

Newsletter, October 2022

Forthcoming IOP Event:

Hydrogen Combustion – Current Research, 27th October 2022

The Institute of Physics Combustion Physics Group and the Combustion Institute (British Section) are jointly holding their one-day autumn meeting entitled 'Hydrogen Combustion – Current Research' on Thursday 27th October 2022. The event is sponsored by Rolls-Royce and will be held at their Learning and Development Centre in Derby.

Interest in hydrogen as a fuel for combustion applications has rapidly increased with the release of the government targets for net-zero by 2050. Low carbon hydrogen could be a versatile replacement for high-carbon fuels used today, helping to reduce pollutant emissions in vital UK industrial sectors and providing flexible energy for power, heat and transport.

The aim of this meeting is to bring together experts in the field of hydrogen combustion as a route to decarbonisation of energy production and sustainable transport. Researchers into the fundamental aspects of hydrogen combustion as well as those developing of solutions for industrial, energy storage and transport applications are invited to participate in this one-day meeting.

The programme of talks has already been finalised and can be viewed on the website. Abstracts for poster presentation are still being accepted. The deadline for poster abstracts and for registration is 20th October.

<https://iop.eventsair.com/hccr2022/>

Other forthcoming events:

11th European Combustion Meeting (ECM 2023), 26th-28th April 2023

The French Section of the Combustion Institute is organising the 11th European Combustion Meeting (ECM 2023), that will take place between April 26 and 28, 2023 in Rouen, France.

ECM is a forum for knowledge transfer in the field of combustion and related scientific and technological disciplines between academic researchers, graduate students and combustion professionals, aiming ultimately to promote combustion research in Europe.

<https://ecm2023.sciencesconf.org/>

2nd FERIA Conference, 4th-6th September 2023

The 2nd FERIA Conference (the Successor to the ECCRIA series of Conferences) is to be held at the University of Sheffield.

<https://www.tferf.org/2ndferia>

Applied Physics B, Topical Issue - "9th International Workshop on Laser-Induced Incandescence":

This Laser-Induced Incandescence topical issue will cover the latest breakthroughs in the field of thermal light-particle interaction and its use as a diagnostic technique. Included papers will cover the topics explored at the 9th International Workshop on Laser-Induced Incandescence, held at the University of Strathclyde, Glasgow, UK (June 12th-15th, 2022). Any manuscripts related to LII will be considered for inclusion (not restricted to papers presented at the Workshop).

The meeting brought together scientists from various research fields to discuss recent developments and future trends in laser-induced incandescence and related fields. Laser-induced incandescence (LII) has become an established method to characterise soot particles generated by combustion. However, its sub-processes are still not fully understood, applications to engineered nanoparticles are rapidly emerging

and its relationship to other optical diagnostics is of growing interest. As such this Laser-Induced Incandescence topical issue will focus on new developments, capturing the state of the art and new directions at the frontiers of this field.

<https://www.springer.com/journal/340/updates/23262122>

IOP Early Career Researchers Fund:

This fund provides partial financial support (up to £300) for early career researchers to attend international meetings and visit international facilities.

Details can be found here: <https://www.iop.org/about/support-grants/early-career-researchers-fund>