

# ICMOVPE XXI

LAS VEGAS, NV

May 12–17, 2024



## IMPORTANT ANNOUNCEMENT

**Abstract Deadline: February 22, 2024 at 11:59 pm ET**

Due to the high demand and the necessity to capture the latest developments in this research, the organizers of ICMOVPE 2024, the **21st International Conference on Metal Organic Vapor Phase Epitaxy**, would like to announce that abstracts will be **accepted through February 22nd**. Submit your abstract to be a contributor and join this exclusive array of talented researchers presenting throughout this 6-day event.

This Conference will feature the latest advances in science, technology and applications of MOVPE and related growth techniques. As the pre-eminent Conference in this field, the papers presented represent the leading-edge research done worldwide. This year's Conference will feature a combination of invited and contributed talks, poster sessions and an industrial exhibit.

We hope that you will take this unique opportunity to share your insight, discoveries and innovations and contribute to the growth of MOVPE technology. It will be a dynamic and enriching experience for all!

### SCIENTIFIC PROGRAM

ICMOVPE will feature a comprehensive selection of presentations covering:

- Fundamental Studies and Modelling of Epitaxial Processes
- III-V Semiconductors and Devices (Nitrides, Arsenides, Phosphides, Antimonides, Bismides, etc.)
- II-VI Materials and Devices (CdTe, ZnO, ZnSe, ZnS, MCT, etc.)
- IV-IV Materials and Devices (SiC, SiGe, GeSn, etc.)
- Semiconducting Oxides and Epitaxial Dielectrics (TCO, Ga2O3, SnO2, etc.)
- High-Temperature Superconductive Materials
- 2D Materials and van der Waals Heterostructures
- Heteroepitaxy of Mismatched Alloys and III-Vs on Si
- Heterogeneous integration/wafer bonding
- Low-dimensional Structures (Nanowires, -dots)
- Patterned Growth and Selective Area Epitaxy
- Atomic Layer Deposition and Epitaxy
- *In-Situ* Monitoring, Process Control and Reactor Modeling
- Nano-scale Characterization and Other Techniques
- Growth for Energy Technology (Solid State Lighting, Photovoltaics, Power Devices, Thermoelectrics, etc.)
- Equipment, Safety, Environmental and Production Issues including low-cost MOVPE

### CONFERENCE CHAIR

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University of Wisconsin-Madison

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**Daniel Feezel**  
University of New Mexico

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### MEET THE PLENARY SPEAKERS



**James J. Coleman**  
University of Illinois Urbana-Champaign, United States  
*Strained-layer MOCVD Growth – a Paradigm Shift in Epitaxy*



**Kei May Lau**  
Hong Kong University of Science & Technology, Hong Kong  
*III-V/Si Photonic Integration by Lateral Epitaxy*



**Francesco Monitalenti**  
Università degli Studi di Milano Bicocca, Italy  
*Machine Learning Modelling of Epitaxy and Nanostructures*



**Kevin Schulte**  
National Renewable Energy Laboratory, United States  
*MOVPE of Devices for Thermophotovoltaics and Laser Power Conversion*



**Prof. Zlatko Sitar**  
Kobe Steel Distinguished Professor, NCSU  
*AIN Dopant Incorporation and Activation by MOCVD*

For the most up-to-date information on ICMOVPE-XXI, visit [mrs.org/ICMOVPE-XXI](https://mrs.org/ICMOVPE-XXI).