



7 - 11 August 2023

7.8.2023

Monday

08:45 - 09:30	REGISTRATION
09:30 - 09:45	Prof. Mircea Guina <i>Opening</i>
09:45 - 10:30	Prof. Risto Nieminen (remote) <i>From the basics of semiconductor physics to quantum technology in Finland</i>
10:30 - 10:45	COFFEE BREAK
10:45 - 11:30	Dr. Jose Pozo <i>Photonics impact</i>
11:30 - 12:15	Dr. Mark Kuznetsov <i>Fundamentals of optically pumped semiconductor lasers - VECSELS</i>
12:15 - 13:15	LUNCH BREAK
13:15 - 14:00	Dr. Mark Kuznetsov <i>History of optically pumped semiconductor lasers, VECSELS: past, present, and future</i>
14:00 - 14:45	Prof. Armando Rastelli <i>Epitaxial semiconductor quantum dots: basic physical and structural properties</i>
14:45 - 15:15	COFFEE BREAK
15:15 - 16:00	Prof. Armando Rastelli <i>Epitaxial semiconductor quantum dots for quantum science and technology</i>
16:00 - 17:15	Prof. Federico Capasso (remote) <i>Flat optics based on metasurfaces: physics and applications</i>

8.8.2023

Tuesday

09:00 - 09:45	Prof. Constantino De Angelis <i>Nonlinear optics at the nanoscale</i>
09:45 - 10:30	Prof. Constantino De Angelis <i>Harmonic generation and image processing with nonlinear and nonlocal flat optics</i>
10:30 - 10:45	COFFEE BREAK
10:45 - 11:30	Prof. Peter Lodahl <i>Single-photon sources</i>
11:30 - 12:15	Prof. Peter Lodahl <i>Advanced photon sources and applications</i>
12:15 - 13:15	LUNCH BREAK
13:15 - 14:00	Dr. Timo Aalto <i>Silicon photonics</i>
14:00 - 14:45	Prof. Frank Wise <i>Femtosecond fiber lasers based on new pulse evolutions: introduction</i>
14:45 - 15:15	COFFEE BREAK
15:15 - 16:00	Prof. Frank Wise <i>Femtosecond fiber lasers based on new pulse evolutions: recent advances</i>
16:00 - 16:45	Lab tours
17:15 - 23:30	Sauna evening and dinner (Bus 17:15 School venue)

9.8.2023

Wednesday

09:00 - 09:45	Prof. Fabian Steinlechner <i>Quantum communication and the basics of quantum key distribution</i>
09:45 - 10:30	Prof. Fabian Steinlechner <i>Long-distance quantum communication with satellites</i>
10:30 - 10:45	COFFEE BREAK
10:45 - 11:30	Prof. Ursula Keller <i>SESAM modelocking of diode-pumped solid-state and semiconductor lasers</i>
11:30 - 12:15	Lab tours
12:15 - 13:15	LUNCH BREAK
13:15 - 14:00	Prof. Ursula Keller <i>SESAM modelocking of diode-pumped solid-state and semiconductor lasers</i>
14:00 - 14:45	Dr. Ioan Dancus <i>10 PW peak power femtosecond laser facility at ELI-NP</i>
14:45 - 15:15	COFFEE BREAK
15:15 - 16:15	Dr. Miranda Vinay <i>Publishing in Nature portfolio journals</i>
16:15 - 18:30	Poster session with refreshments

10.8.2023

Thursday

09:00 - 09:45	Prof. Christoph Hitzenberger <i>Basics, history and impact of OCT</i>
09:45 - 10:30	Prof. Christoph Hitzenberger <i>Current research in retinal OCT</i>
10:30 - 10:45	COFFEE BREAK
10:45 - 11:30	Prof. Adrian Podoleanu <i>Advances in tunable lasers for OCT</i>
11:30 - 12:15	Dr. Mark Kuznetsov <i>OCT medical imaging with swept-frequency semiconductor lasers</i>
12:15 - 13:15	LUNCH BREAK
13:15 - 13:40	Dr. Bettina Heise <i>OCT in Linz - from non-destructive testing to medical applications</i>
13:40 - 14:25	Dr. Ranjan Rajendram <i>Imaging the retina: anatomy to clinic</i>
14:25 - 15:00	COFFEE BREAK
15:00 - 15:45	Dr. Taran Tatla <i>Precision surgery and OCT application in head and neck cancer</i>
15:45 - 16:10	Dr. Alberto Rosso <i>From the eye to the AI</i>
16:10 - 16:50	Industry pitch session
17:00 - 21:00	Hike to Pynikki tower and visit to Amuri museum

11.8.2023

Friday

09:00 - 09:45	NETLAS student presentations session 1 Anikeev/Bhuiyan/Tatar-Mathes
09:45 - 10:30	NETLAS student presentations session 2 Grijalva/Payandeh/Lamoso
10:30 - 10:45	COFFEE BREAK
10:45 - 11:30	NETLAS student presentations session 3 Tabatabaei/Klufts/Bashir
11:30 - 12:30	NETLAS student presentations session 4 Grelet/Jimenez/Riha/Venugopal
12:30 - 13:15	LUNCH BREAK
13:15 - 14:00	Prof. Aart Verhoef <i>Super-resolution multiphoton microscopy for deep sub-diffraction limited imaging</i>
14:00 - 15:15	NETLAS industry forum
15:15 - 15:25	Prof. Mircea Guina <i>Closing</i>
15:25	COFFEE BREAK
15:30 - 16:30	NETLAS supervisor board meeting (only for NETLAS members)