

International Conference
on
Agriculture Science and Technology:
Challenges and Prospects in Future (AST-2022)

28-30 January, 2022

Rani Lakshmi Bai Central Agricultural University
NH-75, Near Pahuj Dam, Gwalior Road, Jhansi, (Uttar Pradesh)



Organized jointly by



Rani Lakshmi Bai Central Agricultural University
Jhansi, UP



National Environmental Science Academy (NESA)
New Delhi



ICAR-Indian Grassland and Fodder Research Institute,
Jhansi, UP



ICAR-Central Agroforestry Research Institute
Jhansi, U.P.

In Association with



Indian Society of Agroforestry
Jhansi, U.P.



U.P. Council of Agricultural Research
Lucknow



Range Management Society of India
Jhansi, U.P.



ICAR-National Agricultural
Higher Education Project
Delhi



Society for Plant and Agricultural Sciences
Pune



Jan Parivartan Sansthan
Gwalior

Organizing Committee

Patron

Dr. Arvind Kumar, Vice Chancellor, RLBCAU, Jhansi

Dr. A. Arunachalam, Director, ICAR-CAFRI, Jhansi

Dr. A. Chandra, Director, ICAR-IGFRI, Jhansi

Prof. Javed Ahmad, President, National Environmental Science Academy, New Delhi

National Speakers

Dr. T. R. Sharma

Dr. R. C. Agarwal

Dr. P. M. Gaur

Dr. A. K. Singh

Dr. K. C. Bansal

Dr. D. K. Yadav

Dr. S. K. Rao

Dr. V. S. Tomar

Dr. Sanjay Kumar

Dr. Sanjay Singh

Dr. A. R. Sharma

Dr. S. K. Chaudhari

Dr. Rajeev Varshney

Dr. K. V. Prabhu

Dr. N. P. Singh

Dr. P. Kulwal

Dr. R. P. Singh

Dr. S. S. Singh

Dr. S. K. Chaturvedi

Dr. H. Pathak

Dr. V.K. Singh

Dr. J.P. Mishra

Dr. A. K. Joshi

Dr. N. K. Singh

Dr. G. P. Singh

Dr. Ashutosh Sarkar

Dr. A. K. Pandey

Dr. Ch. Srinivasa Rao

Dr. R.K. Singh

Dr. A.K. Roy

Dr. Anil Kumar

Dr. G. Babu

Dr. Prabhat Kumar

International Speakers

Dr. Henry Nguyen, Missouri University, USA

Dr. K. Siddique, The University of Western Australia, Australia

Dr. Francois, Laval University, Canada

Dr. Umesh Kumar Reddy, West Virginia State University, USA

Dr. T. Bunyamin, University of Saskatchewan, Canada

Dr. Lee Hickey, The University of Queensland, Brisbane, Australia

Dr. Gunwant Patil, Texas University, USA

Dr. Sayantan Mitra, California, United States

Dr. S. K. Basu, Letherberg, Canada

Conveners & Organizing Secretary

Dr. Sushil Kumar Singh, Secretary, NESA

Co-Organizing Secretary

Dr. R.S. Tomar, RLBCAU

Coordination

Dr. Mukesh Srivastava, RLBCAU, Jhansi

Scope of the Conference

To unveil updated knowledge through a single platform by addressing existing challenges and opportunities for futuristic agriculture in India.

Themes

Biodiversity and Conversation ❖ Plant Molecular Biology ❖ Plant Breeding and Genetics ❖ Genomics and Gene editing ❖ Medicinal Plant Research ❖ Food and Agriculture. Forestry, Horticulture, Medicinal, Nutritional, Ayurvedic, Fodder, Fisheries, Veterinary Sciences and Natural Resource and Livestock Management ❖ Role of advanced tools and techniques like Information technology, Big Data Analysis and Artificial Intelligence in agriculture ❖ Application of Remote sensing and Geo Informatics in Agroforestry.

ABOUT ORGANIZERS

Rani Lakshmi Bai Central Agricultural University

Rani Lakshmi Bai Central Agricultural University has been established as an Institution of national importance under Department of Agricultural Research and Education (DARE) by an Act of Parliament in 2014. This second Central Agricultural University in India established and named in the memory of great freedom fighter known as warrior queen of Jhansi Late Rani Lakshmi Bai who sacrificed her life at the altar of the freedom. The objectives of the university are to impart education in different branches of agriculture and allied sciences, undertake research in agriculture, programmes of extension education and promote linkages with national and international educational institutes. (For more details please visit: <https://www.rlbcu.ac.in>)

Indian Grassland and Fodder Research Institute

IGFRI, a national Institute under the administrative control of Indian Council of Agricultural Research, is mandated to conduct basic, strategic, applied and adaptive research; development and training in forage production and its utilization. The Institute has highly experienced and internationally trained human resources engaged in need-led, participatory, inter-disciplinary approaches. With more than 60 years of experience in forage and grassland research and development, IGFRI today stands as the premier R&D institution in South Asia for sustainable agriculture through quality forage production for improved animal productivity. (For details please visit: <https://www.igfri.res.in>)

ICAR-Central Agroforestry Research Institute

ICAR-Central Agroforestry Research Institute (ICAR-CAFRI), formerly the National Research Centre for Agroforestry, is a multidisciplinary premier research institute of the Indian Council of Agricultural Research (ICAR) with a major focus on integrating trees, crops and livestock on the same farmland. With vision to improve quality of life of rural people through integration of perennials on agriculture landscape for economic, environmental and social benefits. This is the only dedicated research institute of the country working on key research areas of agroforestry. CAFRI has developed robust agroforestry models and package of practices for different agroclimatic conditions covering small and marginal farmers and provides technical backstopping to the States and stakeholders. (For details please visit: <https://cafri.res.in>)

National Environmental Science Academy (NESA), New Delhi

This ACADEMY is registered by the provisions of Societies Act XXI of 1860 under the Government of Bihar in 1988, presently has its headquarters in New Delhi. The main objective of the Academy is to bring awareness about environmental issues among the masses by arranging lectures, workshops, training programmes, seminars, symposia, conferences, publishing journals, etc. Various eminent personalities have graced the Academy as President. The first President of the Academy was Dr.K.C. Bose, Vice-Chancellor of Ranchi University; then Dr. B.S. Attri, Advisor, Ministry of Environment and Forest. Most recently Padma Bhushan Dr. S.Z. Qasim was the President of the Academy till June 2015. Currently Prof. Javed Ahmad, (Former Dean, Faculty of Science), Jamia Hamdard, New Delhi, is the President of the Academy. (For details please visit: <https://nesa-india.org>)

AWARDS

The organizing committee recognizes the merit and achievements of individuals who have contributed to the field of environmental science, education and societal values to confer awards for best paper and posters. In addition, related NESA awards may also be conferred. NESA also notifies awards every year. For more information on NESA awards please log on to website: <https://nesa-india.org/award-form-submission/>

PUBLICATIONS

The organizing committee shall publish keynote addresses and papers presented in the Conference in the form of a Proceeding book and also in the following Journals (Biannual):

- 1) **INTERNATIONAL JOURNAL ON AGRICULTURAL SCIENCES**
- 2) **INTERNATIONAL JOURNAL ON ENVIRONMENTAL SCIENCES**
- 3) **INTERNATIONAL JOURNAL ON BIOLOGICAL SCIENCES**
- 4) **INDIAN JOURNAL OF UNANI MEDICINE**
- 5) **INDIAN JOURNAL OF AGROFORESTRY**
- 6) **RANGE MANAGEMENT AND AGROFORESTRY**
- 7) **CLIMATE CHANGE AND ENVIRONMENTAL SUSTAINABILITY**

CALL FOR ABSTRACTS AND FULL LENGTH PAPERS

The participants are invited to submit their abstracts and full-length papers on the theme and sub themes of the Conference. The abstract should be within 250-300 words in English font 'Times New Roman' with size of '12'. The full-length paper should be within 3000-4000 words in length, including an abstract (about 300 words) and 4-5 keywords. The abstracts will be released in 'Souvenir and Abstract Book' on **28th January, 2022** in the Inaugural Session of the Conference, while selected full length papers will be published in NESAJournals. The participants may send their abstracts by **10th January, 2022** and full-length papers by **15th January, 2022** online. The participants may present their papers in the Conference by oral/poster.

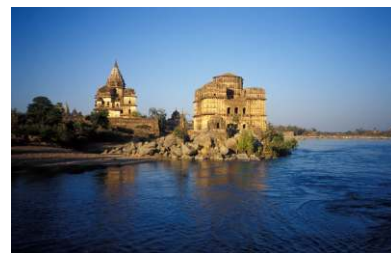
POSTER PRESENTATION

Papers are invited for poster presentation. The poster should be related with the topic and sub themes of the Conference. The poster size should be 3x5 feet.

JHANSI REGION: TOURIST INTEREST

Orcha

Orchha is a town in Niwari district of Madhya Pradesh state, India. The town was established by Rudra Pratap Singh sometime after 1501, as the seat of an eponymous former princely state of covering parts of central & north India, in the Bundelkhand region



Khajuraho

The Khajuraho Group of Monuments are a group of Hindu and Jain temples in Chhatarpur district, Madhya Pradesh, India, about 175 kilometres southeast of Jhansi. They are a UNESCO World Heritage Site. The temples are famous for their nagara-style architectural symbolism and their erotic sculptures.



Datia

Datia is the district headquarters of the Datia District in north central Madhya Pradesh, a state of Central India. It is an ancient town, mentioned in the Mahabharata ruled by King Dantavakra. The city is 69 km from Gwalior, 325 km south of New Delhi and 320 km north of Bhopal. About 15 km from Datia is Sonagiri, a sacred Jain hill. Datia is also about 34 km from Jhansi and 52 km from Orchha. The nearest

airport is at Gwalior. It was formerly the seat of the eponymous princely state in the British Raj. Datia is situated near Gwalior and on the border with Uttar Pradesh.



Peetambra Peeth is a famous Shaktipitha located at the entrance of Datia. This pilgrimage spot is located about 1 km from Datia Bus Station and 3 km from Datia Railway Station on the Delhi-Chennai main line and features Buglamukhi Devi Temple. The Dhumavati Main Temple, established by Golokwasi Swamiji Maharaj and the Vankhandeshwar temple, a Mahabharat period temple of Shiva is the main attraction of the Place.

Pahunj Dam

Pahunj River is a river flowing through the city of Jhansi, Uttar Pradesh, India. It has been referred as the Pushpavati in religious texts. It is a small and dry river which passes through the Indian Grassland and Fodder Research Institute, Jhansi. It flows through the region of Bundelkhand region and plays a major part in dividing the border of Uttar Pradesh and Madhya Pradesh. Generally, it flows at a heavy water level outside its banks in the monsoon season but drastically can also go dry or with very little flow in the summers. Nowadays many electric plants in Uttar Pradesh are discharging its waste in it due to which the water of the river getting contaminated day by day and illegal mining at the banks of it is causing its state deteriorating day by day.



Baruasagar

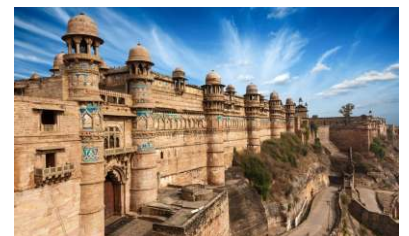
Baruasagar is a city and a municipal board in Jhansi district in the state of Uttar Pradesh, India. It was named so because of the beautiful lake called Baruasagar Tal. Maharshi Shringirishi Temple is also located near lakeside.



Gwalior Fort

The Gwalior Fort (Gwāliiyar Qila) is a hill fort near Gwalior, Madhya Pradesh, India. The fort has existed at least since the 10th century, and the inscriptions and monuments found within what is now the fort campus indicate that it may have existed as early as the beginning of the 6th century. Raja Suraj Sen Pal and his dynasty ruled over more than 900 years. The fort has been controlled by several different rulers in its history.

The present-day fort consists of a defensive structure and two main palaces, Gujari Mahal and Man Mandir, built by Man Singh Tomar (reigned 1486–1516 CE). The Gujari Mahal palace was built for Queen Mrignayani. It is now an archaeological museum. The second oldest record of "zero" in the world was found in a small temple (the stone inscription has the oldest record of the numeric zero symbol having a place value as in the modern decimal notation), which is located on the way to the top. The inscription is around 1500 years old.



Jai Villas Palace

The Jai Vilas Mahal, also known as the Jai Vilas Palace, is a nineteenth century palace in Gwalior, India. It was established in 1874 by Jayajirao Scindia, the ruler of the princely state of Gwalior in the British Raj. While a

major part of the palace is now the "Jiwajirao Scindia Museum" opened to the public in 1964, a part of it is still the residence of some of his descendants.

It is a fine example of European architecture, designed and built by Sir Michael Filose. A combination of architectural styles, the first storey is Tuscan, the second Italian-Doric and the third Corinthian. The area of the Jai Vilas palace is 124,771 square feet and it is known for its large Durbar Hall. The interior of the Durbar Hall is decorated with gilt and gold furnishings and adorned with a huge carpet and gigantic chandeliers. It is 100 feet long, 50 feet wide and 41 feet in height. The palace was described by Sir William Howard Russell in 1877.



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REGISTRATION FORM

| | |
|--|--|
| NAME (in Capital letters) | |
| DATE OF BIRTH | |
| DESIGNATION | |
| ORGANISATION (<i>Full address</i>) | |
| E-MAIL ID | |
| MOBILE NO. | |
| Accompanying person (s) if any | |
| Accommodation required | |
| REGISTRATION FEE DETAILS | |
| DD NO./ NEFT/RTGS/ OR ANY OTHER ONLINE WITH REFERENCE NUMBER and DATE | |
| REMARKS (For Office Use Only) | |

Presentation: Oral / Poster (TICK MARK)

Title of Paper:

REGISTRATION

Please fill up the registration form and send it to ast2022jhansi@gmail.com
All participants must pay the fee in advance and confirm through mail.

Please send this registration form online.

(Signature of Participant)

IMPORTANT DATES

| | |
|--|----------------------------|
| Conference Dates | 28-30 January, 2022 |
| Registration and Abstract Submission Starts: | 15.12.2021 |
| Last Date of Registration without late payment: | 10.01.2022 |
| Abstract submission Deadline: | 10.01.2022 |
| Full length paper submission Deadline: | 15.01.2022 |

Note: *The above dates are mandatory and strictly followed by Organizing and Publication Committee.*

REGISTRATION

| Category | Regular Registration (Till 10.01.2022) | Late & On-Spot Registration* (After 10.01.2022) |
|---|---|--|
| Members of NESAs / Indian Society of Agroforestry/ Range Management Society of India | Rs. 3000.00 | Rs. 4000.00 |
| Students (Graduate/PG) | Rs. 1000.00 | Rs. 1500.00 |
| Research Scholars & PhD students | Rs. 2000.00 | Rs. 2500.00 |
| Faculty/Scientists | Rs. 4000.00 | Rs. 5000.00 |
| Corporate Delegates | Rs. 25000.00 | Rs. 30000.00 |

PAYMENT

| | |
|----------------------|---|
| Name: | National Environmental Science Academy |
| Bank Name & Address: | Bank of Maharashtra, Kalkaji Branch, New Delhi-110 019 |
| Account Type: | Current Account |
| Bank Account Number: | 60109889476 |
| IFSC Code: | MAHB0000974 |

AST SECRETARIAT 2021

NATIONAL ENVIRONMENTAL SCIENCE ACADEMY

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