First Announcement

13th International Conference Series on
"Laser-light and Interactions with Particles"
August 23-28th, 2020, Warsaw, Poland

Registration
For the moment, the conference fees in euros (inclusive of all taxes), are expected to be in ranges:

<table>
<thead>
<tr>
<th>Category</th>
<th>Early</th>
<th>Late</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student (Master, PhD)</td>
<td>400</td>
<td>475</td>
</tr>
<tr>
<td>Academic/Industry</td>
<td>500</td>
<td>575</td>
</tr>
<tr>
<td>Accompanying person</td>
<td>120</td>
<td>120</td>
</tr>
</tbody>
</table>

The registrations fees include: (1) the Conference attendance, book of the conference abstracts, lunches and coffee breaks mentioned on the program, LIP 2020 excursion, welcome reception, guided tour; (2) LIP 2020 excursion, welcome reception, guided tour.

Venue and accommodation
The conference venue is the Institute of Physics, Polish Academy of Sciences (IF-PAS). It is located in the south part of Warsaw in Mokotów district, within 15 minutes by car or bus from “Chopin Airport” – the main airport of Warsaw. Institute is also about 20 – 25 min by tram or bus from the city centre and about 15 min walking distance from the metro line 1 providing convenient connection across Warsaw.

Abstract submission opens ......................November 1st, 2019
Abstract submission ends......................March 1st, 2020
Notification of abstract acceptance........April 1st, 2020
Early registration opens......................January 1st, 2020
Background and Scope

For more than three decades this conference series has promoted state-of-the-art research and scientific exchange on laser-beams and interactions with particles and particle systems. The present edition follows the former Optical Particle Sizing (OPS) and Characterization (OPC) conferences held in Rouen 1987; Tempe, 1990; Yokohama, 1993; Nürnberg, 1995; Minneapolis, 1998; Brighton, 2001; Kyoto, 2004; Graz, 2007 as well as the reformulated Laser-light and Particle Interactions (LIP) conference held in Rouen in 2012; Marseille, 2014; Xi’an, 2016; College Station (TX), 2018.

Papers, ranging from theory to practice, are invited with particular emphasis being placed on the following topics:

- Optical particle characterization methods (interferometric, holographic, polarimetric, spectral, static, dynamic, ...)
- Near-field, far-field and time-resolved scattering, plasmonics and other resonances,
- Complex shaped particles and aggregates,
- Multiple scattering and random media (dense, turbulent, ...)
- Mechanical effects of light (particle manipulation, force measurement, optical tweezer, ...)
- Laser beams description (contributions acoustical and quantum beams are also welcomed)...

Fields of application may range from multiphase flow characterization, to plasma and soft matter physics, nanosciences, aerosol science and atmospheric environment, biomedical optical engineering, etc.

Committees

W. Bachalo, Artium technologies Inc, USA  
X.S. Cai, Univ. Sci. and Technol., Shanghai, China  
Y.P. Han, School of Science, Xi’anian University, Xi’an, China  
G. Gousseti, CORIA, Nat. Inst. Appl. Sci., Rouen, France  
G. Geithan, CORIA, Nat. Center. Sci. Erich (CNRS), Roanne, France  
J.A. Lock, Cleveland State University, Cleveland, USA  
O. Marangi, IPGF, National Research Council, Messina, Italy  
P. L. Mantoni, Washington State University, Pullman, USA  
M. I. Mishchenko, NASA Goddard Institute, New York, NY, USA  
F.R.A. Onofri, IUSTI, Nat. Center. Sci. Erich (CNRS), Marseille, France  
C.M. Sorensen, Kansas State University, Kansas, KS, USA  
B. Stout, Fosnqm Institute, Aix-Marseille Univ., Marseille, France  
C. Crople, SLA, Tech. Univ. of Darmstadt, Darmstadt, Germany  
G. Vidoni, Army Research Laboratory, Adelphi, USA  
T. Wriedt, ITW, University of Bremen, Germany  
Z.S. Wu, School of Science, Xi’Anian University, Xi’an, China  
F. Yang, Dept. Atmos. Sci., Texas A&M Univ., College Station, TX, USA  
Y. Aizai, Muroran Institute of Technology, Muroran, Japan  
L. A. Ambrosio, Universidade de Sao Paulo, USP, Brazil  
M. Brunel, CORIA, University of Rouen, Rouen, France  
R. Chakrabarty, Research Institute, Reno, USA  
L. Tsang, Dept. Electr. Eng. and Computer Sci., University of Michigan, MI, USA  
Y.E. Greirs, Russian Academy of Sciences, Tomsk, Russia  
D. Grier, New York University, New York, USA  
S. Hanna, University of Bristol, Bristol, UK  
M. Kolwas, IP, Polish Academy of Sciences, Warsaw, Poland  
F. Lemonte, LEMTA, University of Lorraine, Nancy, France  
F.C. Minn, Los Alamos National Laboratory, Los Alamos, NM, USA  
A.A.R. Neves, National Research Council, Lecce, Italy  
T. Nienhuis, University of Queensland, Brisbane, Australia  
P. Pouligny, CRPP, Nat. Center. Sci. Erich (CNRS), Lausanne, Switzerland  
H.-H. Gia, Hong Kong Univ. Sci. & Technol., Kowloon, Hong Kong  
K.F. Ren, CORIA, University of Rouen, Rouen, France  
N. Rieh, IIT, Stuttgart University, Stuttgart, Germany  
M. Sikor, Inst. Scientific Instruments, ASCR, Brno, Czech Republic  
A. M. K. P. Taylor, Imperial College, London, UK  
X.M. Sun, School of Electric. and Electron. Eng., Shandong Univ. Technol., Zibo, China  
M.F. Vetrano, Department of Mechanical Engineering, KU Leuven, Leuven, Belgium  
J.J. Wang, School of Science, Xi’anian University, Xi’an, China  
S. Will, Friedrich-Alexander-Universität, Erlangen-Nürnberg, LLT, Erlangen, Germany  
F. Xu, California Institute of Technology, Pasadena, USA  
R. Xu, Micromeritics Instrument Corp., Shanghai, China  
M. Yurkin, Voevodsky Inst. of Chem. Kinetics and Comb., Novosibirsk, Russia

Keynotes Lectures

Leonardo A. Ambrosio—University of São Paulo, Brazil—“Structured fields constructed from superpositions of nondiffracting beams”  
Edouard Berroci—Lund University, Sweden—“High contrast imaging through optically dense sprays using Structured Illumination and two-photon excitation fluorescence imaging.”  
David, G. Grier—New York University, USA—“Holographic Particle Characterization: Combining the Composition and Dynamics of Colloidal Dispersions with Holographic Video Microscopy”  
Monika, Ritsch-Marte—Medical University of Innsbruck, Austria—“Tailored optical and acoustic traps for organoid research”  
Maciej Wójcikowski—Nicolaus Copernicus University & PAN Poland—“In vivo imaging by Spatio-Temporal Optical Coherence techniques”

Instructions to authors

Abstracts, presentations & proceedings

Three formats are planned for presentations: keynote lectures, oral presentations and posters. For the two latter, papers are invited on the topics outlined and others falling within the scope of the conference. To do so, authors are invited to submit an extended abstract via the conference web site. Selection will be based on two independent reviews. All selected abstracts will be published in the proceedings (with ISBN).

Special issue

A special issue paper is also scheduled in the Journal of Quantitative Spectroscopy & Radiative Transfer (JQST, Guest editors: G. Gousseti, Onofri, D. Jakubczyk & M. Kolwas)