

# EAGLES

International Conference on  
Rare-Earth Doped Glass Materials and Fibre Lasers  
MPNS COST Action MP1401



**cost**  
EUROPEAN COOPERATION  
IN SCIENCE AND TECHNOLOGY



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October 18th – 19th, 2016 | Trento, Italy



## Program

### Tuesday 18

09:00	09:30	Opening – Kay Schuster, Maurizio Ferrari, Roberta Ramponi, Angela Seddon
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*Chair: Silvia Soria*

09:30	10:00	<i>A bright COST action</i> <b>Stefano Taccheo</b>
10:00	10:30	<i>Mid-infrared (MIR) fibre lasers: progress and challenges</i> <b>Angela Seddon</b>
10:30	11:00	Coffee break

*Chair: Ella Karaskina*

11:00	11:30	<i>Interaction between localized surface plasmon and nonlinear solid state gain media</i> <b>Mariola Ramirez</b>
11:30	11:50	<i>IR to visible photon conversion in rare-earth doped chalcogenide fibers for all-optical gas sensing</i> Florent Starecki
11:50	12:10	<i>Specialty phosphate fibres for advanced lasing and sensing applications</i> Daniel Milanese
12:10	12:30	<i>Integrated photonic device by top down fabrication processes</i> Annamaria Gerardino

12:30	12:50	<i>Rare earth doped silica-based optical fibres for high energy physics detectors</i> Federico Moretti
12:50	14:40	Lunch time

Chair: **Mariola Ramirez**

14:40	15:00	<i>Microsphere based Er<sup>3+</sup> microlasers</i> Davor Ristic
15:00	15:30	<i>Designing nanoparticles during the drawing step</i> Wilfried Blanc
15:30	16:00	<i>Novel glass-based materials for photonics</i> Laetitia Petit
16:00	16:30	Coffee break

Chair: **Silvia Maria Pietralunga**

16:30	16:50	<i>Opto-electronic devices and sensors based on nanostructured silicon</i> Mile Ivanda
16:50	17:10	<i>Investigation of the quantum cutting properties of Tb<sup>3+</sup>/Yb<sup>3+</sup> co-doped silica-hafnia glass and glass-ceramics obtained by sol-gel technology</i> Francesco Enrichi
17:10	18:00	PhD-MSc presentations 10 minutes/researcher (5 presentations)
18:00	18:40	Eduardo Giugliani, Maurizio Sbeti, Alberto Quaranta, Daniele Zonta, Roberta Ramponi
20:00		Orso Grigio dinner

## Wednesday 19

Chair: **Virginie Nazabal**

09:00	09:30	<i>High-energy MID-infrared optical parametric sources using large-aperture quasi-phase-matched crystals</i> Valdas Pasiskevicius
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09:30	10:00	<i>Pr-doped Ga(In)-As(Sb)-Ge-Se glasses and fibers for MIR-range</i> Ella Karaskina - CANCELLED
10:00	10:30	<i>Pumping scheme strategies for MID-IR fiber lasers</i> Francesco Prudeniano
10:30	11:00	Coffee break

Chair: **Annamaria Gerardino**

11:00	11:30	<i>Novel tuning scheme for fiber lasers using a theta cavity design for constant repetition rates</i> Matthias Jaeger
11:30	11:50	<i>Dy<sup>3+</sup> doped ZBLAN fiber for efficient laser emission at 3 <math>\mu</math>m</i> Gianluca Galzerano
11:50	12:10	<i>Fabrication and characterization of step-index tellurite fibers with varying numerical aperture for near- and mid-infrared nonlinear optics</i> Frederic Desevedavy - CANCELLED
12:10	12:30	<i>Local surface analysis and laser micromachining for integrated dielectric platforms</i> Silvia Maria Pietralunga
12:30	12:50	<i>Multicolour emission in re - doped fibers</i> Marcin Kochanowicz
12:50	14:40	Lunch time

Chair: **Laetitia Petit**

14:40	15:00	<i>A study on spectroscopic qualities and microstructure of oxyfluoride glasses and glass-ceramics doped with selected lanthanide ions</i> Radosław Lisiecki
15:00	15:30	<i>Recent applications of fibers for optical sensing and particles manipulation in lab-on-chip systems</i> Cinzia Sada
15:30	15:50	<i>Single crystals growth and crystals performance for optical and laser application</i> Guillaume Alombert Goget
16:00	16:30	Coffee break

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*Chair: Cinzia Sada*

16:30	16:50	<i>Crystallization and optical properties of rare earth<sup>+</sup> doped- oxyfluoride glass-ceramics for its use in optical fibers</i>  Jose Joaquin Velazquez Garcia
16:50	17:10	<i>Modelling of modes competition and thermal effects in large mode area photonic crystal fibers</i>  Carlo Molardi
17:10	18:00	PhD-MSc presentations 10 minutes/researcher (5 presentations)
18:00	18:15	Closing: Kay Schuster, Maurizio Ferrari, Stefano Taccheo