

16th International Conference on Condensed Matter Nuclear Science

(ICCF 16) www.iscmns.org/iccf16
Chennai, India February 6 -11, 2011

Celebrating the centenary of discovery of the atomic nucleus



About the conference

Condensed Matter Nuclear Science (CMNS) is a new branch of science which deals with the occurrence of a variety of Low Energy Nuclear Reactions (LENR) in certain metallic lattices when they are loaded with deuterium or hydrogen. ICCF 16 is being organized by the International Society for Condensed Matter Nuclear Science (ISCMNS) in collaboration with the Indian Physics Association (IPA) and the Indian Nuclear Society (INS) at the GRT Convention Centre, T.Nagar. Patronage has also been extended by MRSI, ISRP, ICS, NIAS in India and the New Energy Foundation (NEF) of USA

This is the first time that an ICCF series conference is being held in India

About a 100 International and 50 Indian scientists are expected to participate

Chairman of National Steering Committee :
Dr. P.K.Iyengar, Former Chairman, Indian AEC

Topics to be covered

Physics of Deuterated / Hydrided Metallic Lattices

Properties of Hydrogen in metals; Electrochemical & Gas Loading of deuterium/ hydrogen in metals & alloys ; Measurement of hydrogen isotope loading & distribution in near surface region; Metallurgical treatments & surface characterization studies; Characterization of hydrogen in metallic nano powders & multilayer thin film complexes; Study of the interface and processes at interface

Measurement techniques

Calorimetry and excess of power measurements; Nuclear (Radiation) measurements; Isotopic composition studies; Transmutation studies; Electrochemical measurements

Theory

Modelling of nuclear reactions catalyzed by metallic deuterides/hydrides; Role of Condensed Matter effects in enabling nuclear processes

Pre-conference Tutorial School

Theme : **"Introduction to the Science of Low Energy Nuclear Reactions"**

Saturday Feb 5, 2011. 9.30 am to 5.30 pm

Under the Auspices of IPA and "Science Club" of Chennai.

Venue : ICSR Auditorium, IIT Madras

Faculty of School

Dr. E.Storms (USA), Dr. M.McKubre (USA), Dr. D.Nagel (USA)
Prof. X.Z.Li (China), Dr. Y.Iwamura (Japan); Dr. V.Violante (Italy)
Dr. A.Meulenberg (Penang, Malaysia) and Prof. V. Vysotskii (Ukraine)

There is no registration fee for this School but intending participants must register in advance with Mr. L.V.Krishnan, at iccf16india@gmail.com, (M) 0-98840 65641 or Mr. M.R.Sridharan at scienceclub_2001@yahoo.co.in, (M) 0-97890 20501

First Post Conference Workshop

Topic : **"Materials Issues in LENR Devices"**

Feb 12-13, 2011

Venue : Chariot Beach Resort Hotel, Mamallapuram

Co-sponsored by Indira Gandhi Centre for Atomic Research (IGCAR)

jointly with Kalpakkam Chapter of Materials Research Society of India (MRSI)

Informal discussions expected to explore role of materials properties of bulk metals, nano powders, thin films and multilayer complexes fabricated out of Pd, Ni, Ti, Zr etc in catalyzing the occurrence of nuclear reactions when heavily deuterated or hydrided. Participation in the Workshop is limited to about 40 participants who are active in the area of Materials Science.

Convener of the Workshop : Dr. C.S.Sundar (css@igcar.gov.in), Director, Materials Science group of IGCAR

Co-convener Dr. V.Violante (vittorio.violante@enea.it) of ENEA, Italy

Local arrangements coordinated by Dr. A.K.Tyagi (akt@igcar.gov.in), (M) 91-98942 86503

There is no separate registration fee for this workshop but interested participants must register in advance with one of the above persons

Second Post Conference Workshop

Topic : **"Biological Nuclear Transmutations : Historical Perspective and Applications"**

Tuesday Feb 15, 2011

Venue : SRM University (SRMU), Kattankulathur campus 15 km beyond airport on Highway to Chengalpattu

Organized by Kalpakkam Chapter of the Indian Institute of Metals and the Biotechnology Department of SRMU

Main lecturer : Prof. V.Vysotskii (Kiev National Shevchenko University, Ukraine)

There is no registration fee for the Workshop but interested participants must register with **Workshop Coordinator** Dr. Richard Thilagaraj, at richard.thilagaraj@gmail.com

(M) 98407 12683 or Dr. Rani George, Joint Coordinator at rani@igcar.gov (M) 94447 50770

Accommodation can be arranged at the SRMU guest house for the nights of Feb 14 & 15

Registration fee for main ICCF 16 conference

Delegates from India: ₹ 4,500

Foreign participants: \$ 580 (Upto 30th September 2010)

Special concession for Students: 50%

Deadline for submission of abstracts: 15th October 2010

For more information please contact

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