## SPIE. PHOTONICS EUROPE

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# 2016

# SPECIAL WORKSHOP Graphene-based Photonics Technology Transitioning from Research to Commercialisation

Attend this 1-day workshop **Attend this 1-day** 5 April 2016

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SQUARE Brussels Meeting Centre Brussels, Belgium

Conferences: 4–7 April 2016 Exhibition: 5–6 April 2016

## SPIE. PHOTONICS EUROPE

## Tuesday, 5 April 2016 08:30 to 17:05

SQUARE Brussels Meeting Centre, Brussels, Belgium



# Hear the latest from leading experts on graphene applications and commercialisation

Graphene-based Photonics Technology: Transitioning from Research to Commercialisation is a one-day workshop at SPIE Photonics Europe focused on graphene applications and commercialisation. Learn about current challenges and the latest breakthroughs, hear from leading experts, and participate in discussion periods. Don't miss this unique workshop space is limited, reserve your seat today.

## WORKSHOP CHAIRS



Frank Koppens ICFO - The Institute of Photonic Sciences

Nathalie Vermeulen B-PHOT - Brussels Photonics Team / Vrije Universiteit Brussel

## TOPICS

### SESSION 1: INTEGRATED PHOTONIC DEVICES FOR DATA COMMUNICATIONS

- Graphene integrated photonics for next generation optical communications Marco Romagnoli, National Laboratory for Photonics Networks, CNIT
- Graphene-based photonics enabler for future broadband communication solutions?
  Wolfgang Templ, Ph.D., Alcatel-Lucent Bell Labs
- Integrated graphene photonics: from electronic physics to photonic functionalities Tingyi Gu, Princeton University
- Photodetection using 2D materials Klaas-Jan Tielrooij, ICFO-Institut de Ciencies Fotoniques, The Barcelona Institute of Science and Technology

#### SESSION 2: IR AND THZ APPLICATIONS IN DETECTION AND SENSING

- THz detection with graphene and CNT field-effect transistors
  Prof. Dr. Hartmut G. Roskos, Physikalisches Institut, Goethe-Universität
- Graphene-based thermal detectors for infrared imaging Alan Colli, Nokia Technologies, Cambridge, UK
- 2-D materials directly deposited on dielectrics for transparent optoelectronic devices Valerio Pruneri, ICFO-The Institute of Photonic Sciences and ICREA
- Non-linear optical excitation of surface plasmons in graphene
  Dr. Tom Constant, University of Exeter, UK

### SESSION 3: WAFER SCALE PROCESSING AND INTEGRATION

- Development of a 200 mm wafer graphene technology platform Grzegorz Lupina, IHP, Leibniz-Institut für innovative Mikroelektronik
- The challenges and opportunities of CMOS compatible integration of 2D materials for photonics technology Cedric Huyghebaert, IMEC
- Ultrahigh-mobility graphene devices from chemical vapor deposition on reusable copper Christoph Stampfer, RWTH Aachen University

### SESSION 4: INTERESTED INDUSTRIES AND PANEL DISCUSSION ON COMMERCIALISATION

 Panel topic: commercialising graphene-based technologiesnext steps and challenges

# **Register Today**

Seating is limited

Pre-registration is required; seating is limited and will be allocated on a first come, first-served basis. Free with SPIE Photonics Europe technical registration but you must reserve your seat; workshop-only registration for SPIE Members €150; Nonmembers €200.