LAMELIS

Lasers in Medicine and Life Sciences

Advanced summer school for undergraduate or postgraduate students of medicine and physics. 30th June — 9th July 2016, Szeged

Programme.

	30 Jun (Thu)	1 Jul (Fri)	2 Jul (Sat)	3 Jul (Sun)
AM	▶ *Arrival*	▶ 9^{00}–10^{30} • **Péter Maróti,** *Lasers in biophysics: why is laser light unique?* ▶ 10^{45}–12^{15} • **Simona M Cristescu,** *Sniffing volatiles released from biological samples with laser-based instrumentation*	▶ 9^{00}–10^{30} • **Ferenc Bari,** *What did we learn about microcirculation using lasers* ▶ 10^{45}–12^{15} • *Laboratory visit: telemedicine*	▶ *Excursion: Ópusztaszer Heritage Park*
Break		▶ 13^{00}–14^{00} • *Lunch*	▶ 13^{00}–14^{00} • *Lunch*	
PM	▶ 14^{00}–15^{00} • *Registration* ▶ 15^{00}–15^{30} • **Lajos Kemény – Ferenc Bari,** *Opening ceremony* ▶ 15^{45}–17^{15} • **Katalin Varjú,** *The ELI-ALPS infrastructure – Basics of high-energy short pulsed lasers* ▶ 19^{00}–22^{00} • *Welcome party*	▶ 14^{00}–15^{30} • **Pál Ormos,** *Optical manipulation* ▶ 15^{45}–17^{15} • **Tomáš Čižmár,** *Photonics in disordered environments and fibre-based imaging*	▶ *Sightseeing in Szeged*	▶ *Excursion: Ópusztaszer Heritage Park*

	4 Jul (Mon)	5 Jul (Tue)	6 Jul (Wed)	7 Jul (Thu)	8 Jul (Fri)
AM	▶ 9^{00}–10^{30} • **Justin Molloy,** *Optical tweezers* ▶ 10^{45}–12^{15} • **Martin Leahy,** *Microcirculation imaging with light and sound*	▶ 9^{00}–10^{30} • **Adrian Podoleanu,** *Optical coherence tomography (OCT)* ▶ 10^{45}–12^{15} • **Attila Thury,** *OCT in coronary interventions*	▶ 8^{30}–10^{00} • **Zs Bere – M Csanády – B Sztanó – G Vass – J G Kiss,** *Lasers in otolaryngology* ▶ 10^{30}–13^{00} • *Visit to the ELI site*	▶ 9^{00}–10^{30} • **Katalin Hideghéty,** *Ionising radiation for cancer treatment* ▶ 10^{45}–12^{15} • **Jörg Pawelke,** *Radiotherapy with laser-driven particle beams*	▶ 9^{00}–10^{30} • **Kinga Turzó – Zsolt Tóth,** *Lasers for dental applications* ▶ 10^{45}–12^{00} • **Márta Fülöp Papp,** *Lasers in dentistry*
Break	▶ 13^{00}–14^{00} • *Lunch*	▶ 13^{00}–14^{00} • *Lunch*	▶ 13^{00}–14^{00} • *Lunch*	▶ 13^{00}–14^{00} • *Lunch*	▶ 12^{30}–13^{30} • *Lunch*
PM	▶ 14^{00}–15^{30} • **András Lukács,** *Transient absorption and fluorescence spectroscopy* ▶ 15^{45}–17^{15} • **Beáta Bugyi,** *TIRF microscopy*	▶ 14^{00}–16^{00} • *Laboratory visit: OCT* ▶ 16^{00}–17^{00} • *Laboratory visit: lasers in ophthalmology*	▶ 14^{00}–15^{30} • **Magdolna Gaál,** *Lasers in dermatology* ▶ 16^{00}–17^{00} • *Laboratory visit: lasers in dermatology*	▶ 14^{00}–15^{30} • **Elke Beyreuther,** *Radiobiology of pulsed particle beams* ▶ 16^{00}–17^{00} • *Laboratory visit: high-intensity laser laboratory*	▶ 14^{00}–17^{00} • *Laboratory visits in the Biological Research Centre*