

11:00 Summing Up : **Dr. Suju C. Joseph**
11:10 : Tea & Issue of Certificates
11:30 : Visit to NIIST
15:00 : Back to venue

Advisory Board

Dr. Mathews Cherian, Principal, Mar Ivanios College
Rev. Fr. Geevarghese Valiachangaveettil, Bursar, Mar Ivanios College
Dr. I.B. Singh, Advanced Materials and Processes Research Institute, CSIR, Bhopal
Dr. T.P.D. Rajan, NIIST, Thiruvananthapuram
Mr. M. Shaneeth, Head, Fuel Cell Section, VSSC (ISRO)
Dr. S.M.A. Shibli, HOD, Department of Chemistry, University of Kerala

Organizing Committee

Major V. Varghese (HOD)
Prof. Johnson Varughese
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Dr. James T. Joseph
Ms. Sreedevi K.R.

Prof. Aleyamma Mathew
Dr. Sumol Varghese
Prof. Suma P. Oommen
Dr. Sonia Mol Joseph

Organising Secretary

Dr. Suju C. Joseph

Convener

Dr. Suja Mathai

Address for Correspondance

Dr. Suja Mathai
Assistant Professor
PG & Research Department of Chemistry
Mar Ivanios College
Thiruvananthapuram

Ph: 9633078868, 8547147460, 8547067230

E-mail: sujamathaikunnath@gmail.com, hydrogenmela@gmail.com

website : www.iaheam.org

Note:

There will be a competition among the participants (young researchers) regarding display of their characterization result (picture) from their own experimental work (SEM, TEM, Confocal, AFM etc). The interested candidates may send the photograph along with a certificate of attestation from the Guide/Head/Director by e-mail (sujamathaikunnath@gmail.com, hydrogenmela@gmail.com) before **13th October 2013**. The display may be structures, particles, surfaces, etc., and will be featured at the front cover of the proceedings of the present program.

- * Accommodation on prior payment.
- * Number of participants will be limited by first come first serve basis.
- * Duty certificate will be issued to the delegates coming from other institutions.

Registration fees:

Rs 300 for Research Scholars and Rs 600 for Faculty members/Scientists.

Mode of Payment: DD drawn in favour of 'The Convener', HEAM CAM-2013, from State Bank of India / Travancore, payable at Thiruvananthapuram.

HEAM CAM 2013

*A national level workshop on
Characterization of Advanced Materials*

6, 7 & 8 November 2013



Organized by



**PG and Research Department of Chemistry,
Mar Ivanios College, Thiruvananthapuram**

In association with



**Indian Association For Hydrogen Energy
And Advanced Materials (IAHEAM)**

Sponsored by



**Kerala State Council for Science, Technology
& Environment (KSCSTE)**

Venue : Mar Gregorios Conference Hall,
Mar Ivanios College, Nalanchira, Thiruvananthapuram
Visit : NIIST, Thiruvananthapuram

Mar Ivanios College, Thiruvanthapuram, established in 1949, is a prestigious higher educational institution in Kerala, having made significant contributions to the promotion of science, education & research in various academic fields. The college has been reaccredited with 'A' grade by NAAC (third cycle) and is a college with potential for excellence (UGC). The PG & Research Department of Chemistry (DST-FIST supported) which has a glorious past of fifty six years is renowned for various research activities that include solid state kinetics, biomaterials, electrochemistry, phytochemistry and synthetic organic chemistry. The department is organizing a three day National Level Workshop on Characterization of Advanced Materials, 'HEAM CAM-2013' in association with Indian Association for Hydrogen Energy and Advanced Materials. This program is contributed by eminent scientists from various national research institutions including NIIST, IISER, IIST, VSSC, SCTIMST, CECRI, IITM, NIT and TNCU. The tutorial sessions deal with AFM, TEM, STM, XPS, Confocal microscopy, 2D-NMR, Mass Spectrometry, Inductively Coupled Plasma Atomic Emission Spectrometry, Raman Spectroscopy, Tribological Characterization and other related material characterization techniques for better composites and surfaces. One of the salient features of this programme is that young research scholars and students will be tutored with advanced material characterization techniques.

Programme

6th November 2013

Registration	:	08:30 am
Inaugural Session	:	09:30-10:40
Welcome	:	Major V. Varghese HOD of Chemistry, Mar Ivanios College
Introduction	:	Dr. S.M.A. Shibli HOD of Chemistry, University of Kerala & President, IAHEAM
Inauguration	:	H.E. Most Rev. Dr. Samuel Mar Irenios Auxiliary Bishop, Major Archdiocese of Thiruvananthapuram
Presidential Address	:	Prof. V.N. Rajasekharan Pillai, Executive Vice President, KSCSTE and Principal Secretary, Science and Technology Department.
Felicitation	:	Dr. Mathews Cherian, Principal, Mar Ivanios College
Theme Talk	:	Mr. M. Shaneeth Head, Fuel Cell Section, VSSC (ISRO)
Vote of Thanks	:	Dr. Suja Mathai
10:45	:	Tea

Technical Session

11:00	:	Dr. Manoj Raama Varma, NIIST, Thiruvananthapuram TEM - Methods for Nano Characterization
11:45	:	Dr. M. Junaid Bushiri, CUSAT Raman Spectroscopy
12:30	:	Lunch
13:30	:	Dr. Mahesh Hariharan, IISER, Thiruvananthapuram Characterization by AFM
14:15	:	Dr. Muhamed Ashraf. P, CIFT, Kochi Electrochemical Impedance Spectroscopy and its Applications
15:00	:	Tea
15:15	:	Dr. R. Rajeev, VSSC XRD and its Applications

7th November 2013

09:30	:	Dr. T.P.D. Rajan, NIIST, Thiruvananthapuram Mechanical and Tribological Characterization of Materials
10:15	:	Dr. Edamana Prasad, IIT Madras Laser Flash Photolysis and its Technology
11:00	:	Tea
11:15	:	Dr. P.R. Anil Kumar, SCTIMST, Thiruvananthapuram Surface analysis by Confocal Microscopy
12:00	:	Dr. R. Manu, CECRI, Karaikudi Surface Profile Analysis using XPS
12:45	:	Lunch
13:30	:	Dr. J. Mary Gladis, IIST, Thiruvananthapuram Multi elemental analysis using Inductively Coupled Plasma Atomic Emission Spectrometry
14:15	:	Dr. L. Ravisankar, NIIST, Thiruvananthapuram NMR of Organic Molecules
15:00	:	Tea
15:15	:	Dr. Jobin Cyriac, IIST, Thiruvananthapuram Applications of Mass Spectrometry

8th November 2013

09:30	:	Dr. S. Nagarajan, Central University of Tamil Nadu, Thiruvavur Scanning Tunneling Microscopy and its application to nanoscience and technology
10:15	:	Dr. A. Sreekanth, NIT, Tiruchirappalli Applications of 2D and 3D NMR