



# *ICCF 16*

*16<sup>th</sup> International Conference  
on Condensed Matter Nuclear Science*

**CONFERENCE PROGRAMME**

**February 6 to 11<sup>th</sup> 2011**

*GRI Convention Centre,  
T Nagar, Chennai – 600 017*

**DAY 0      SUNDAY      6<sup>TH</sup> FEBRUARY 2011**

**16.00**      *Registration at GRT Grand Hotel Main Lobby*

**18.45**      *Welcome Reception & High Tea at Emeraldó (1<sup>st</sup> Floor)*

**DAY 1      MONDAY      7<sup>TH</sup> FEBRUARY 2011**

|       |                                       |                                                                                                                                                                                              |
|-------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 08.00 | Registration at GRT Convention Centre |                                                                                                                                                                                              |
| 09.30 | Inaugural Session                     | : <i>Welcome Speeches</i><br><i>Keynote Address</i> : Prof. Robert Duncan<br><i>Inaugural Address</i> : Mr. S. Banerjee,<br>Chairman, AEC                                                    |
| 10.45 | Coffee Break                          |                                                                                                                                                                                              |
| 11.10 | Session 1                             | <b>Plenary Session</b><br><b>Chairman: Dr. Bikash Sinha</b>                                                                                                                                  |
| 11.10 | 0v 01 : M. McKubre                    | : <i>"What is needed in LENR/FPE studies"</i>                                                                                                                                                |
| 11.30 | 0v 03 : E. Storms                     | : <i>"The Status of Cold Fusion"</i>                                                                                                                                                         |
|       | 0v 02 :                               | : <i>"What is Real about Cold Fusion and<br/> What Explanations are Plausible?"</i>                                                                                                          |
| 12.00 | Country summaries                     | : <i>Present Status of LENR (7 mins each)</i><br><b>E. Storms</b> : <i>USA</i><br><b>I. Goryachav</b> : <i>Russia</i><br><b>Bill Collis</b> : <i>Italy</i><br><b>Kitamura</b> : <i>Japan</i> |
| 12.30 | F. Celani                             | : <i>Brief Report on Rossi-Focardi 10 KW Demo</i>                                                                                                                                            |
|       | M. Melich                             | : <i>Additional Remarks on Rossi-Focardi<br/> Experiment</i>                                                                                                                                 |
| 13.00 | Lunch Break                           |                                                                                                                                                                                              |

## Session 2

## Gas Loading - I Chairman: Dr. F. Celani

- |       |                     |                                                                                  |
|-------|---------------------|----------------------------------------------------------------------------------|
| 14.15 | GL 02 : A.Takahashi | : <i>"Modeling Anomalies in Nano-Palladium D(H)-Gas Loading Experiments"</i>     |
| 14.40 | GL 04 : M.A.Imam    | : <i>"Fabrication, Characterization, and Evaluation of Arata Style Alloys"</i>   |
| 15.05 | GL 05 : D.A.Kidwell | : <i>"Is the Excess Heat from Gas Loading Consistent With D-H Exchange?"</i>     |
| 15.30 | GL 09 : E.Storms    | : <i>"Examination of errors that occur when using a gas- filled calorimeter"</i> |
| 16.00 | Coffee Break        |                                                                                  |

## Session 3

## Gas Loading - II Chairman: Dr. W. collis

- |       |                       |                                                                                                                                                                   |
|-------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16.15 | GL 12 : F.Celani      | : <i>"Flow Calorimetric Measurements of Interaction of H<sub>2</sub>, D<sub>2</sub>, He with Nanocoated Wires of Ni and Pd-Alloy at Temperatures upto 850 °C"</i> |
| 16.40 | GL 03 : O.Dimitriyeva | : <i>"Mechanisms for heat generation during deuterium and hydrogen loading of palladium nanostructures"</i>                                                       |
| 17.05 | GL 06 : D.A.Kidwell   | : <i>"Nuclear "Ash" and Particle Detection in Gas Loading Experiments"</i>                                                                                        |

**DAY 2****TUESDAY****8<sup>TH</sup> FEBRUARY 2011****Session 4****Electrolysis - I****Chairman: Dr. J. Dufour**

- |              |                           |                                                                              |
|--------------|---------------------------|------------------------------------------------------------------------------|
| <b>08.30</b> | <b>EL 03 : F.Tanzella</b> | <b>: “Stimulation of PdDx Wires at Cryogenic Temperatures”</b>               |
| <b>08.55</b> | <b>EL 01 : S. Lesin</b>   | <b>: “The Theoretical Basis of Super Waving LENR”</b>                        |
| <b>09.20</b> | <b>EL 05 : M.Miles</b>    | <b>: “Electrochemistry and Calorimetry of Ruthenium Co- Deposition”</b>      |
| <b>09.45</b> | <b>EL 11 : M.A.Imam</b>   | <b>: “Metallurgy and Calorimetry of Pd-B and Pd-Ce-B Materials”</b>          |
| <b>10.10</b> | <b>EL 09 : Y.Bazhutov</b> | <b>: “Calorimetric &amp; Nuclear Phenomena in Anode Plasma Electrolysis”</b> |
| <b>10:35</b> | <b>Coffee Break</b>       |                                                                              |

**Session 5****Electrolysis - II****Chairman: Dr. Y. Iwamura**

- |              |                              |                                                                                  |
|--------------|------------------------------|----------------------------------------------------------------------------------|
| <b>10.50</b> | <b>EL 12 : M.Miles</b>       | <b>: “Investigations of Possible Shuttle Reactions in Co-Deposition Systems”</b> |
| <b>11.15</b> | <b>EL 10 : B.P.Roarty</b>    | <b>: “Protocol for a Silicate-based LENR Using Electrodes of Various Metals”</b> |
| <b>11.40</b> | <b>EL 15 : F.Scholkman</b>   | <b>: “Statistical Analysis of Diurnal Variations in an LENR Experiment</b>       |
| <b>12.05</b> | <b>GL 10 : G.V.Tarasenko</b> | <b>: “Cold nuclear fusion in the earth's crust”</b>                              |
| <b>12.30</b> | <b>Group Photo</b>           |                                                                                  |
| <b>13.15</b> | <b>Lunch Break</b>           |                                                                                  |

14.30

## Session 6

## Poster Session

*Coffee will be served at Poster session venue*

- EL 13 : M.Miles : *"New Analysis of MIT Calorimetric Errors"*
- NP 03 : A.B.Karabut : *"Research into Excited Long Lived 0.6 - 6.0 Kev Energy Levels in The Cathode Solid Medium of Glow Discharge by X-Ray Spectra Emission"*
- Th 09 : V.I.Vysotskii : *"The Physical Reasons of Existence of Large-Size Neutron-Nucleus Molecules and Related Anomalies of Long-Distance Low Energy Fusion and Fission"*
- Th 11 : Y.N.Bazhutov : *"Erziotriton & Cold Nuclear Transmutation Coursed by it"*
- Th 14 : R.C.Gupta : *"Possibility of Nuclear-Fusion Occurring during Arc-Welding"*
- NP 06 : R.Stringham : *"Cavitation BEC Compression Pulse Explains Experimental Results"*
- EL 14 : D.S.Baranov : *"Production of Neutron-rich Bi Isotopes and Hypothesis about Formation and Decay of the living Nuclear Molecules"*

15.45

ISCMNS Annual General Meeting

17.45

Departure for Kalakshetra (at Tiruvanmiyur)

18.45

Cultural Programme at Kalakshetra

21.00

Return to Hotels

**DAY 3      WEDNESDAY      9<sup>TH</sup> FEBRUARY 2011**

**Session 7**

**Theory - I**

**Chairman: Dr. R. C. Gupta**

|              |                      |                                                                                                                              |
|--------------|----------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>08.30</b> | Th 05 : A.Meulenberg | : <i>"From the Naught Orbit to He<sup>4</sup> Ground State"</i>                                                              |
| <b>08.55</b> | Th 03 : N.Cook       | : <i>"Simulation of Palladium Fission Products Using the Lattice Model"</i>                                                  |
| <b>09.20</b> | Th 04 : K.P.Sinha    | : <i>"Quantum-Correlated Fluctuations, Enhanced Tunneling and Low-Energy Nuclear Reactions in Condensed Matter (Alloys)"</i> |
| <b>09.45</b> | Th 06 : J.Dufour     | : <i>"Introduction to pico-chemistry and experimental approach"</i>                                                          |
| <b>10.10</b> | Th 12 : A.Lakshmanan | : <i>"Compatibility of Ionic Crystal Lattice Assisted Fusion and Thermonuclear Fusion"</i>                                   |
| <b>10.35</b> | <b>Coffee Break</b>  |                                                                                                                              |

**Session 8**

**Theory - II**

**Chairman: Dr. Yu. Bazhutov**

|              |                          |                                                                                        |
|--------------|--------------------------|----------------------------------------------------------------------------------------|
| <b>10.50</b> | Th 07 : V.Dallacasa      | : <i>"Localization Effects of Low-Energy Deuterons in a Lattice"</i>                   |
| <b>11.15</b> | Th 08 : V.Vysotskii      | : <i>"Low Energy Sub-barrier Correlated Nuclear Fusion In Dynamical Systems"</i>       |
| <b>11.40</b> | Th 13 : R.C.Gupta        | : <i>"Possible Explanation for How Coulomb's Repulsion is Overcome in Cold-Fusion"</i> |
| <b>12.05</b> | <b>Early Lunch Break</b> |                                                                                        |
| <b>13.15</b> | Departure by bus         | : <i>Sightseeing trip to Mamallapuram &amp; Dakshin Chitra</i>                         |
| <b>19.30</b> | Dinner Meeting           | : <i>International Advisory Committee (Invitees Only)</i>                              |

**DAY 4****THURSDAY****10<sup>TH</sup> FEBRUARY 2011****Session 9****Nuclear Particle Measurements****Chairman: Dr. D. Nagel**

- 08.30 NP 01 : J.Kasagi : *"Dynamical screening effect on  $\alpha$ -decay in Metal during deuteron beam bombardment"*
- 08.55 NP 04 : A.Manuello : *"Neutron Emission Measurements During Loading Tests on Solid Specimens and Confirmations by EDS Analysis"*
- 09.20 NP 05 : A.Petrucci : *"Piezonuclear neutrons and transmutations in iron bars treated by ultrasounds"*
- 09.45 Th 10 : F.Frisone : *"Nuclear Exothermic Reactions in lattices Pd: A Theoretical Study of  $d$ - $d$  Reaction"*
- 10.10 EL 04 : S.Chubb : *"Magnetic Field Triggering of Excess Power in Deuterated Palladium"*  
(To be presented by M.Melich)
- 10:35 Coffee Break

**Session 10****Transmutations and Hot Spots****Chairman: Dr. J P Biberian**

- 10.50 Tr 01 : Y.Iwamura : *"Recent Advances in Deuterium Permeation Transmutation Experiments"*
- 11.15 Tr 02 : J.Dash : *"Characterization of Cathodes Before and After Electrolysis"*
- 11.40 Tr 03 : M.Valat : *"Pd Isotopic Variations After LENR Experiment"*
- 12.05 Tr 04 : D.Nagel : *"Craters in LENR Experimental Materials"*
- 12.30 Tr 06 : Y.N.Bazhutov : *"Observation of Pits and Pit Swarms in Plastic Solid-State Detectors Exposed in Space and their Erzion Interpretation"*
- 13:00 Lunch

**Session 11****Materials****Chairman: Dr. J. Kasagi**

- 14.15 Mt 01 : A.Kitamura : *"Characterization of Pd $\times$ Ni $\times$ Zr Oxide Compounds"*
- 14.40 Mt 02 : Y.Miyoshi : *"Effect of Forced Oxidization on Hydrogen Isotope Absorption/Adsorption Characteristics of Pd.Ni.Zr"*
- 15.05 Mt 03 : D.D.Dominguez : *"Are Oxide Interfaces Necessary for LENR?:"*
- 15.30 Mt 04 : V.Violante : *"The study of the Fleischman & Pons effect through the materials science development"*
- 16.00 Coffee Break

## Session 12

## Miscellaneous

Chairman: Dr. D. Knies

- 16.15 EL 02 : R.Johnson : *"The Evidence for the Fleischmann-Pons Effect"*
- 16.40 Mt 05 : E.Castagna : *"Correlation Between Surface Properties and Anomalous Effects in F & P Experiments"*
- 17.05 Th 15 : V.Godbole : *"Deuteron fusion using Pb nanoparticles"*
- 19:30 Conference Banquet  
("Southern Crown Hall", GRT Grand Hotel)

## DAY 5

## FRIDAY

11<sup>TH</sup> FEBRUARY 2011

## Session 13

## Engineering & Technology

Chairman: Dr. A. Meulenberg

- 08.30 ET 01 : D.L.Knies : *"Robust Performance Validation of LENR Energy Generators"*
- 08.55 ET 02 : D.J.Nagel : *"Optimization of LENR Energy Generators"*
- ET 05 : D.J.Nagel : *"Hot and Cold Fusion for Energy Generation"*
- 09.30 ET 03 : I.Goryachev : *"Technology of Environmentally Clean Remediating Radioactive Waste Based on Low Energy Transmutation of Radioactive Nuclides"*
- ET 04 : I.Goryachav : *"Technology of Wasteless Low Cost Desalinating Sea Water Based on Low Energy Transmutation of Chemical Elements"*
- 10:10 Coffee Break
- 10.30 Conference summary: Dr. D. Nagel
- 11.00 Concluding Session: Dr. M. McKubre
- 11.30 ICCF 16 Conference concludes