DIGITAL

CAREER



Sign in

View Cart (0)

Help



Search

ABOUT

CONFERENCES + EXHIBITIONS

**PUBLICATIONS** 

**MEMBERSHIP** 

INDUSTRY RESOURCES

**EDUCATION** 

NEWS + VIDEOS

Translational Biophotonics

Invitation

Conference

Invited Speakers

Special Events

Travel to Houston

Registration

For Authors and Presenters

Become a Sponsor



BioScience Research Collaborative, Rice Univ. Houston, Texas, United States

14 - 15 May 2018







## **Translational Biophotonics 2018**



SPIE Translational Biophotonics explores the status and future of optical imaging for biomedical research and clinical applications. Organized by SPIE and Rice University, this meeting fosters discussion and encourages continuing development of new technologies and techniques with the goal of successful translation into practical biomedical use.

Online registration is now closed. Onsite registration is available.

Registration prices increase 27 April 2018

Campus map

Download the Program PDF >

Get your week scheduled for SPIE Translational Biophotonics 2018





П	Plan You
$\sqcup$	Plan You Week >

## **Primary Conference Topics**

- Diagnostic imaging and detection with applications in cancer diagnostics, cardiovascular imaging, infectious diseases (endoscopies, diffused imaging, spectroscopy)
- New techniques in microscopy and other emerging techniques (superresolution techniques, contrasts for microscopy, in vivo imaging)
- Analytical systems (microarrays, high-throughput detection)
- MD perspectives (unmet clinical needs)
- · Industry perspectives (the implementation process, device success stories)

## **Symposium Chair**



Tomasz Tkaczyk Rice Univ. (United States)

Read full invitation from the chair

## **Invited Speakers**



Brian Applegate Texas A&M Univ.

Subnanometer functional vibratory imaging in the ear



**Paul Campagnola** Univ. of Wisconsin Madison

Analysis of collagen architecture alterations in human ovarian cancer via SHG polarization and texture analyses



Adela Ben-Yakar The Univ. of Texas at Austin

Towards clinical femtosecond laser surgery guided with multiphoton microscopy



Zhongping Chen Univ. of California, Irvine

Advances in optical coherence tomography: translation of OCT technology from bench to bedside



Marcus Cicerone
National Institutes of Standards and
Technology

Coherent Raman imaging as a potential diagnostic aid for histopathology



**Kirill Larin**Univ. of Houston

Dynamic optical coherence elastography of soft tissue



Laura Marcu Univ. of California Davis

Fluorescence lifetime techniques in clinical applications



Jana Kainerstorfer Carnegie Mellon Univ.

Monitoring of cerebral hemodynamics with near-infrared light during trauma



Rebecca Richards-Kortum

Point-of-care diagnostics to improve newborn and women's health in sub-Saharan Africa



Darren Roblyer Boston Univ.

Improving molecular sensitivity of wide-field measurements with label-free short-wave spatial frequency domain imaging



David Sampson
Univ. of Surrey (United Kingdom)
Resolution versus contrast: where to

Resolution versus contrast: where to go with optical coherence tomography?



Eva Sevick

The Univ. of Texas Health Science Ctr. at Houston

Visualizing and delivering immunotherapeutics through the lymphatics



**Peter So**Massachusetts Institute of Technology

Extracting biophysical markers for drug responses of sickle cells using interferometric imaging



Melissa Suter
Massachusetts General Hospital
Assessing airway remodeling,
structure and function in allergic
asthmatics using optical coherence
tomography



**Ben Vakoc**Wellman Ctr. for Photomedicine

High-speed and long-range OCT by optical subsampling: principles and clinical opportunities



Anita Mahadevan-Jansen Vanderbilt Univ. (USA)

Translation of research grade device to an FDA ready prototype for intraoperative parathyroid detection



Gerard Coté Texas A&M Univ.

The need for wearable technology advances to achieve true health monitoring



Art Gmitro
The Univ. of Arizona

Biomedical imaging systems based on optical fiber bundles



Zoltan Gorocs Univ. of California, Los Angeles

Computational sensing technologies for point-of-care diagnostics and global health

Sponsored by



Cosponsored by



With support from







Copyright © 2018 SPIE

About SPIE | Jobs at SPIE | Author Information | Privacy Policy | Sitemap | Contact Us







