

Workshop 1: HISTORY, STATUS AND FUTURE OF LASER IGNITED COMBUSTION ENGINES

691688 LASIG-TWIN: LASER IGNITION - A TWINNING COLLABORATION FOR FRONTIER RESEARCH
IN ECO-FRIENDLY FUEL-SAVING COMBUSTION (http://www.lasig-twin.eu/)

Date: 29-30 September 2016

Place: National Institute for Laser, Plasma and Radiation Physics

Magurele, Bucharest 077125, ROMANIA

- PROGRAMME

	- DAY 1: 29 SEPTEMBER 2016 -		
9:00 - 9:30	Registration		
9:30 - 9:45	Welcome. Introduction Nicolaie PAVEL, Dr. National Institute for Laser, Plasma and Radiation Physics (INFLPR), Bucharest, ROMANIA		
9:45 - 10:45	HISTORY Early Achievements, Developments, Solutions and Current Challenges in Laser Ignition Ernst WINTNER, Professor Emeritus Technische Universität Wien, Wien, AUSTRIA 10:30-10:45 Questions & Answers		
10:45 - 11:00	Coffee break		
11:00 - 12:00	The Effects of Ignition Discharge Parameters on Combustion of Homogeneous		
	Mixtures in Engines Radu CHIRIAC, Prof. Dr. University POLITEHNICA of Bucharest, The Faculty of Mechanical Engineering and Mechatronics, Bucharest, ROMANIA		
	11:45-12:00 Questions & Answers		
12:00 - 13:00	Lunch time		
13:00 - 14:00	STATUS Laser Ignition for Space Propulsion - I - Gerhard KROUPA, DI Carinthian Tech Research (CRT), 9524 Villach, AUSTRIA 13:45-14:00 Questions & Answers		
14:00 - 15:00	STATUS Laser Ignition for Space Propulsion – II – Mr. Michael BÖRNER German Aerospace Center, Institute of Space Propulsion, Hardthausen, GERMANY		
	14:45-15:00 Questions & Answers		
15:00 - 15:15	Coffee break		
15:15 - 16:00	THE FUTURE - Teams in LASIG-TWIN Tackling Technological Challenges - Standardization, Legislative, Political and Social-Ethical Challenges for Laser Ignition Erik BECKERT, Dr. FRAUNHOFER IOF, Jena, GERMANY 15:50-16:00 Questions & Answers		
16:00 - 16:45	DISCUSSION SESSION (GUESTS AND PROJECT' PARTNERS) Moderated Discussion Round; Moderators: Erik BECKERT, PAVEL Nicolaie		
	- END OF DAY 1 OF THE WORKSHOP -		
18:30	DINNER (based on invitation)		







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DAY 2: 30 SEPTEMBER 2016

9:00 - 10:00	STATUS	Automotive Applications – I -
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Geoffrey DEARDEN, Prof. Dr. The University of Liverpool, UNITED KINGDOM

9:45-10:00 **Questions & Answers**

10:00 - 11:00 **STATUS** Automotive Applications - II -

> Traian DASCALU, Dr. INFLPR, Bucharest, ROMANIA

Adrian BIRTAS, Dr. Renault Technologie Roumanie, Bucharest,

ROMANIA

10:45-11:00 Questions & Answers

11:00 - 11:15 Coffee break

THE FUTURE - Technological Challenges for the Application of Laser Ignition 11:15 - 12:00

Moderated Discussion Round. Moderators:

Geoffrey DEARDEN

Mr. Mark BÄRWINKEL University of Bayreuth, Bayreuth, GERMANY

12:00 - 13:00 Lunch time

13:30 - 14:10

13:00 - 13:30 Wrap-up, Outlook to the Future Workshop Program and Workshop 2 in

Bayreuth Mark BÄRWINKEL, Nicolaie PAVEL

DISCUSSION SESSION (GUESTS AND PROJECT' PARTNERS)

14:15 - 16:00 LABORATORY TOUR

▶ LABORATORY OF SOLID-STATE QUANTUM ELECTRONICS (ecs.inflpr.ro); 45 min.

▶ LABORATORY OF LASER INDUCED PHOTOCHEMISTRY (http://llp.inflpr.ro/); 30 min.

► X-RAY MICROTOMOGRAPHY LABORATORY (http://tomography.inflpr.ro/); 30 min.

END OF THE WORKSHOP

18:30 DINNER (based on invitation)

The workshop will be held in a seminar room of THE NATIONAL LIBRARY OF PHYSICS - Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN-HH).

The Library is located in the courtyard of INFLPR.

