ADVANCED PHOTONICS 2018
IN CLINICAL MEDICINE AND SURGERY
THE 2nd FINNISH – JAPANESE MEDICAL PHOTONICS SYMPOSIUM
25 September 2018 – Auditorium – Kuopio University Hospital – Kuopio Finland

PROGRAM
SESSION I
Chair Mikael von und zu Fraunberg
Photonics Applications in Clinical Medicine and Surgery
09.00 – 09.05 Welcome – Markku Hauta-Kasari
09.05 – 09.30 Keynote: History of Photonics in Microneurosurgery
– Juha E Jääskeläinen
09.30 – 09.45 Eye tracking and Light-based Neuromodulation in Inner Ear Diseases
– Aarno Dietz
09.45 – 10.00 Advanced Optic Coherence Imaging in Ophthalmological Diagnostics
– Kai Kaarniranta
10.00 – 10.15 Therapeutic Light Sources in Oral and Maxillofacial Diseases
– Jari Kellokoski
10.15 – 10.35 Computational Spectral Imaging in Ophthalmology and Dentistry
– Pauli Fält
10.35 – 10.45 Hyperspectral Imaging with Tunable Light Sources in Neuro-oncology
– Susanna Koponen & Piotr Bartczak
10.45 – 11.00 Photonics in Diagnostics of Neurodegenerative Diseases
– Anne Koivisto
11.00 – 12.00 Lunch (own cost)

SESSION II
Chair Roman Bednarik
Medical Photonics in Academic and Business-driven Research
12.00 – 12.20 Keynote: NeuroCenter of Finland and Medical Photonics
– Mikael von und zu Fraunberg
12.20 – 12.40 Academy of Finland FIRST: Artificial Intelligence in Microneurosurgery
– Roman Bednarik
12.40 – 12.50 Ultraviolet Light in Preventing Infections in Healthcare
– Led Future (to be named)
12.50 – 13.05 Fluorescent Dyes and Hyperspectral Imaging in Image-guided Surgery
– Stryker (to be named)
13.05 – 13.35  Keynote: MME Network, Multimodal Engineering in Medicine  
- Hideaki Haneishi

13.35 – 14.15  Panel: Collaboration between Clinical Medicine, Academia & Industry  
- Chair Roman Bednarik  
- Dietz Fraunberg Hauta-Kasari Haneishi Kaarniranta  
- Business Finland Chiba University Led Future Stryker

14.15 – 14.45  Coffee break

SESSION III  
Chair Markku Hauta-Kasari  
International Collaboration for Personalized Multimodal Medical Engineering  
14.45 – 15.00  Finnish-Japanese collaboration in Computational Spectral Imaging  
- Markku Hauta-Kasari

15.00 – 16.00  Selected topics from the Center for Frontier Medical Engineering, Chiba University, Japan

16.00  Summary

SESSION IV  
Host Antti-Pekka Elomaa  
Visit to Eastern Finland Microsurgery Research & Training Center  
16.10  Demonstrations of Photonics Applications in Microsurgery (UEF)  
Hands-on Microsurgical Training (KUH)  
KUH NeuroCenter Surgical Multimedia Systems (Stryker)

REGISTRATION  for physical or virtual attendance by Friday 14 September 2018  
https://my.surveypal.com/Advanced-Photonics-2018

No registration fee

ORGANIZER  
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