

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 Speakers: TBA

Topic: Europe at the Atomic Scale: Science, Strategy, and Sovereignty

09:35 - 10:20



PANEL SESSION

Moderator: Kathrine Stampe Anderson - Chair of ATLANT 3D

Panelists: TBA

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

10:20 - 10:40



KEYNOTE SESSION

Keynote Speakers: TBA

Topic: The Future of Frontier Materials And Nanoelectronics

10:40 - 11:00



NETWORKING BREAK

11:00 - 11:20



KEYNOTE SESSION

Keynote Speakers: 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. Jill Becker - CEO, SparkNano

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

12:05 - 12:35



TECH TALK

- Session I:

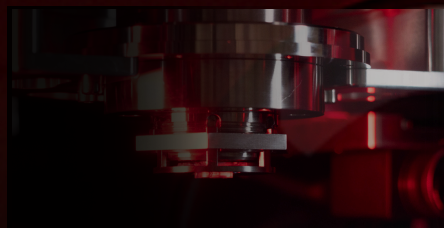
Dr. Mira Baraket - VP of Technology, ATLANT 3D

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 - *Scientific Researcher, University of Vermont*

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 Miikkulainen - *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: TBA

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

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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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