



SHAKTI & JAWAHARLAL NEHRU UNIVERSITY



Science Technology Research &
Entrepreneurship Enhancement

National Conference & Expo

On the role of Women in
Science and Technology
for Sustainable Development
of Atmanirbhar Bharat

24th to 26th November 2022

at Convention Centre, Jawaharlal Nehru University,
New Delhi-110067

Supported by



OBJECTIVES

- **To bring the scientists, entrepreneurs, academicians, NGOs, SHGs on the same platform to share their experiences, suggestions, opinions and vision.**
- **To formulate a roadmap for time bound achievement of goal of sustainable development.**
- **To further increase the participation of women in achieving sustainable development goals by extending the outreach to women in general through development of scientific temper.**
- **To bring forth and render due credit to the efforts and innovations made by women in India across all the fields those were hitherto hidden or remained unnoticed but can bring about great change in the manner sustainable development is perceived by the world.**
- **To showcase the glorious history of Indian culture which having been led by women have the ethos of sustainable development at the very core of its heart.**
- **To encourage dissemination of scientific innovations and technologies by women scientists.**
- **To promote more community participation for the development of society with the intervention of science and technology.**
- **Increase interaction and promote networking and exchange between women scientists, women activists and women entrepreneurs from across the country.**
- **Increase understanding of the role of science and technology in supporting women's critical role in sustainable development.**

THEMES

1: Women in Pure and Applied Sciences

- **Biological Sciences**
- **Physical Sciences**
- **Mathematical Sciences**
- **Chemical and Engineering Sciences**

2: Women in Technical Institutes

- **Prospects and Challenges**
- **Enhancement of women participation.**

3: Gender Equilibrium in Research and Academics

- **Sensitizing the Mindset of Society**
- **Promoting Conducive Atmosphere at Work Place**
- **Bridging Career Breaks**

4: Women and Sustainable Agriculture

- **Natural and Organic Farming**
- **Pesticides and Preservatives**
- **Agri-Indus (Agriculture based industries)**

5: Women in Environmental Protection

- **Natural Resource Conservation**
- **Ecosystem Management**
- **Energy Management**

6: Women in Responsible Production and Consumption

- **Enhancing participation for Implementation of Government Flagship Policies**
- **Role of MSMEs for Promoting Eco-friendly Technologies**
- **Promotion of Women Entrepreneurship & Women Innovators**

7: Women in Health & Lifestyle Management

- **Wellness and Happiness Quotient**
- **Mental, Physical, Social, Nutritional and Spiritual Health with emphasis on Traditional Health Practices**

8: Women and Socio- Cultural Development & Indigenous Practices

- **Women as epitome of Cultural Sustainability**
- **Indigenous Practices**
- **Women as Pillars of Society**

HIGHLIGHTS

- **A Platform to present your research findings**
 - **Poster presentation**
 - **Oral presentation**
- **Great opportunity to be enlightened with address & interaction with the best of the renowned experts**
 - **Keynote speakers**
 - **Panelists**
- **Unique opportunity to share success stories & experiences**
 - **Open Forum**
- **Unique opportunity to showcase your products & technologies**
 - **Mega Expo**
- **Unique Learning**
 - **Women Training workshops on women friendly technologies**
- **Recreation for all**
 - **Cultural Events**

REGISTRATION

- Approx. 1000 participants registered
- Around 300 posters were presented
- 64 oral presentations were presented

INVITATION



cordially invites you to



National Conference & Expo
On the Role of Women in
Science and Technology
for Sustainable Development
of Atmanirbhar Bharat

24 to 26 November 2022 | 9:00 A.M. onwards
at
Convention Centre, Jawaharlal Nehru University, New Delhi- 110067

24-11-2022 EXPO INAUGURATION CHIEF GUEST DR. RAJESH GOKHALE SECRETARY FOR THE DEPARTMENT OF BIOTECHNOLOGY GOVERNMENT OF INDIA	24-11-2022 EXPO INAUGURATION GUEST OF HONOUR DR. HARJINDER KAUR TALWAR RECEPTION COMMITTEE CHAIR BOARD MEMBER, MSME	25-11-2022 CONFERENCE INAUGURATION CHIEF GUEST DR. JITENDRA SINGH MINISTER OF STATE (INDEPENDENT CHARGE), MINISTRY OF SCIENCE AND TECHNOLOGY AND EARTH SCIENCES	25-11-2022 PLENARY TALK GUEST OF HONOUR DR. N. KALAISELVI DIRECTOR-GENERAL, CSIR	26-11-2022 VALEDICTORY PROGRAM CHIEF GUEST SHRI SARBANANDA SONOWAL CABINET MINISTER, MINISTRY OF AYUSH
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CHIEF PATRON **PROF. SANTISHREE D. PANDIT, VICE-CHANCELLOR, JNU**

PROGRAM

24 th November 2022 EXPO EVENTS		25 th November 2022 Conference and EXPO EVENTS				26 th November 2022 Conference						
						CONFERENCE		ORAL TALK				
10:00AM 11:00AM	EXPO Inaugural Session	9.30AM-12:00PM	Conference Inauguration		Chief Guest- Dr.Jitendra Singh, Minister of State(Independent Charge), Ministry of Science and Technology and Earth Sciences. Plenary Talk by Dr. Malaiselvi DG-CSIR			AUDI I	Lecture Hall 1	Lecture Hall 2		
11:00AM 5:30PM	EXPO	CONFERENCE		ORAL TALK	OPEN FORUM			9:30AM-11:00 AM	SESSION-III Women in Pure Applied Sciences and Women in Technical Institutes	Women in Gender Equilibrium in Research & Academics	Women in Socio Cultural Development & Indigenous Practices	
	AUDI I	AUDI 1		Lecture Hall 1	Lecture Hall 2	AUDI II			9:30AM-10:00AM	Dr. Seema Vinayak, Director, SSPL, DRDC, New Delhi	Oral Talks 3/WGIRA/O-01 3/WGIRA/O-02 3/WGIRA/O-03 3/WGIRA/O-04 3/WGIRA/O-05 3/WGIRA/O-06 3/WGIRA/O-07 3/WGIRA/O-08	Oral Talks 8/WSCDP/O-01 8/WSCDP/O-02 8/WSCDP/O-03 8/WSCDP/O-04 8/WSCDP/O-05 8/WSCDP/O-06 8/WSCDP/O-07 8/WSCDP/O-08
11:30AM 1:30PM	OPEN FORUM	SESSION-I Women in Health and Lifestyle Management		Women in Sustainable Agriculture	Women in Responsible Production and Consumption	12:00NOON 1:30PM	SESSION-III Partnership and Linkages: Business Women and Entrepreneurs		11:30AM-1:00PM	SESSION-IV Women in Environment Protection	Women in Pure Applied Sciences (1a-Pure)	Women in Pure and applied sciences (1b-Applied)
11:30AM 12:10PM	Prof. Lakshmi Kantam Mannepilli, Institute of Chemical Technology, Mumbai	12:00PM-1:30PM		Chairperson Dr. Tanuja Nesan Director, All India Institute of Ayurveda	Oral Talks 4/WSA/O01 4/WSA/O02 4/WSA/O03 4/WSA/O04 4/WSA/O05 4/WSA/O06 4/WSA/O07 4/WSA/O08	12:00PM 12:30PM	Prof. Shaonray Chaudhuri, HOD Microbiology, Tripura University	11:30AM-1:00PM	Chairperson Dr. Chandrakala Padia, Former Chairperson, IAS, Shimla	Oral Talks 1/WPS/O01 1/WPS/O02 1/WPS/O03 1/WPS/O04 1/WPS/O05 1/WPS/O06	Oral Talks 1/WAS/O01 1/WAS/O02 1/WAS/O03 1/WAS/O04 1/WAS/O05 1/WAS/O06	
12:10PM 12:50PM	Smt. Nandini Harinath, Deputy Director, ISTRAC, Bangalore	12:00PM-12:30PM		Keynote Su Shri Nivedita Bhade (Padma Shree Awardee), All India Vice-President, Vivekananda Kendra, Kanvaikumar	Panel Discussion Dr. Rama Jayasundar, Dr. Vinti Davat, Smt. Rama Anand, Dr. Aparna Sharma, Dr. Shajia Gupta, Prof. Shaifa Singh (Moderator)	12:30PM 1:00PM	Smt. Simmi Nanda, Entrepreneur, E-Commerce and Branding Expert, Noida	11:30AM 12:00PM	Keynote Smt. Nita Ganguly, Author, Climate leader	Panel Discussion Dr. P. Bineetha, Prof. Kavita Shah, Dr. Nisha Mendiratta, Dr. Tripta Thakur, Dr. Akshaya Manerkar, Dr. Usha Minat (Moderator)		
12:50PM 1:30PM	Prof. Deepika Bhaskar, Registrar, IIT Delhi	12:30PM-1:30PM		Panel Discussion Dr. Rama Jayasundar, Dr. Vinti Davat, Smt. Rama Anand, Dr. Aparna Sharma, Dr. Shajia Gupta, Prof. Shaifa Singh (Moderator)		1:00PM 1:30PM	Smt. Phoolbasan Bai Yadav, Padma Shree Awardee, Women Social Worker Chhattisgarh	12:00PM-1:00PM				
2:30PM 4:30PM	OPEN FORUM	SESSION-II Women in Sustainable Agriculture, Production and Consumption		Women in Health and Lifestyle Management	Women in Environment Protection	2:30 PM-4:30 PM	SESSION-IV Prospects and Possibilities: Women Administrators		2:00PM-3:00PM	SESSION-V Women in Gender Equilibrium and Socio Cultural Indigenous Practices		
2:30PM 3:10PM	SESSION-II Interaction with Women in S & T Research Areas and Career Planning	2:30PM-3:00PM		Chairperson Dr. Shrubha Chakraborty, Director, NIPGR, New Delhi	Oral Talks 5/WEP/O01 5/WEP/O02 5/WEP/O03 5/WEP/O04 5/WEP/O05 5/WEP/O06 5/WEP/O07 5/WEP/O08	2:30PM 3:00PM	Smt. Supriya Badve, Executive Director, Badve Engineering Ltd, Pune	2:00PM-3:00PM	Chairperson Smt. Rekha Sharma, Chairperson, National Commission for Women (NCW)			
3:10PM 3:50PM	Dr. Renu Pandey, Principal Scientist, IARI, New Delhi	2:30PM-3:00PM		Keynote Smt. Rahibaiji (Padma Shree Awardee), The Seed Mother	Panel Discussion Prof. Sampa Das, Dr. Sridevi Annapurna Singh, Dr. Anika Karun, Dr. Purnima Rupal, Mrs. Monika S. Mohite, Dr. Vibha Gupta, Dr. Rina Sharma (Moderator)	3:00PM-3:30PM	Smt. Malavara Bala Latha, Director, CSBIAS Academy, Hyderabad	2:00PM-3:00PM	Keynote Dr. Anjali Deshpande, Secretary, Dishi Stree Adhyayan Prabodhan Kendra			
3:50PM 4:30PM	Dr. S. Uma, Director, ICAR, National Research Centre for Banana, Tiruchirappalli	3:00PM-4:00PM		Panel Discussion Prof. Sampa Das, Dr. Sridevi Annapurna Singh, Dr. Anika Karun, Dr. Purnima Rupal, Mrs. Monika S. Mohite, Dr. Vibha Gupta, Dr. Rina Sharma (Moderator)	Representation of Women Farmer Mrs. Vansha Tatwawadi (Co-Ordinator)	4:00PM 4:30PM	Dr. Priyanka Priyadarshini, R&D Chief, Panacea Biotech Ltd., New Delhi	2:30PM-3:00PM	Panel Discussion Dr. Shashi Bala Singh, Prof. Anand Rangnathan, Dr. Sharmila Mande, Dr. Geetha Vani Rayasam, Prof. Punam Kumar (Moderator)			
		4:00PM-4:30PM		Poster Presentation and Evaluation						VALEDICTORY by Hon. Shri. Sarbananda Sonowal		
		4:30PM-5:30PM		Cultural Programme by Dr. Sangeta Bapat and Smt. Sanmita Shinde								

EXPO INAUGURATION

Opening of ribbon and lightening of lamp was done at EXPO Inauguration by Dr. Shekhar C. Mande, Prof. Santishree D. Pandit, Dr. Tanuja Nesari, Dr. Gulshan Wadhwa, Dr. Naresh Aggrawal, Dr. Purnima Rupal, Mrs. Harjinder Kaur Talwar. This was followed by Mantra chanting by Dhyan Foundation. The dignitaries were escorted to the stage for the brief inaugural session. The guests were welcomed by offering plant saplings. DBT representative, Dr. Gulshan Wadhwa briefed about the EXPO displayed by DBT in the stall of STREE2020. He acknowledged the work of women entrepreneurs. Dr. Naresh Aggarwal, DST representative indicated by role of Survey of India to decimate science and technology to the common people. Dr. Purnima Rupal, CSIR representative mentioned about the achievements of CSIR women entrepreneurs and their exhibits in STREE2020 stalls. There was participation from CLRI and CMAP and NBRI and other CSIR institutes. Dr. Tanuja Nesari, Director AIIA appreciated the involvement and awareness of Ayurveda in Science and Technology for therapeutic development. She mentioned that collaboration with scientists on such a big platform like STREE2020 will further enhance and promote outreach activity.





EXPO@STREE2020

Report

Mega expo of STREE 2020 was held from 24th to 26th November, 2022 in JNU convention center lawn.

There were three parts for this mega expo. The first one was for government organizations where we made nine stalls. The second one included seventeen stalls out of which one was that of Shakti's activity for outreach programme for school Students and another one was to showcase and sell shakti' Village development programme and the third one was a canopy for the Ministry of Earth and Science where virtually people could experience our Antarctica research station 'Maitri'.

In the first pavilion, the main attraction was the All-India Institute of Ayurveda (AIIA). Our Honorable cabinet minister for AYUSH Shri Sarbananda Sonowal Ji gave his best attention to our expo. Because of his

strong handholding, we could manage the entire expo nicely. There were ayurveda, homeopathy, yoga representation from four departments of AIIA. They displayed their works within the 800 sq.ft. stall. In that stall scientists, doctors, yoga therapists etc. were present. In this first pavilion there were Patanjali stall and a stall from CSIR - TKDL units presented their ayurvedic products too. The main attraction was AIIA because of its grandeur. Ten schools and more than thousands of students attended the expo in these three days. The outreach program was really satisfactory. From the AIIA stall, students got lots of gifts like ashwagandha, tulsi, Youth kits and many more. They displayed more than 25 schemes which were beneficial for JNU's ayurveda students. All ayurveda students from the School of Sanskrit and Indic Studies (SSIS) were very happy with the expo. The main reason behind their happiness was the stall by the All-India Institute of Ayurveda. During the expo not only the ayurveda students but also other visitors had the opportunity of learning about basic health, nutritive and medicinal values of the food. Tips regarding yoga helped many visitors. AIIA shared various pamphlets. And, in their big led screens, banners and posters they provided information about many ayurvedic products, and remedies and precautions of diseases.

The inaugural program was on 24th November, 2022 from 9-30 am. The program was inaugurated by cutting the ribbon and by lighting the lamp by Dr. Shekhar C Mande, former DG CSIR and president of Vijnana Bharati, Prof. Shantishree D Pandit, VC of JNU, was Chief guest of the programme Dr Tanuja Nesari, Director, All India Institute of Ayurveda (AIIA),

Dr. Purnima Rupel, Head DGED, CSIR, Dr. Gulshan Wadhwa, Director, DBT, Dr. Naresh Aggarwal, DST, and guest of honour Mrs. Harjinder Kaur Talwar, founder of Comvision).

Immediately after the inauguration, we arranged for one havan done by the Dhyana foundation for mental, physical and environmental purity and to spread positive energy.

In the second space students of 9 departments of JNU showed their experiments. These experiments were very much helpful and which will lead to self-reliant, sustainable developed India.

This mega expo was conducted by Shakti in association with JNU to promote science, technology along with indigenous knowledge and medicine among girls and women. Shakti is an organization working for women by women in the spreading information about science and technology across India. In the expo, the Shakti stall conducted various activities like lectures, brain games, awareness film show on sustainable development for children and a workshop on 3D-printings. Shakti invited different agencies and organizations for various awareness programs and activities that entertained and involved students who came to visit Shakti stalls.

Thousands of Students from 10 schools came for this outreach program. Other than local Delhi, Noida schools, there was also a long-distance school.

Shakti arranged tiffin and lunch for all students. There was also a stall for Shakti rural development. Through their rural development program, the Shakti is working to turn village ladies to entrepreneurs.

This expo was an educative and informative one. It engaged people in gathering of knowledge about science and technology along with the modern and traditional aspects of medical science. We consider this expo a grand success on the basis of feedback received from students, print media and electronic social media platforms.

The Mega expo in Stree 2020 got a very good response from visitors, students and stall holders. The theme of the program was science and technology for sustainable development showcasing modern science and technology along with modern aspects of ayurveda. The expo was conducted for spreading the awareness about science and technology among students, professors, researchers, entrepreneurs and the common public. This mega expo was sponsored and supported by AIIA, DST, DBT, CSIR and Patanjali. The major portion of funds has come from AIIA, supported by the Ministry of Ayush, Government of India.

AYUSH Ministry



All India Institute of Ayurveda



Department of Science and Technology



Department of Biotechnology



Council of Scientific and Industrial Research



Dignitaries Visiting stalls at STREE2020 EXPO



CONFERENCE INAUGURATION

- Welcome Address by Dr. Ranjana Arya, SBT, JNU, Convener STREE2020
- „Concept of SHAKTI“ by Dr. Sudha Tiwari, President, SHAKTI
- „VIBHA Vision“ by Prof. Sudhir Bhadauriya, Secretary General, VIBHA
- „Academic overview of STREE 2020“ by Dr. Ranjana Aggrawal
- JNU Viewpoint by Prof. Santishree D. Pandit, Vice Chancellor, JNU
- Brief address by Shri Sunil Ambekar, Akhil Bhartiya Prachar Pramukh, RSS
- Release of STREE2020 Souvenir and Lokarpan of SHAKTI survey report
- Remarks by Dr. N Kalaiselvi, Director General, CSIR
- Vote of Thanks by Dr. Leena Bavadekar, General Secretary, SHAKTI
- Plenary Talk by Dr. N Kalaiselvi, Director General, CSIR

Dr. Ranjana Arya briefed about the conference and described the overall sessions and theme. Dr. Sudha Tiwari talked about Shakti vision and mission and also about the initiation of the concept of the conference. Prof. Sudhir Bhadauria brief about VIBHA vision of SHAKTI, Academic themes of the conference were introduced by Dr. Ranjana Aggarwal. Then Prof. Santishree D. Pandit brief about the role of JNU in conference and the expected outcomes. Shree Sunil Ambekar guided about involvement of women in nation building and stressed spread of science in local language. He also congratulated the progress of women. Dr. Kalaiselvi in her speech marked the achievement of women in science and mentioned that she will as DG-CSIR promote the percentage of women in science. The souvenir, consisting of good wishes, useful articles by eminent personalities and abstract of the papers & posters on the same theme, was released in this inauguration by the esteemed guests. The vote of thanks was given by Leena Bavadekar at the end of the programme.





OPEN FORUM

Report

In the open forum comprised of four sessions

- Session I: Success Stories by Women Leaders in S & T and Women Technocrats
- Session II: Interaction with Women in S & T for Research areas and Career Planning
- Session III: Partnership and linkages Business Women & Women Entrepreneurs
- Session IV: Prospects and Possibilities by Women Administrators

For each session one chairperson and one moderator have been identified.

24.11.2022

Session 1 -Success Stories by Women Leaders in S & T and Women Technocrats

The session was chaired by Prof Vibha Tandon (JNU) and was moderated by Prof Dr Sangeeta Kale (DIAT-DRDO) Pune.

The talks were delivered by Prof Laxmi Kantam Mannepalli (Former Director ICT, CSIR), Smt Nandini Harinath (Deputy Director, ISRO) and Prof Deepika Bhaskar (IIT Delhi). Following were the salient points which emerged from the talks and following discussions:

1. Women should have a genuine plan towards meticulous career and advanced studies.
2. Moving to various designated locations for upgrading the career and for higher studies should be always opted. Opportunities come rarely, and they should be taken.
3. Prof Laxmi emphasized on the fact that hard work and innovations give identity to a person. International exposure is necessary.
4. Smt Nandini Harinath, mentioned that ISRO has a good presence of women and it has nurtured women scientists for a long time.
5. In her language of space, she said “it is important to cruise the trajectory of career and do proper course correction in the middle, if needed, so that the final flight is good and successful.
6. Prof Deepika Bhaskar mentioned that science administration is as important as the role of scientists. They are facilitators for doing good research and innovations. Her unconventional journey showed that institutes like IITs require an able Register to facilitate new schools, Centres and incubated companies.

Prof Sangeeta Kale summed up the event and Prof Vibha Tandon expressed her gratitude to all speakers. An extremely good questions & answers session was the highlight of the event.

Session II: Interaction with Women in S & T for Research areas and Career Planning

The session was Chaired by Prof. Anita Verma Kamra, Delhi University, and was moderated by DR. UMA MASUR- Shakti- Goa.

Dr. Jyotsana Dalal

She spoke about TDB and its activities, the funding areas, specific for women, support extended for start-ups, scaling of companies, Incubation centres, training and workshops

Dr. Renu Pandey

Coming from a remote Far east parts of India, from a humble background, she outlined on her career growth, the challenges in the area of agriculture, the projects, funds acquired and prospects in ICAR institutions

Dr. S. Uma

Detailed about different varieties of Banana, the training programs for women in cultivation, value addition of Banana crop residues, and products for commercialisation

25.11.2022

Session III: Partnership and linkages Business Women & Women Entrepreneurs

Was chaired by Indu Shrotri and Smt. Rajani Sinha as Moderator,

Smt. Phoolbasan Bai Yadav

Padma Sri Awardee

After her hardships in life, she formed a woman sangathan for empowerment, training and skilling for women financial independence. The resources in their villages are the source of their income and business / entrepreneurship

Prof. Shaonray Chaudhari

She spoke about her endeavours in changing life of people through microbiology. She has a start up on degrading waste material into linen substitute. She is making fabrics out of the degraded fibre for which she has patent

Smt. Simmi Nanda

She spoke about her e-commerce venture in rainbow block heeled men's footwear for LGBTQ society. Sales are world wide

Session IV: Prospects and Possibilities by Women Administrators

The session was chaired by Dr. Chanchal Deep Kaur and was moderated by Dr. Rajashree Kaushalkar.

- First speaker was Smt. Mallavarapu Bala Lata: she speaks on moto of life; life like live current not a dead current. A person from very humble background she is a multitasked, dedicated, sincere does time management perfectly. She guided UPSC aspirants with dedication and passion.
- We should make a social structure change for common women to succeed. Gender equality id needed in civil services and the entire field.
- Questions What efforts you do to motivate your student
- Ans. All are vulnerable but student should have planning to regain enthusiasm and restart with the support of mentors.

Q. Why women are not given reservation in IAS and UPSC this is policy matter government should think about it. How can a person prepare with job?

Ans. Daily male notes, standard 3 to 4 hours study NCERT books of 6th to 12th standard. Read standard books, read newspaper daily. Do smart work and work in correct direction.

Second speaker Smt. Supriya Badave

- She started with three workers and now become a group of more than 20 thousand workers in Badave Engineering Ltd.
- Recruited various females have robots in their factories which are also regulated by females. Females need to be consistent and overcome their challenges.
- Key focus areas: Transformations role, initiated and implemented ma. Mam machine materials and method across the group
- Leadership principles followed are total productive management, theory of constraints corporate government and sustainability.
- Fellow intra group Kaized system to maintain uniformity and motivate official with awards.
- Q. What should young girls do to become entrepreneurs or com in the field Industry
- Ans. Consistency dedication hard work and skill development are key features.
- She gave gist of the activity awards given in their form to motivate workers and also increase female staff percentage.
- Smt. Gedi Surekha ji senior manager, Podupu Lakshmi women Bank, Nellore
- To strive for entrepreneurship of women family and staff development with dignity is required. Technical and vocational training for women should be focused.
- MACTs office bearers they are trying to recruit females so they are named Mahila Bank
- All 12 women and members of SHG
- They focus on SHG leaders training. They aim at forming 500 self-help groups and offer credit for health, education, agriculture.
- Dr. Priyanka Priyadarsiny, R and D head, Panacea Biotech Pvt Ltd, New Delhi.
- Women in the horizons of Science and Technology
- Only 11 to 12 % are represented by women. So, a lot has to be done to bring women together posts and become professionals
- There should be skill development councils, training institute corporate collaboration is of ardent need.
- Why India needs women entrepreneurs
- As only 13.76 % of total entrepreneurs in India are women.

To increase percentage of women entrepreneur motivation dedication skill development is must.



ACADEMIC SESSION

Report of Session I Women in Health & Lifestyle Management

12.00PM- 1.30PM		SESSION I - Women in Health and Lifestyle Management
12.00PM -12.10PM	Introducer	Smt. Vijeta Gupta, Bihar SHAKTI
	Chairperson	Dr Rama Jayasundar, Professor and HOD NMR, AIIMS
12.10PM -12.40PM	Keynote	Su Shri Nivedita Bhide (Padma Shree Awardee), All India Vice President, Vivekanandakendra, Kanyakumari
	Co-Chairpersons	Manasi Deshpande, SHAKTI, Maharashtra
		Kirti Bhati, Associate Prof. Bharti Vidyapeeth University, Pune
Moderator	Prof. Shailja Singh, SCMM, JNU	
12.40PM -1.30PM	Panellist	Dr. Vinti Davar, Clinical Nutritionist
		Smt. Rima Anand, General Manager, Dhyan Foundation
		Dr. Shailja Gupta, Advisor, DBT, and Ex-Advisor, PSA Office

Keynote speaker: Sushri Nivedita Bhide

Chairperson: Dr Rama Jayasundar

Panelist: Dr Vinti Davar, Smt Rima Anand

Summary: -

Sushri Nivedita Bhide ji focused on 2 main aspects of **1. Poverty** & **2. Lifestyle**

She shared her experience on the work where poverty was taken care of by making others realize about sharing and giving, creating a bondage which was coined as ek muthi anaj.

She further summarized on emotional and spiritual health. For this. She summarized on reconnecting yourself with your family, your society and your nation to fulfil the dream of Honorable PM Narendra Modi ji, "One earth one family one future"! She also said that we have to regenerate what is already existing with us.

Dr Ramaji expressed the role of women's health and its impact on the physical, physiological psychological and spiritual health.

Dr Vinit focused on the impact of diet and nutrition. She summarized on the effect of fast food and junk food in this generation.

Smt. Rima expressed the importance of meditation and spirituality in today's generation.

Dr Manasi reiterated the importance of a seasonal diet and the varieties of food available in India as per festivals

Dr Kirti summarized on the importance of yoga and Ayurvedic dinacharya-ritucharya and physical, emotional, spiritual health to deal with lifestyle

Dr Ramaji summarized the session with the importance of women's health and lifestyle especially the emotional aspect



Report of Session II

Women in Sustainable Agriculture Production & Consumption

2.30PM-4.00PM		
SESSION II - Women in Sustainable Agriculture, Production and Consumption		
2.30PM-2.40PM	Introducer	Smt. Shilpi Verma, Awadh SHAKTI
	Chairperson	Dr. Shubhra Chakraborty, Director, NIPGR, New Delhi
2.40PM-3.10PM	Keynote	Smt. Rahibai ji (Padma Shree Awardee), The Seed Mother
	Co-Chairperson	Smt. Simantini Vaze, Sharda SHAKTI, Treasurer
		Dr. Suphala Pujari, SHAKTI Member
Moderator	Dr. Rita Sharma, Associate Prof., BITS Pilani	
3.10PM-4.00PM	Panellist	Dr. Purnima Rupal, Head SCDD, CSIR
		Mrs. Monika S. Mohite, Founder Paarakhi Agro Tech Private Ltd.
		Dr. Vibha Gupta, Chairperson, Magan Sangrahalaya Samiti
		Prof. Sampa Das, Head of Plant Biology, Bose Institute, Kolkata
		Dr. Sridevi Annapurna Singh, Director, CFTRI, Mysore
		Dr. Anita Karun, Director, Crop Improvement Division, Centre for Plantation Crop Research, Kerala

Chairperson: Dr Shubhra Chakraborty, Director NIPGR, New Delhi

Keynote speaker: Padma Shree Rahi Bai Popere , The seed Mother

Panelist: Professor Sampa Das, Dr Sridevi Annapurna Singh, Dr Purnima Rupal, Mrs. Monica S. Mohite, Dr Vibha Gupta

Summary: -

Rahi Bai ji talks about her journey of life from being a farmer to the seed mother. She also **emphasized the need to conserve soil**. The term “sustainable agriculture” is self-explanatory in the sense that it deals with the society’s need for food without compromising with any future demands. The panelists in this session stress on the need to promote soil health, minimize water use, and lower pollution levels along with increase yield. They also made us aware about the 2nd sustainable goal of zero hunger. We also learnt about the various conventional technologies and alternatives in horticulture. We came to know about ongoing challenges of food and nutrition security. We heard success stories of eminent scientists in the field as well. The highlight of the session was how women can cope up with the odds and also be considered as "FARMERS". The session provides insights about the challenges female farmers in remote areas face and as scientists how can we reach out to them and provide them the necessary technical knowledge that they are devoid of.



Report of Session III

Women in Pure & Applied Sciences and Women in Technical Institutes

9.30AM-11.00AM SESSION III - Women in Pure Applied Sciences and Women in Technical Institutes		
9:30AM -9.40AM	Introducer	Dr. Poonam Mehta, Assistant Prof. SPS, JNU
	Chairperson	Dr. SangitaKasture, Scientist F, DBT, New Delhi
9.40AM-10.10AM	Keynote	Ms. Suma Varughese, DG, DRDO, New Delhi
	Co-Chairperson	Dr. Manisha Khaladkar, Associate Professor, Govt. College of Engineering, Pune
		Dr. Sangeeta Kale, Director, DIAT, Pune
Moderator	Prof. Shweta Saran, Dean, SLS, JNU	
10.10AM -11.00AM	Panellist	Dr. Viswajanani Sattigeri, Head, CSIR-Traditional Knowledge Digital Library Unit
		Dr. VinitaSahay, Director, IIM Bodh Gaya
		Prof. Vibha Tandon, SCMM, JNU, New Delhi
		Dr. Kamna Barkataki, Director, Central Poultry Development Organization

Chairperson: Dr. Sangita Kasture

Keynote speaker: Ms. Suma Varughese

Panelist. Viswajanani Sattigeri, Dr. Vinita Sahay, Prof. Vibha Tandon, Dr. Kamna Barkataki.

Summary: -

The session started with keynote speech by Dr. Suma Varghese, Director SSPL, DRDO. She started with few examples of gender-based discrimination faced by women in past century, followed by stereotypes so common in western world like pink section of toys for girls full of confining girls to cooking, shopping and enjoying life when all professions, all adventures and muscle power assigned to boys. There is an urgent need to break the stereotype and demand for true position in society by being assertive, confident, utilizing every opportunity like WEST, I-STEM to start second career for women. "Express your views, do not hesitate to take your right position in society. "

The discussion saw that many women take up science till graduation but slowly the numbers decrease. A very few come up to higher studies like PhD or other equivalent courses. The number further decreases in jobs and in getting "positions" at the workplace. The concern was why is this happening? Why the women could not take their dream jobs and contribute significantly to the society and country. There could be many reasons for it which were discussed and few suggestions too were made. On a positive note, we did find and discuss individual women entrepreneurs who have successfully ventured into different areas. Is it that women are not getting opportunities to work in pure/applied science in universities / institutes?

Following points were discussed with few suggestions: 1. We definitely agreed to the statistics which show a pyramid in the representation of women in science. 2. Women do not request reservation of any kind but request for inclusiveness. Gender equality should be maintained. 3. Women require acceptability by the society and be given a chance to showcase her strengths in her areas of interest. She must get her dues. 4. Women should be heard and therefore positions in policy making are a must. 5. Facilities like housing on campus/institutes must be given preference so that they can take care of their family and can minimize the travel time. 6. Women wanted few flexible timings in their work areas. Facilities like creche, toilets etc. at work place should be created. 7. A general gap period or a lean period comes for most of the women when they marry and have children. Policy should be such that they be shown a bit of leniency with respect to age while applying for jobs. This is not true in most of the places. 8. There are many women entrepreneurs who have come up the ladder and are doing equally good if not better than their counterparts. In conclusion, the feeling of "sisterhood" has to be promoted and every woman must extend their hand and help others to come forward. Women need to fight their own demons existing in family and society to reach their goals. Request for more inclusiveness in areas of science at every stage was made. A change in the mindset is a must.





Report of Session IV
Women in Environment Protection

SESSION IV - Women in Environment Protection		
11.30AM-1.00PM		
11.30AM-11.40AM	Introducer	Dr. Ditimoni Goswami, Assam SHAKTI
	Chairperson	Dr. Chandrakala Padia, Former Chairperson, IIAS, Shimla
11.40AM-12.10AM	Keynote	Smt. Nita Ganguly, Author, Climate leader
	Co-Chairperson	Dr. Pritha Bhattacharjee, Associate Professor, Environment Science, University of Calcutta
		Prof. Ankita Bohare, Professor of Zoology, Govt. of Science College, MP
	Moderator	Dr. Usha Mina, Associate Prof. SES, JNU
12.10AM-1.00PM	Panellist	Dr. P. Bineesha, Executive Director, International Institute of Waste Management (IIWM)
		Dr. Akshaya Manerikar, fellow YOJAK, Center for research and strategic planning for sustainable development.
		Prof. Kavita Shah, Dean, Institute of Environment & Sustainable Development (IESD), Banaras Hindu University
		Dr. Nisha Mendiratta, Head, Climate Change Programme, DST
		Dr. Tripta Thakur, Director General, National Power Training Institute

Chairperson: Dr. Chandrakala Padia

Keynote speaker: Smt. Nita Ganguly

Panelist: - Dr. P. Bineesha, Dr. Akshaya Manerikar, Prof. Kavita Shah, Dr. Nisha Mendiratta, Dr. Tripta Thakur.

Summary: -

Session started with the keynote talk of Smt Nita Ganguly. She put her thoughts very well and with full zeal for participation of women in environment sustainability. Her energy while imparting thoughts were quite emphasizing on women should not be behind in this task and Env protection can only be possible by women. Smt. Nita Ganguly, Author, climate leader (keynote speaker) speaks about key leadership capabilities of women. She gives example of certain women from certain region of India who are the keeper of biodiversity like women of Khasi from Meghalaya, Gairsain women like chamomile of Uttarakhand. She also explains causes of unsustainability and how important it is to recycle waste.

Chairperson Dr. Chandrakala Padia (Former chairperson, IIAS, Shimla) also speak about important of interdependent between man and woman, between human being and earth, interdependent among society as a whole to protect environment.

In next part of panel discussion first panelist was Ms. Bineesha, Executive Director, International Institute of Waste Management (IIWM). She envisages women as nurture of Nature. She emphasized Waste management as the best entrepreneurship for women and also appealed women to take up technology to enhance circularity which is an imp aspect of waste management, Dr. Akshaya Manerikar, fellow YOJAK, Center for research and strategic planning for Sustainable development. She presented a concept of “पंचमहाभूत-एकात्मत्व” and women as its executors. Ecosystem is not to serve us there should be mutual interdependence — was the crux of her talk. Other Panelists discuss how women can

take up waste management through entrepreneurship, the discipline and education woman should have to protect environment. Government of India has also released policy like STIP 2020, policy which is dedicated to science, technology and most importantly innovation. The session ended with vote of thanks. This panel discussion proved to be very fruitful and very inspiring.



Report of Session V

Women in Gender Equilibrium and Socio-Cultural Indigenous Practice

2.00PM-3.30PM SESSION V - Women in Gender Equilibrium and Socio Cultural Indigenous Practice		
2.00PM-2.10PM	Introducer	Dr. Sita Mahalakshmi, Andhra Pradesh, SHAKTI
	Chairperson	Dr. Geetha Vani Rayasam, Scientist H, CSIR-HRDG, New Delhi
2.10PM-2.40PM	Keynote	Dr. Anjali Deshpande, Secretary, DrishtiStree AdhyayanPrabodhan Kendra
	Co-Chairperson	Dr. Anuja Datta, SERB Ramanujan Fellow, School of Applied & Interdisciplinary Sciences, Indian Association for the Cultivation of Science, India
	Moderator	Prof. Punam Kumari, School of Language Literature and Culture Studies, JNU
2.40PM-3.30PM	Panellist	Dr. Shashi Bala Singh, Director, NIPER, Hyderabad
		Prof. AnandRangnathan, SCMM, Jawaharlal Nehru University, New Delhi
		Dr. Sharmila Mande, Distinguished Chief Scientist and Head, Biosciences, Tata Consultancy Services

Chairperson: Dr. Geetha VaniRayasam

Keynote speaker: Dr. Anjali Deshpande

Panelist. Shashi Bala Singh, Prof. Anand Ranganathan, Dr. Sharmila Mande

Summary: -

By introducing the session Dr. Anjali Deshpande, talks about her book Lilavati's daughters where she pointed that it is conveniently said, cooking, serving, doing home chores are the work of women what else she can do? To change this attitude the family as well as society needs to make the suitable environment. After pointing out the roles a women play in her life, she then narrates an incident of Sudha Murthy, who, proved that women are equally capable of working in industry. Giving few examples she explains the breach in women's career and how education system needs to improve the infrastructure to reduce this breach. She concludes her talk saying women gets reservation but needs to put her thoughts in social development if she is a thinker.

The first panelist Prof. Anand Ranganathan showed statistical data that women faculties are much lesser in number in all higher education institutes in spite of having equal proportion till student level. So, we need to find where is the leaky pipeline before raising discrimination question. The mindset should be set from the home environment. The second esteemed panelist Dr. Shashi Bala Singh agreed partially with Prof. Anand Ranganathan but raised question about indigenous races, like in northeast where women inherit ancestral properties and thereby are more independent. So, Financial independence of a women is important in health and education. Then she discussed "National Education Policy" key point of teaching in mother tongue. So, women representation can increase in higher education. Use of technology to reach farthest part of India for Child education is also proposed. Third panelist Dr. Anjali Deshpande stressed on family support in encouraging girl child passion and her interest. Then Dr. Sharmila Mande speaks about flexibility of age for women in education and professional world as well. Lastly, Chairperson Dr. Geetha Vanirayasan talked again about barrier breaking for women and she also asked women not to discourage, keep themselves engaged and have the courage to take up your passion again.



RECOMMENDATIONS

1. Sensitivity and bondage should be recreated
2. Lifestyle disorders can be taken care of by following traditional ethics
3. Women should attend to their own health along with that of the family
4. The keynote Padma Shree Rahi Bai emphasize the need of organic farming and refusal of use of pesticides and excessive chemical fertilizer which may lead to diseases and illnesses
5. The farmers in remote areas and their work must come in forefront by inviting them in conferences like above
6. The farming sector must have intervention of agroindustry technologies to supplement the farmers income like value addition of raw materials and small-scale industries
7. The indigenous original variety of seeds must be protected and promoted
8. The farms must have protection from the wild animals by the use of solar fencing and deforestation which may restrict the wild animal to come out of forest
9. The innovations in the farming tools are used manually in maximum of the arming sectors must be promoted to increase the number of them
10. Women request for inclusiveness
11. Women must get her dues and given a chance to showcase her strength in her area of interest
12. Women should be in position of policy making decisions
13. Women need flexible timing in their work areas
14. Facilities like cerche, toilets etc. should be created
15. Women as an epitome of conservation and sustainability can play important role in protection of environment
16. The organic kitchen based can be converted into fertilizers and pesticides.
17. The ways of cooking and using the reserved energy can be restricted by their smart use.
18. Many technologies and products are available with scientists which should be brought from lab to land.

ORAL AND POSTER PRESENTATION

- Approx. 1000 participants registered
- Around 300 posters were presented
- 64 oral presentations were presented

VALEDICTORY SESSION

Report of the Conference was given by Convener of STREE 2020, Dr Ranjana Arya, Assistant Professor, SBT, JNU. Anticipated Outcome of the Conference by given by Dr Sudha Tiwari, President SHAKTI, Chief Guest Shri P.K Pathak, Special Secretary, Ministry of AYUSH stressed upon organizing conference every year so as to provide platform for women in every field and at last Vote of Thanks was given by Smt. Bindu Suraj National Coordinator, SHAKTI.





AWARDS



- Shakti has instrumented an award of excellence in social development through science and technology for the first time. The award was conferred upon Dr. Chanda Nimkar from Patan, Maharashtra for her unnoticed contribution on animal husbandry for livelihood of underprivileged community in remote areas of Maharashtra.
- The Best paper presentation award for each theme was given to first and second position.
- Best poster award was given to best three positions to different participants which were fairly judged by team of judges.

SPEAKERS LIST

12:00 - 1:30 (Session-I) Lifestyle Management (Audi I)		
	NAME OF DELEGATES	DESIGNATION
Chairperson	Dr. Tanuja Nesari	Director, All India Institute of Ayurveda
Co-Chairperson	Dr. Manasi Deshpande	SHAKTI, Maharashtra
	Dr. Kirti Bhati	Associate Prof., Bharati Vidyapeeth University, Pune
Keynote	Su Shri. Nivedita Bhide	All India Vice- President, Vivekanand kendra, Kanyakumari
Panelist		
1	Dr. Rama Jayasundar	Professor & HEAD, NMR, AIIMS

2	Dr. Vinti Davar	Clinical Nutritionist, Delhi
3	Dr. Aparna Sharma	Additional Professor, Department of Obstetrics and Gynaecology AIIMS, New Delhi
4	Shailja Vaidya Gupta	Advisor, DBT
5	Smt. Rima Anand	Senior Volunteer, General Manager, Corporate Events, Dhyan Foundation

2:30-4:00 (Session-II)	Women in Sustainable Agriculture, Production and Consumption	
	NAME OF DELEGATES	DESIGNATION
Chairperson	Dr. Subhra Chakraborty	Director, NIPGR
Co-Chairperson	Smt. Simantini Vaze	Sharda SHAKTI, Treasurer
	Dr. Suphala Pujari	SHAKTI Member & Department of zoology, Goa University
Keynote	Hon. Rahibai ji	Seed Mother
Panelist		
2	Prof. Sampa Das	Head of plant biology, Bose Institute
3	Dr. Sridevi Annapurna Singh	Director, CFTRI & NAL
4	Dr. Purnima Rupal	Head SCDD, CSIR
5	Dr Anitha Karun	Acting Director, crop Improvement Division, Centre for plantation crop Research, Kerala
6	Mrs. Monika S. Mohite	Founder, Paarakhi Agro Tech Private Ltd.
7	Dr. Vibha Gupta	Chairperson, Magan Sangrahalaya Samiti
Farmers		
1	Sita Banchor	Farmer
2	Damini Shau	Farmer
3	Pratigya Sahu	Farmer
4	Suchitra Devi	Farmer
5	Varsha Sharma	Farmer
6	Priyanka	Farmer

7	Usha Nutakki	Farmer
8	T. Vannuramma	Farmer

26th November

9:30-11:00 am (Session-III) Women in Pure Applied Sciences and Technical Institutes

Chairperson	Dr. Seema Vinayak	Director, SSPL, DRDO
Co-Chairperson	Dr. Manisha Khaladkar	Associate Prof. Chemistry, Govt. College of Eng., Pune
	Dr. Sangeeta Kale	Director, DIAT
Keynote	Ms. Suma Varughese	DG, DRDO
Panelist		
1	Dr. Vinita Sahay	Director, IIM Bodh Gaya
2	Prof. Vibha Tandon	Professor, SCMM, JNU
3	Dr. Kamna Barkataki	Director, CPDO(NR)
4	Dr. Sangita Kasture	Scientist F, DBT
5	Dr. Viswajanani	Head-TKDL, CSIR

11:30-1:00
(Session -IV)

Women in Environment Protection

Chairperson	Prof. Chandrakala Padia	Former Chairperson, IIAS, Shimla
Co-Chairperson	Dr. Pritha Bhattacharjee	Assistant Professor, Environment Science, Calcutta University
	Prof. Ankita Bohare	Prof. of Zoology, Govt. of Science Clg, MP
Keynote	Smt. Nita Ganguly	Climate leader & Author
Panelist		
1	Ms. P Bineesha	Executive Director, IIWM
2	Dr. Kavita Shah	Dean & Head, Professor. IESD, BHU
3	Dr Nisha Mendiratta	Head, Climate Change Programme, DST
4	Dr. Tripta Thakur	DG- NPTI
5	Dr. Akshaya Manerikar	Fellow, YOJAK Centre for Research and Strategic Planning for sustainable development

2:00-3:30
(Session-V)

Gender Equilibrium and Socio-Cultural Indigenous Practices

Chairperson	Smt. Rekha Sharma	CHAIRPERSON, NCW
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Co-Chairperson	Dr. Anuja Datta	SERB Ramanujan Fellow, School of Applied & interdisciplinary sciences
	Dr. Navneet Manav	SHAKTI, Delhi, Assistant Professor in Dyal Singh College
Keynote	Dr. Anjali Deshpande	Secretary, Drishti Stree Adhyayan Prabodhan Kendra
Panelist		
1	Dr. Shashi Bala Singh	Director, NIPER Hyderabad
2	Dr. Anand Ranganathan	Prof. SCMM
3	Dr. Sharmila Mande	Distinguished Chief Scientist and Head, Bio-sciences R&D, TCS Research, Tata Consultancy Services
4	Dr. GeethaVani Rayasam	Scientist H, CSIR-HRDG, New-Delhi

Open Forum

1	Laxmi Kantam Mannepalli	Institute of Chemical Technology, Mumbai
2	Smt. Nandini Harinath	Deputy Director, ISTRAC, Bangalore
3	Prof. Deepika Bhaskar	Registrar, IIT , Delhi
4	Dr. Alka Sharma	Scientist H, DBT
5	Dr. Jyotsana Dalal	Coordinator, TDB DST, New Delhi
6	Dr. Renu Pandey	Principal Scientist, IARI, New Delhi
7	Dr. S. Uma	Director, ICAR, National Research Centre for Banana
8	Prof. Shaonray Chaudhari	HOD Microbiology, Tripura University
9	Smt. Simmi Nanda	Entrepreneur, E-Commerce and Branding Expert
10	Smt. Phoolbasan Bai Yadav	Padma Shree Awardee, Women Social Worker
11	Dr. Priyanka Priyadarsiny	R&D Chief, Panacea Biotech Ltd.,
12	Smt. Supriya Badave	Executive Director, Badave Engineering Ltd.
13	Smt. Mallavarapu Bala Latha	Director, CSB IAS Academy
14	Smt. Gadi Surekha	Senior Manager, Podupu Lakshmi, Women's Bank