



## LASER IGNITION SUMMER SCHOOL 2017

19-22 JULY 2017, BRASOV, ROMANIA

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



# LASER IGNITION SUMMER SCHOOL

19-22 July 2017, BRASOV  
ROMANIA



lasig-twin.eu  
research-academi

### FUNDING

European Union's Horizon 2020 Research and Innovation Programme,  
Grant No. 691688 LASIG-TWIN

**LASER IGNITION - A TWINNING COLLABORATION FOR  
FRONTIER RESEARCH IN ECO-FRIENDLY FUEL-SAVING COMBUSTION**

<http://www.lasig-twin.eu/>

Classic Inn Hotel

Str. Tibles 7-9, Brasov, ROMANIA

<http://classic-inn.ro/>; <http://classic-inn.ro/en/home/>



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### AGENDA

#### WEDNESDAY, 19 JULY

15:00-19:00	Speakers and students arrival. School Registration
19:30-21:00	Dinner

#### THURSDAY, 20 JULY

9:00-9:30	<b>*) Opening Session - Introductory Remarks</b> PAVEL Nicolaie, INFLPR, Magurele, Romania BECKERT Erik, Fraunhofer Institute, IOF, Jena, Germany
9:30-10:30	<b>Compact Nanosecond Laser System for the Ignition of Aeronautic Combustion Engines</b> FREYSZ Eric, Université de Bordeaux 1, France
10:30-11:00	<b>Pumping Configurations for Solid-State Lasers</b> PAVEL Nicolaie, INFLPR, Magurele, Romania
11:00-11:15	COFFEE BREAK
11:15-12:00	<b>Packaging of Laser Systems for Harsh Environments</b> BECKERT Erik, Fraunhofer Institute, IOF, Jena, Germany
12:00-12:45	<b>Laser Processing from Macro- to Micro- and Nanoscale</b> ZAMFIRESCU Marian, INFLPR, Magurele, Romania
12:45-14:00	LUNCH
14:00-15:00	<b>Growth of Laser Crystals and its Influence on the Laser Performance</b> KRÄNKEL Christian, Leibniz-Institut für Kristallzüchtung, Berlin, Germany
15:00-16:00	<b>Laser Materials Processing: Thin Films Deposition and Patterning</b> DINESCU Maria, INFLPR, Magurele, Romania
16:00-16:15	COFFEE BREAK
16:15-18:00	<b>**) POSTER SESSION</b>
19:00-20:30	OFFICIAL DINNER

\*) The Laser Ignition Summer School 2017 will be located in the conference room of Classic Inn Hotel, Brasov, Romania.

\*\*) The recommended size of the poster is A1 (height × width: 594 × 841 mm; 23.4 × 33.1 in). Please bring with you the poster also in electronic format. The authors of the award winning posters could be asked for a short oral presentation of their work.



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### FRIDAY, 21 JULY

8:30-9:15	<b>Application of Optical Measurement Techniques for the Characterization of the Laser Ignition Process</b> <b>BÄRWINKEL Mark</b> , Universität Bayreuth, Bayreuth, Germany
9:15 -10:15	<b>X-ray Tomography/Fluorescence by Synchrotrons and Conventional X-ray Sources. Application for Imaging and Metrology of Automotive Parts</b> <b>TISEANU Ion</b> , INFLPR, Magurele, Romania
10:15 -10:30	COFFEE BREAK
10:30 -11:30	<b>Basic of Crystal Growth from Melt</b> <b>VIZMAN Daniel</b> , West University of Timisoara, Timisoara, Romania
11:30 -12:00	<b>Fs-Laser Inscribed Waveguides in Crystals for Compact and Versatile Lasers</b> <b>KRÄNKEL Christian</b> , Leibniz-Institut für Kristallzüchtung, Berlin, Germany
12:00-13:00	LUNCH
13:00 -14:00	<b>Laser Ignition of a Gasoline Engine Automobile</b> PAVEL Nicolaie, INFLPR, Magurele, Romania
14:00-19:00	<b>SOCIAL PROGRAM</b> Visit to "CANIONUL 7 SCARI"
19:30-21:00	DINNER

### SATURDAY, 22 JULY

9:00-10:30	Closing Session Handing over the Diplomas of Attendances Poster Session Awards
10:30-	Speakers and students departure



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# SPEAKERS

<b>FREYSZ Eric</b>	Université de Bordeaux 1, France
<b>BECKERT Erik</b>	Fraunhofer Institute, IOF, Jena, Germany
<b>ZAMFIRESCU Marian</b>	INFLPR, Magurele, Romania
<b>KRÄNKEL Christian</b>	Leibniz-Institut für Kristallzüchtung, Berlin, Germany
<b>DINESCU Maria</b>	INFLPR, Magurele, Romania
<b>BÄRWINKEL Mark</b>	Universität Bayreuth, Bayreuth, Germany
<b>TISEANU Ion</b>	INFLPR, Magurele, Romania
<b>VIZMAN Daniel</b>	West University of Timisoara, Timisoara, Romania
<b>PAVEL Nicolaie</b>	INFLPR, Magurele, Romania



## ATTENDIES

### MSc

- |                             |  |
|-----------------------------|--|
| 1. GRECULEASA Madalin       | INFLPR, ECS Laboratory, Magurele, Romania                  |
| 2. CRĂCIUN Alexandru        | INFLPR, ECS Laboratory, Magurele, Romania                  |
| 3. KENTAROĞLU Emrah         | Kirikkale University, Kirrikale, Turkey                    |
| 4. RUIU George Daniel       | National Institute of Material Sciences, Magurele, Romania |
| 5. GHEORGHE Gabriela-Ionela | Institute for Nuclear Research, Pitesti, Romania           |
| 6. CIOABĂ Cristian          | Institute for Nuclear Research, Pitesti, Romania           |

### PhD Students

- |                                  |   |
|----------------------------------|---|
| 1. DONE Bogdan                   | University Politehnica of Bucharest, Bucharest, Romania |
| 2. CROITORU Gabriela             | INFLPR, ECS Laboratory, Magurele, Romania               |
| 3. VOICU Flavius-Marian          | INFLPR, ECS Laboratory, Magurele, Romania               |
| 4. GRIGORE Oana Valeria          | INFLPR, ECS Laboratory, Magurele, Romania               |
| 5. BRÂNDUS Catalina Alice        | INFLPR, ECS Laboratory, Magurele, Romania               |
| 6. COJOCARU Victor Gabriel       | INFLPR, CETAL, Magurele, Romania                        |
| 7. UNGUREANU Razvan              | INFLPR, CETAL, Magurele, Romania                        |
| 8. ȘTEFAN Angela                 | INFLPR, ECS Laboratory, Magurele, Romania               |
| 9. HĂU Ștefania                  | INFLPR, ECS Laboratory, Magurele, Romania               |
| 10. BERCEA Adrian-Ionut          | INFLPR, LASERS Department, Magurele, Romania            |
| 11. BRAJNICOV Simona             | INFLPR, LASERS Department, Magurele, Romania            |
| 12. DUMITRESCU Luminita Nicoleta | INFLPR, LASERS Department, Magurele, Romania            |
| 13. PETRE Marina-Geanina         | Institute for Nuclear Research, Pitesti, Romania        |
| 14. CHIOIBAȘU Georgiana-Diana    | INFLPR, CETAL, Magurele, Romania                        |

### PhD

- |                                  |   |
|----------------------------------|---|
| 1. STANCIU George                | INFLPR, ECS Laboratory, Magurele, Romania               |
| 2. DRAGUȘIN Diana-Maria          | University Politehnica of Bucharest, Bucharest, Romania |
| 3. STANCIU Catalina-Andreea      | INFLPR, ECS Laboratory, Magurele, Romania               |
| 4. JIPA Florin-Cosmin            | INFLPR, CETAL, Magurele, Romania                        |
| 5. GIUBEGA Georgiana             | INFLPR, CETAL, Magurele, Romania                        |
| 6. YONTAR Ahmed Alper            | Kirikkale University, Kirrikale, Turkey                 |
| 7. TIHON Cristina-Elena          | INFLPR, ECS Laboratory, Magurele, Romania               |
| 8. VOICULESCU Ana-Maria          | INFLPR, ECS Laboratory, Magurele, Romania               |
| 9. ACHIM (Popa) Cristina Mihaela | INFLPR, LASERS Department, Magurele, Romania            |
| 10. BRATU (Magureanu) Ana-Maria  | INFLPR, LASERS Department, Magurele, Romania            |
| 11. BERCU (PETRUS) Mioara Elena  | INFLPR, LASERS Department, Magurele, Romania            |
| 12. BĂNIȚA Ștefan George         | INFLPR, LASERS Department, Magurele, Romania            |
| 13. PAȚACHIA Mihai-Virgil        | INFLPR, LASERS Department, Magurele, Romania            |
| 14. ARJOCA Stelian               | West University of Timisoara, Timisoara, Romania        |
| 15. GHEORGHE Petronela           | INFLPR, LASERS Department, Magurele, Romania            |
| 16. URZICA Mariana Iuliana       | INFLPR, LASERS Department, Magurele, Romania            |
| 17. VASILE Tiberius              | INFLPR, LASERS Department, Magurele, Romania            |

### Students

- |                          |  |
|--------------------------|--|
| 1. TOMA Dan-Teodor       | University Politehnica of Bucharest, Bucharest, Romania  |
| 2. DEVAN Cristian-Drăgos | University Politehnica of Bucharest, Bucharest, Romania  |
| 3. STOYANOV Velizar      | Sofia University "St. Kliment Ohridski", Sofia, Bulgaria |
| 4. PETROV Lyuben         | Sofia University "St. Kliment Ohridski", Sofia, Bulgaria |