



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






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		







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>

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.
 - ➔ **REGISTRATION CAN BE DONE ONLINE FOLLOWING THE LINK:**
<http://ecs.inflpr.ro/laserignitionschool2018/>
- For the Curriculum Vitae and the Letter of Recommendation please use the templates provided through this web page. The Letter of Recommendation should be given by the MSc diploma thesis adviser, by the PhD thesis adviser, or by the head of the department where the applicant is enrolled.
- NOTE:** If the web page does not work on some computers, please submit the filled templates (including the Application Form) to the school's email address: ignitionschool2018@gmail.com
- ➔ 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. A decision will be also made depending 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. A diploma will be awarded to the best three posters. A prize might be awarded to the best poster having an exclusive subject on laser ignition.
 - ➔ Each attendee will receive a certificate of participation.

LOCAL COMMITTEE

- 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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