



CENTRE FOR WOMEN'S STUDIES

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//Report //

Women Scientist Round Table Conference

on

Women for Scientific Social responsibility (WSSR)

"On the Occasion of International Women's Day, 2024"

International Women's Day 2024 was celebrated with great zeal and enthusiasm in Centre for Women's Studies, Pt. Ravishankar Shukla University, Raipur (C.G.) in collaboration with Shakti Mahila Vigyan Bharti Samiti, Chhattisgarh on 7th March, 2024. On this occasion, "Women Scientist Round Table Conference on Women for Scientific Social Responsibility (WSSR)" was organized in the Seminar Hall of Kala Bhawan. The day was full of events. The celebration started with the inauguration of the Innovation mela. Guest of Honour, Dr. Sudha Tiwari, President, National Shakti and Dr. J. Amudha, Principal Scientist, Biotechnology-Agriculture Science inaugurated the innovation mela. Prof. Pravamvada Srivastava, Associate Director, CWS, Prof. Aditi Poddar, Prof. Preeti K. Suresh, Prof. Kavita Thakur, Prof. Nameeta Brahme, Prof. Arti Parghaniya, Dr. Sunanda Dhenge, Dr. Vinaya along with Shakti members graced the function.

More than 20 female innovators from different districts of Chhattisgarh participated in the innovation fair. Concept of the innovation mela was based on the thought that One of the basic nature of human being is to innovate for better future and livelihood and balance with the nature to survive in the better atmosphere. Female innovators exhibited their products that ranged from Herbal products such as Mahua tea, Nicotine free Purple tea, Mahua laddu, Thikhoor drinks etc., biscuits, cookies and home made Premix Millet products, Tribal Jewelry & Jute Products, Mushrooms, Biodegradable Bamboo Fiber Sanitary Pads, Plants grown in coco pit, Glass Garden,

Science Model Stalls under Solar Air Purifier Systems, Oil purifiers, LPG Gas Detector, Weather Monitoring, IOS Based Plant Monitoring, etc. which received great appreciation of people.

This was followed by the inauguration of the Round Table Conference on Women for Scientific Social Responsibility. Opening remarks was given by Prof. Priyamvada Srivastava, Associate Director, Centre for Women Studies and Prof . SoS in Psychology ,Pt. Ravishankar Shukla University , Raipur. She talked about the activities of Centre for Woman Studies and about the avenues for empowerment of Women in scientific and social pursuits. She shared that the Centre for Women Studies started its journey in Pt. Ravishankar Shukla University in 2001 and got recognized by UGC in 2011-12.The center works to educate train, sensitize and empower students and other stakeholders on the issues related to gender. The certificate courses run by CWS are designed to act as catalyst for promoting and strengthening women through teaching ,research, extension work and training.

Dr Anjali Oudhia, Convenor, WSSR and Head of Physics, Govt. Nagarjuna PG college, Raipur addressed the house and shared the concept of the conference and talked about the role of women in the academia, business, research ,entrepreneurship and innovation and their contributions in social and scientific responsibility.

Guest of honor, Dr. Sudha Tiwari ,President, National Shakti, emphasized that women are born innovators and creators and their contributions make the world a better place to live. She said that women in India should be empowered and the attitude and aptitude od Indian women can inspire the women of the world for being a contributor towards their homes as well as towards the society in every field.

Keynote Speaker, Dr. Amudha, Principal Scientist, Central Institute of Cotton Research, Nagpur shared the contributions of Women in various scientific fields and social developments for the welfare of the society. She further said that women are the main key to shifting their knowledge from one generation to another which plays an important role in building society. She also said that science should diagnose problems by linking labs and experiments.

Women achievers were facilitated for their contributions in scientific and social welfare.Women Scientist Achiever Award was given to Preeti Upadhyay, she contributed for differently abled persons since past 19 years.

Women Inspiration Honor Mrs. Namrata Yadu was awarded Stree Prerna Samman for the contribution in empowering women by training in Mushroom Cultivation. She has contributed in economic growth of farming community. Ms. Deepti Singh received the Swashakti Award for innovation and contribution in Forensic Science. The concept note of WSSR was released in the inaugural session.

Inaugural session concluded with the vote of thanks by Dr Chanchal Deep Kaur, Organizing Secretary, WSSR.

After the inaugural session the technical sessions of Round table conference started with a concept to share scientific ideas to work for the betterment of society. Mentors shared their ideas for planning new research works for bringing a positive social change in the society around us. First technical session was chaired by Dr Swarnlata Saraf, Prof., University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur. *She said that research should focus on empowering women to generate a strong concept of service to the nation and society as a whole.* Dr. J. Amudha, Principal Scientist, Central Institute of Cotton Research, Nagpur shared the contributions of Women in various scientific fields and social developments for the welfare of the society. Technical session two and three had four panelists each.

The mentors shared their ideas and the avenues as per their expertise on scientific work experience which is compiled as the conference proceedings in the following section-

-  Hands on training on sophisticated instruments for technology awareness
-  Hands on training on IOT/ Arduino IOT Projects/ Circuit based Modules for technology transfer
-  Mental Wellness awareness
-  Physical fitness awareness and training
-  Herbal products innovation
-  Eco Tourism for entrepreneurs
-  Cyber Crime for technology awareness
-  Awareness for Drug abuse
-  Entrepreneurship

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Prof. Nameeta Brahme, SoS in Physics and Astrophysics, Pt. Ravishankar Shukla University, Raipur shared her expertise on working with sophisticated instruments for technology awareness. Her field of research is materials science and the SoS Physics and Astrophysics is one of the best department in Chhattisgarh where all the sophisticated instruments are available. She elaborated how TGA analysis can be useful for the study of thermal analysis of housing materials. PL analyze the potential of more economic and efficient materials for fabrication of LED. TL analysis will be helpful in determining dosimetry applications, along with it Dating ancient bones and artifacts for anthropological and archaeological studies related to ancient sites as Chhattisgarh is rich in Ancient Heritage.

Prof. Kavita Thakur, Prof. & Head, S.o.S. in Electronics & Photonics, Pt. Ravishankar Shukla University, Raipur. She has research expertise in Speech, Image & Biomedical signal processing including Design of Digital Filters for personal identification, Micro controller Design based control, Digital Image Processing applications in biometric imagesecurity, forensic science, pattern recognition, early detection of breast cancer, content retrieval of underwater imaging, nano imaging etc. She further said that Women health wellness might include contentment with their mental, physical, emotional, spiritual, social, economic, and professional aspects of life. Emerging Medical *research in Internet of Things(IOT)* is helping people all over the world to lead healthier lives. This research includes the field like speech signal processing, image signal processing, Embedded systems, biomedical signal processing, various healthcare monitoring etc. She said that the goal of her future research is to help our society's rural and distant residents who lack access to health monitoring by developing biosensor-based and Android applications that enable health monitoring with a single click.

Prof. Preeti K. Suresh, Professor of Pharmaceutics, University Institute of Pharmacy and Director of Malviya Mission Teacher Training Centre, Pt. Ravishankar Shukla University explained the new avenues of scientific working on safe use of medicines including herbal drug products. Her work centers around nano-carriers for various drug delivery applications. She talked about the safe and effective use of all medications, including herbal products. She elaborately explained that Herbal products, even those with extensive traditional use, often lack

rigorous scientific validation seen in conventional pharmaceutical products. She said that with a focus on women's health, we should understand how hormonal fluctuations and unique physiology in women may affect herbal drug interaction and efficacy. This knowledge is crucial to empower women with informed choices and create evidence-based herbal recommendations tailored to their specific needs.

Prof. Priyamvada Srivastava, Associate Director, Centre for Women Studies and Prof. Of Psychology, Pt. Ravishankar Shukla University. Talked about stress management , personal traits and mental wellbeing Her research works centres around women and health, gender issues, guidance and counselling, psychopathology , educational psychology and personality. She said that research works for mental wellbeing focuses on determining the personality factors, coping strategies and intervention techniques and many other skills which is essential for Healthy personality and normal being. She further said that mental health is state of mental wellbeing that enables people to cope with the stresses of life realize the ability learn well and work well and contribute to their communities. It is an integral part of Health. It is basic human right. The Psychologist through counselling help people to maintain Healthy state of mind and good adjustment in their life.

Prof Reeta Venugopal, Professor of Physical Education & Director at the Centre for Women's Studies and Convenor WSSR talked about need to empowering women through exercise. She said that physical activity is important at any age, not only for weight management, but also for prevention of some diseases, improved mood, and improved overall health. She explained about the health benefits of women participating in physical activity can prevent a myriad of noncommunicable diseases which account for over 60 per cent of global deaths, 66 per cent of which occur in developing countries and other chronic and degenerative diseases associated with aging, such as type-2 diabetes, hypertension, arthritis, osteoporosis and cardiovascular problems which account for one third of deaths among women around the world and half of all deaths among women over 50 in developing countries . She said that much of the physical decline that was presumed an inevitable consequence of aging is now thought to be the result of inactivity and while no one can guarantee that exercise will prolong life, it can enhance the quality of life.

Dr. Preetika Chatterjee, Forensic Department spoke on social responsibility and awareness for Drugs. Monali Guha, Cyber Cell, State Police Academy ,Raipur talked about cyber security. She

told that under the Cyber Security Awareness Mission, she, along cyber experts Sonali and Ayush Guha, has given free education to 16 lakh people. She herself has taken more than twelve and a half thousand training sessions and has worked on more than 35 thousand cyber crime cases and has given guidance to people. Dr Moulshree Dubey spoke on Galvanizing Sustainable Tourism Ecosystem in CG During the Round Table Panel Program, the panelists gave an pathway in working in areas of herbal science, LED bulbs, soap, sanitizer making, IoT based mobile app for the use of society.

There was a interaction of all the female innovators with the subject experts. In the valedictory ceremony Presidential address was delivered by Chairperson, Prof. Sachidanand Shukla, Honorable Vice Chancellor, Pt. Ravishankar Shukla University, Raipur. He congratulated the whole team for organizing the conference, on Women for Scientific Social Responsibility to commemorate International Womans Day , 2024. He said that Centre For Woman Studies works to bring about attitudinal changes about gender sensitivity and helps students to internalize equality. He said that the round table conference and innovative mela will increase awareness of the potential of research for innovation and entrepreneurship among young women. It will help to develop entrepreneurial skills and knowledge among participants and also help to create network and support system for young women for innovation and entrepreneurship. He added that the carefully crafted format of the conference encompasses all of the main goals of scientific social responsibility, such as promoting inclusive and sustainable development by harnessing the benefits of scientific research to address both current and emerging societal needs, developing a knowledge ecosystem for the exchange of ideas and resources, interacting with communities to determine their needs and requirements and suggesting appropriate technological interventions, and integrating scientific temper into society.

It was apleasure to announce about the Book launch of "Bridging Knowledge Cultures : Rebalancing Power in the co-constructions of knowledge" published by Brill Academic Publishers. One of the works done by Sangawari ,Knowledge for Change(K4C) hub co-authored by Prof Reeta Venugopal, Prof. Priyamvada Srivastava, Dr.,Anuradha Chakraborty and Dr. Aniksha Varoda of CWS was included as a chapter in book. The book was released at the world level , Asia and in India in the first week of Feb ,2024 by UNESCO Chair and the book

was released at Ravishankar Shukla University, Raipur by Honorable Vice Chancellor, Prof. Sachidanand Shukla, Pt. Ravishankar Shukla University at the conference, on Women for Scientific Social Responsibility to mark the achievement of Women Scientist of Centre For Women's Studies, Pt. RSU and the published work is based on knowledge of Maternal health in Chhattisgarh.

Felicitation of encourage young women scientist working in various departments of Pt. Ravishankar Shukla University was done by Prof. Sachidanand Shukla, Honorable Vice Chancellor, Pt. Ravishankar Shukla University, Raipur. Young Women Achievers award was given to the budding women scientists of Pt. Ravishankar Shukla University for their achievements in their disciplines. Ms. Neha Dewangan of School of Studies in Electronics and Photonics, Sraddha Pradhan of SoS in life Science, Arushi Saloki of University Institute of Pharmacy, Manju Sahu of SoS in Physics and Astrophysics, Shubhra Sinha of SoS in Chemistry, Shristi Verma of SoS in Biotechnology, Nikita Raghuvanshi of Center for Basic Science and Upasana Vishwakarma of SoS in Physical Education were felicitated. The whole days programme ended with vote of Thanks by Dr. Nameeta Brahme.





