

# CECRI *news*

CENTRAL ELECTROCHEMICAL RESEARCH INSTITUTE, KARAIKUDI - 630006  
[Council of Scientific and Industrial Research]



*May - June 2008*



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## Management Council meeting

46th Management Council meeting of CECRI was held at CECRI on May 27, 2008.



## Research Council Meeting

45th Research Council Meeting of CECRI was held at SERC, Chennai on June 23, 2008.

## Foreign Deputation:

Dr. N. Palaniswamy, Scientist was deputed to Sharjah, UAE to deliver key-note address on "Marine Corrosion" at the Corrosion Workshop organized by the University of Sharjah during May 17-18, 2008 and to have interactions with the Corrosion Group on May 19, 2008. His visit was sponsored by the University of Sharjah.



2. Dr L. John Berchmans, Scientist has been deputed to Germany for three months from June 1, 2008 to pursue research on studies on the preparation of novel oxide materials with Professor K D Becker, Institute of Physical and Theoretical Chemistry, Technical University at Braunschweig, Germany under the CSIR-DAAD exchange programme.



3. Dr. V. Saraswathy, Scientist has been deputed to Korea for three months from June 1, 2008 to carry out experimental analysis and consolidation of data for report preparation and presentation of project report jointly with Professor Ha-Won Song, School of Civil Environmental Engineering, Yonsei University, Seoul, Korea under SSP 14/06 on Studies on the development of high durability and multifunctional concrete. Her visit is sponsored by Yonsei University.



4. Dr. S. Vasudevan, Scientist was deputed to France for 15 days from June 1, 2008 to pursue research on Enhanced Processes for the removal of Nitrate from water at the Laboratoire De Catalyse En Chimie Organique, University of Poitiers, France under the joint collaborative project sponsored by the Indo-French Center for the Promotion of Advanced Research [IFCPAR], New Delhi.



5. Professor A K Shukla, Director visited Bulgaria from June 9 to 16, 2008 to [1] participate in the 7th International



Conference on Lead Acid Batteries, [2] visit the Institute of Electrochemistry and Energy Systems and [3] visit the ELCHIM Iskra Battery Plant. His visit is sponsored by M/s

NED Energy Limited, Hyderabad under the sponsored project.

## Invited Lecture

Dr.V.Thangadurai, University of Calgary, Department of Chemistry, Alberta, Canada delivered a lecture on "Recent



Developments in Solid Electrolytes for Application to Lithium Ion Batteries and Fuel Cells" on 27-06-2008.

## Technical Services Undertaken

Title: Evaluation of "Kirloskar" VRLA Batteries as per JIS 8702 – I Specification on the following batteries:

1. 12 V/45 Ah
2. 12 V/65 Ah
3. 12 V/75 Ah

Organization: M/s Kirloskar Batteries (P) Ltd., Bangalore  
Value in Rs.: 4,11,000/-

Title: Testing of liquid paint samples  
Organization: M/s Cipy Polyurethane Pvt.Ltd., Pune  
Value in Rs.: 56,180/-

Title: Testing of blended Organophosphonate samples  
Organization: NLC Ltd, Neyveli  
Value in Rs.: 56,180/-

## Technology licensed

In-situ Electro Synthesis of Sodium hypo Chlorite for Disinfection and Water Treatment Applications.

M/s PPM Technologies, Chennai 600 045  
(Lumpsum Premium -Rs.56,180/- + demo charges Rs.280,90/- . Nature of License – Non exclusive, Period of License – 7 years)



## Sponsored Project

Title: Studies on the electrolysis of cuprous chloride and recovery of copper

Organization: M/s ONGC Ltd., Panvel  
Value in Rs.: 6,23,260/-

Title: Studies on coatings performance in sulphur dioxide environments.

Organization: M/s International Paint, Bangalore

Value in Rs.: 4,01,125/-

Title: Development of conducting polymer rechargeable battery for consumer applications.

Organization: Department of Science and Technology, New Delhi

Value in Rs.: 18,04,800/-

Title: Feasibility study on the preparation of Ribityl 3,4-Xylidine from D-Ribose

Organization: M/s Chemapol Industries, Mumbai

Value in Rs.: 2,29,900/-

## Consultancy

Title: Vetting of Cathodic Protection Design for the BPCL Pipeline

Organization: M/s Corrosion Control Engineers, Karaikudi

Value in Rs.: 1,61,800/-

Title: Testing of gold content in the gold electroplating done by Smart Creations, Chennai on copper items

Organization: M/s Smart Creations, Chennai

Value in Rs.: 1,12,360/-

## Industry oriented technology courses for 2008-09

CECRI conducts training courses useful for entrepreneurs and practitioners in the following disciplines during August 2008 March 2009:

Corrosion Science and Engineering

[5 modules]

Battery: Science and Technology

[2 modules]

Electrometallurgy

Electrodics and Electrocatalysis

Electrochemical Materials Science

Industrial Metal Finishing [2 modules]

Electroplating Metal Finishing Technology

[3 modules]

The courses are structured as modules, each lasting for 3-6 days. Candidates can register for as many modules as they desire. Please visit of our web for the course content, fees, date of commencement of each module, application form etc.

## Award of Ph.D. Degree

Bharathidasan University, Trichy has awarded the Ph D degree to:

Mr. A. Rajasekar former Research Scholar for his thesis on Identification of Hydrocarbon Degrading Bacteria by 16S rDNA Gene Sequencing and their Role on Corrosion of Petroleum Product Pipeline under the guidance of our Scientist Dr. N. Palaniswamy.

Mrs. S. Rekha former Research Scholar for her thesis on Studies on Electroless Copper Deposition under the guidance of our Scientist Dr. KN Srinivasan.

Alagappa University, Karaikudi has awarded the Ph. D degree to Mr. K. Raghavendran, Research Scholar for his thesis on Classical and Quantum Mechanical Computations on Spinel type  $\text{Li}_x \text{M}_y \text{Mn}_{2-y} \text{O}_4$  for lithium batteries under the guidance of our Scientist Dr. A. Veluchamy.

# Retirements on superannuation

May 2008

June 2008



Dr. H. Gomathi  
Scientist, Gr.IV(5)



Mr. C. Sri Vidya Rajagopalan  
Scientist Gr. IV(5)



Dr. G. Venkatachari  
Scientist Gr. IV(5)



Dr. P.G. Balakrishnan,  
Scientist, Gr. IV(4)



Mr. V. Sundaram  
Assistant [General] Gr(I)



## OBITUARY

### Professor S K Rangarajan

OBITUARY



We regret to inform the sudden demise of Professor S.K. Rangarajan, former Director, CECRI on April 29, 2008 at Bangalore. He was very humble and had an illustrious career starting as a college teacher passing through the roles of an ambitious scientist, internationally acknowledged professor. His work was of such high standard that it influenced the growth of electrochemistry in India. Specifically, his work on unified approach to modeling of interfacial phenomena has laid a firm theoretical foundation to the then empirical approach to electrochemical interfaces. He was very active throughout his life and was a friend, philosopher and guide to many budding scientists and students. To anyone who came to him, he gave away his knowledge without ever expecting any returns. His oft-repeated quotes were "Science is a human affair and not of machines" and "Mother Nature is not unkind. After all, it will show a way to those who seek".