

## **C.16 Commission on Plasma Physics**

The scientific activities of IUPAP C.16 Commission on Plasma Physics during 2010 are:

The 2010 International Congress on Plasma Physics (2010 ICPP) in Santiago de Chile was held during the period 8-13 August 2010. This Category A Conference was sponsored by IUPAP, and was attended by large number of delegates from all over the world. The 2010 ICPP scientific program included 15 invited plenary talks, 23 invited topical talks, 45 oral contributions, and 160 poster contributions. The presentations reflected the present status of advancement in basic and applied plasma physics, in low-temperature processing and dusty plasmas, in space and astrophysical plasmas, in fusion plasmas (both the magnetic and inertial confinement fusion), as well as novel aspects of extreme states of plasmas in the universe and dense quantum plasmas, and plasma based charged particle acceleration.

During the ICPP Santiago de Chile, C.16 Chair Prof Shukla delivered a tutorial lecture on "Introduction to Quantum Plasma Physics". He also presented in an official ceremony the IUPAP C.16 Young Scientist Prize and Medal in Plasma Physics to Dr. Matthew Hole (ANU, Australia) for his contribution to the measurement, interpretation, analysis, and understanding of wave phenomena in plasmas, as well as his research leadership to champion an Australian research engagement with ITER. Dr. Hole was invited to ICPP2010 to deliver a plenary talk dealing with his Prize.

Furthermore, IUPAP C.16 business meeting was also held on 12th August during the 2010ICPP. The meeting was attended by many regular and associate members, as well as by Dr. Leopoldo Soto who reported the organization of ICPP2010 and the details of distributing IUPAP conference and travel grants to delegates from the developing countries. The two international conferences (2011 ICPIG Belfast, UK- Category A Conference, and 2011 ICPDP Garmisch-Patenkirchen, Germany; Category B Conference) in the year 2011 were strongly recommended by the members of C.16 for IUPAP financial support. The IUPAP C.16 Young Scientist Prize and Medal in Plasma Physics will be awarded to a low-temperature plasma physicist during the 2011 ICPIG Belfast.