



About the Conference: The Intergovernmental Panel on Climate Change (IPCC) report on "Climate Change and Land" defines regenerative agriculture as a "sustainable land management practise" focused on ecological functions that "can be effective in building resilience of agro-ecosystems." It encompasses resilient farming practises, food security, and soil fertility in a broader sense. In order to meet the pressing needs of the contemporary agriculture sector, ASTRA aims to provide an environment for collaboration, discussion, and idea exchange. The conference aims to bring together researchers, academicians, business people, and policymakers in order to cooperatively develop projects focused at regenerative agriculture.

NATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND TECHNOLOGY FOR REGENERATIVE AGRICULTURE (ASTRA)

MAY 23, 2023
[ONLINE MODE]



Organized by
Department of Agricultural Engineering
Bannari Amman Institute of Technology
Sathyamangalam – 638401
Erode, Tamil Nadu.

ABOUT BIT: Bannari Amman Institute of Technology is an autonomous, self-financing Engineering College approved by AICTE, New Delhi, and affiliated to Anna University, Chennai. Located on the banks of the river Bhavani, BIT offers 22 UG, 9 PG and MBA programmes and 13 departments offer PhD programmes. The institute has well-established academic and research facilities with many state-of-the-art initiatives. The campus has excellent infrastructure built in collaboration with industry and research partners. The spacious and earth-connected buildings, with their landscaped courtyards and pathways, are designed to emphasise business ethics and the characteristics of an excellent learning centre. The campus houses wellplanned academic blocks, computer centres, lecture halls, libraries, laboratories, conference rooms, staff quarters, residence halls and student centres.

About the Department: The Department of Agricultural Engineering was established in 2015 and offers a 4-year B.Tech degree programme in Agricultural Engineering. The department is equipped with state-of-the-art laboratory facilities and has qualified faculty and technical staff. To impart the knowledge on the aspects of crop production from seed to harvest, the department has a 10-acre farm with a well-equipped laboratory for agrometeorology and plant breeding. The department provides students with hands-on training in the latest technologies in agricultural engineering. The Department of Agricultural Engineering is accredited by National Board of Accreditation (NBA) for 6 years (2022-2028: Full accreditation).

Call for Papers: We encourage potential academics, students, and researchers to submit original technical papers on a variety of current topics related to the conference's theme for presentation and possible publication. The manuscripts may deal with a range of topics, not just those that are mentioned below

- Advanced food processing techniques
- Agricultural data analysis
- Sustainable agriculture for rural development
- AI in agriculture
- Biomass and bioenergy
- Blockchain technology for agri-business
- Climate change mitigation
- Crop monitoring and evaluation
- Crop residue management
- Crop resilience and nutrient management
- Environmental services
- Energy conservation and storage
- Futuristic farm machinery
- Geoinformatics and nanotechnology
- Integrated farming system
- Post-harvest technology for critical crops
- Protected cultivation practices
- Remote sensing and GIS
- Sensors for advanced monitoring
- Smart agricultural practices
- Irrigation and water management
- Smart technology for food security
- Soil carbon assessment
- Storage and packaging technology
- Sustainable materials for farming infrastructure

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Paper Preparation Guidelines:

The objectives, methodology, and findings should be presented methodically and accurately in the manuscript. The whole title, each author's name and affiliation, their contact information, an abstract (100–150 words), and 4-5 key words should all be included on the title page.

The papers must be typewritten on A4-sized paper in Times New Roman 12 font size. The accuracy, originality, and content quality of the information will be taken into account during the selection process.

Paper Submission Guidelines:

Prospective authors are requested to send their original works using the link: <https://rb.gy/bytku>



The camera-ready paper and DD based on the acceptance confirmation must be submitted. At least one author from each chosen abstract must be available for the presentation in order to get a participation certificate. Each accepted abstract will be published in the conference proceedings with an ISBN number.

The selected papers will be proposed for publishing in Scopus-indexed journals based on willingness of the authors.

Journals of Interest for Conference Proceedings:

[All indexed in Scopus]

- IOP: Earth and Environmental Science
- Materials Today Proceedings
- AIP Conference Proceedings
- Procedia - ESEM
- Advances in Engineering Research
- IET Conference Proceedings

Registration Details:

The Registration fee should be paid in Demand Draft in favor of "The Principal, Bannari Amman Institute of Technology" payable at Sathyamangalam, or through Online payment mode with the following details.

A/C Name : BIT - Center for Advance Studies
A/C No. : 911010036862582
Account Type : Savings Account
Branch : Axis Bank, Sathyamangalam
IFSC Code : UTIB0000368

Conference Fee Details:

Registration fee for presenting authors (inclusive of GST)

UG and PG students : INR 200/-
Research Scholars and Faculty : INR 500/-
Industry and Research Labs : INR 750/-

Important Dates:

Last Date for Submission of Abstract : 12.05.2023
Date of Intimation of Acceptance : 15.05.2023
Last Date for Online Registration : 18.05.2023
Last Date for Submission of full paper: 20.05.2023

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