

# XV Triennial & III International Conference of IWSA

On

## Women in Science & Technology.....

### Soaring on the Wings of Change

11<sup>th</sup> -13<sup>th</sup> JUNE 2023

#### Schedule of Events

#### Day 1: June 11, 2023

	<b>Names of Chairpersons / Speakers</b>	<b>Designations of Chairpersons/ Speakers</b>	<b>Titles of Talks</b>
<b><u>Inaugural Session</u></b>			
<b>9:30 am to 11:15 am</b>		Compere: Ms.Priya Jacob, Member, IWSA EC	
<b>Welcome Address</b>	<b>Dr. Rita Mukhopadhyaya</b>	President, IWSA	
<b>About the Golden Jubilee Triennial International Conference</b>	<b>Dr. Lalitha Dhareshwar</b>	Convener, Past President, IWSA	
<b>Inaugural Address By</b>	<b>*Lt. Gen. Dr. Madhuri Kanitkar</b> PVSM, AVSM, VSM (Retd)	Hon'ble VC, Maharashtra University of Health Sciences	<b>Make your Research Count</b>
<b>Keynote Address</b>	<b>*Dr. N. Kalaiselvi,</b>	Director General, CSIR, & Secretary DSIR	
<b>Glimpses of IWSA@50</b>	<b>Dr. Bakhtaver Mahajan</b>	Secretary, Board of Trustees, IWSA	
<u>Release of the book:</u> <b>"The Fifty Year Saga of the Indian Women Scientists' Association"</b> by <b>Dr. Pheroza Godrej</b> , Chairperson Godrej Archives council and Advisor Godrej Mangroves			
<u>Release of the Film</u> on <b>IWSA:</b> <b>Dr. Sudha Padhye</b> , Founder Member of IWSA			
<u>Release of the book:</u> <b>"Millets for children: Rhymes, Recipes &amp; Resources for All Ages"</b> by <b>Dr. Fukahori Yasukata</b> , Consul-General of Japan in Mumbai			
<b>HIGH TEA</b>			
<b><u>Session I: Basic Sciences</u></b>			
<b>11:30 am to 1:00 pm</b>		Compere: Dr. Sheela Donde, IWSA member	
<b><u>Chairperson</u></b>	<b>Prof. Meera Venkatesh</b>	Former Director, Division of Physical & Chemical Sciences, IAEA, Vienna, Austria	
<b>Speaker 1</b>	<b>Prof. Archana Sharma</b>	Principal Staff Scientist, CERN, Switzerland	<b>Blue Sky Research, Corona Virus and Why Should I Care?</b>

Speaker 2	Dr. Chitra Seetharam Misra	Scientific Officer, Applied Genomics Section, BARC, Mumbai, India	<b>CRISPR technology – genome editing and beyond</b>
Speaker 3	Prof. Nandita Madhavan	Professor, Dept of Chemistry, IIT Bombay, Mumbai, India	<b>Chemistry that Makes Molecules “Click”</b>
<b>Summary by the Chair</b>			
1:00 pm to 2:00 pm   <b>LUNCH</b>			
<b><u>POSTER</u></b> <b><u>Session I:</u></b> <b>2:00 pm to 4:00 pm</b>	<b>48 posters (ON SITE)</b> - Coordinated by Dr. Sheela Donde, Dr. Suparna Kamath, Ms Sukhvinder Sandhu & poster committee - IWSA members <b><u>Topics Covered:</u> Biology, Health, Biotechnology, Environmental Science, Technology, Physics, Chemistry</b>		
<b><u>Session 2: Mathematical Sciences</u></b> <b>4:15 pm to 5:30 pm</b> <span style="float: right;">Compere: Ms.Manashi Chakraborty, IWSA member</span>			
<b><u>Chairperson</u></b>	Prof. Mythily Ramaswamy	NASI Senior Scientist ICTS-TIFR, Bengaluru, & Adjunct Professor in Chennai Mathematical Institute, India	
Speaker 4	*Prof. Aditi Sen De	Professor H, Physics, Harish Chandra Research Institute, Prayagraj (Allahabad), India	<b>Technologies in the Quantum World</b>
Speaker 5	*Prof. Neena Gupta	Professor, Theoretical Statistics and Mathematics Unit, Indian Statistical Institute, Kolkata, India	<b>Polynomials: Genesis and some early results</b>
<b>Summary by the Chair</b>			
<b><u>Session 3: Health Sciences</u></b> <b>5:30 pm to 7:15 pm</b> <span style="float: right;">Compere: Dr. Yasmin Khan, IWSA member</span>			
<b><u>Chairperson</u></b>	Dr. Priya Abraham	Senior Professor Dept. of Clinical Virology, Christian Medical College, Vellore, India	
Speaker 6	*Dr. Manjula Reddy	Chief Scientist, CSIR-Centre for Cellular & Molecular Biology, Hyderabad, India	<b>Break to make: Dynamics of the bacterial cell wall</b>
Speaker 7	*Dr. Nivedita Gupta	Head, Division of Epidemiology & Communicable Diseases, ICMR, New Delhi, India	<b>Learnings from Outbreaks of Viral Infections in the 21<sup>st</sup> Century</b>

<b>Speaker 8</b>	<b>*Dr. Michelle Gomes</b>	Scientist, Cancer Early Detection Advanced Research Center (CEDAR); Knight Cancer Institute, Oregon Health and Sciences University, USA	<b>mRNA Vaccines and Applications in Healthcare</b>
<b>Summary by the Chair</b>			
<b>7:30 pm to 8:30 pm</b>	<b>Cultural Program:</b> Coordinator :Dr. Nootan Bhakal, Treasurer, IWSA EC Dance drama: “ <b>Draupadi</b> ” Concept and choreography by <b>Smt. Gayatri Subramanian</b> from the Guru G.V Ramani Natya Kala Foundation. Dances performed by her team. <b>Dinner</b>		
<b><u>Day 2: June 12, 2023</u></b>			
<b><u>Session 4: Technological Contributions of Women</u></b>			
9:30 am to 11:10 am		Compere: Ms. Madhu Pahwa, Secretary, IWSA EC	
<b><u>Chairperson</u></b>	<b>Dr. Sulabha Kulkarni</b>	INSA Senior Scientist, CMET, Pune, India	
<b>Speaker 9</b>	<b>*Ms. Keerti Rane</b>	Director Level Principal Lead Program Manager, Microsoft, Seattle, USA	<b>Challenges faced by Women in the Software Industry</b>
<b>Speaker 10</b>	<b>Dr. K. Umasankari</b>	Head, Reactor Physics Design Division, BARC, Mumbai, India	<b>Women in Nuclear Energy</b>
<b>Speaker 11</b>	<b>*Dr. Radha Bahukutumbi</b>	Distinguished Scientist, Laboratory for Laser Energetics, University of Rochester, USA	<b>Prospects for Fusion Energy through Inertial Confinement</b>
<b>Summary by the Chair</b>			
<b><u>Session 5: Environmental Science &amp; Climate Change</u></b>			
<b>11:15 am to 1:00 pm</b>		Compere: Dr. Paramjit Anthappan, Jt. Secretary, IWSA EC	
<b><u>Chairperson</u></b>	<b>Dr. Anuradda Ganesh</b>	Chief Technical Advisor, Cummins India Pvt Limited	
<b>Speaker 12</b>	<b>*Dr. Gawsia Wahidunnessa Chowdhury</b>	Professor, Dept. of Zoology, University of Dhaka, Dhaka 1000, Bangladesh	<b>Plastic Pollution in River and Ocean: Towards Community Based Gender Equitable Solution</b>
<b>Speaker 13</b>	<b>*Dr. Lee Kheng Heng</b>	Section Head, Soil and Water	<b>Nuclear and related techniques for climate</b>

		Management & Crop Nutrition Subprogram, IAEA, Vienna, Austria	<b>smart land and water management</b>
<b>Speaker 14</b>	<b>Prof. Deepa Khushalani</b>	Professor, Materials Chemistry, Department of Chemical Sciences, TIFR, Mumbai, India	<b>Climate Change &amp; Environmental Science: Indian Scenario - How Bright is our Future?</b>
<b>Summary by the Chair</b>			
<b>1:00 pm to 2:00 pm Lunch</b>			
<b><u>POSTER</u></b> <b><u>Session II:</u></b> <b>2:00 pm to 4:00 pm</b>	<b>15 posters (ONLINE)</b> - Coordinated by Dr. Sheela Donde, Dr. Suparna Kamath, Ms Sukhvinder Sandhu & poster committee - IWSA members  <b><u>Topics Covered: Biology, Health, Biotechnology, Environmental Science, Technology, Physics</u></b>		
<b><u>Session 6: Entrepreneurship and Innovation</u></b> <b>4:15 pm to 5:50 pm</b> Comperere: Ms. Tripta Tewari, Member, IWSA EC			
<b><u>Chairperson</u></b>	<b>Dr. K. Rajeshwari</b>	Founder and Managing Director, Bioklone Biotech Private Limited, Chennai, India	
<b>Speaker 15</b>	<b>Ms. Saloni Godbole Tewari</b>	Co-founder & CEO, Occamy Biosciences Pvt. Ltd, Mumbai, India	<b>Entrepreneurship in the context of science and Women Soaring High on the Wings of Change</b>
<b>Speaker 16</b>	<b>Ms. Nidhi Pant</b>	Co-Founder, Science for Society, S4S Technologies, Mumbai, India	<b>Technological solutions to address Poverty, Gender Inequality, and Post-Harvest losses in rural women farmers</b>
<b>Speaker 17</b>	<b>*Dr. Kirti Poonia</b>	Cofounder Relove, Mumbai, India	<b>Circular Economy and Sustainability in Fashion Clothing</b>
<b>Summary by the Chair</b>			
<b><u>Session 7: Space Technology</u></b> <b>6:00 pm to 7:30 pm</b> Comperere: Dr. P. Manjusree, Member, IWSA- Hyderabad			
<b><u>Chairperson</u></b>	<b>Ms. B. P. Dakshayani</b>	Former Director, Flight Dynamics and Space Navigation Group, ISRO Satellite Centre, Bengaluru, India	
<b>Speaker 18</b>	<b>*Dr. Hashima Hasan</b>	NASA Program Scientist for NuSTAR, the Keck Observatory	<b>Unlocking the Secrets of the Early Universe</b>

		and ADCAR, Deputy Program Scientist, James Webb Space Telescope, NASA HQ, Washington DC, USA	<b>with James Webb Space Telescope</b>
<b>Speaker 19</b>	<b>Dr. Deepti Deobagkar,</b>	Former ISRO Chair Professor, ISRO Space Technology Cell, Savitribai Phule Pune University, Pune, India	<b>Societal Applications of Space Technology</b>
<b>Speaker 20</b>	<b>*Dr. Ritu Karidhal</b>	Group Director of Mission Planning and Operations Group, ISRO, India	<b>Challenges and experiences of Working in Mars Orbiter Mission</b>
<b>Summary by the Chair</b>			
<b>8:00 pm to 9:00 pm</b>	<b>Cultural Program: Textiles: Look back to move forward</b> Designed by Dr. Hemalatha Jain and compered by Paromita Guin <b>Dinner</b>		
<b>Day 3: June 13, 2023</b>			
<b>Session 8: Nuclear Science and Technology</b>			
<b>9.30 am to 11.00 am</b>		Compere: Ms. Vijaya Tilak, member, IWSA EC	
<b><u>Chairperson</u></b>	<b>Dr. Sunita Mahajan</b>	Chairperson, Board of Trustees, IWSA	
<b>Speaker 21</b>	<b>Dr. Kitheri Joseph</b>	Associate Director, Metal Fuel Reprocessing Group, IGCAR, Kalpakkam, India	<b>Metal fuel, pyroprocessing and waste management: a brief perspective</b>
<b>Speaker 22</b>	<b>*Dr. Sehila Gonzalez de Vincente</b>	Global Director, Fusión Programme, Clean Air Task Force, Boston, USA.	<b>Nuclear Fusion - an attractive zero carbon source of energy</b>
<b>Summary by the Chair</b>			
<b>Session 9: Felicitation of IWSA Member Achievers</b>			
<b>11.00 am to 1.00 pm</b>		Compere: Dr. Nootan Bhakal, Treasurer, IWSA EC	
<b><u>Chairperson</u></b>	<b>Dr. Sunita Mahajan</b>	Chairperson, Board of Trustees, IWSA	
<b>1.00 pm to 2.00 pm</b>	<b>Lunch</b>		

<b>Session 10: Presentations by “Best Poster” awardees</b>			
<b>2:00pm to 4:00 pm</b>		Compere: Dr. Maitrayee Paul, IWSA member	
<b>Chairperson</b>	<b>Dr. Devaki Ramanathan</b>	Trustee, IWSA	
<b>Distribution of Prizes to Winners of “Best Poster” Presentation</b>			
<b>Message from Ms. Marja Einig</b> , Deputy Consul General, Consulate General of the Federal Republic of Germany, Mumbai to the ‘Scientists of Tomorrow’			
<b>Valedictory Session</b>			
<b>4:30pm to 6:00pm</b>		Compere: Ms. R. Bhuvaneshwari, Member, IWSA EC	
<b>Chairperson</b>	<b>Dr. Shyamala Bharadwaj</b>	Vice President, IWSA	
<b>Valedictory Address</b>	<b>Dr. Archana Sharma</b>	Director, Beam Technology Development Group, BARC, Professor, HBNI, Mumbai, India	<b>BARC Technology Solutions for Sustainable Development</b>
<b>Feedback &amp; Concluding Remarks:</b>			
Dr. Surekha Zingde, Trustee, IWSA, and Dr. Sudha Rao, Treasurer, Board of Trustees, IWSA			