



2nd INTERNATIONAL CONFERENCE
ON
RECENT ADVANCES IN MATERIAL SCIENCE
AND NANOTECHNOLOGY
Sponsored by DST-SERB, New Delhi

REPORT
RAMAN-2022
12th – 14th May 2022

Organized by
Department of Physics
G. S. Tompe Arts, Commerce & Science College,
Chandur Bazar
In Collaboration with
IQAC
Sant Gadge Baba Amravati University, Amravati (M. S.)

Report of 2nd International Conference on Recent Advances in Material Science and Nanotechnology

Department of Physics, G. S. Tompe College of Arts, Commerce and Science in collaboration with IQAC, Sant Gadge Baba Amravati University, Amravati organized the Second Three-Days International Conference on May 12, 13 and 14 sponsored by DST-SERB. The conference was held on the topic of Recent Advances in Material Science and Nanotechnology [Raman-2022]. This thought provoking conference was welcomed with Ku. Krushnai Dhananjay Bijwe Ganesha Vandana dance.

The conference was inaugurated at the hand of Dr. Dilip Malkhede, Vice Chancellor, Sant Gadge Baba Amravati University, Amravati. He said on this occasion that it is a matter of pride that the institute has provided useful facilities for the students in the rural colleges. The chief guest, Dr. S. S. Yavale, Director, Government Pre-IAS Training Center, Amravati, explained in details how physics is related to human life. Dr. F. C. Raghuvanshi, Former Dean, Science and Technology, Sant Gadge Baba, Amravati University, while praising the organizers for organizing the international conference at the taluka level, said that new researchers have great potential but they need proper guidance for advance research. Dr. Sandeep Waghuley, IQAC Director, Sant Gadge Baba Amravati University thank for organizing the conference jointly with the University and said that there was no doubt that the conference would provide impetus and guidance to the researchers. The program was chaired by Shri. Bhaskardada Tompe. He said that our society has always been committed to imparting quality education to the rural students. On this occasion, a Souvener was released at the hands of dignitaries. The program was conducted by Dr. Nidhi Dixit and Dr. Yugandhara Gulhane while the guests were introduced by Dr. Priya Deole, Introductory speech by Dr. Dhananjay Bijwe while Miss. Manjusha Pawar proposed a vote of thanks.

The keynote speaker of the first session was Dr. V. Natarajan, former Head of the Department, Department of Spectroscopy, BARC, Mumbai. He gave a scholarly, research-based analysis of Raman spectroscopy in the field and analyzed how future research would be useful. Prof. Dr. Vladimir V. Petrov, Department of Physics, Saratov State University, Russia, speaking on the subject of holographic acoustic displays, explains how modern aerosystems are being used in Russia in the field of autostereoscopic spectacles 3D displays. In his research article, he said that there is an opportunity to do many new researches in this field in the future. Plenary talk from Dr. S. J. Dhoble, Nagpur University, Nagpur. He gave the presentation on how phosphorus is applied. The keynote speaker of the second session was Prof. Dr. S. P. Yavale, Government Vidarbha institute of Science & Humanites, Amravati. He gave a scholarly presentation on Dielectric Relaxation in Conducting Polymers.

On the second day, in the first session, the keynote speaker Dr. Digambar Nadargi, Punyashlok Ahilya Devi Holkar, Solapur University presented detailed research on Advanced Materials Aeroagalance, Sol-Gel Methodology, Coating and Gas Sensor. He gave a presentation on how the application can be and how the battery storage will be increased in the future. Dr. K. R. Nemade, Indirabai College, Kalamb, in his article on the usefulness of future spin-field transistors. On the second day, in the second session, Dr. Luca Pellegrino, CNR-SPIN, Geneva, Italy, presented an online presentation on comparative research on silicon nanomechanics and oxide nanomechanics while presenting Microelectromechanical Systems with Oxide. Prof. Dr. Jaideep Sali, Head of Department, Physics, Kaviyatri Bahinabai Chaudhary North Maharashtra University, Jalgaon shared his research ideas on Fullerrance Bulk Heterojunction Using Macromolexin Shame, Modeling, Simulation and Experimental Studies. Presented.

On the last day, Dr. Sanjay S. Latte, Raje Ramrao College, Jat, Sangli presented his research on the use of Sodeest Polystyrene based Pallet and CI2 for water and oil leakage. Dr. Devraj Singh, Director, Veer Bahadur Singh Purvanchal University, Jaunpur, explained the Ultrasonic Analysis of Rare Earth

Materials with Research Examples on Elastic, Mechanical and Thermal Properties. While Dr. Dharendra Kumar Chaudhary, Scientist and Head of Department, Center for Renewable Energy, Veer Bahadur Singh Purvanchal University, Jaunpur presented his research paper on efficient, stable and unitary construction of Perovskite Solar Cell Device.

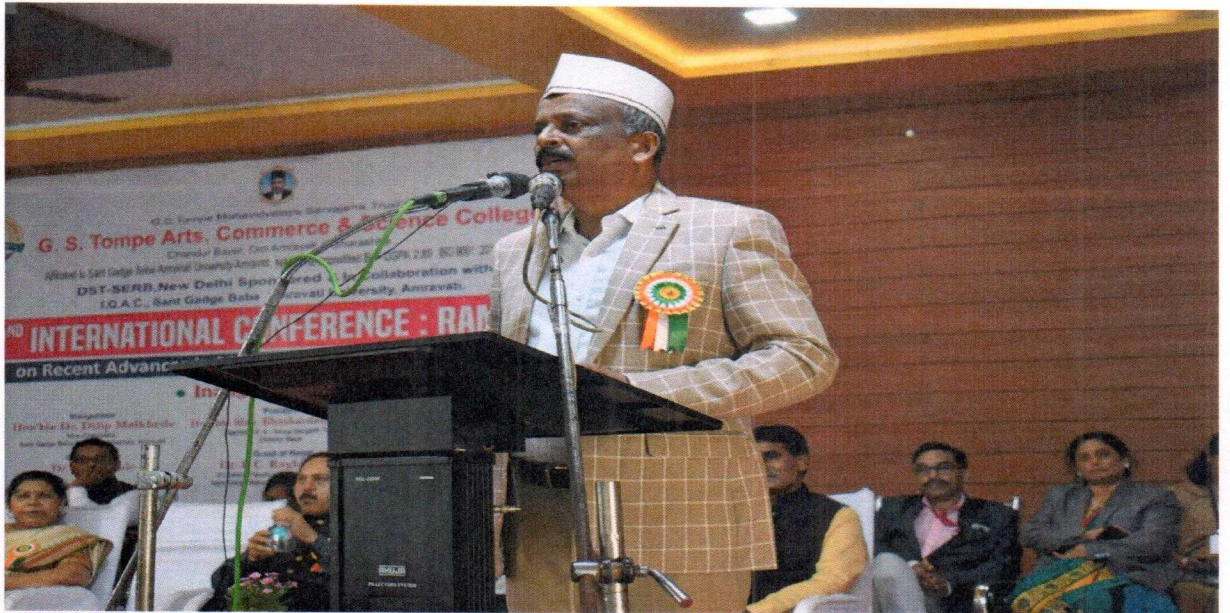
In the concluding program, Prof. Dr. Devraj Singh,, Dr. Rajesh Jaipurkar, Prof. Dr. S. K. Omanwar, Dr. Vijay Pavade, Dr. N. R. Pawar, Dr. Vijay Tompe, Principal Dr. Rajendra Ramteke, Dr. N. D. Gawhale, Dr. A. R. Bansod, Dr. U. P. Manik were present. The concluding program was presided over by the Secretary of the Society, Shri. Bhaskardada Tompe..Dr. Jaipurkar lauded the college for organizing such conferences to exchange new research and help in enhancing the research attitude and capacity of the researchers. At the end of the program, Dr. Ashutosh Rajgure announced the Best Poster, Oral, Inspirational Award and Outstanding Academic Excellence Award of the conference and winners were felicitated by the dignitaries.

About 200 researchers from different states registered for the conference. In the conference, 24 participants presented their research orally and 13 researchers presented their research through posters. Dr. Umesh Kanerkar and Dr. Shrikrushna Ubarhande conducted the programme while Dr. Priya Deole proposed a vote of thanks. The summary of the conference was presented by Dr. Dhananjay Bijwe. Dr. Gopal Dhokne, Dr. R. D. Barde, Dr. Anant Wadkar A. R. Bansod,

1. Inaugural Session

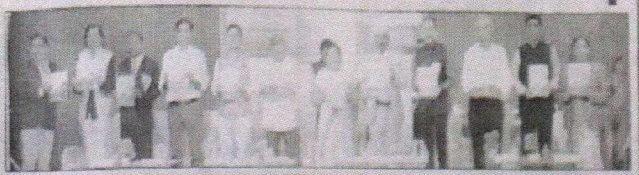


2. General Photograph





ग्रामीण छात्रों के लिए ग्रेड प्रणाली सर्वोत्तम विकल्प : डॉ. मालखेड़े



संवाददाता, 16 मई
चांदूर बाजार - स्थानीय गौ. सी. टोम्पे कला, वाणिज्य व विज्ञान महाविद्यालय में डीएसटी-एसई अंतरवी और आईक्यूएससी संत गाडगे बाबा अमरावती विश्वविद्यालय, अमरावती द्वारा आयोजित तीन दिवसीय अंतरराष्ट्रीय भौतिकशास्त्र सम्मेलन 12, 13 और 14 मई को संपन्न हुआ। सम्मेलन रिमोट एडवन्स इन प्रोडिगल माटेरिअल एण्ड नैनोटेक्नोलॉजी (रामन-2022) विषय पर आयोजित किया गया था। इस शानदार सम्मेलन की शुरुआत कु. कृष्ण रेड्डी धनंजय विजये के लोकार्पण चरन नृत्य में हुई। सम्मेलन का उद्घाटन डॉ. दिलीप मालखेड़े, कुलपति, संत गाडगे बाबा अमरावती विश्वविद्यालय, अमरावती के कार्यक्रम में किया गया।

उन्होंने उद्घाटन करते हुए कहा कि यह सर्वोत्तम विकल्प है। सम्मेलन ने ग्रामीण छात्रों के लिए

तीन दिवसीय अंतरराष्ट्रीय भौतिकशास्त्र सम्मेलन का समापन टॉम्पे कॉलेज में आयोजन अंतरराष्ट्रीय-राष्ट्रीय प्रसिद्ध वैज्ञानिकों, शोधकर्ताओं और प्रोफेसरों ने रखे विचार

उपयोगी सुविधाएं प्रदान की हैं। मुख्य अतिथि डॉ. एस. एस. यादले संचालक, गवर्नमेंट प्रीआईएस ट्रेनिंग सेंटर, अमरावती ने धिस्तर से बताया कि, भौतिकी मानव जीवन से कैसे संबंधित है। डॉ. एफ. सी. राघुवर्णी, पूर्व डीन, विज्ञान और प्रौद्योगिकी, संत गाडगे बाबा, अमरावती विश्वविद्यालय ने ग्राम स्तर पर अंतरराष्ट्रीय सम्मेलन आयोजित करने के लिए आयोजकों को प्रशंसा करते हुए कहा कि, नए शोधकर्ताओं में कानूनी संभावनाएं हैं। लेकिन उन्हें इसके लिए उचित मार्गदर्शन की आवश्यकता है। कार्यक्रम की अध्यक्षता कर रहे भास्करदादा टोम्पे ने कहा कि, संस्था तथेशा ग्रामीण छात्रों को गुणवत्तापूर्ण शिक्षा प्रदान करने के लिए प्रतिबद्ध है। कार्यक्रम का संचालन प्रा. डॉ. निधि दीक्षित एवं प्रा. डॉ. युगांधरा गुल्हानी ने किया,

जबकि मेहमानों का परिचय प्रा. डॉ. प्रिया देवळे, प्रस्तावना प्रा. डॉ. धनंजय विजये द्वारा किया गया। प्रा. मंजुषा पवार ने धन्यवाद ज्ञापित किया। प्रथम सत्र के मुख्य वक्ता डॉ. वी. नटराजन, पूर्व विभागाध्यक्ष, स्पेक्ट्रोस्कोपी विभाग, बीएआरसी, मुंबई ने साहित्य के क्षेत्र में रमन स्पेक्ट्रोस्कोपी का विद्वत्पूर्ण शोध-आधारित विश्लेषण दिया और यह शोध भविष्य में कैसे उपयोगी होगा, प्रा. क्लादिमीर बी. पेट्रोव, भौतिकशास्त्र विभाग, सेराटोब्रस्टे यूनिवर्सिटी, रूस, होलोग्राफिक ध्वनिक डिस्क के विषय पर बोलते हुए बताते हैं कि, रूस में ऑप्टोस्टेरोस्कोपिक 3 डी डिस्क के क्षेत्र में आधुनिक प्रोसेसिंग का उपयोग कैसे किया जा रहा है। अपने शोध लेख में उन्होंने कहा कि, भविष्य में इस क्षेत्र में कई नए शोध करने का अवसर है दूसरे दिन प्रथम

सत्र में मुख्य वक्ता डॉ. दिगंबर नादरणी, पुण्यशोक ऑस्ट्रिया देवी होल्कर, सोलापुर विश्वविद्यालय ने उन्नत सामग्री एप्लाइड सोल-जेल पदार्थ, कोटिंग और गैस सेंसर पर विस्तृत शोध प्रस्तुत किया। डॉ. अर्पिजीत यादव, लातूर ने सुपरकैपेसिटर के लिए नैनोस्ट्रक्चर मेटल ऑक्साइड थिन फिल्म का उपयोग सादर करते हुए भविष्य में बैटरी स्टोरेज कैसे बढ़ेगा यह प्रस्तुत किया। डॉ. के. आर. नेमाडे, इंदिरावाडी कॉलेज, कर्जब भविष्य में स्पिन-फोल्ड ट्रांसिस्टर की उपयुक्तता अपने पपर सादर किया। अंतिम दिन डॉ. संजय एस. लट्टे, राजे रामराव कॉलेज, जट, मागली ने पानी और तेल रिसाव के लिए मोडेस्ट पॉलीस्टाइरीन आधारित पैलट और सीआई 2 के उपयोग पर अपना शोध प्रस्तुत किया। प्रा. डॉ. देवराज सिंह

निदेशक, वीर बहादुर सिंह पूर्वांचल विश्वविद्यालय, जोनपुर ने लोचदार, यांत्रिक और धमल गुणों पर अनुसंधान उदाहरणों के साथ दुर्लभ पृथ्वी सामग्री के अल्ट्रासोनिक विश्लेषण की व्यवस्था की। जबकि डॉ. धीरेंद्र कुमार चौधरी, वैज्ञानिक एवं विभागाध्यक्ष, अखिल ऊर्जा केंद्र, वीर बहादुर सिंह पूर्वांचल विश्वविद्यालय, जोनपुर ने पैराबोलिक सोलर सेल डिवाइस के कुशल, स्थिर और एकात्मक निर्माण पर अपना शोध पत्र प्रस्तुत किया। सम्मेलन कार्यक्रम में प्रा. डॉ. देवराज सिंह, प्रा. राजेश जयपुरकर, प्रा. डॉ. एस. के. श्रीमन्मथ, प्रा. विजय पांडे, प्रा. एन. आर. पंडार, प्रा. किशोर टोम्पे, प्रा. चंद्रशेखर डी. मंडेकर, प्रा. ए. ए. वेंकटेश, प्रा. डॉ. सुनिता शर्मा, प्रा. सुधीर नाकडे, प्रा. डॉ. इरविण शर्मा, प्रा. डॉ. प्रमकुल चौधरी, प्रा. डॉ. नयनराज, प्रा. आरके. प्रा. आनंदरा ने सम्मेलन के आयोजन हेतु अत्यंत परिश्रम किये। सम्मेलन के संचालन, इतिहास के प्रचार्य, सभी प्रोफेसरों, शिक्षक-कर्मचारियों और छात्रों ने सम्मेलन को सफल बनाने के लिए अपनी इच्छा व्यक्त की और सहयोग दर्ज किया।

संस्था के संचालक श्री भास्करदादा टोम्पे उद्दिष्टों से कार्यक्रम के अंत में डॉ. आशुतोष राजपुर ने सम्मेलन के सर्वश्रेष्ठ पोस्टर, मौखिक, प्रस्तावक पुरस्कार और उत्कृष्ट अकादमिक उत्कृष्टता पुरस्कार की घोषणा की और विजेता को सम्मान-पत्रिकाओं द्वारा सम्मानित किया गया।

परिषद के लिए सत्र की अध्यक्षता प्रा. डॉ. योगेश चौधरी, प्रा. डॉ. आर. सी. पांडे, प्रा. डॉ. अनंत घडगकर, प्रा. ए. आर. बनसोडे ने की, जबकि प्रा. डॉ. एन. डी. पंडारे, प्रा. डॉ. सुनिता शर्मा, प्रा. सुधीर नाकडे, प्रा. डॉ. इरविण शर्मा, प्रा. डॉ. प्रमकुल चौधरी, प्रा. डॉ. नयनराज, प्रा. आरके. प्रा. आनंदरा ने सम्मेलन के आयोजन हेतु अत्यंत परिश्रम किये। सम्मेलन के संचालन, इतिहास के प्रचार्य, सभी प्रोफेसरों, शिक्षक-कर्मचारियों और छात्रों ने सम्मेलन को सफल बनाने के लिए अपनी इच्छा व्यक्त की और सहयोग दर्ज किया।

Dr. D. R. Bijwe
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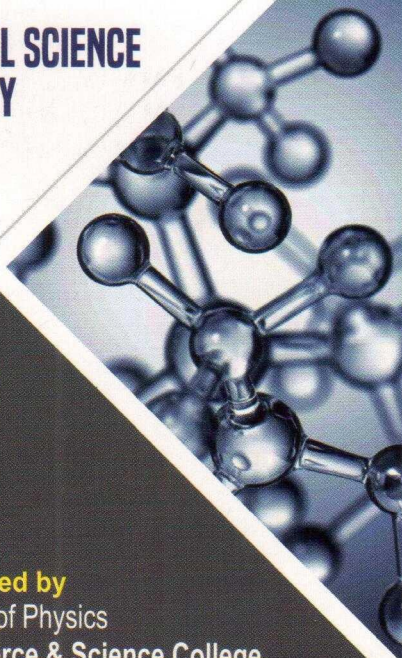
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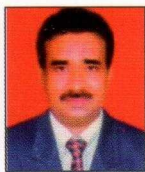
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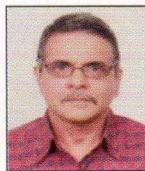
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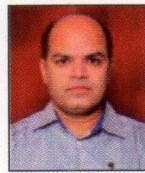
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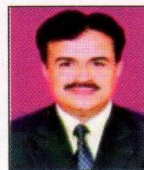
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Conference Structure

Conference will have Key Note Lectures, Plenary Talk, Invited Talk, Oral Presentations and Poster Presentations

Background

Recent Advances in Material Science and Nanotechnology has born fruit in bringing together young and dynamic researchers, academicians and industrialists to explore, their knowledge and novel ideas to improve the concepts in this vital multidisciplinary areas of research for economic growth and sustainable development of the society. 'RAMAN-2022' is timely need to produce many need-based products in different industrial sectors. The conference aims to provide open discussion forum through platform and bringing together academicians, young scientists, researchers and technologists to meet the global demand of novel materials and challenges in the field of Material Science and Nanotechnology.

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Conference Schedule

Abstract Submission - Date: April 18, 2022

Paper Submission - Date: April 19, 2022

Paper Acceptance - Date: April 20, 2022

Paper Publication

Research papers will be published in International Journal of Scientific Research in Science & Technology (UGC Approved Journal No. 64011), IJSRST is International Scientific Open Access, Refereed & Peer Reviewed Research Journal having Scientific Journal Impact factor 7.214 **Online ISSN: 2395-602X, Print ISSN: 2395-6011**

doi 10.32628/IJSRST & Index Copernicus 49.58. Individual Certificate soft copy to all authors and proceeding of the conference if needed.

Submission of Papers

Interested authors are requested to submit full length manuscript of research paper in MS-Word 2007 or MS- Word 2010 including paper title, name of all authors and email address of the corresponding author. The font should be Times New Roman size 12. The maximum length of Manuscripts is limited to 4 pages. Please send your paper by email.
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Conference Topics

The focus of the conference will be on Recent Advances in Material Science and Nanotechnology and related issues like:

- Nanomaterials and Applications
- Nanoscience & Nanotechnology
- Material Science
- Ultrasonics and Acoustics Liquid Dielectric
- Thin Film and Polymers
- Semiconductor Materials and Devices
- Ceramic Advanced Smart Materials
- Chemical Materials and its Characterization
- Bio-materials and Biosensors
- Cosmetic Materials
- Ultrasonic Transducers Materials
- Non-destructive Testing and Evaluation
- Nanobiophysics
- Mathematical Physics
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ABOUT COLLEGE

G.S.Tompe Arts, Commerce and Science College, is one of the oldest colleges of the Amravati district having completed its 50th years in 2018. The college is established in 1968 by late Govindraoji Sitaramji Tompe, a renowned philanthropist of his time. His schooling cannot be traced out and perhaps this might be the reason which grieved him too much and consequently motivated him to provide the higher education to the students of adjacent area, the education which he himself could not get and remained thirsty all through his life and kept on yearning in desire to gain it.

Nevertheless, the vision that he possessed cannot tag him as an illiterate person, rather he may be called an unschooled person having great vision and mission of life.

G.S.Tompe Arts, Commerce and Science College is located in Chandur Bazar which is a taluka place surrounded by the rural area. The tribal area called 'Melghat', known for its 'Tiger Reserve Project' is not far away from it. The college is affiliated to the Sant Gadgebaba Amravati University, Amravati. The College is on the forefront of the town and Amravati-Chandur Bazar highway passes right from its main gate. Its southwards Amravati district is situated while at its east, north and west, talukas named Morshi, Bahesdehi (within the periphery of M.P) and Paratwada are respectively located. It deserves special mention that the area is known for the orchards of Orange. The college is located on the frontier of Madhya Pradesh and therefore the area gives the sense of it, as soon as we arrive at the place. The college falls in the category of co-education (grant-in-aid) and every year in an average 2000 students are admitted for various academic pursuits. As far senior section of the college is concerned, almost 1800 students are accommodated in the various streams and programmes offered by the college. To carry out all the functioning of the college, almost 100 teaching and non-teaching staff has been striving tirelessly since its establishment and the college has been continuously trying to ascend its progress graph having no feeling of satiety.



Tentative Schedule

Day 1:- 12th May 2022

08.30 AM to 09.30AM

09.30 AM to 11.00 AM

- Registration
- Inauguration &
Key Note Address

Technical Session-I

11.00 AM to 12.00 Noon

12.00 Noon to 01.00 PM

01.00 PM to 02.00 PM

- Plenary Talk-I
- Plenary Talk-II
- Lunch

Technical Session-II

02.00 PM to 03.00PM

03.00 PM to 04.00 PM

04.00 PM to 05.30 PM

05.30 PM to 06.00 PM

06.00 PM to 07.00 PM

07.00 PM to 08.00 PM

- Plenary Talk-III,
- Plenary Talk-IV,
- Oral Presentations
- Tea Break
- Cultural Program
- Dinner

Day-2:- 13th May 2022

9.30 AM to 11.00AM

Technical Session-III

11.00 AM to 12.00 Noon

12.00 Noon to 01.00 PM

01.00 PM to 02.00 PM

- Key Note Address
- Plenary Talk-V
- Plenary Talk-VI
- Lunch

Technical Session-IV

02.00 PM to 03.00 PM

03.00 PM to 04.00 PM

04.00 PM to 05.30 PM

05.30 PM to 06.00 PM

06.00 PM to 07.00 PM

07.00 PM to 08.00 PM

- Plenary Talk-VII,
- Plenary Talk-VIII,
- Oral Presentations
- Tea Break
- Cultural Program
- Dinner

Day 3:- 14th May 2022

Technical Session-V

09.30 AM to 10.30 AM

10.30 AM to 12.30 AM

12.30 AM to 01.00 PM

01.00 PM to 02.00 PM

02.00 PM to 03.30 PM

- Key Note Address
- Plenary Talk-IX & X
- Poster Presentations
- Lunch
- Valedictory Function