

# TOM 4 - Bio-Medical Optics

Wednesday 10 - Thursday 11 October 2018



## Chairs

Johannes de Boer, Vrije Universiteit Amsterdam (Netherlands)

Jeroen Kalkman, TU Delft (Netherlands)

## Synopsis

The field of biomedical optics has seen a remarkable growth over the past years. Due to a plethora of new techniques such as optical coherence tomography, lightsheet microscopy, fiber sensors, and multi-photon microscopy, we are able to see and sense tissue in ways never been performed before. This topical meeting focuses on bringing together researchers working on new fundamental image and sensing system improvements and clinicians that apply these techniques in practice.

## Plenary Speaker

**Wednesday 10/Oct/2018 at 14:30-15:00**

**Benjamin Vakoc**, Wellman Center for Photomedicine, Harvard Medical School, United States of America  
*High-Speed and Long-Range Circular Ranging OCT*

## Invited Speakers

**Paola Taroni**, Politecnico Milano, Italy; *Diffuse optical imaging for breast cancer lesion characterization and risk estimate*

**Roel Baets**, Ghent University, Belgium; *Medical device applications of silicon photonics*

**Nienke Bosschaart**, University Twente, the Netherlands; *Biomedical optics in early life: from newborn blood to mother's milk*

**Michal Maciej Hamkalo**, Poland; *Structural and functional cardiac Megahertz OCT imaging at up to 100 volumes/s*

**Henkjan Gersen**, University of Bristol, UK; *Polarisation State Imaging in High Numerical Aperture Systems*

## Program Committee

Maciej Wojtkowski, Nicolaus Copernicus University, Poland

Michael Pircher, Medical University of Vienna, Austria

Ton van Leeuwen, Academic Medical Center, the Netherlands

Wiendelt Steenbergen, University Twente, the Netherlands

Martin Leahy, NUI Galway, Ireland

Robert Huber, Universität zu Lübeck, Germany

## Topics

- Tissue optics and spectroscopy
- Microscopy
- Optical (coherence) tomography
- Lightsheet microscopy
- Endoscopic imaging systems
- Application of these techniques for (pre-) clinical studies