

Report of the National Conference on

“Material Science and Technology (NCMST-2014)”

A UGC and DST funded Two days National Conference on “Material Science and Technology” was held at Milliya College on 23-24 December 2014. For this conference 160 participants were registered from different state of India such as Tamilnadu, Gujrat, Telangana, Karnataka and Maharashtra. The full length papers were called for desirous participants and arrangement was made to publish the special issue with **Journal of Advances in Applied Science and Technology, Print ISSN 2393-8188 and Online ISSN 2393-8196**. We have received 80 full length papers for publication in a special issue of material science and 88 abstracts. Out of 88 abstracts 59 were selected for oral presentation in three different technical sessions and 29 for posters.

Inaugural Function: (23rd December 2014)

In the first session the inaugural function of the same was held at about 10.30 am, **Prof. Dinesh Aswal** from BARC-BRNS was the chief guest of this inaugural function, while **Prof. R. Dhanasekhran**, Anna University, Chennai and **Prof. M.D. Shirsat**, Dr. BAMU, Aurangabad were guest of honors and **Principal Dr. Mohammed Ilyas Fazil** Preside over the function. The Introductory Speech was delivered by the convener of The Conference **Dr. Hussaini S.S.** He addressed the aim and objective of the conference organization. **Prof. M.D. Shirsat** expressed his views and emphasized on the importance of research in colleges and motivates the teachers and young researchers by delivering an informative speech. **Prof. R. Dhanasekhran** also expressed his views and appreciates the efforts of organizing committee for such conference. In chief guest address **Prof. D.K. Aswal** showed the importance of Material Science research. Finally the vote of thanks was offered by **Dr. A.J Khan**.

Technical session-I: (23rd December 2014)

After a short tea break first technical session was started at about 11:45 am. The Key note address was delivered by Prof. R. Dhanasekhran on “**Development of technologically important materials and their characterization**” in which he covered many important aspect of material research such as NLO Materials in which he discussed Borate Based Materials and Growth and characterization of Yttrium Calcium Oxyborate Crystal $YCa_4O(BO_3)_3$ - Au ion and Gamma ray irradiation LCOB & Nd: LCOB also the research on

Bismuth Zinc Borate And other organic and Semiorganic single crystals. His talk was very informative; many participants asked doubts and got them cleared from invited speaker. This Session was chaired by **Prof. M.D. Shirsat**. Thereafter in same session another invite speaker **Dr. D.K. Aswal** has given his talk on “**Materials Characterization: What we want to know and how to find them out**” In his talk he explained about the different material and their use in our daily life and in particular for common man, he also explained in very handsome manner about the different characterizations techniques related to material research. He covered maximum characterizations during his one hour talk. In interaction many delegates raised the questions and their doubts and got them cleared in satisfactorily manner by the invited speaker. At the end of the session both invited speakers and chair persons were felicitated by the organizing committee.

After this session at about 2=00 PM the launch was served to all.

Technical session-II: (23rd December 2014)

Second technical session was started at about 2.45 pm, this session was chaired by **Dr. Gulam Rabbani**, Maulana Azad College, Aurangabad. First invited talk of this session was delivered by **Prof. M.D. Shirsat**, Head Department of Physics, Dr B.A.M.U. Aurangabad on Porphyrins functionalized SWNTs: Chem FET and Chemiresistive Sensor Array. He explained all about the sensors and its applications in very handsome manner.

Second invited talk was chaired by **Dr. Mazher Farooqui**, Maulana Azad College, Aurangabad and the invited speaker was **Dr. Gajanan Muley**, Department of Physics, Sant Gadge Baba University Amravati. He had delivered lecture on **Investigation of third order nonlinear optical properties of nanocomposite thin films by Z-scan technique.**

Oral Session I: (23rd December 2014)

After a short tea break oral session was started this session was chaired by **Dr. Rauf Pathan**, Maulana Azad Pharmacy College, Aurangabad. In this session **20** oral presentations were presented by the different researchers showing their research on different field of Material Science.

Poster Presentation: (23rd December 2014)

This session was chaired by Dr. S.A. Hafiz, Moulana Azad College, and Aurangabad. In this session many reseach students display their work and visirtes including Invited talk speakers and guest visited them a good and healthy interaction was also took place.

Dinner was served to all participants from 7 pm onwards at Anvita Hotel, Beed.

Technical session-III: (24th December 2014)

After breakfast and tea, the second day's session was started at 10 am; this session was chaired by **Dr A.B. Gambhire**, Department of Chemistry, Shri Anand College, Patherdi. The invited talk was delivered by **Dr. Senthil Pandian**, Research Scientist, Photovoltaic Laboratory, SSN College of Engineering, Chennai on **Fabrication of Dye Sensitized TiO₂ nanocrystalline Solar Cells (DSSC) using Organic & Ru complex dyes as sensitizers, Iodide / Triiodide (I⁻/I₃⁻) electrolyte and Transition Metal Carbide (TMC) based Counter Electrode**. This talk was very informative particularly to researchers working in the field of photo voltaic field.

After this the second invited talk was started at 11 am, this session was chaired by **Dr. Gajanan Mule**, Department of Physics, Sant Gadge Baba University Amravati. The invited talk was delivered by **Dr Habib Mohiuddin Pathan**, Sawitrybai Phule, University Pune; he has given the talk on the research of material Science in particular **Thin film and explained in detailed about the publications and patents**. Many researchers asked the questions and got them solved by the speaker.

Oral Session II: (24th December 2014)

After a short tea break oral session was started at 12:15 pm, in this session there were many oral presentations. All young researchers from different researcher institute shared their research work. This session was chaired by **Dr. R.V. Kathare**, Member of Board of Studies in Physics and Associate Professor K. M. J. Mahavidyalaya, Washi.

Then at about 1.30 pm the launch was served.

Oral Session III: (24th December 2014)

After luanch IIIrd oral presentation was started, which was chaired by **Dr. K.P. Kakade**, Principal, Arts, Science and Commerce College, Mukhade, in this oral presentation session remaining all presentation were covered.

Valedictory Function: (24th December 2014)

The valedictory function was held in the presence of Prof. M.D. Shirsat, Prof. Habib Pathan, Dr. Muthil Sendian Pendain and Dr. Gajanan Mule. This valedictory function was presides

over by the Principal Dr. Mohammed Ilyaz Fazil. The prizes were given to best poster and oral Presenters. All dignitaries expressed their views and congratulates the organizers for great success of conference, finally Convener, Dr. Hussaini S.S. offered the vote thanks and thanks to all along with UGC, DST and other sponsored and teaching non teaching staff of college and all delegates.

Outcome of the conference:

A very good response from audience is obtained for the conference. Each session of the conference was runed smoothly. All the participants were happy and their stay was pleasant. Participants gave nice expression regarding the success of conference, the conference refreshed research ideas of the young researchers. Researchers from well known research centers joined the conference. The team of college dedicated their abilities for the success of the conference. Students got new research ideas for the future development.

All management members were happy to see a good response.

Recommendations:

Participants gave suggestions as follows.

1. To arrange such conferences regularly.
2. To arrange International conference.
3. To make the arrangement of accommodation

Future Plan:

1. To arrange international conference.
2. To organize a workshop to students for research in crystal Growth

Acknowledgement:

Organizing committee of national conference expresses their thanks to UGC, DST.

Dr. Hussaini S.S.
(Convener)

Dr. Mohammed Ilyaz Fazil
Principal

Inaugural Session



Paper Presentation Session



Invited Talks



Prize Distribution to Best Papers Presenters



Valedictory Function

