REPORT

TRANS-DISCIPLINARY INTERNATIONAL CONFERENCE

ON

"Integrated Approach in S&T for Sustainable Future (ICIASTSF)"

To Celebrate

"National Science Day-2022" &

"International Year of Basic Sciences
for Sustainable Development"

ORGANISED BY

Dr. AMBEDKAR COLLEGE, DEEKSHABHOOMI NAGPUR

In association with

S. K. Porwal College of Arts, Science & Commerce Kamptee Nagpur,

Priyadarshini J.L. College of Engineering Nagpur
P.G.T.D of Molecular Biology & Genetic Engineering RTMN University Nagpur

26-27/02/2022

BACKGROUND AND RATIONALE:

The International Year of Basic Sciences for Sustainable Development-2022, focuses on these links between basic sciences and the Sustainable Development Goals. This is a unique opportunity to convince all stakeholders that through a basic understanding of nature, actions taken will be more effective, for the common good.

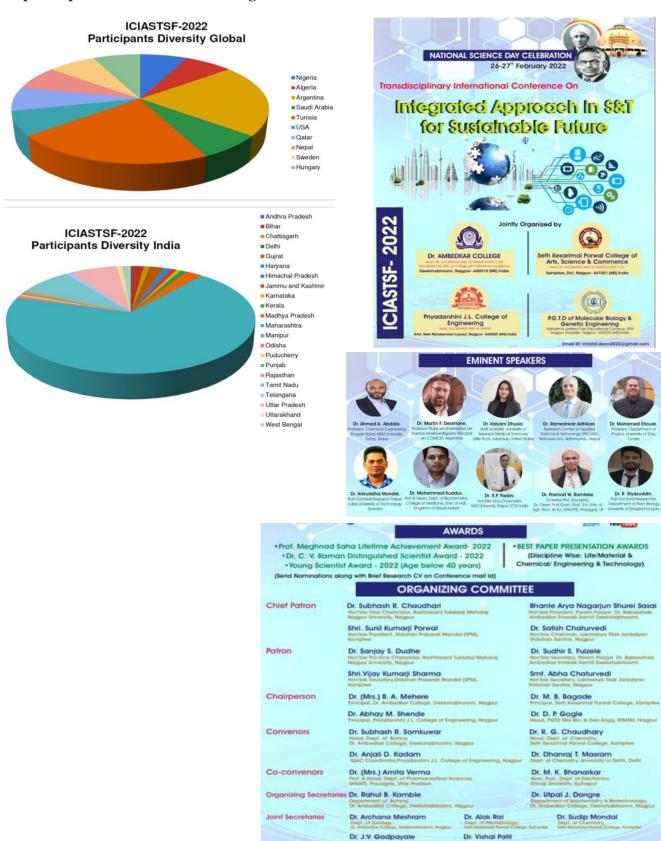
Agenda 2030 for Sustainable Development is the ambitious program that the Member States of the United Nations have agreed on to **ensure a balanced**, **sustainable and inclusive development** of the planet. **Basic sciences** have an important contribution to make to the implementation of this program. They provide the essential means to meet crucial challenges such as universal access to **food**, **energy, health coverage and communication technologies**. They enable us to understand the impact of the currently nearly 8 billion people on the planet and to act to limit, and sometimes even to reduce it: **depletion of the ozone layer, climate change, depletion of natural resources, extinction of living species**. **Applications of technology** are easy to recognize. On the other hand, contributions of basic, curiosity-based, sciences are not well appreciated. They are nonetheless at the basis of major technological advances that stimulate innovation, as well as essential for training future professionals and for developing capacity of populations who can take part in decisions that affect their future.

National Science Day is celebrated every year on February 28 to commemorate the discovery of the 'Raman Effect. Many institutions organize open houses for their laboratories and appraise students about career opportunities available in a particular research laboratory/institution.

"Integration of Science is based on four pillars and these are- Coming together of all science ministries and departments to work on the theme-based approach of problem-solving, extended science integration aligned with **technical**, **engineering and medical institutes**, **extra science** integration that is aligned with Line ministries/departments of Central government and extended science-driven approach involving industries and start-ups leading to a sustainable future.

With this perspective, the **Dr. Ambedkar College, Deekshabhoomi in association** with S. K. Porwal College of Arts, Science & Commerce Kamptee Nagpur, Priyadarshini J.L. College of Engineering Nagpur P.G.T.D of Molecular Biology & Genetic Engineering RTMN University Nagpur organized Trans-disciplinary International Conference on the topic "Integrated Approach in S&T for Sustainable Future (ICIASTSF)" between **26**th to **27**th of Feb **2022** to celebrate the "National Science Day-2022 and International Year of Basic Sciences for Sustainable Development".

PARTICIPATION: The theme of this year's conference proved popular, attracting 636 delegates-participants worldwide (The list of participants is available) representing government departments, academics, NGO's, regional development agencies, local planning authorities, private consultants, cross-border networks, farming communities and local officials. The Faculties, Scientists, Research Scholars and Students from different disciplines were participated and shared knowledge in S&T for Sustainable Future.



INAUGURAL FUNCTION (Link: https://youtu.be/hc7OAJcbx0Q)

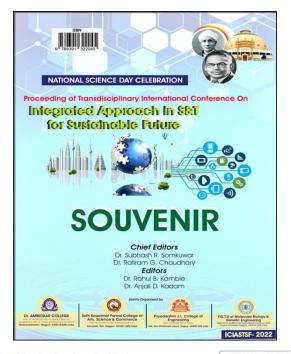
The Trans-disciplinary International Conference on Integrated Approach in S&T for Sustainable Future was jointly organized by Dr. Ambedkar College, Nagpur and S. K. Porwal College, Kamptee in association with Priyadarshani JL Engineering, and PGTD Genetic Engineering RTMNU Nagpur during 26-27th Feb. 2022. The conference was organized on eve of National Science Day Celebration. The conference received an overwhelming response from the different parts of India and overseas too. Received total registration 675 including Professors, Scholars, and Graduates student.

Dr. S. R. Chaudhari, Hon'ble Vice Chancellor, RTMNU, Nagpur was the President of the conference, and **Dr. Raju B. Mankar** Director, Laxminarayan Institute of Technology, Nagpur RTMNU,Nagpur & Hon'ble Ex-Vice-Chancellor, Dr. Babasaheb Ambedkar Technological University, Lonere—Raigad was the Chief Guest, while **Dr. S. R. Thakare**, Joint-Director, Higher Education, Nagpur (MS) was Guest of honor during the inauguration of ICIASTSF scientific mega event. All the dignitaries showered and inspired budding researchers with their invaluable and scientific motivational words to the participants. Moreover, guests appeal to the young minds who are at the forefront of academics and global welfare to work on scientific innovations for a sustainable future. Initially in her welcome address, **Dr. Mrs. B. A. Mehere**, Principal DACN explained the deliberations on organising the event on such a significant theme and welcomed all guests and the delegates. **Dr. S. R. Somkuwar** Convener ICIASTSF-2022 presented a brief introductory remark on the event.

GLIMPSES OF INAUGURATION OF ICIASTSF-2022:



PROCEEDING/SOUVENIR-ICIASTSF-2022



Proceeding of Transdisciplinary International Conference on ISBN No. 978-93-91322Integrated Approach in S&T for Sustainable Future (ICLASTSF-2022)

Transdisciplinary International Conference on

"Integrated Approach in S&T for Sustainable Future" (ICIASTSF- 2022)

III CONGRATULATIONS ALL III







Prof. Meghnad Saha Lifetime Achievement Award, Dr. CV Raman Distinguished Scientist Award, and Young Scientist Award were declared and distributed to researcher scholars on the basis of technological innovation, designs, patens, policies and good indexing record from India and overseas too.

GLIMPSES OF AWARD DISTRIBUTION CEREMONY:









Four plenary lectures were conducted at Day-1

(Link: https://youtu.be/hc7OAJcbx0Q)

POSTER/ ORAL SESSION

(Link: https://youtu.be/hc7OAJcbx0Q)

Total 53 participants of Life Sciences, 14 participants from Engineering & Technology and 25 from Material & Chemical Sciences presented their research work in this session.

- **Jury members for Life Sciences-ICIASTSF-2022 Oral/Posters presentations:**
 - **1. Dr. Sudhamoy Mandal** Ph.D (IIT), Fulbright PDF (USA) Principal Scientist (ARS). Crop Protection Division, ICAR-National Rice. Research. Institute, Cuttack, Odisha, India.
 - **2. Dr. S. Abdul Kader** Associate Professor of Botany, Madras Presidency College (Autonomous), Chennai, India
 - **3. Dr. Ashish D. Tiple,** Head, P.G. Department of Zoology, Vidyabharti College Seloo, and Wardha (MS), India

<u>WINNERS</u>: 1. First Prize to TUSAR MONDAL, Orissa University of Agriculture & Technology, Centre for Post Graduate Studies, Dept. of Bioinformatics, Bhubhneshwar, (Odisha)

- 2. Second Prize to MAHINDER PRATAP, Biotechnology Division, CSIR- Institute of Himalayan Bioresource Technology, Palampur (Himachal Pradesh)
- 3. Third Prize to MUJAFFAR SHAIKH, Dept. of Zoology, Yeshwantrao Chavhan Arts, Commerce & Science College, Sillod, Aurangabad, Maharashtra.

Consolation Prizes: 1. PIYUSH CHAHAL, Dept. of Pharmaceutical Chemistry, Monad University, Hapur, UP

- 2. DR. KARUNA GANVIR, R.G. Bhoyar College, Seloo, Wardha (Maharashtra)
- ***** Jury Members for Chemical and Materials Sciences ICIASTSF-2022 Oral/Posters presentations:
 - 1. Prof. Dr. Rameshwar ADHIKARI, Central Department of Chemistry (CDC) and Research Centre for Applied Science and Technology (RECAST), Tribhuvan University, Kathmandu, Nepal

- 2. Dr. R. Velmurugan, Assistant Professor, Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India
- 3. Prof. Rajshree Jotania, Department of Physics, Electronics and Space science, School of Sciences, Gujarat University, Ahmedabad, India
- 4. Prof. Robert Pullar, Ca' Foscari University of Venice, Italy
- 5. Prof. Dr. Dipendra Sharma, Deendayal Upadhyaya Gorakhpur University. Gorakhpur, Uttar Pradesh, India

WINNERS:1.First Prize to Chetna Chauhan-Nirma University, Ahmedabad, Gujrat

- 2. Second Prize to Richa Tomar-Sharda University Greater Noida, UP. India
- 3. Third Prize to Ms. Shivangi Madan Mohan Malviya University of Technology, Gorakhpur UP.

Consolation Prize to Pawan R. Bhilkar S.K.Porwal Collge Kampthi, Nagpur, India

- **❖** Jury Members for Engineering & Technology-ICIASTSF-2022 Oral/Posters Presentations:
 - 1. Dr V R Manthena, Assistant Professor Priyadarshini J. L. College of Engineering Nagpur
 - 2. Er. Ashish P. Mohod, Assistant Professor Priyadarshini J. L. College of Engineering Nagpur
 - 3. Dr. D. N. Katole, Assistant Professor, Priyadarshini J. L. College of Engineering Nagpur

<u>WINNERS</u>: 1. Mr Manoj Deokate, Research Scholar Electrical Engineering Govt. college of Engineering, Chandrapur

- 2. Mrs. Rohini Barai, Research Scholar, Mechanical Engineering, Poornima University Jaipur
- 3. Rajashri Pote, Lecturer Priyadarshini Polytechnic, Nagpur

<u>Consolation Prize</u>: Dr. Rajni A. Anturkar, (Mathematical Sciences) Sant Gadge Maharaj Mahavidyalaya, Hingna

On this occasion winning participants were awarded as Best Poster Awards prizes and felicitated for their efforts. Members of the organizing committee and support staff were also felicitated on this occasion.

Six plenary lectures were conducted at Day-2

(Links: https://youtu.be/dTFsWlKSE1Y)

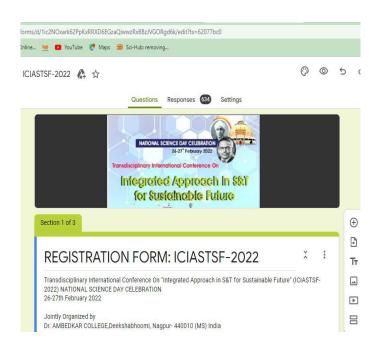
GLIMPSES OF VALEDICTORY FUNCTION OF ICIASTSF-2022

(Links: https://drive.google.com/drive/u/1/my-drive)

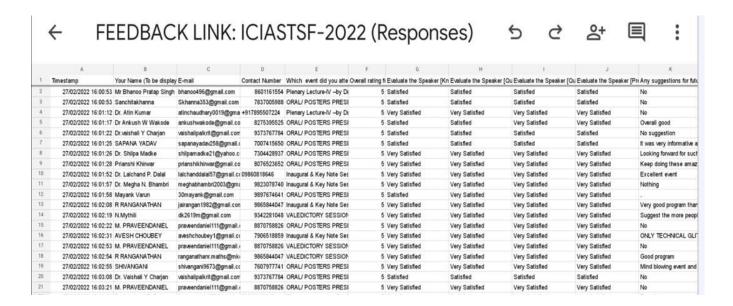


In the Valedictory Program **Dr. Prashant Maheshwary**, Dean, Science and Technology, RTM Nagpur University, Nagpur was the chief guest. He emphasized on new and sustainable research technology and highlighted the need of some eco-friendly integrated technological designs and policies for sustainable future. On the occasion **Dr. Abhay M. Shende**, Priyadarshini J.L. College of Engineering Nagpur in his address stressed that technological innovations and cutting edge research in S&T in accordance with sustainable policy would find the path for a healthy future. **Prof. D. P. Gogle**, HoD P.G.T.D of Molecular Biology & Genetic Engineering RTMN University Nagpur on a personal note by telling several examples on how ancient indigenous technologies were ecofriendly. He also stated that every citizen of India should have a scientific and sustainable temperament and adopt the 4-R principle (Reduce, Reuse, Recycle and Recover!) as a revolutionary step forward a new future for nation building.

Dr. Ratiram G. Chaudhary, Convenor ICIASTSF-2022 closed the conference by thanking the delegates and the presenters for their participation. The excellent organizational work of the staff of the organizers was also acknowledged. The program was declared over after National Anthem. The program was conducted by **Dr. Anjali Kadam**, Convenor ICIASTSF-2022.







OUTCOMES & RESULTS of ICIASTSF-2022

- 1) The ultimate objectives of the conference were to share experiences, inspire students-researchers- to build networks and to reduce R&D gap. The objective of the oral/poster sessions was to ensure a dynamic exchange of scientific and technological innovations, ideas and designs for sustainable future.
- 2) All accepted abstracts and other related matter were published in conference proceeding with ISBN no. while full length research articles will be published in UGC-CARE listed Journal and same will be submitted to SCOPUS and Thomson Reuters for indexation.
- 3) The conference provided an opportunity for key stakeholders to raise and discuss a wide range of issues related to the theme-based approach of problem-solving, extended science integration aligned with technical, engineering and medical institutes, extra science integration leading to a sustainable future.
- **4)** Participants highlighted data based on research projects /policies /activity to develop entrepreneurship, including the provision of training, inputs, and access to extension services, information, knowledge and information, self-confidence, access to financial resources, and communication technologies (ICTs).

Executive Summary of ICIASTSF-2022		
SR. NO.	ACCOMPLISHMENTS	TOTAL
1	Plenary Talk	10
2	Participant	636
3	Presentations	93
4	Abstracts	136
5	Awards Presented	25

PRESS COVERAGE

शहरातील सेठ केसरीमल पोरवाल महाविद्यालयात अनुशासनात्मक अंतरराष्ट्रीय संमेलनाचे आयोजन

https://public.app/s/bS154

बहुशाखीय आंतरराष्ट्रीय परिषद आजपासून

नागपूर: डॉ. आंबेडकर कॉलेज, एस.के.पोरवाल कला, विज्ञान आणि वाणिज्ञ्य महाविद्यालय, प्रियदिशेनी कॉलेज ऑफ इंजिनीअरिंग, आणि पीजीडीटी ऑफ मॉलेक्युलर बायोलॉजी अंड जेनेटीक इंजिनीअरिंग यांच्या संयुक्त विद्याना विज्ञान दिनानिमित्त आयोजित करण्यात येत असलेल्या दोन दिवसीय बहुशाखीय आंतरराष्ट्रीय प्रियदेला आज, शनिवारपासून सुरुवात होत आहे. 'इंटिग्रेटेड

अंग्रोच इन सायन्स अंड टेक्नॉलॉजी फॉर सस्टेनेबल प्युचर' या विषयावर. यावेळी राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठाचे कुलगुरू डॉ. सुभाष चौधरी, प्र-कुलगुरू डॉ. संजय दुधे, डॉ. एस.आर. ठाकरे, डॉ. प्रशांत ठाकरे यांची उपस्थिती राहणार आहे. या परिषदेमध्ये विद्याया असे आताहन डॉ. ओवेडकर महाविद्यालयाचे प्राचार्य डॉ. बी.ए.मेंहेरे यांनी केले आहे.



Report Prepared by