



June 18-21, 2019 - Gérardmer, France

The 2019 edition of the biennial Topical Meeting on **Photorefractive Photonics** is organized by the Laboratory LMOPS of the University of Lorraine and CentraleSupélec and will take place at the **Grand Hotel & Spa** of the city of **Gérardmer (France)**, in the heart of the Vosges mountains. The conference will be a privileged forum for exchange on the latest developments on Photorefractive Effects, Materials and Devices as well as on several related phenomena.

Topics

The topics of interest will include experimental and theoretical studies on:

Materials: Inorganic, organic and hybrid materials for photorefractive and nonlinear optics. Crystals, liquid crystals, polymers, nonlinear fibers, gain media. Organic semiconductors and perovskites.

Material micro- and nano-engineering:

Ferroelectric domain engineering, waveguides, resonators, integrated photonics, volume gratings, metasurfaces and metamaterials.

Charge generation and transport: underlying physics, polaron related effects, charge and exciton transport in novel photovoltaic materials (organic, hybrid perovskites).

Wave mixing: Interferometry, dynamic holography, optical signal processing, data storage, wavefront shaping and beam cleanup, slow and fast light, EIT-related effects.

Nonlinear light-matter interaction: ultrafast processes, beam propagation dynamics, solitons, control of light by light, frequency conversion (UV, VIS, IR, THz), optical limiting and modulation, self-organization and spatio-temporal dynamics, nonlinear plasmonics.

Lattice photonics: Novel lattice structures and fundamental physics, quantum analogies.

Parallel digital photonics: Digital holography, adaptive optics, amplitude and phase spatial light modulation: devices and applications (bio-photonics, biomedical ...).

New imaging approaches: Imaging by photon correlation, photoacoustic and acousto-optic imaging in scattering media, ...

Important dates

250-words abstract submission deadline:
January 31, 2019

Acceptance notification: *March 15, 2019*

Early-bird registration deadline:
April 30, 2019

Two-pages summary deadline: *April 30, 2019*

Organizing committee

Mathieu Chauvet, Univ. Bourgogne - Franche Comté, Besançon

Virginie Coda, Univ. Lorraine, Metz

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