

# CONFERENCE PROGRAM

(as of 10/26/2020)

Time Zone, Paris, France (UTC+1)

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## **Graphene and other 2D Materials – 9:00 - 10:50**

Chairman: *Jérémy Brites (HORIBA)*

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**9:00 - 9:30 – Ping-Heng Tan** / Institute of Semiconductors, Chinese Academy of Sciences / China  
**Plenary Speaker**

*The technique of ultralow-frequency Raman spectroscopy and its application in 2D Materials*

**9:30 - 9:50 – Mahfujur Rahaman** / Technische Universität Chemnitz / Germany

*Brightening the Dark Excitons in 2D Systems*

**9:50 - 10:10 – Otakar Frank** / J. Heyrovsky Institute of Physical Chemistry / Czech Republic

*Raman and PL Spectroscopy of 2D Materials: Resolution Matters*

**10:10 - 10:30 – Zhengzong Sun** / Fudan University / China

*Precise Editing on Graphene Surface*

**10:30 - 10:50 – Kaiyuan Yao** / Columbia University / USA

*Nanoscale second harmonic generation investigations of 2D materials*

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## **Thin Films & Semiconductors devices, Part I – 11:00 - 12:30**

Chairman: *Patrick Chapon (HORIBA)*

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**11:00 - 11:30 – Patrick Maletinsky** / University of Basel / Switzerland

**Plenary Speaker**

*Nanoscale magnetometry with single spins*

**11:30 - 11:50 – Hendrik Spende** / TU Braunschweig, Inst. for Semiconductor Technology / Germany

*PP-TOFMS: Use Cases in Semiconductor Technology*

**11:50 - 12:10 – Zhaoying Chen** / Ohio State University / USA

*Quantitative defect analysis in MOCVD GaN-on-GaN using cathodoluminescence*

**12:10 - 12:30 – Ina T. Martin** / Case Western Reserve University / USA

*Active Control of Interfaces in Thin Film Solar Cells for Performance and Stabilization*

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**Luncheon discussion: The HORIBA new solutions – 1:00 - 2:00**

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**Thin Films & Coatings, Part II – 2:00 - 3:40**

Chairman: Jean-Paul Gaston (HORIBA)

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**2:00 - 2:20 – Carlos D.S. Brites** / CICECO - Aveiro Institute of Materials / Portugal

*Simultaneous measurement of the emission quantum yield and local temperature: the illustrative example of SrF<sub>2</sub>:Yb<sup>3+</sup>/Er<sup>3+</sup> single crystals*

**2:20 - 2:40 – Adrien Couet** / University of Wisconsin Madison / USA

*Investigation of materials degradation in extreme environments using GDOES*

**2:40 - 3:00 – Pavel Bulkin** / CNRS / France

*Protective coatings for front surface silver mirrors with some characterization by Spectroscopic Ellipsometry and GD-OES*

**3:00 - 3:20 – Dhananjay Sharma** / University of Aveiro / Portugal

*Growth of Pristine Diamond and Boron Doped Diamond and Characterizations via pulsed RF Glow Discharge*

**3:20 - 3:40 – Vadim Sedov** / Wonder Technologies LLC / Russia

*Photo- and X-ray luminescent diamond composites with integrated rare earth nanoparticles*

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**Nanocrystals, Nanoparticles & Quantum Dots – 4:00 - 5:50**

Chairman: Marc Chaigneau (HORIBA)

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**4:00 - 4:30 – Randy Sabatini** / University of Toronto / Canada

**Plenary Speaker**

*PL, PLE, PLQY and TCSPC – the simple but powerful characterization suite for material development of nanocrystals*

**4:30 - 4:50 – Denis Spitzer** / French-German Research Institute of Saint-Louis / France

*AFM-TERS, SERS structure investigations of energetic and pharmaceutical nanomaterials produced by spray flash evaporation*

**4:50 - 5:10 – Yann Battie** / University of Lorraine / France

*Roadmap of ellipsometric characterization of plasmonic nanoparticles*

**5:10 – 5:30 – Alexandre Tallaire** / CNRS / France

*Synthesis of loose nanodiamonds with embedded colour centres by chemical vapour deposition*

**5:30 - 5:50 – Brian O'Callahan** / Pacific Northwest National Laboratory / USA

*Tip-Enhanced Raman Nano-Imaging and Nano-Spectroscopy of Plasmonic Nanostructures*

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