

## **Science Academies' Lecture Workshop on "Nano-Science and Nanotechnology"**

**Department of Physics, Alva's Institute of Engineering and Technology**

**Mijar-574225, Moodbidri, Mangalore**

### **Brief Report on two days Science Academies' Lecture Workshop on "Nano-Science and Nano-Technology" held on 11-12 March 2016**

The department of engineering physics, Alva's Institute of Engineering and Technology organized two day Science academies' lecture workshop on Nano-Science and Nano-Technology on March 11-12, 2016. After the announcement of the workshop, we received total 176 registrations and hence using different criteria participant list was short listed to 125. Finally 130 participants participated which includes 89 students, 30 teachers, 07 resource persons and 04 supporting staff. Participants from 19 various departments or colleges have participated, details are as follows.

Physics, Alva's Institute of Eng & Tech, Moodbidri  
PG Physics, Alvas College, Moodbidri  
PG Chemistry, Alvas College, Moodbidri  
BE, Alva's Institute of Eng & Tech, Moodbidri  
Materials Science Department, Mangalore University  
Electronics department, Mangalore University  
PG Physics, National Institute of Technology, Suratkal  
PG Physics, SDM, Ujire  
PG Physics, St. Aloysius, Mangalore  
PG Chemistry, St. Aloysius, Mangalore  
B.Sc, St. Aloysius, Mangalore  
Physics, Manipal Institute of Technology, Manipal  
Physics, NMAMIT, Nitte  
Physics, PA College, Mangalore  
Physics, SDIT, KENJAR  
Physics, SDMIT, UJIRE  
Physics, SJEC, Mangalore  
Physics, SIT, Mangalore  
Physics, KVG, Sullai

### **Inaugural Session**

The workshop was formally inaugurated by the convener of the workshop, **Prof. Giridhar U Kulkarni**, Director, Center for Nano and soft Matter Sciences, Bengaluru. **Prof. Timothy**

**Fisher**, Purdue University, USA was the chief guest of the function. **Mr. Vivek Alva**, Trustee, Alva's Education Foundation, Moodbidri presided over the function. **Prof. Peter Fernandez**, Principal, Alva's Institute of Engineering and Technology, Moodbidri was present in the function. **Dr. Santhosha Acharya**, HOD, Department of Physics welcomed the gathering. **Dr. Ramaprasad A. T.**, co-coordinator of the workshop briefed about the lecture workshop and **Mr. Rajesh Kumar P**, Assistant professor, Dept. of Physics proposed vote of thanks.

## **Lecture sessions**

Lecture workshop contained altogether ten invited talks. Including convener of the workshop seven resource persons handled the sessions. **Prof. G.U. Kulkarni**, Director, Centre for Nano and Soft Matter Sciences, Bengaluru had given two talks; one on "Nanoscience & Technology: Concepts and materials" and another on "Nobler than the Noblest: non-FCC Au crystallites". **Prof. Timothy S. Fisher**, School of Mechanical Engineering & Birck Nanotechnology Center, Purdue University, USA, talked on "Thermal and Energy Nano materials for Fast Processes". **Prof. Praveen C Ramamurthy**, Materials Engineering, Indian Institute of Science, Bengaluru discussed about "Organic Nano electronics: issues and challenges". **Prof. M. Eswaramoorthy**, Chemistry and Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru, handled two sessions and he talked on "Drug delivery through carbon and silica based nanostructures" and another on "Nanoporous materials". **Prof. Govindaraju T**, New Chemistry Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru, also handled two sessions and he talked on "Template DNA Technology" and another on "Bioinspired Nanoarchitectonics ". **Prof. U. Balachandran**, Argonne Distinguished Fellow; Materials Scientist; Section Leader, Ceramics Section, Energy Systems Division, Argonne National Laboratory, USA, handled a session on "Nano Technology to overcome materials challenges for sustainable energy systems". **Prof. Manjunatha Pattabhi**, Department of Materials Science, Mangalore University, talked on "Antimicrobial Applications of Silver Nanoparticles".

## **Discussion and Conclusion**

A discussion cum feedback giving session was arranged on the second day of the Lecture Workshop. These sessions reflected that the ten lecture sessions were informative as well as interactive. The Resource persons addressed the participants and motivated them to undertake research in the field of Nano-Science and Nano Technology. The formal vote of thanks on behalf of the Department of Physics of Alva's Institute of Engineering and Technology was proposed by coordinator of the workshop Dr. Ramaprasad A.T.



**Inauguration by Prof. G.U Kulkarni**



**Inaugural Address by Convener Prof. G.U Kulkarni**





**Chief Guest address by Prof. Timothy Fisher**



**About the lecture workshop by Coordinator Dr. Ramaprasad A.T**





Interaction of participant with resource person Prof. G.U Kulkarni



Prof. Timothy S Fisher during his lecture







**Prof. U. Balchandran during his talk.**



**Prof. Eswaramoorthy interacting with participants**



Group Photo of participants with resource persons