Report on Two-day Lecture workshop on "Advnces in Chemical Sciences" during 4-5 April, 2009 at the Department of Chemistry, Mangalore University

Department of Chemistry has hosted a two-day lecture workshop on Advances in Chemical Sciences during 4-5 April, 2009 with the sponsorship of Indian Academy of Sciences Bangalore, Indian National Science Academy New Delhi and The National Academy of Sciences, India, Allahabad. The workshop was inaugurated by Prof. K.K Achary, Dean Faculty of Science and Technology and Professor of Statistics, Mangalore University. He emphasized the relevance of Statistics in the field of theoretical chemistry. The programme was attended by 89 M.Sc., M.Phil, Research Students, 12 Teachers from under graduate colleges and 10 faculty members of the university attended the programme. Prof. K.L. Sebastian Convener of the workshop highlighted the importance of such workshops and explained the aim and objectives of the National Academy of Science.

Prof. Sebastian delivered lectures on The strange and beautiful world of quantum mechanics and Molecular devices and motors. He explained the theory and applications of those two topics and made the participants to realize the importance theoretical chemistry in establishing authenticity of the experimental findings. His animated pictorial presentation made the participants to understand the role of theoretical chemistry in our daily life.

Prof. S. Sampath in his two lectures narrated the synthesis of nanostructure and its application as organic thin films. He also explained the applications of electrochemical biosensors as an analytical device in the study of changes in the physical properties of biological and non-biological systems.

Dr. K. George Thomas Delivered two lectures in which he described the synthesis and characterization of gold nanoparticles and their applications in various fields. He also stressed the need of carbon nanotubes and surface plasma resonance in metal nanoparticles.

Dr. C. H. Suresh gave two lectures on Application of Computational Chemistry to Reaction Mechanism and Reactivity and Theoretical revisiting of (S)-Proline catalyzed intermolecular Aldol Reaction- A eight step $H^+$ transfer mechanism.

At the end of each and every lecture the participants actively interacted and clarified their doubts. Even during the tea break also the participants were freely mixing with the speaker and getting answers for their various types of questions on the topic. I am of opinion that all the lecture were excellent, informative, inspiring and thought provoking. In fact some of our students are thinking of joining for research after their M.Sc. course. In the nut shell lectures motivated our students to look into the fundamentals and advances in the field.

The valedictory function was arranged with Dr. K. V. Udupa, Asst. Gen. Manger, SeQuent Scientific Ltd, Mangalore. In the participant feed back speech they thanked all the speakers and explained the benefit they got from the workshop lectures.

Coordinator and Chairman of the Department with his Presidential remarks thanked everyone.
MANGALORE UNIVERSITY

DEPARTMENT OF CHEMISTRY, MANGALAGANGOTHRI-574 199

Two-Day Lecture Workshop on 'Advances in Chemical Sciences', April 4 & 5, 2009

INAUGURATION

PROGRAMME

Date: 4th April, 2009

1. Escorting guests to dias : 09.30 a.m.

2. Invocation : Ms. Veen & Mrs. Divya N Shetty : 09.32 a.m.

3. Welcome & Introduction : Prof. J. Ishwara Bhat
   Chairman, Dept. of Chemistry : 09.39 a.m.

6. About the Lecture Workshop: Prof. K.L. Sebastian
   IISc, Bangalore : 09.46 a.m.

7. Presidential Address : Prof. K. K. Achary
   Dean, Faculty of Science & Technology : 09.56 a.m.

8. Vote of Thanks : Prof. B. Narayana : 09.59 a.m.

9. Break for Tea : 10.00 a.m.

Master of Ceremony: Ms. Sumana V. S.
Time Table for 2 day Lecture workshop on “Advances in Chemical Sciences” during 4-5 April, 2009 at the Department of Chemistry, Mangalore University

<table>
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<tr>
<th>Date</th>
<th>9.30-10.00</th>
<th>10.00-10.15</th>
<th>10.15-11.45</th>
<th>11.45-1.15</th>
<th>1.15-2.00</th>
<th>2.00-3.30</th>
<th>3.30-3.45</th>
<th>3.45-5.15</th>
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<tbody>
<tr>
<td>4/4/09</td>
<td>Inauguration</td>
<td>tea</td>
<td>L1-Pof KLS</td>
<td>L2 Prof SS</td>
<td>Lunch</td>
<td>L3 Prof SS</td>
<td>Tea</td>
<td>L4 Prof.KLS</td>
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<td>9.30-11.00</td>
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<td>4/4/09</td>
<td>L5 Dr.KGT</td>
<td>tea</td>
<td>L6 Dr.KGT</td>
<td>Lunch</td>
<td>L7 Dr.CH5</td>
<td>Tea</td>
<td>L8 Dr.CH5</td>
<td>Valedictory</td>
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Prof. KLS: Prof K.L.Sebastian
L1: Strange and (beautiful) World of Quantum Mechanics
L4: Molecular Devices and Motors

Prof.SS: Prof.S.Sampath
L2: Atom/Molecule-up Synthesis of Nanostructures-Organic films
L3: Electrochemical Energy Systems and Electrochemical Biosensors

Dr. KGT: Dr.K.George Thomas
L5: Introduction to Nanomaterials
L6: Surface Plasmon Resonance in Metal Nanoparticle

Dr. C.H.Suresh
L7: Application of Computational Chemistry to Reaction Mechanism and Reactivity
L8: Theoretical revisiting of (S)-Proline catalyzed intermolecular Aldol Reaction- A eight step H+ transfer mechanism.

Place: Mangalagangothri
Date: 4-5 April, 2009

Signature
Convener / Coordinator