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, ATI ANT 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 Al



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, ATI ANT 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 SESSION

Keynote Speakers: TBA

Topic: The Future of Frontier Materials And Nanoelectronics

10:40 - 11:00

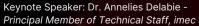


NETWORKING BREAK



11:00 - 11:20

KEYNOTE SESSION



Topic: Exploring proximity effects in areaselective 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

ATOMHAGEN

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 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: Dr. Jacques Kools - CEO & Founder, Encapsulix

Panelists:

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

Topic: Al-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:

- Al-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