

National Conference on Science & Technology for Women Empowerment and Rural Development

13 – 14 October 2023

Scientific Program

13 October 2023

Registration	09:30-10:30 am
Inaugural Session	10:30-12:15 pm
Welcome Address	Prof Keshav Kant Sahu , Convener of the Conference, PRSU
Address by the Patron	Prof Sachchidanand Shukla , Vice-Chancellor, PRSU
About the NASI	Dr Niraj Kumar , Executive Secretary, NASI
Brief Introduction of Women's Program of NASI	Prof Paramjit Khurana , Department of PMB, University of Delhi, South Campus
Key Note Address	Dr Pratibha Jolly , Former Principal, Miranda House, University of Delhi
Address by the Guest of Honor	Shri SS Bajaj , Director General, CGCOST, Raipur
Special Remarks	Padma Bhushan Dr Manju Sharma , Past President, NASI; Former Secretary to the Govt. of India, Department of Biotechnology; Chairperson, Science & Society Program, NASI
Inaugural Address by the Chief Guest	Padma Shri Prof Balram Bhargava , President NASI; Chief, Cardiothoracic Centre, AIIMS, New Delhi
Vote of Thanks	Ms Archana Pant , YWS, NASI
Tea/Coffee	12:15-12:30 pm
Technical Session-I	12:30-01:30 (S & T for Women Empowerment)
Chairperson	Prof SK Jadhav , School of Biotechnology, PRSU
Co-Chairperson	Prof Preeti K Suresh , Institute of Pharmacy, PRSU
Invited Speakers	Prof SR Joshi , North Eastern Hill University, Shillong <i>Rural women empowerment and national development: Role of S & T from the perspectives of tribal society of North-East India</i> Prof Neelam Sangwan , Central University of Haryana, Mahendergarh <i>Women in STEM: Expanding horizons</i>
Lunch	01:30-02:30 pm
Technical Session-II	02:30-04:00 pm (S & T for Women Empowerment)
Chairperson	Prof Priyamvada Shrivastava , School of Psychology, PRSU
Co-Chairperson	Prof Reeta Venugopal , School of Physical Education, PRSU
Invited Speakers	Dr Subhra Chakraborty , Director, NIPGR, Delhi <i>Title of the talk yet to receive</i> Dr N Ranjana , Director, DSTA, DRDO, Delhi <i>Defence research & development: Women scientists as harbingers of change</i> Prof Sunil Bhagwat , Director, IISER, Pune <i>Title of the talk yet to receive</i>
Poster Presentation	04:00-05:00 pm

14 October 2023	
Technical Session-III	10:30-11:30 am (S & T for Rural Development)
Chairperson	Prof Aditi Poddar , School of Life Sciences, PRSU
Co-Chairperson	Prof Ashok Pradhan , School of Anthropology, PRSU
Special Lecture	Dr Rajendra Dobhal , Vice-Chancellor, SRH University, Dehradun <i>Rural entrepreneurship- Promotion for regional economic growth</i>
Tea/Coffee	11:30-11:45 am
Technical Session-IV	11:45-12:45 pm (S & T for Rural Development)
Chairperson	Prof KK Ghosh , School of Chemistry, PRSU
Co-Chairperson	Prof Arti Parganiha , School of Life Sciences, PRSU
Invited Speakers	Prof Deepa Khushalani , TIFR, Mumbai <i>A chemist's route to alternate sources of green energy</i> Mr MD Khan , Senior Consultant, National Institute of Rural Development and Panchayati Raj, Hyderabad <i>Rural technology for women empowerment</i>
Technical Session-V	12:45-01:15 pm (Interactive Session)
Chairperson	Padma Bhushan Dr Manju Sharma , Past President, NASI; Former Secretary to the Govt. of India, Department of Biotechnology;
Co-Chairperson	Prof Paramjit Khurana , Department of PMB, University of Delhi, South Campus
Brief Comments by	Chairpersons & Co-Chairpersons of Different Technical Sessions
Technical Session-VI	01:15-02:00 pm (Valedictory Session)
Chairperson	Padma Shri Prof Balram Bhargava , President NASI; Chief, Cardiothoracic Centre, AIIMS, New Delhi
Co-Chairperson	Padma Bhushan Dr Manju Sharma , Past President, NASI; Former Secretary to the Govt. of India, Department of Biotechnology; Chairperson, Science & Society Program, NASI
Brief Remarks	Prof Keshav Kant Sahu , Convener of the Conference, PRSU Prof Sachchidanand Shukla , Vice-Chancellor, PRSU Prof Paramjit Khurana , Department of PMB, University of Delhi, South Campus
Chief Guest	Dr K Subramaniam , Member, State Planning Commission, Chhattisgarh
Vote of Thanks	Dr Santosh K Shukla , Assistant Executive Secretary, NASI
Lunch	02:00-03:00 pm

Google Meet Joining Link
Joining Link: <https://meet.google.com/gbp-soek-rhw>





National Conference on Science & Technology for WOMEN EMPOWERMENT AND RURAL DEVELOPMENT



13 - 14 OCTOBER 2023

Organised By:

Pt. Ravishankar Shukla University, Raipur

About University

Pt. Ravishankar Shukla University is Chhattisgarh's largest and oldest institution of higher education, founded in 1964, and named after the first chief minister of erstwhile Madhya Pradesh. The University has a sprawling campus in the western part of the capital of Chhattisgarh, Raipur. The campus of University is spread in **300.16 acres of land**. There are Twenty-Nine teaching departments in the University. Out of which six departments buildings have been constructed recently. A variety of self financed courses have been initiated in some departments. **The total number of employees is 700**, who provide the administrative support at different levels.

Attracted by the opportunity to study and conduct advanced research with renowned professors and fellow scholars in one of the Chhattisgarh's most dynamic cities, students also come from the neighboring States. **There are 5000 students enrolled** for variety of courses offered by the departments who are steered under the guidance of more than 100 faculty members. Jurisdiction of RSU covers entire central and southern part of Chhattisgarh. There are 180 educational institutions affiliated to the University. In the academic year **2005-06, about 1,25,000 students were enrolled**, both for undergraduate and postgraduate courses. The University plays a major role in the educational, cultural and economic life of the region.



Organizing Departments



School of Studies in Biotechnology



University of Pharmacy



Centre for Women's Studies



Committees



Patron



Prof Sachchidanand Shukla

Vice-Chancellor, PRSU, Raipur



Prof Balram Bhargava

President, NASI, Allahabad



Advisory Committee



Prof KK Ghosh



Prof SK Jadhav



Prof Reeta Venugopal



Prof Kavita Thakur



Prof BS Thakur



Prof Arti Parganiha



Prof SJ Daharwal



Prof LS Gajpal



Conveners



Prof Manju Sharma

(Chairperson, NASI Sci & Soc Program)



Prof Keshav Kant Sahu



Organizing Secretaries



Dr Deependra Singh



Dr Archana Pant

(YWS, NASI, Allahabad)



Joint Secretaries



Dr Afaqur Quraishi



Dr Vishal Jain



Dr Bhanusree Gupta



Dr Indrapal Karbhal



Executive Secretaries



Dr Kamlesh Shrivastava



Dr Kamlesh Shukla



Dr Ambar Vyas



Dr Nagendra Chandrawanshi



Dr Sunil Kumeti



Treasurer



Dr Manmohan Satnami



NASI: Brief History, Evolution & Activities

The National Academy of Sciences, India (initially called The Academy of Sciences of United Provinces of Agra and Oudh) was founded in the year **1930** with the objectives to provide a national forum for the publication of research work carried out by Indian scientists and to provide opportunities for exchange of views among them. Prof. Meghnad Saha the founder/ first President of NASI coined the mandate of NASI as 'Science & Society'. Since then, the Academy has crossed many milestones, successfully serving this very mandate. The Academy undertakes several 'Science-Society' programmes under the guidance of its President (Presently, Prof. Balram Bhargava), Past Presidents like Prof. M.S. Swaminathan, Prof. Manju Sharma, Prof. P.N. Tandon, Prof. Jai Pal Mittal, Prof. V.P. Kamboj, Prof. Ashok Misra, Prof. Asis Datta, Dr. K. Kasturirangan, Prof. Akhilesh K. Tyagi, Prof. Anil Kakodkar, Prof. G. Padmanaban and Prof. Ajay Ghatak who are the distinguished scientists and the Fellows. It is worth mentioning that a few other Past Presidents (unfortunately who are not with us now) as Prof. M.G.K. Menon, Dr. V.P. Sharma, Prof. A.K. Sharma, Dr. T.N. Khoshoo, Prof. U.S. Srivastava, Dr. A.P. Mitra, Dr. S.Z. Qasim and Prof. S.K. Joshi also contributed a lot to the development of science. The Academy while starting with 57 ordinary Members and 19 Fellows has now 1944 Members and 1959 Fellows including 15 Honorary Fellows and 113 Foreign Fellows from various disciplines of Science and Technology. The Academy is financially supported by the Department of Science & Technology, Ministry of Science & Technology, Government of India; and also recognized as the Scientific and Industrial Research Organization by the DSIR, Government of India.

NASI envisions the cultivation and promotion of Science & Technology in all its branches through

- (a) promoting scientific and technological research related to the problems of societal welfare;
- (b) publication of proceedings, journals, memoirs, transactions and other works as may be considered desirable;
- (c) organizing meetings and hold discussions on scientific and technological problems;
- (d) undertaking, through properly constituted committees and bodies, the scientific work(s) of technological or public relevance;
- (e) co-operating with other organizations in India and abroad, having similar objectives, and to appoint representatives of the Academy to act on national and international bodies;
- (f) securing and managing funds and endowments for the promotion of science and technology;
- (g) maintaining a Science Library;
- (h) performing all other acts, matters and things hence, creating an adequate impact of the Academy all over the country by opening the Chapters of it in other cities/states in the country where reasonable number of Fellows and Members are available.

About Conference

Women empowerment refers to increasing the spiritual, political, social or economic strength of women. An important factor in achieving these reforms will be a greater presence of women in decision-making bodies, be they scientific or political. The voice of women in governance is essentially required to create the political will essential to bring about changes that will benefit all of society. India is celebrating **progressive 75 years of India after independence with "Azaadi Ka Amrit Mahotsav"** and promulgating mission of warranting women as **"Empowered Women- Empowered Nation"**.

India is an agrarian economy with **about 54.6% of total workforce engaged in agriculture**. According to an estimate, about **41.8% of rural females** participate as workforce, while only **35.3% of urban women**. Hence, rural women can be tagged as **"torchbearers"** for social, economic and environment transformation for the New India.

There are roughly 350 million women in rural India, who move from the villages to the cities in search of jobs now-a-days, hence; are left behind to fend for themselves and their families. Such women have the potential to contribute to the economy, besides generating an income for themselves and their families.

The noteworthy accomplishments are:

- 1. Publications:** NASI publishes 'The Proceedings of NASI-Sec. 'A' & 'B', each in IV parts and 'National Academy Science Letters' in VI parts in collaboration with the Springer Nature, every year. More than 1000 papers are received from 50 countries/regions every year;
- 2. Science Education/Communication Activities:** NASI-HQ and its 22 Chapters spread across India are organizing several science education/communication activities in and around their respective regions;
- 3. Activities under Joint Women in Science (WiS) Panel of three National Science Academies :** NASI is heading this joint panel of three National Science Academies (IASc, NASI & INSA) under the leadership of Prof. Manju Sharma, Past President, NASI & Former Secretary to the Govt. of India;
- 4. Research Projects being undertaken by the NASI-Chairs & Senior/ Scientists:** NASI has undertaken several important research works/projects led by its Distinguished Chairs and the Senior/Hon. Scientists. The detailed reports are available on the website of NASI- www.nasi.nic.in ;
- 5. S&T Entrepreneurship development:**
 - Training programs for entrepreneurs
 - Awareness and Training on Nutrition, Safe drinking water, Health & hygiene, etc., included in the spirit of Swasth Bharat Mission
 - Safe drinking water and pollution abatement, especially for the rural areas and municipal workers (included in the spirit of Swachh Bharat Missionl);
- 6. Activities under Scheduled Tribe Sub-Plan Programmes ;**
- 7. Annual Session/Symposia/Seminars & Scientific Discussions;**
- 8. Fellowship/ Membership;**
- 9. Science Education Programmes in joint collaboration with National Science Academies;**
- 10. Recognition and Awards;**
- 11. Major and Unique National Facilities such as establishment of two galleries (other than the Ganga-gallery at Prayagraj) on the rivers Brahmaputra and Cauvery at Guwahati (with the partial support of the Government of Assam) and Mysuru respectively (with total support of the Government of Karnataka);**
- 12. Establishing National and Global Collaborations** with other two Science Academies viz.; INSA, New Delhi and IASc, Bangalore.

In India, reforms have been underlined for holistic development of women, enabling socio-economic and health security. Since Independence, several flagship schemes and programmes have been initiated by the Government to improve status of rural women in society by creating livelihood opportunities. Even though, a lot effort has to be still done to make the rural women techno-empowered and scientifically skilled, which will make this country an **"Empowered Nation"**, in real sense. Keeping in mind, **proposed Conference has been planned with objectives like; exploring roles/ priority areas of science & technology for women empowerment and rural development** in terms of enhancing livelihood opportunities, quality of life, new opportunities in agriculture and farm production, relieving burdens, prioritizing health safety, fostering entrepreneurship opportunities, and improving occupational health.



DAY-1

October 13, 2023

DAY-2

October 14, 2023

S&T FOR WOMEN EMPOWERMENT

S&T FOR RURAL DEVELOPMENT

Thematic Areas

- ✓ Science & Technology for Women Empowerment
- ✓ Science & Technology for Rural Development

Call for Abstract

The Conference invites abstracts from the delegates of all over the globe including guest/ invited speakers, faculties, research scholars, post-graduate and graduate students from different organizations, and entrepreneurs. Specific session will comprise of only poster presentation. The conference will be a suitable forum for sharing new advances, current trends and research conclusions. For any thematic area abstracts may strictly be submitted via E-mail at **confwomen2023@gmail.com**. Abstract (not more than 300 words) should be prepared using Times New Roman (12 pt) in single line spacing. Title should be in bold. Abstract should be free from plagiarism. Mention names of the author(s), affiliation(s) and mail ID of corresponding author. Underline the name of presenting author. Abstract must have background of the work, methods, results and conclusions.

Poster Presentation

Size of poster should be under 36 (W) x 48 (H) inches. Certificate will be provided to all the registered participants. However, certificate of presentation will be provided to the participants, who will present their work.

Deadlines

Submission of Abstracts	September 30, 2023
Notification of Acceptance	October 05, 2023
Registration	October 12, 2022

(Spot Registrations can also be done)

Contact

Convener
Nat. Conf. WEARD
School of Studies in Biotechnology
Pt. Ravishankar Shukla University
Raipur 492 010, Chhattisgarh
Phone: 9425228966 (M); 0771 2263022 (O)
E-mail: confwomen2023@gmail.com

Registration Details

The Registration for the Conference is through Google form.
Link for registration:

<https://forms.gle/Q6WXfnUzoFmhvKF8A>

Registration Fee

Students/ Scholars/PDFs/ Others:

Rs 300.00

Faculties/ Industrialist/ Delegates/
Others:

Rs 500.00

Payment Details

Name: National Conf on Traditional Knowledge & Biotech (KK Sahu)
Ac/ No: 33327362092
Bank: State Bank of India
Branch: Ravi Shankar University Campus Raipur 492 010, Chhattisgarh

Or

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UPI ID: natconbiotech@sbi

