Plenary Presentations

NEUROTECHNOLOGIES PLENARY SESSION
Sunday 28 January 2018 · 3:30 to 5:30 pm · Location: Room 3022 (West Level 3)
This new plenary session will highlight the breadth of the exciting advances occurring in the field of neurophotonics and provide a unique forum for communication and networking for leaders and innovators in the neurophotonics community.

3:30 to 3:35 pm
Welcome and Opening Remarks
David Boas
Boston Univ. (USA)
SPIE Brain Symposium Chair

Rafael Yuste
Columbia Univ. (USA)
SPIE Brain Symposium Chair

3:35 to 3:45 pm
Neurophtonic strategies for observing and controlling neural circuits
Ed Boyden
Massachusetts Institute of Technology (USA)

3:45 to 3:55 pm
Fast in vivo volumetric imaging of the brain
Na Ji
Univ. of California, Berkeley (USA)

3:55 to 4:05 pm
High-speed optical imaging of brain-wide activity
Elizabeth Hillman
Columbia Univ. (USA)

4:05 to 4:15 pm
Super-duper biological probes for next generation neuroscience
Takeharu Nagai
Osaka Univ. (Japan)

4:15 to 4:25 pm
Photoacoustic microscopy
Song Hu
Univ. of Virginia (USA)

4:25 to 4:35 pm
Photobiomodulation and the brain: a new clinical paradigm
Michael Hamblin
Wellman Ctr. for Photomedicine (USA)

4:35 to 4:45 pm
Old tools for new uses: fNIRS to investigate transcranial brain stimulations
Hanli Liu
Univ. of Texas at Arlington (USA)

4:45 to 4:55 pm
Optical assessment of cerebral autoregulation
Sergio Fantini
Tufts Univ. (USA)

4:55 to 5:05 pm
Optics and photonics for BRAIN science: BRAIN Initiative funding priorities
Edmund Talley
National Institutes of Health (USA)

5:05 to 5:30 pm
Discussion and Q&A

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