

HYBRID MODE (BOTH PHYSICAL AND ONLINE)

Abstract submission
date extended till
23rd April, 2023

1st International Conference on
Nature and Natural Sciences
(ICNS 2023)

Theme: New vistas in Green Technology and Socio-economic Sustainability

5th & 6th May 2023

Organized and hosted by



Rani Durgavati Vishwavidyalaya (RDVV), Jabalpur (M.P.), India
<http://www.rdunijbp.in.org/>

In Association with



www.abrf.org.in

Asian Biological Research Foundation (ABRF), Prayagraj, India
<http://www.abrf.org.in/>



Tropical Forest Research Institute (TFRI), Jabalpur
Ministry of Environment, Forest and Climate Change, Govt. of India
<https://tfri.icfre.gov.in>



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Registration Link: <https://forms.gle/Kp9Ti84zzvvEWwBq9>

ABOUT THE ICNS-2023

New vistas in Green Technology and Socio-economic Sustainability

A technology with eco-friendly in its production, supply chain or usage is in fact a sustainable technology or green technology or Green Tech in short. It deals with the short-term and long-term impact of things on the environment. Green technology includes the form of recycling, renewable resources, health and safety issues, energy efficiency, and more. Green technology is therefore an umbrella term that encapsulates any technology to reduce the human influence on the environment. Since humans are using up natural resources faster than they can be replaced, this constantly developing technology seeks to be less stressful on them. It focuses on developing eco-friendly goods and services that enhance operational efficiency while lowering prices, energy usage, trash, or adverse environmental effects. From the last decade, exponential economic growth and industrialization have been witnessed in many countries yet failed to keep the environment sustainable due to various challenges related to resource depletion.



Primary aim of green technology is to safeguard the environment by controlling global warming and reducing the greenhouse effect; protect the natural environment, reduce our dependence on non-renewable natural resources like fossil fuel, and heal the damage done to the environment. The principal concept is to develop innovative inventions that do not affect the natural resources and also preserve the planet's natural resources. It will result in less damage to humans, animals and our planet's overall health. The successful use of green technologies will make a major contribution towards reducing emissions of carbon dioxide and other greenhouse gases. To mitigate environmental risks derived from the industrial revolution, green technologies are expected to become a dominant factor that practically reduces over the CO₂ emission. That is why many developed and some developing countries are now transitioning towards this form of technology to help protect them from harmful impacts on the climate. Green technology is directly and indirectly as well as more or less related with socio-economic sustainability.

The main aim of the present conference is a step forward in this direction to bridge the gap and provide a platform for interaction and deliberations among scientists, researchers, academicians and policy makers from different parts of the globe as green technology has a number of advantages for mankind. Sub themes of ICNS 2023 are as under:

1. **Bioremediation**
2. **Environmental monitoring**
3. **Advances in energy conservation and storage**
4. **Renewable energies**
5. **Green Energy: Solar energy; green architecture; Electric vehicle; Water purification; generating energy from waves**
6. **Recycling, waste management and socio-economic impacts**
7. **Environmental sustainability and green technology**
8. **Technological innovations and Sustainable Agriculture**
9. **Green technology and Socio-economic sustainability**
10. **Wetlands, Biodiversity and its conservation**
11. **Impact of green technology on sustainable economic growth and development**
12. **Impact of green technology on the economy and ecology**
13. **Role of green technology in developing smart and sustainable towns**
14. **Environmental degradation and pollution prevention methods**
15. **Biodiversity , Conservation and Management**
16. **Climate change impacts and mitigation**
17. **Natural sciences, technological innovations and nutritional security**
18. **Anthropogenic activities, Education, Disaster and disaster management**
19. **Blue, Green, Yellow, White Revolutions and self-reliant India**

20. **Advances in Fishery and Veterinary Sciences**
21. **Sustainable Development of Natural Resources**
22. **Role of women and tribes in social sustainability**
23. **Biodiversity, Water and Wildlife management**
24. **Rural, social, industrial and economic sustainability**
25. **Any other relevant topics related with main theme**

CALL FOR ABSTRACTS

The organizing committee invites original research abstracts for oral/poster presentation based on the theme/sub themes mentioned here for the conference. Original one-page abstract (A4-size with 2 cm margin on all sides, single column, Times New Roman font, font size 12, 1.5 line spacing in Word 97-2003 document) should be submitted at icns2023@gmail.com till **23rd April 2023**. The esteemed participants are requested to mention clearly the title of the paper along with their names, affiliation, email id and contact number.

ABOUT THE ORGANIZERS

Rani Durgavati Vishwavidyalaya (RDVV), Jabalpur (M.P.)

Rani Durgavati Vishwavidyalaya was established under Jabalpur University Act on the 12th of June 1956. Since then the University has chartered an illustrious history of academic achievements and intellectual leadership. It was envisaged by the decision makers that the spread of education especially higher education would lead to deeper socio-economic development. The achievements of the University has been recognized and documented by the National Assessment and Accreditation Council in 2014, when it awarded a high rating of “B”. We are striving for an even better rating in next accreditation.

The University covers a vast arena of disciplines and encompasses various faculties such as Science, Arts, Social Science, Commerce, Law, Management and Education. The various departments are continuously involved in teaching and research activities that are recognized both nationally and internationally. Apart from 24 well established teaching and research departments, the University also runs several sponsored centers like Academic Staff College, Community College, Women's Study Center, Design Innovation Center, Career Guidance Counseling Training and Placement Cell, Remedial Coaching for SC/ST/OBC, Gandhi Shodh Peeth, Guru Nanak Devji Shodh Peeth, Bharatiya Gyan Shodh Peeth, Dr. Ambedkar Studies Center, Skill Development Center, Distance Education, and host of students' and employees' supporting facilities. The University has been identified as the only state University in Madhya Pradesh and one of the nine Universities nationally for implementation of the prestigious NUSSD programme.

Asian Biological Research Foundation (ABRF), Prayagraj, India

The ABRF Prayagraj, India is a self-supporting, academic and research associated body. It is basically non-profit and Non-Government Organization: (1) to provide a common platform for scientists associated with biological sciences to interact with one another for mutual benefit and to enhance the innovative knowledge on the subjects (2) to encourage, facilitate and perform the activities related to conservation of water, nature and biodiversity (3) to promote the new scientific knowledge that has emerged from recent advances and to felicitate the persons and organizations internationally for their outstanding services rendered in basic, applied and modern biological sciences including all branches of Botany, Zoology, Agriculture, Veterinary Science, Environmental Science, Molecular Biology, Biotechnology, Biochemistry, Bioinformatics, Microbiology, and so on, (4) to collaborate with National and International Institutions, Government and Non-Government Organizations, Schools, Colleges, Institutions, Universities, Private and Public sector Industries to achieve the objectives of the ABRF. The ABRF confers following categories of awards and honours through search and nominations:

1. **ABRF Lifetime Achievement Award** (above 57 years of age)
2. **Hon. Fellowship/Fellowship (FABRF)**
3. **ABRF Excellence Award for Environmental/Agricultural/Botanical/ Zoological Research**
4. **ABRF Global Recognition Award**
5. **Outstanding Extension Professional/Agriculture Scientist/ Social Services Award**
6. **Best Teacher Award for Agricultural/Botanical/Environmental/Zoological Innovations**
7. **Eminent Ichthyologist/ Environmentalist/ Ecologist/ Entomologist/ Geneticist/ Parasitologist/ Cytologist/ Taxonomist/ Plant Pathologist/ Physiologist/Biotechnologist/ Anthropologist Award**
8. **Senior Botanist/ Zoologist/ Biochemist/ Scientist/ Environmentalist Award** (above 45 years of age)
9. **Innovative Botanist/Zoologist/Scientist/Environmental/Agriculture Scientist/Biotechnologist/ Extension Professional Award**
10. **Innovative Biologist Award for Wild Life/ Biodiversity Conservation**

11. **Vigyan Ratna Puraskar** (No age bar)
12. **Paryavaran Shri Samman** (No age bar)
13. **Young Botanist/Zoologist/Scientist Award** (below 30 years of age; mainly for research scholar)

Note: Only ABRF Life Members are eligible for applying these awards. Each award will consist of a potted plant, an angvastram, a multicoloured award certificate and a high quality memento. ABRF Award selection is strictly based on API and biodata both. Those who have received ABRF awards in 2022 are not eligible to apply. For detail guidelines, please log on to website: <http://www.abrf.org.in> [email id: secretary.abrf@gmail.com]

Tropical Forest Research Institute (TFRI), Jabalpur

(ICFRE- An Autonomous Body of Ministry of Environment, Forest and Climate Change, Govt. of India)

The Tropical Forest Research Institute, Jabalpur is one of the nine regional institutes under the Indian Council of Forestry Research and Education (ICFRE), Dehradun (UK). The Institute came into existence in April 1988, although its origin goes back to 1973 when a Regional Centre of FRI, Dehradun was established at Jabalpur to provide research support to the problems of forest management in central India. The institute has not only steadily advanced in terms of infrastructure but also specialized itself as a major nucleus for research on forestry and ecology related problems of tropical forests of the central region comprising of the states of Madhya Pradesh, Chhattisgarh and Maharashtra. The institute is headed by Director and has a staff strength of 113 including 22 scientists and 38 officers.

The campus of the Institute is fully developed with facilities like office cum laboratory building, library and information building, bio-technology lab, residential complex, bank, post-office, dispensary, shopping complex, central school, community hall, canteen, motor vehicle workshop, scholars' transit hostel, scientists' hostel, sports ground and rest house.

The American University, USA

This is a non-political, non-racial, non-sectarian, interdenominational, Inter-Cultural IGO registered as a 501 (c) 3 organization in USA. WE SUPPORT the UNIVERSALLY ACCEPTED 10 PRINCIPLES OF UNITED NATIONS Global Compact, UNITED NATIONS Academic Impact, UNITED NATIONS HUMAN RIGHTS & ALL CHARTERS OF UNITED NATIONS & EUROPEAN UNION. The American University in USA has a primary focus of helping scholars carry out research into Theology, Peace and Conflict studies, and to build competencies of peace activists worldwide.

Institute of Learning & Development, Hong Kong

Institute of Learning & Development (ILD) is a leading training and content provider. It was established in the year 2000 with over 20 million students to date. The ILD offer world-class extended learning courses as well as training and development opportunities that serve as skills and knowledge fillers to help students and working adults progress around the globe.

Arunodaya University, Itanagar (Arunachal Pradesh)

Arunodaya University has been established in the year 2014, by an Act The Arunodaya University Arunachal Pradesh Act, 2014, Act No. -13 of 2014, of the Arunachal Pradesh State Legislature and is approved under section 2(f) of UGC Act 1956 vested with the authority to award Degrees, Diplomas and Certificates. The University has been established to cater to the growing needs of higher education in the country.

Arunodaya University believes in imparting education to the students in a comprehensive format while not compromising on the traditional ways of pedagogy which our country has nourished since it's inception. It has therefore embarked on a novel concept clubbing the class room lectures and the industrial element together. This approach lighten up the interest of the students in their respective scope of subjects and that gives an holistic get up to the whole perception of education.

Mahakaushal University (MKU), Jabalpur (M.P.)

Mahakaushal University, Jabalpur has been established by the MP Govt. Ordinance Number 11 dated 13th January 2021. Ordinance has been passed by MP state legislative assembly dated 25th February 2021. University has been included in the list of Universities established as per section 2(f) of UGC Act 1956.

Mahakaushal University offers an advanced Education system to the students in the fields of Engineering Technology, Agriculture, Humanities, Yoga, Paramedical, fire safety Science, Nursing, Education, skill-based program and Future demanding courses. Students will be made ready for multitasking activities to bring Nation at fore- front globally. Our education system is ready to fulfill requirements from Public and private sectors for future needs.

Govt. M. H. College of Home Science & Science for Women, Jabalpur (M.P.)

The idea of establishing an Educational Institute for women was conceived by Mr. Parmanand Bhai Patel, a renowned industrialist of Jabalpur. The proposal was welcomed by Pandit Ravi Shankar Shukla, the then Hon. Chief Minister of Madhya Pradesh. On July 15, 1954 Govt. M H College of Home Science and Science For Women came into existence with only Home Science classes. Mr. Parmanand Bhai Patel's, firm Mohanlal Hargovinddas donated Rs. One Lakh for the establishment of the college. On April 27, 1956 the foundation stone was laid down on 11 acres of land, situated in the heart of Jabalpur city, by the chief minister of MP. The college building is a beautiful piece of architectural work. Facilities such as Hostel, Sports complex, Canteen etc. are available in the college premises. The hostel accommodates about 650 girls. This is the biggest girls hostel of MP.

In 1955 Mankuwar Bai College of Arts was merged with this institute. Looking at the progress of the Home Science Faculty, the Government of Madhya Pradesh granted permission to conduct Science classes as well. In 1986 Mankuwar Bai College became independent institute of Arts and Commerce. Hence the parent college became the college for Home Science and Science.

The college is affiliated to RDVV, Jabalpur which awards degrees to the students. The MH College is one of the pioneering institutions of MP that adopted the autonomous system in the Higher Education in 1988-89. On the recommendation of UGC peer team the Autonomous status of the college has been extended up to the year 2012-2013. NAAC accredited the college with A grade in 2012. The college was selected in the UGC scheme "Colleges with Potential for Excellence" in 2004. That time MH College of H Sc & Science for Women was the only Women College of the MP to be selected with 73 other colleges from all over the country.

Shri Guru Tegh Bahadur Khalsa College, Jabalpur (M.P.)

Sri Guru Tegh Bahadur Khalsa College was established in the year 1979 to serve the ever growing educational needs of the students. The college is affiliated to RDVV, Jabalpur and approved by M.P. Higher Education Bhopal, NCTE, New Delhi and BCI, New Delhi. The college is ISO certified 9001:2015, registered under 2(f) and 12b. It is a minority institution with 44years of educational excellence. Here students belonging to all casts and religions are motivated to become good learners.

Sri Guru Tegh Bahadur Khalsa College is inspired by the motto "Education is not the learning of facts but the training of minds to think" and our objective is to provide friendly, informative and supportive environment for students, which help them in developing enhanced competitive skills. The college has made remarkable progress over the years. Today, it is one of the distinguished institute of Sanskardhani that offers 30 different courses including graduation courses in science, commerce, arts and education and postgraduate courses in science, commerce and arts.

Sri Guru Tegh Bahadur Khalsa College is dedicated for youth to excel in academics along with development of scientific approach with new innovations for effective methods of education and to create milestones. We aim at providing foundation of healthy domain of surroundings for all round development of our students.

Glocal Environment & Social Association (GESA), New Delhi

In order to serve a bit the Nature and Society for better future, the Glocal Environment & Social Association (GESA) is constituted. Its headquarter is located in New Delhi. Its main aim is to develop and promote 'global thought and local action' ideology to save the nature. It organizes the seminars; workshops etc. to aware and educate the people on blazing environmental and social issues. The GESA felicitates the persons and organizations for their outstanding services rendered in various fields of agriculture, arts, biodiversity conservation, commerce, culture, education, environment, healthcare, humanities, literature, mass communication, music, patriotism, peace and harmony, science, sports, technological innovations and other social services. The GESA confer following categories of awards and honours through search and nominations to its members during this conference:

1. **Lifetime Achievement Award** (Above 55 years of age)
2. **Hon. Fellowship/ Fellowship (FGESA)**
3. **Dr. APJ Abdul Kalam Green Environment Promotion Award**
4. **Dr. Sarvepalli Radhakrishnan Education Promotion Award**
5. **Chaudhary Charan Singh Award for Agricultural Innovations**
6. **Sardar Patel Glocal Award for Social Awareness**
7. **Lal Bahadur Shastri Glocal Award for Biodiversity**
8. **Senior Scientist Award** (Above 40 years of age)
9. **Best Faculty Award for Teaching/Research Innovations**
10. **Distinguished Service Award / Distinguished Teacher Award** (Crop, Plant Protection, Horticulture, Fisheries, Home Science, Social Science, Animal Science, Life Science etc.)
11. **Innovative Educationist Award/ Agriculture Extensionist Award**
12. **Teacher of the Year / Extension Professional of the Year / Doctor of the Year Award**

13. Technological Innovations Award
14. Paryavaran Ratna Puraskar
15. Vigyan Bhushan Puraskar
16. Sahitya Shri Samman
17. Young Scientist/Young Researcher Award (Below 35 years of age)

Note: Life Membership of GESA is mandatory for above awards. Each awardee receives a multicoloured award certificate, a potted plant, an angvastram and a high quality memento. GESA Award selection is mainly based on biodata. Those who have received GESA awards in 2022 are not eligible to apply. For detail guidelines, please log on to website: <http://www.gesa.org.in> [Email id: president.gesa@gmail.com].

CONFERENCE AWARDS

The Organizing Committee will confer 15 awards to participants during the ICNS-2023:

1. Best Oral Presentation Award (1st, 2nd, 3rd and 2 consolation)
2. Best Poster Presentation Award (1st, 2nd, 3rd and 2 consolation)
3. Best Online Presentation Award (1st, 2nd, 3rd and 2 consolation)

1st International Conference on

Nature and Natural Sciences (ICNS 2023)

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ACCOMMODATION

We have arranged limited accommodation to ABRF and GESA life members only; therefore, the outstation participants are humbly advised to arrange accommodations at their own expenses and liberty. However, the organizers will try their best to ensure comfortable and memorable stay of the participants at Jabalpur (Contact person: **Dr. Ajay Mishra** Ph.: 94251 51905).

IMPORTANT DATES

Abstract submission starts:	20th February, 2023
Registration starts:	20th February, 2023
Abstract submission date extended:	23rd April, 2023
Intimation of Abstract acceptance starts:	1st March, 2023
Early Bird Registration closes:	15th April, 2023
Conference dates:	5th and 6th May, 2023

REGISTRATION FEE

a) Academician/Scientist/Regular Faculty :	Rs. 1800/-
b) Life members of ABRF/GESA:	Rs. 1500/-
c) Scientists/ Faculty members of Organizing Institutes:	Rs. 1400/-
d) Guest Faculty (with proof):	Rs. 1100/-
e) Ph.D. Research Scholar (with I-card):	Rs. 1100/-
f) PG/Diploma student (with I-card):	Rs. 900/-
g) Accompanying person (no kit and no certificate):	Rs. 800/-

Notes: (1) On spot registration facility is also available with **Rs. 300 extra charges** to above mentioned registration fee. (2) Registration fee includes conference kit, lunch, dinner, tea/snacks and participation in all the sessions. (3) The conference kit is not guaranteed for on spot registrations.

Abstract submission email id: icns2023@gmail.com

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