

6th
November, 2025

ATLANT 3D®
COPENHAGEN & ONLINE

ATOMHAGEN

• MORNING AGENDA

08:30 AM – 12:35 PM

08:30 - 09:00



REGISTRATION & COFFEE

09:00 - 09:15

ATOMHAGEN CONFERENCE
WELCOME

- Dr. Maksym Plakhotnyuk - CEO & Founder, ATLANT 3D
- Dr. Fred Roozeboom - Chair of Atomhagen Conference, Professor Emeritus at University of Twente

09:15 - 09:35



KEYNOTE SESSION

Keynote Speaker: Dr. Sadas Shankar -
Research Technical Manager,
Microelectronics, SLAC

Topic: The Infinity Machine: Accelerated
Discovery in Microelectronics Processing in the
age of AI



09:35 - 10:20



PANEL SESSION

Moderator: Kathrine Stampe Anderson - Chair
of ATLANT 3D

Panelists:

- Andrea Crovetto - Associate Professor, Technical University of Denmark, NanoLab
- Dr. Maksym Plakhotnyuk - CEO & Founder, ATLANT 3D
- Dr. Fred Roozeboom - Chair of Atomhagen Conference, Professor Emeritus at University of Twente

Topic: From Atoms to Impact: Building Europe's
Atomic-Scale Industries

10:20 - 10:40



KEYNOTE FIRESIDE CHAT

Moderator: Dr. Bonnie Tsim - Head of Strategic
Initiatives and Growth, ATLANT 3D

Guest Speaker: Dr. Kostya Novoselov -
Professor and Nobel Laureate 2010, Professor,
National University of Singapore

Topic: The Future of Frontier Materials And
Nanoelectronics

10:40 - 11:00



NETWORKING BREAK

11:00 - 11:20



KEYNOTE SESSION

Keynote Speaker: Dr. Annelies Delabie -
Principal Member of Technical Staff, imec

Topic: Exploring proximity effects in area-
selective deposition for future nano-electronic
devices

11:20 - 12:05



PANEL SESSION

Moderator: Salah Nasri - CEO, International
Semiconductor Industry Group

Panelists:

- Dr. Michael Nolan - Head of Group Materials Modelling for Devices, Tyndall National Institute
- Dr. Annelies Delabie - Principal Member of Technical staff at imec
- Dr. Sadas Shankar - Research Technical Manager, Microelectronics, SLAC

Topic: Scaling new advanced materials for
future technology nodes, designs and industrial
architectures

12:05 - 12:35



TECH TALK

- Session I:

Dr. Mira Baraket - VP of Technology,
ATLANT 3D

Topic: Precision, Speed and Scale: DALP®
for Advanced Material Combinatorics

- Session II:

Dr. Alexander Kozen - Assistant Professor
of Physics, University of Vermont

Topic: Combinatorial Synthesis for Next-
Generation Battery Materials

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• AFTERNOON AGENDA

01:30 PM – 05:45 PM

13:30 - 14:45



TECH TALK

• Session I:

Dr. Boris Hudec - *Scientific Researcher, Slovak Academy of Sciences*

Topic: DALP® as an enabler for bottom-up fabrication of neuromorphic sensors

• Session II:

Ivan Kundrata - *Prototyping Specialist, Slovak Academy of Sciences*

Topic: Use of solution deposition methods on particles

• Session III:

Dr. Jacques Kools - *CEO & Founder, Encapsulix*

Topic: Challenges and Opportunities in ALD of Optical Coatings

• Session IV:

Dr. Ville Mäikkyläinen - *Assistant Professor Aalto University*

Topic: Application prospects of Photo-ALD

• Session V:

Dr. Artem Mischenko - *Professor, University of Manchester*

Topic: Materials discovery engine for the quantum age

14:45 - 15:10



NETWORKING BREAK

15:10 - 15:55



PANEL SESSION

Moderator: Dr. Jacques Kools - *CEO & Founder, Encapsulix*

Panelists:

- Dr. David Papp - *Engineering Product Manager, MatNex*
- Dr. Simon Tam - *AI for Biotech*
- Dr. Ralf Tonner-Zech - *Professor, Leipzig University*
- Prof. Dr. Andrey Ustyuzhanin - *AI Research Director, Constructor Knowledge*

Topic: AI-driven materials discovery for applications and processes

15:55 - 16:55

Co-Creation Forum & Coffee From Questions to Collaboration

Facilitated by ATLANT 3D team and Partners:

- AI-driven Materials Discovery: MatNex
- MEMS and Sensors: AMG Tech
- Optics and Photonics: EPIC
- Semiconductors and Advanced Packaging: ISIG

16:55 - 17:15



KEYNOTE SESSION

Keynote Speakers: Dr. Robert Clark - *Sr. MTS and Director of Technology, Tokyo Electron*

Topic: Scalable Semiconductor Process Technology

17:15 - 17:35



TECH TALK

• Session I:

Dr. Julien Bachmann - *Professor, Friedrich-Alexander University of Erlangen-Nürnberg*
&
Micah Mc Naire - *MSc Student, Friedrich-Alexander University of Erlangen-Nürnberg*

Topic: How it started and how it's going: From a nozzle to fully printed solar cell stacks

17:35 - 17:45



CLOSING REMARKS