

Prize “Edouard Fabre” for contribution to studying the physics of laser-driven inertial confinement fusion and physics of laser produced plasmas.

The COST Action MP1208 “Developing the physics and the scientific community for Inertial Confinement Fusion” promotes the 2014 Prize entitled to the memory of Edouard Fabre. The prize, consisting in a certificate and 1500 €, will be delivered at the next 7th International Congress on Plasma Physics (ICPP 2014) held in Lisbon, Portugal, from the 15th to the 19th of September 2014.



Edouard Fabre has been one of the fathers of ICF studies in Europe, and a promoter of the direct-drive approach to Inertial Fusion for the Future Production of Energy. He began to work on CO₂ and ruby laser, later moving to Nd:glass. In the 70's he gathered the French laser and plasma scientists to work on ICF and related physics in a research group (GRECO), which was at the basis of future developments in the fields. In 1988 he founded LULI (Laboratoire pour l'Utilisation des Lasers Intenses), which has played a leading role in Europe in civilian academic research in ICF and HED science. The 6-beam laser facility at LULI allowed to perform academic implosion experiments all over the 80's. At the beginning of the decade, he and his collaborators showed that using short-wavelength lasers one could increase absorption, reduce the impact of parametric instabilities, minimize hot electron production and optimize hydrodynamic efficiency. This has opened the way to using short wavelength lasers for implosion experiments, which is nowadays the standard approach to compressing ICF targets.

The COST Action MP1208 aims at developing a scientific community in Europe working in Inertial Confinement Fusion and High Energy Density Physics. The Action is complementary and synergic to several initiatives going on in Europe, in particular the construction of Laser Megajoule and Petal in France (LMJ/PETAL facility), which will open to the European academic community for civilian research in 2017.

More info at:

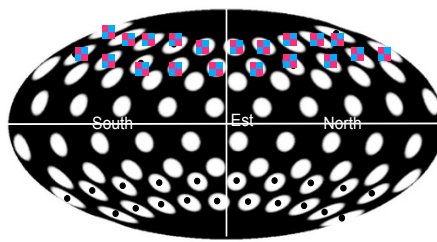
http://www.cost.eu/domains_actions/mpns/Actions/MP1208

How to apply:

Candidates should send the CV, list of publication, and a letter of application to the email address prize.fabre@gmail.com

No special form is required. No support letter is required. Nominations and self-nominations are accepted

Deadline for applications: 15 August 2014



Countries participating to MP1208 Action: France (proposer) Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Germany, Greece, Hungary, Ireland, Israel, Italy, Lithuania, Poland, Portugal, Romania, Serbia, Spain, Switzerland, United Kingdom