04:10 pm | Single photon counting in optical quantum technologies Uwe Ortmann, Torsten Langer, PicoQuant GmbH |
| 09:25 am 04:25 pm | High performance laser diodes for quantum applications Dr. Markus Schütz, eagleyard Photonics GmbH |
| 09:40 – 10:00 am 04:40 – 05:00 pm | Coffee Break |
| Part 2: Laser Technologies for Battery Research and Manufacturing | |
| 10:00 am 05:00 pm | Femtosecond laser for surface structuring of new electrode materials Prof. Wolfgang Schade, Fraunhofer HHI, Clausthal University of Technology |
| 10:15 am 05:15 pm | The Most Sustainable Batteries from Agricultural Byproducts, No Nickel, No Cobalt. Inketsu Okina, PJP Eye Ltd. |
| 10:30 am 05:30 pm | Laser welding solutions for battery and EV manufacturing Thomas Heyn, HIGHYAG Lasertechnologie GmbH, II-VI Incorporated |
| 10:45 am 05:45 pm | New Frontier of Industrial Laser Processing Based on State-of-the-Art Photonics and Quantum Computing Technology PhD Koji Yasui, Senior Chief Technologist, Mitsubishi Electric Corporation |
| 11:00 am 06:00 pm | Cyber-Physical System for laser manufacturing Prof. Yohei Kobayashi, The University of Tokyo |
| 11:15 am 06:15 pm | Wrap up & closing remarks |

The workshop will be held in ENGLISH. Participation is free of charge. Please register [here](#) until April 21st, 2022.

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PHOENIX
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