

# {IAPS4FUSION}

BRINGING FUSION DOWN TO EARTH

{iaps}  
international association of physics students

IOP Institute of Physics  
UNIVERSITY  
STUDENT  
NETWORK



The International Association of Physics Students (IAPS) and the Institute of Physics University Student Network (IOP USN) are delighted to present their first joint event: **iaps4fusion**.

An exciting opportunity for IAPS members, **iaps4fusion** will give students from all over the world a chance to visit the United Kingdom and explore some world-leading research in the field of plasma physics. In particular, our activities will focus on the theme of nuclear fusion which brings exciting physics and great hopes for the future to not only physicists but to a much wider audience.



Inside JET at the CCFE

## SCIENTIFIC EXCURSIONS

The four day event will take place from 27<sup>th</sup> September to 1<sup>st</sup> October 2015. During this time period visits to three main scientific research facilities will take place.

The first of these will be the University of Oxford – a historical academic institution in both science and humanities. Two full days and nights will be spent in Oxford



giving trip participants the chance to visit the wonderful city and some of the famous university's colleges.

No fusion trip would be complete without a visit to the Culham Centre for Fusion Energy (CCFE) which is home to the largest fusion reactor in the world, the Joint European Torus (JET). This experimental reactor works on the principle of magnetic plasma confinement. The CCFE also hosts the UK fusion facility, MAST, and is leading the way towards the completion of the international fusion reactor. Participants here will receive tours and talks from three local researchers who will describe aspects of their work at the facility.

After visiting these two locations, participants will make their way to one of the most beautiful areas of the British capital for a visit to Imperial College London – a world-renowned research facility in science, technology and medicine. While visiting Imperial College, participants will be invited by the Plasma Physics group to learn more about phenomena such as astrophysical plasmas and extreme materials as well as z-pinch machines and simulations of laser-plasma interactions.



Christchurch College, Oxford

## **MORE THAN SCIENCE**

While such a trip offers many enriching academic experiences, it is important to offer cultural excursions too. The current plan is to visit the famous London Science

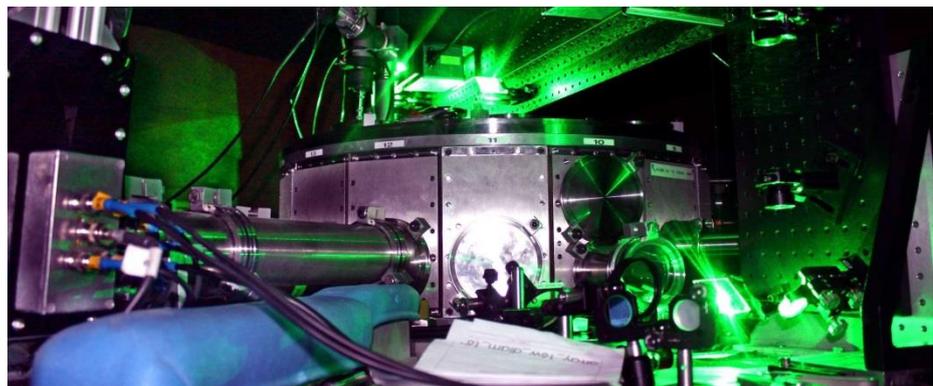


museum and the South Kensington area of London in addition to Piccadilly and Westminster.

However what is important in events such as these is a real chance for physics students to form an international network of friends and future colleagues. It is for this reason that we will also host social events such as group meals and opportunities to socialise over coffee with current PhD students and staff at the universities. This is a real chance for students to immerse themselves in the world of fusion research and hopefully this will be an event to remember for all involved.

## **ADMINISTRATION**

Registration for this event runs from 13:00 (CEST) on 2<sup>nd</sup> August and will end at the same time on 15<sup>th</sup> August. We aim to offer this experience for a participation fee of €120 per person, dependant on sponsorship. The event will be advertised via email, social media and via flyers distributed at events such as the International Conference of Physics Students and a total of 40 participants are expected.



M.A.G.P.I.E. at Imperial College London

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*The International Association of Physics Students and the Institute of Physics University Student Network look forward to welcoming you to the United Kingdom this September!*



## ABOUT IAPS

Founded in 1987, the International Association of Physics Students are an organisation run for students, by students. IAPS members are represented by national and local committees from across the globe and work continuously to support friendly relations and collaboration between physics students. IAPS supports its members in their academic and professional work, as well as discussing and acting on scientific, social and cultural issues.

IAPS runs an annual International Conference for Physics Students (ICPS), visits to global research institutions, summer schools, exchange programmes and multinational meetings all over the world.

For further details about IAPS, please visit [www.iaps.info](http://www.iaps.info)

## ABOUT IOP USN

The Institute of Physics University Student Network is a national committee of IAPS, representing the 18, 000 physics student in the UK and Ireland. The USN is run by student members of the Institute of Physics to act as a contact point for both students individually and student physics and astronomy societies. They serve to support their activities and encourage interaction between different societies. In addition, the USN actively promote the emergence of new societies at universities which do not currently have one, and are there to provide support to these new societies through their early stages.

Further information regarding the IOP USN can be found at [www.iop.org/activity/university-student-network/](http://www.iop.org/activity/university-student-network/)

