

XXIIIrd International Krutyn Summer School 2017

Krutyn, Masurian Lake District, Poland,

June 18-24, 2017

[http://bioimaging.ikss.eu/](http://bioimaging.ikss.eu)

“Advanced Lanthanide Molecules and Materials for Bioimaging and Medical Diagnostics: State of the Art”

GENERAL INFORMATION & GOAL

This XXIIIrd International Krutyn Summer School - “Advanced Lanthanide Molecules and Materials for Bioimaging and Medical Diagnostics: State of the Art” - is organized by the Institute of Physical Chemistry of the Polish Academy of Sciences, Poland, and Centre de Biophysique Moléculaire, CNRS UPR 43301, 45071 Orléans, France. This Summer School aims at the state-of-the-art training in the form of lectures and discussion sessions designed for Ph.D. students and young researchers seeking to reinforce their knowledge and skills in the field of advanced medical diagnostics. Top experts in this area will deliver lectures and discussion sessions. The school is intended both for people already active in this R&D field, as well as for those new to the field. A number of social events will be also proposed to relax after the heavily-scheduled program, including: discotheque, bonfire, boats on Krutynia River, guided, or individual out-door activities (kayaking, trekking, bike, Nordic walking, high-class ballooning, etc.). The Local Organizing Committee cordially invites you to take part in this Summer School.

VENUE

The School will be held in a picturesque and romantic summer resort – the village Krutyn – in Masurian Lake District, easily accessible from Warsaw by public buses, but transportation from Warsaw to Krutyn will be provided by the organizers on June 18th (for details see page 2). The Conference Complex “MAZUR-SYRENKA” ensures an excellent conference and accommodation services.

SUMMER SCHOOL SITE : www.mazursyrenka.com

LIMITED PARTICIPATION NUMBER

In order to meet our quality requirements, the number of participants (excluding the lecturers) is **limited to 70**, therefore please, register as early as possible. A waiting list will be installed.

SCIENTIFIC PROGRAMME

Theoretical background

1. Principles of lanthanide luminescence mechanisms: Excitation and emission mechanisms
2. Term symbols and group theoretical aspects
3. Nonlinear optical processes: two-photon excitation in lanthanide complexes
4. Up- and down conversion
5. Luminescent lanthanide-doped molecules and nanoparticles

Academic research and technological aspects

1. Luminescent nanoparticles and nanocomposites
2. Luminescent lanthanide and magnetic materials for medical diagnostics
4. FRET in lanthanide-based luminescent immunoassays
5. Nanoparticles surface modification with lanthanide complexes

6. NIR lanthanide materials for bioimaging

7. Intracellular FRET-based probes

8. Multimodal imaging

Applications

1. Bioimaging
2. Optical markers and sensors
3. Industrial developments and perspectives
4. Instrumentation and novel diagnostic techniques for systems and devices
5. Industrial development and perspectives
6. Luminescent lanthanide complexes in cancer diagnostics and therapy

INVITED LECTURERS

Prof. Stephane Petoud, University of Geneva, Switzerland

Prof. Loïc J. Charbonnière, Institut Pluridisciplinaire Hubert Curien (IPHC), Strasbourg, France

Prof. Stefan Lis, Adam Mickiewicz University, Poznan, Poland

Dr. Svetlana Eliseeva, Centre de Biophysique Moléculaire – CNRS, Orléans, France

Prof. Claude Piguet, University of Geneva, Switzerland

Prof. Gary Ka-Leung Wong, Hong Kong Baptist University, Hong Kong

Dr. Olivier Sénèque, Laboratoire de Chimie et Biologie des Métaux, CEA, Grenoble, France

Prof. Niko Hildebrandt, Institut de Biologie Intégrative de la Cellule, Paris, France

Prof. Cees Ronda, Philips, The Netherlands

Prof. Olivier Maury, "Chimie pour l'optique", laboratoire de chimie de l'ENS-Lyon, CNRS, France

HOW TO PARTICIPATE?

Registration only on-line

FEE: 900 PLN (225 €), Accompanying person: 2300 PLN: accommodation, full board, excursion, bonfire, transport, social events (575 €).

FEE includes: an access for participation + training materials (printed abstracts, pens, certificate of participation, DVD with all lectures as PDF files, and a collection of Summer School pictures), **medical services on-site**, and coach transport from Warsaw to Krutyn and back.

HOTEL COST (single room for regular participants deadline for reservation: February 28th 2017, due to the limited number (10) of single rooms), including an accommodation (six nights), full board, and social events (excursion & bonfire).

Fee: 900 PLN, or 225 €			
Full Board and Accommodation, 6 nights			
Double room in PLN	Single room in PLN	Double room in €	Single room in €
2380	2780	595	695
After payment deadline			
2580	2980	645	745

IMPORTANT: Bank operational costs are to be borne by participants

REGISTRATION

Please, note there is no pre-registration. Your registration will be considered as your commitment to the Summer School participation. Please, register on-line via the website. Please, note that only academic or industrial e-mail addresses will be accepted by the electronic registration. Your registration and professional education will be examined, and could be

rejected in case of doubt (e.g. unknown universities, private e-mails, such as hotmail.com, yahoo!, Gmail, etc.)

ACCOMMODATION & TRAVEL DETAILS

Accommodation: Lecturers in single rooms, participants in double rooms (you may indicate your room mate while registering on line, if relevant). **A limited number of single rooms can be made available for participants on "first-come-first-serve" basis.**

Travel to Krutyń: by coach from the Institute of Physical Chemistry, PAS, on June 18th

The Organizers will provide two coaches from the Institute of Physical Chemistry of the Polish Academy of Sciences, Warsaw, Kasprzaka str., 44/52, on June 18th, at 16.00. Participants who must arrive one day earlier, due to air connections, may book an accommodation – Warsaw has a large offer of middle-class hotels - before departure to Krutyń, to be able to travel on June 18th. Excellent website for hotel booking is available at: <http://www.booking.com> It is highly recommended to arrive before noon on June 18th, if possible. Departure from Krutyń to Warsaw on June 24th at 8.00 a.m.

IMPORTANT DEADLINES:

single room, **deadline for reservation: February 28th 2017**

Deadline for registration: April 30th

Deadline for fee payment: May 15th

Deadline for abstract submission: May 25th

Deadline for presentations upload: May 30th

Cancellations: before May 20th fee will be returned, after May 20th no refund will be possible.

CONTACT:

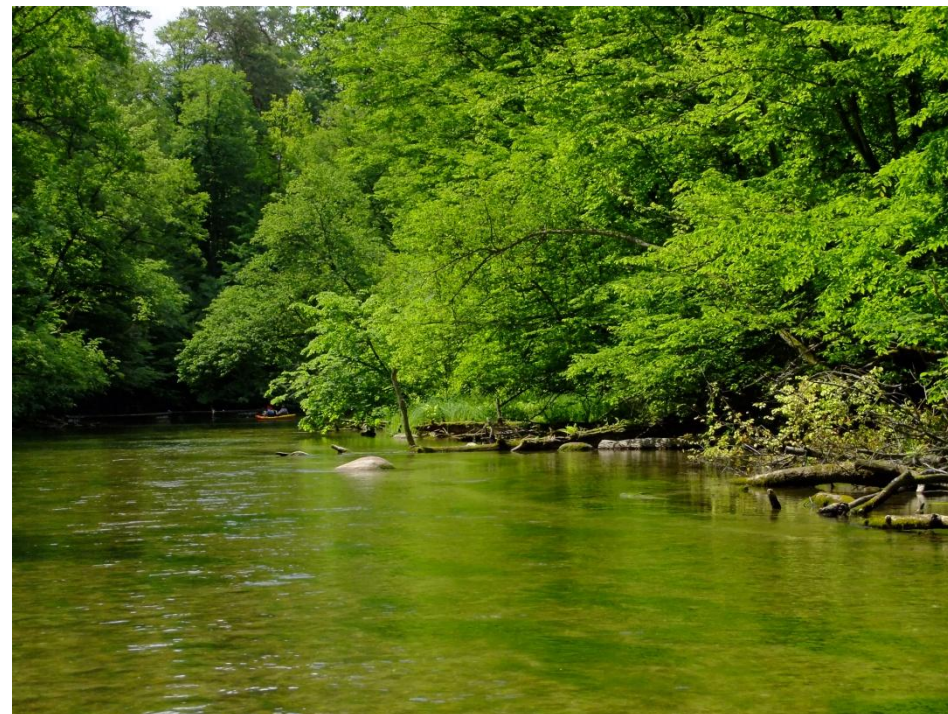
Professor Marek Pietraszkiewicz, IKSS2017 Administrative Director

e-mail: mpietraszkiewicz@ichf.edu.pl

Professor Stéphane Petoud, IKSS2017 Scientific Director

e-mail: stephane.petoud@unige.ch

Any late cancellation after deadline for payment will result in full financial charges to the Faculty/Institute of the Participant



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Organizers:

The Institute of Physical Chemistry of the Polish Academy of Sciences,
Poland

Centre de Biophysique Moléculaire, CNRS UPR 43301, 45071 Orléans,
France

