



सीएसआईआर- एम्प्री
CSIR-AMPRI



National Conference on

New Horizons in Applied Research for

Sustainability

(NHARS-2024)

19th - 20th of DECEMBER 2024

JOINTLY ORGANIZED BY

**CSIR-ADVANCED MATERIALS
AND PROCESSES RESEARCH INSTITUTE, BHOPAL-462026**

In Association with

SCHOOL OF ENVIRONMENTAL BIOLOGY

&

DEPARTMENT OF PHYSICS

A.P.S. UNIVERSITY, REWA (M.P.)

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Aim of the conference

National Conference on New Horizons in Applied Research for Sustainability primarily focus on sustainable development and science research which has two important concepts in fields of science, policy, and practice that aim to address complex global challenges and promote the well-being of current and future generations. Multidisciplinary development refers to an approach that involves the integration of knowledge, expertise, and perspectives from various disciplines and sectors to address complex problems. It is recognized that many of the challenges facing by society today are interconnected and cannot be adequately understood or solved within the range of a single discipline or sector. Interdisciplinary Research encourages research that bridges the gap between different disciplines to address real-world challenges effectively. Multidisciplinary approaches are crucial in addressing issues in Environment, Science and sustainable development because they recognize the interconnection of these problems. Sustainable development aims to balance these three pillars, considering that they are interconnected. Achieving sustainability requires responsible resource management, social justice and vision of long-term consequences.

The integration of multidisciplinary approaches with sustainable development is essential because it allows for a more comprehensive understanding of complex sustainability challenges. By bringing together experts from various fields, policymakers and practitioners can develop more effective strategies and solutions that provide the economic, environmental and social dimensions of development.

Themes of the conference (Broad Areas)

- A. Physical Science
- B. Material Science & Engineering
- C. Chemical Science
- D. Astrophysics and Astronomy
- E. Artificial Intelligence
- F. Computing and Robotics
- G. Biotechnology and Sustainable Development
- H. Environmental Pollution and Toxicology
- I. Environmental Impact Assessment
- J. Medical and Environmental Microbiology
- K. Development of Herbal Medicines
- L. Conservation of Biodiversity
- M. Animal and Human Biodiversity
- N. Plant Biodiversity
- O. Microbial and Marine Biodiversity
- P. Crop improvement and Transgenic plant
- Q. IPR and Patenting
- R. CSIR-Skill Initiative Programme
- S. CSIR-Jigyasa Programme

About A.P.S. University, Rewa

Our university was established on 20th July 1968 as a state university of Madhya Pradesh. The University has been named after a distinguished son of the soil and a freedom fighter Capt. Awadhesh Pratap Singh, a national leader and the first prime minister of Vindhya Pradesh. The University was recognized by the UGC in February 1972. The University is a member of the association of Indian Universities (AIU) and All common wealth Association of Universities (ACAU). The university has 16 teaching departments which offers 49 conventional and professional programmes on self-supporting basis apart from the regular post graduate programmes.

About CSIR-AMPRI

The Advanced Materials and Processes Research Institute (AMPRI), Bhopal, was established in May 1981 as the Regional Research Laboratory (RRL) under the Council of Scientific and Industrial Research (CSIR), New Delhi. The institute officially began operations in Bhopal, initially located at the Bhopal University campus (now Barkatullah University). On March 6, 2007, the institute was renamed to Advanced Materials and Processes Research Institute (AMPRI) to better reflect its evolution focuses on advanced research in materials and processes. AMPRI's current research activities are broadly categorized into several key areas, including Lightweight Materials, Nanostructured Materials, Smart and Functional Materials, waste-to-wealth, water Resources Management, and Rural Technology. The institute is particularly renowned for its innovations in additive manufacturing, sensor technology, bamboo-based materials, radiation shielding tiles, geopolymeric materials, biomaterials, and water treatment solutions. Additionally, AMPRI is working in water quality monitoring and the development of sensor technologies. AMPRI is also deeply engaged in biosensor development and other technological innovations designed to improve the quality of life. The institute actively contributes to national initiatives such as CSIR Jigyasa, which encourages scientific curiosity among students, and Skill India, which aims to enhance the skill sets of the workforce through specialized training programs. By combining fundamental scientific research with practical applications, CSIR-AMPRI plays a crucial role in advancing India's technological capabilities. Through its diverse and innovative work, the institute addresses contemporary national challenges, contributing significantly to both scientific progress and societal development.

Level of Participants

Scientists and Academicians from same field or relevant field, Research scholars, Company Nominees could also attend the conference by sending the registration form along with Demand draft in favor of " HOD Physics deptt APSU R on or before 15th of December 2024.

Registration Fees-

For Students-	Rs 500/-
For Academicians, Scientists-	Rs 1000/-
For Company Sponsors -	Rs 2000 /-

(Lodging facility will be provided on request basis with participants own expense in university guest house and hotels available in Rewa city.)

Abstract and Paper Submission-

Abstracts and Research papers should be submitted in MS-word Format as soft copy as well as hard copy. The Softcopy of abstract must be sent to email address grfseb@gmail.com, editorgrf@gmail.com. & headsebpsu@gmail.com. Hard copy of Research paper and abstracts must be attached alongwith registration form. Abstract size should be upto 300-500 words also the research paper should be in standard format. The best paper award is also given to the presenter of the paper

Poster Presentation-

Research scholars and students can participate in the poster presentation competition and the top three posters will receive the awards. The poster should be of 4.0x3.0 feet and should be based on research area of candidate.

Session Details-

Day 1st – 19/12/2024

Registration-	09.00 AM to 10.00 AM
Inauguration Session and help desk -	10.00 AM to 11.00 AM
High Tea	11.00 AM to 11.30 AM
Technical Session 1-	11.30 AM to 01.30 PM Talk by Speakers
Lunch Break	01.30 PM to 02.00 PM
Technical Session	02.00 PM to 03.30 PM Talk by Speakers
Tea Break	03.30 PM to 04.00 PM
Poster Presentation	04.00 PM to 05.00 PM
Cultural Program	05.00 PM to 07.00 PM
Dinner	07.00 PM to 08.30 PM

Day 2- 20/12/2024

Technical Session	09.00 AM to 11.00 AM	Talk by Speakers
Tea Break	11.00 AM to 11.30 AM	
Paper Presentation	11.30 AM to 01.30 PM	
Lunch	01.30 PM to 02.00 PM	
Technical Session	02.00 PM to 03.30 PM	Talk by Speakers
Valedictory Ceremony	04.00 PM to 05.00 PM	
High Tea	05.00 PM to 05.30 PM	

Organizing Committee



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Prof. Rajkumar Acharya
Vice-Chancellor,
APS University, Rewa (M.P.) 486003



Patron

Dr. Avanish Kumar Srivastava
Director,
CSIR-AMPRI
Bhopal, Madhya Pradesh 462026



Program Coordinator

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Professor & HOD
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Rewa (M.P.)

Co-convener

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CSIR-AMPRI
Bhopal, Madhya Pradesh 462026

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Registration Form through Google form

<https://forms.gle/3QmG2AzvodrtMP51A>

Name :

Designation

Institution/organization

Category (Research Scholar/Teacher)

Date of Birth

Gender Male/Female.....

Educational Qualification.....

Research Purpose/Interest

Postal Address

E-mail-

Ph./Mob

Details of Payments (QR Code & Account No.)

- a. Amount Rs.....
b. Amount Transferred date.....
c. Bank

Accommodation Required: Yes/No
(on participants Expense)

Date

Place

Signature of Participant

(Xerox copy could be used)

Certificate and recommendation

This is to certify that information provided by
Mr./Ms/Dris
verified and found correct.

Signature with Seal of Authority

Payment Mode: Only Online NEFT/ PAYtm/UPI
Registration form and DD along with hardcopy of
abstract or full paper must submitted by post to
Dr. C. M Tiwari, Organizing Secretary, Department of
Physics, Awadhesh Pratap Singh University, Rewa
(M.P.) 486003 on or before 15th of December 2024.

Abstract and Full Lenth paper submission:

<https://grfseb.org.in/>,

Direct submission via; grfseb@gmail.com,

Account Holder name: HOD phisics deptt apsu r

Account Number: 21007694085

IFSC code : IDIB000R632

