

# Invitation to a International Seminar

## 13<sup>th</sup> & 16<sup>th</sup> November

### "Workshop on Holographic Endoscopy - GATES"

#### Programme:

##### Tuesday 13<sup>th</sup> November

14:00	<i>registration, check-in</i>
15:30	<i>coffee</i>
16:00 – 18:00	T. Čižmár – GATES Intro
18:00 – 19:30	<i>poster session</i>
19:30	<i>dinner</i>

##### Wednesday 14<sup>th</sup> November

7:30 – 9:00	<i>breakfast</i>
9:00 – 9:30	P. Ják: MMF transmission matrix and its measurement with internal reference waves
9:30 – 10:00	M. Šiler: A tutorial to spectroscopic data processing: from basics to artificial intelligence
10:00 – 10:30	<i>coffee</i>
10:30 – 11:00	D. Boonzajer Flaes: Using python for data analysis
11:00 – 11:30	S. Simpson: Modelling
11:30 – 12:00	J. Traegaardh: Towards multi-photon microscopy through a multimode fiber
12:00 – 14:00	<i>lunch, discussion</i>
14:00 – 15:00	P. Zemanek: Overview of ISI activities (Keynote lecture)
15:00 – 15:30	<i>coffee</i>
15:30 – 17:30	S. Turtaev: DMD for dummies, Intro & demo
17:30 – 19:30	<i>poster session</i>
19:30	<i>dinner</i>

### Thursday 15<sup>th</sup> November

7:30 – 9:00	<i>breakfast</i>
9:00 – 10:30	Nathalie Rochefort: Imaging neuronal activity in vivo: from neuronal networks to single spines (Keynote lecture)
10:30 – 11:00	<i>coffee</i>
11:00 – 11:30	H. Uhlířová: Current need for MMF-based endoscopes in neuroscience
11:30 – 12:00	I. J. T. O. Leite: Multimode fibre holographic tweezers for three-dimensional optical manipulation
12:00 – 12:30	M. Hons: Intravital imaging of the immune system
12:30 – 14:00	<i>lunch</i>
14:00 – 15:30	Rainer Heintzmann: Generic Inverse Modelling, Introduction and Demo
15:30 – 16:00	<i>coffee</i>
16:00 – 17:00	Gabi Hamm: finding your way through the labyrinth of EU funding (Keynote lecture)
17:00 – 18:00	T. Tyc: Explaining non-simple physics in a simple way, and more (Keynote lecture)
18:00 – 19:30	<i>poster session</i>
19:30	<i>dinner</i>

### Friday 16<sup>th</sup> November

7:30 – 10:00	<i>breakfast</i>
10:00	<i>departure</i>
11:30 – 15:00	<i>visit of complex photonics labs at ISI Brno (optional, lunch can be provided)</i>