

## 3<sup>rd</sup> Kuwait-imec Symposium In Partnership with EnergyVille

Advancing our Societies with Digital and Energy Transitions  
Symposium Program

03 - 04 October 2023

Tuesday, October 3, 2023

### Registration

### Opening Remarks

Dr. Ameenah Farhan, Director General  
Kuwait Foundation for the Advancement of Sciences

Prof. Jef Poortmans, Program Director of the PV and Energy Activities  
Imec/EnergyVille

### Application-Oriented Strategic Drivers of the AI-Activities at imec

Session Chair: Dr. Hanady Abdulsalam

### Preventive Health / Disease Interception and its Link with AI

Marcel Zevenbergen  
Imec

### AI for Health in an Age of Bioconvergence

Wouter Van Den Bosch  
Imec

### Sustainable Food & Environment and the Role of AI

Marcel Zevenbergen  
Imec

### How we can Enhance Cities and Mobility with AI

Jan Adriaenssens  
Imec

### Data Spaces and AI: Driving the Data Economy in Sectorial Ecosystems

Tanguy Coenen  
Imec

### Q&A

### Break

### Sensing and IOT-systems

Session Chair: Dr. Mohammad Allaho

### Edge AI & Sensor Fusion: an imec Perspective

Tom De Schepper  
Imec

### Smart Energy Services for a Sustainable Society

Matthias Strobbe  
Imec

### Embedding Smartness in Batteries

Jeroen Buscher  
VITO/EnergyVille

### Q&A

Lunch / Networking between interested parties, imec and EnergyVille

## Day 1

08:30 - 09:00

09:00 - 09:20

09:20 - 11:30

9:20 - 9:40

09:40-10:00

10:00-10:20

10:20-10:40

10:40-11:00

11:00-11:30

11:30 - 12:00

12:00 - 13:50

12:00-12:20

12:20-12:40

12:40-13:00

13:00 - 13:30

13:30 - 15:30

## Day 2

Wednesday 4th October 2023

**Registration**

**Welcome and Introduction to the Second Day of the Symposium**

**The Energy Transition**

**Session Chair: Dr. Bader AlDalali**

**Overview of the Collaboration Between Kuwait and imec/EnergyVille on Photovoltaics**

Jef Poortmans  
Imec/EnergyVille

**The Energy Transition: Opportunities and Challenges**

Gerrit Jan Schaeffer  
EnergyVille

**Q&A**

**Overview of the main results of the imec/KU collaboration**

**Advanced Si solar cell technology**

**Bringing Si PV-Technology to its Maximum Performance**

Hariharsudan Sivaramakrishnan Radhakrishnan  
Imec/EnergyVille

**Heterojunction Devices and their Circuit Modelling**

Moustafa Ghannam  
Kuwait University

**Perovskite solar cell technology**

**Perovskite Module Upscaling Towards Industrialization Based on Efficient Cell Architectures and Scalable Processes**

Yinghuan Kuang  
Imec/EnergyVille

**The Perovskite lab at Kuwait University**

Yaser Abdulraheem  
Kuwait University

**Q&A**

**Break**

**PV-System Modelling and its Application for Kuwait-Based Systems**

**Modelling of PV-Systems**

Arnaud Morlier  
Imec/EnergyVille

**Overview of Kuwait University activities**

Bader Aldalali  
Kuwait University

**Q&A**

**Concluding Remarks**

Dr Ameenah Farhan & Prof. Jeff Poortmans

**Lunch / Networking between interested parties, imec and EnergyVille**

08:30 - 09:00

09:00 - 09:10

09:10 - 10:00

09:10-09:30

09:30-10:00

10:00-10:20

10:20 - 11:15

10:20-10:35

10:35-10:50

10:50-11:05

11:05-11:20

11:20-11:40

11:50-12:10

12:10-12:25

12:25-12:40

12:40-13:00

13:00-13:20

13:20-15:30