



LASER IGNITION SUMMER SCHOOL 2018

JULY 2-6, 2018, SIBIU, ROMANIA

NATIONAL INSTITUTE FOR LASER, PLASMA and RADIATION PHYSICS, Magurele 077125, ROMANIA



GENERAL INFORMATION

The **LASER IGNITION SUMMER SCHOOL 2018** is organized within HORIZON 2020 - THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION 2014-2020. It is the second summer school of the European project **LASIG-TWIN 691688: LASER IGNITION - A TWINNING COLLABORATION FOR FRONTIER RESEARCH IN ECO-FRIENDLY FUEL-SAVING COMBUSTION** (<http://www.lasig-twin.eu/>; <http://ecs.inflpr.ro/Proiect LASIG-TWIN 691688.html>). The first summer school, LASER IGNITION SUMMER SCHOOL 2017, was held July 19-22, 2017, in Brasov, Romania. This year summer school lecture program will be conducted by experts within LASIG-TWIN and by invited external experts, covering the value chain of the project from fundamental to applied research and applications in the field of lasers, in particular for ignition. This school will promote the laser ignition research activities at National Institute for Laser, Plasma and Radiation Physics - INFLPR and at the European partners. It will provide an opportunity for all attendees to listen to lectures given by experts and to gather with them for the exchange of ideas within their own or even adjacent fields. A social program will be organized to learn about local attractions.

PARTNERS

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| NATIONAL INSTITUTE FOR LASER, PLASMA AND RADIATION PHYSICS - INFLPR Magurele 077125, Ilfov | UNIVERSITÄT BAYREUTH - UBT Chair of Engineering Thermodynamics and Transport Processes Universität Strasse 30, Bayreuth 95447 | THE UNIVERSITY OF LIVERPOOL - UL School of Engineering, The Quadrangle Street, Brownlow Hill, L69 3GH, Liverpool | CNRS Laboratoire EM2C, CentraleSupélec, Université Paris-Saclay, 3 rue Joliot Curie, 91192 Gif-sur-Yvette FRANCE | FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG e.V.; Fraunhofer IOF, Albert-Einstein-Strasse 7, Jena 07745 GERMANY |
| ROMANIA | GERMANY | UNITED KINGDOM | | |



UNIVERSITÄT BAYREUTH



Fraunhofer IOF

TOPICS

- A: FUNDAMENTALS OF LASER SYSTEMS. LASER SPARK PLUG DEVELOPMENT**
- B: LASERS USED IN TRANSPORTATION:**
 - APPLICATIONS IN RECIPROCATING ENGINES (VEHICLES, NATURAL GAS ENGINES)
 - LASER IGNITION IN PROPULSION SYSTEMS FOR SPACE TRANSPORTATION
 - LASER IGNITION OF GAS TURBINES, OTHERS
- C: CHARACTERIZATION OF INDUCED PLASMA, IGNITION AND COMBUSTION PROCESSES**
- D: TECHNOLOGIES - MATERIALS FOR FUTURE MANUFACTURING OF LASER IGNITION SYSTEMS**
- E: POSTER SESSION**

ATTENDEES & LOCATION

- The Summer School is intended for Romanian students (Master Students, PhD and PostDoc's) and it is also opened to European students. The number of selected attendees will be 40. The official language of the school is English.
- The Laser Ignition Summer School will be held at **Hotel IBIS SIBIU CENTRE**, Calea Dumbravii 2-4, Sibiu, Romania. <http://www.ibishotels.ro/hotel-ibis-sibiu>

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| IMPORTANT DATES | APPLICATION PERIOD | February 19 - April 20, 2018 |
| | NOTIFICATION OF ACCEPTANCE | May 10, 2018 |
| | REGISTRATION & POSTER SUBMISSION DEADLINE | May 31, 2018 |
| | SUMMER SCHOOL | July 2-6, 2018 |

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GENERAL RULES

- ➔ The applicant must be a Master student, PhD student or PostDoc working at or enrolled to a national institute from Romania or to a Romanian university. Applications made by foreign students from Europe are welcome. The number of foreign students is limited to 10 (ten).
- ➔ The applicant shall have an interest in lasers, optics and related topics, which allows the applicant to present an own research work poster at the poster session of the summer school.
- ➔ The Application Form must be completed and submitted by email to one of the addresses: gabriela.croitoru@inflpr.ro or oana.grigore@inflpr.ro. A Curriculum Vitae and a Letter of Recommendation are requested with the application. The letter could be provided by the MSc diploma thesis advisor, by the PhD thesis advisor, or by the head of the department where the applicant is enrolled.
- ➔ There will be **no travel support**.
- ➔ The participation is free of charge.
- ➔ A contingent of rooms will be reserved in advance for the summer school. There will be no additional fee for accommodation. As a rule, accommodation will be made in double-room type (two students in a double room). Participants that need to stay in a single room will have to inform in advance the organizing committee. Decision will be made depending also on the room availability. In this case, additional expenses will be supported by the applicant.
- ➔ The meals (daily lunch and dinner), the coffee breaks, an official dinner, as well as a social program are supported by the Summer School's organizer.
- ➔ A poster session will be held during the Summer School. Therefore each participant will be requested to confirm, during registration, her/his participation with a poster. Diploma will be awarded to the best three posters. A prize might be awarded to the best poster with outstanding results regarding laser ignition related topics.
- ➔ Each attendee will receive a certificate of participation.

LOCAL COMMITTEE

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|--------------------------|---------------------------|
| - CROITORU Gabriela | INFLPR, Magurele, Romania |
| - GRIGORE Oana Valeria | INFLPR, Magurele, Romania |
| - BRANDUS Catalina Alice | INFLPR, Magurele, Romania |
| - VOICULESCU Ana-Maria | INFLPR, Magurele, Romania |
| - TIHON Cristina-Elena | INFLPR, Magurele, Romania |
| - STANCIU George | INFLPR, Magurele, Romania |
| - PAVEL Nicolaie | INFLPR, Magurele, Romania |

Web page: http://ecs.inflpr.ro/Proiect LASIG-TWIN_691688-Laser Ignition Summer School 2018.html



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research-academi



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