

OWIN6G Conference and Industrial Day

Program · Thursday 8 – Friday 9 October 2026 · Fraunhofer HHI, Berlin

Dates	Thursday 8 October (Conference) and Friday 9 October 2026 (Industrial Day)
Format	Hybrid (in person and online). On Day 2, only the invited talks and panel discussion are online.
Venues	Fraunhofer HHI main building, Einsteinufer 37, 10587 Berlin
Catering	Lunch and coffee breaks on site on both days. Official dinner on the evening of 8 October.

Free registration for online access: <https://owin6g.eu/?p=2910>

Day 1 - Thursday 8 October 2026 - OWIN6G Conference

Fraunhofer HHI main building · Hybrid · Scientific Progress in the optical and wireless sensor networks for 6G scenarios and beyond: Optical Wireless Communications, Free-Space Optics, Devices and Subsystems, Physical, MAC, and Network Layers.

08:30–09:00 **Registration**
Arrival and badge collection

Welcome session: “Introduction to OWIN6G”
Chairs: Prof. Volker Jungnickel, Prof. Zabih Ghassemlooy

09:00–09:15 **Opening Remarks**
Prof. Volker Jungnickel, Ms. Nora Pouralizadeh, Local organizing committee, Fraunhofer HHI
Welcome and introduction to the two-day event

09:15–09:30 **OWIN6G Project Overview**
Prof. Stanislav Zvanovec, Czech Technical University in Prague, Project Coordinator OWIN6G
Briefing on the management and events of the project

09:30–10:15 **Invited Speaker**
Prof. Jean-Paul Linnartz, Eindhoven University of Technology, Netherlands
Counterintuitive theoretical insights and paradoxes in optical wireless communications
[30 min Presentation + 15 min Q&A]

10:15–10:45 *Coffee break*

Session 1: “Optical Sensing and Hybrid OWC/RF Systems”
Chairs: Ms. Nora Pouralizadeh, Ms. Atiya Fatima Usmani

10:45–10:50 **Featured Overview 1**
Mr. Raúl Zamorano Illanes, Northumbria University
Optical sensing devices and subsystems

10:50–11:35 **Flash Talks & Q&A Suite:**

1. “Whispering gallery mode resonator-based force sensors and applications”, Mr. Yimming Shen
2. “Pyenlight: a unified open-source Python toolbox for hybrid optical wireless/radio frequency indoor networks”, Mr. Alexandros Aslanidis
3. “Sampling and synchronization on near-field rolling shutter-based optical camera communications”, Mr. Raúl Zamorano Illanes

[10 min each for talk + 5 min Q&A]

11:35–12:35 *Lunch on site*

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Session 2: Optical Wireless Links for Communication, Sensing, Positioning and Digital Twins
Chairs: Mr. Luis Miguel Giraldo, Ms. Atiya Fatima Usmani

12:35–12:40 **Featured Overview 2**
Ms. Nora Pouralizadeh, Fraunhofer HHI, TU Berlin
Physical and MAC layer adaptation for sensor networks

12:40–13:40 **Flash Talks & Q&A Suite:**

1. “Simultaneous orientation and positioning estimation using visible light and PV cells”, Mr. Julian Solis Torrejon
2. “Fog-resilient optical wireless communication using adaptive bit and power loading”, Ms. Nora Pouralizadeh
3. “On the use of reconfigurable intelligent surfaces for optical WBANs”, Mr. Christos Giachoudis (online)
4. “Implementation of digital twin applications with optical based wireless sensor networks”, Mr. Satish Kumar Modalavalasa

[10 min each for talk + 5 min Q&A]

Session 3: “AI-Driven Networking and Camera-Based Communication”
Chairs: Mr. Satish Kumar Modalavalasa, Mr. Alexandros Aslanidis

13:40–13:45 **Featured Overview 3**
Mr. Luis Miguel Giraldo, University of Valencia
Network layer integration and security

13:45–14:30 **Flash Talks & Q&A Suite:**

1. “Intelligent intrusion detection systems for software-defined networks under malicious traffic”, Mr. Luis Miguel Giraldo
2. “Wide and narrow FOV camera-based OCC using 360 and AI-RS cameras with YOLO-CNN”, Ms. Atiya Fatima Usmani
3. “Enabling EDCA through machine learning at the access point in IEEE 802.11be WLANs”, Mr. Francisco Rau

[10 min each for talk + 5 min Q&A]

14:30–15:00 *Coffee break*

Session 4: “Free-Space Optics and Emerging Wireless Techniques”
Chairs: Ms. Nora Pouralizadeh, Mr. Raul Zamorano Illanes

15:00–15:15 **Featured Overview 4**
Prof. Ali Khalighi, École Centrale Méditerranée, Fresnel Institute, France
Short technical insights into the FOCAL project

15:15–16:45 **Flash Talks & Q&A Suite:**

1. “Ground space FSO links: mitigating the effect of atmosphere”, Mr. Agustin Gonzalez (online)
2. “A handover management approach through fluid antenna systems”, Ms. Claudia Leoni (online)
3. “Enhancing free space optics with acoustic waves”, Mr. Alex Cameron (online)
4. “Practical implementation of HSK modulation for MISO optical camera communications”, Mr. Jonas Elías Peñailillo (online)
5. “Adaptive Photonic Receivers for Turbulence Resilient FSO-QKD”, Mr. Palleschi Marco

[10 min each for presentation + 5 min Q&A]

16:45–17:00 **Day 1 Closing Remarks**
Brief wrap-up of key takeaways, Logistics details for the Industrial Day and Social event.

20:00 **Official Dinner** · venue details announced during closing remarks.

Day 2 · Friday 9 October 2026 · Industrial Day

Fraunhofer HHI main building, Invited talks and panel discussion streamed online

09:00–09:15	Registration & Arrival Coffee HHI main building · Meet and greet for networking before opening
09:15–09:30	Opening Note and Event Overview Welcome and key highlights of the day ahead
Industry After PhD: Panel & Tech Talks Chairs: Ms. Nora Pouralizadeh, Prof. Fary Ghassemlooy Venue: Lecture Hall, HHI Main Building	
09:30–10:45	Invited Tech talks (25 min each) Dr. Monica Figueiredo (TWEVO) Dr. Felix Willems (X-incubator) Max Bode (Fiber-like)
10:45–11:15	Industry Panel & Open Forum Future Pathways for Researchers: An exclusive, audience-driven dialogue with our visiting delegation and invited speakers. Open-floor exchange on global research collaborations and industry insights.
11:15–11:30	<i>Coffee break · HHI main building</i>
11:30–12:30	State-of-the-Art Research Facility Visits Guided interactive tours of our premier research labs. Note: Three groups from the pool of registered in-person attendees rotate through three labs for approximately 20 minutes each
12:30–13:30	<i>Lunch and networking · HHI main building</i>
The Discovery Zone: Hands-On Demos and Networking Chairs: Prof. Luis Nero Alves, Prof. Joaquin Perez Soler	
13:30–14:00	Lightning Pitches Rapid-fire, 2-minute elevator pitches from all exhibitors · HHI Main Building
14:00–15:30	Demo Showcase Open floor for attendees to randomly visit, test, and explore the demo stations at their own pace Coffee served in the demo area
15:30–16:00	Valedictory and Farewell Acknowledgments of sponsors and staff, and official closing statements.

