

# ATOMHAGEN

*A global conference for leaders in atomic-scale innovation.*

**SAVE  
THE  
DATE**

**6 NOVEMBER 2025**

ATLANT 3D HQ | COPENHAGEN & ONLINE

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— INVITATION TO — 6th Nov, 2025

# ATOMHAGEN

*A Global Conference for Leaders in Atomic-Scale Innovation*

08:30 AM – 05:45 PM

## ATOMHAGEN

is where global leaders and pioneers at the cutting edge of atomic-scale innovation convene to chart the future.

This conference brings together visionaries, decision-makers, and trailblazers who are shaping the next era of atomic-scale technology and industry.

## + CHAIR OF ATOMHAGEN

**DR. FRED ROOZEBOOM**

Professor Emeritus

University of Twente

Global Leader in ultrathin-film technology, semiconductor processing, spatial ALD, 3D integration, and microsystems innovation.



## + ATOMHAGEN HIGHLIGHTS

### KEYNOTE SPEAKERS

- Global thought leaders in science and strategy
- Technological sovereignty and atomic-scale innovation

### TECH TALKS

- Emerging Materials & Processes
- Advanced Packaging Challenges & Solutions
- MEMS, Sensors, Neuromorphic, Catalytic Materials Discovery and Quantum

### PANEL SESSIONS

- Building Europe's Atomic-Scale Industries
- Scaling New Materials for Industry Needs
- AI-Driven Materials Discovery for Applications and Processes

### CO-CREATION FORUM

- Interactive session to exchange ideas
- Explore pathways for collaboration with ATLANT 3D on application-specific themes

+ ATLANT 3D HQ  
MÅRKÆRVEJ 2B, COPENHAGEN & ONLINE

ATLANT 3D®

6th  
November, 2025

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# 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 Kundera - *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 Miiikkulainen - *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

6th  
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SEE WHAT YOU MISSED IN 2024

FROM DISCOVERY TO  
CONNECTION:

ATOMHAGEN  
2024 HIGHLIGHTS



- Inspiring talks from world-leading experts, including:
  - Prof. **Fred Roozeboom** – University of Twente
  - Prof. **Julien Bachmann** – Friedrich Alexander University Erlangen-Nürnberg
  - Dr. **Mira Baraket** – Head of Technology R&D, ATLANT 3D
  - Dr. **Boris Hudec** – Institute of Electrical Engineering, Slovak Academy of Sciences
  - Dr. **Alexander Kozen** – University of Vermont
  - Dr. **Jacques Kools** – CEO & Founder, Encapsulix
  - Dr. **Maksym Plakhotnyuk** – CEO & Founder, ATLANT 3D
  - Dr. **Peter Thiesen** – Park Systems GmbH
- Exclusive lab tours showcasing ATLANT 3D's cutting-edge technology.
- A unique platform for networking and collaboration across academia, industry, and startups.



NOTE:

*Limited in-person capacity.* On-site invitations will be confirmed separately. All other registrations will join virtually.

Reserve Your Spot  
at ATOMHAGEN 2025 Today!

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