

**JK Women Science Congress, 2024 organized by University of Jammu
in Collaboration with
J&K Science, Technology & Innovation Council, UT of Jammu & Kashmir
(11th-13th February, 2024)**

Day 1 (11-02-2024)

Venue: Brigadier Rajinder Singh Auditorium

9:00-11:00 AM	Registration
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INAUGURAL SESSION

(11:00-12:00 noon)

11:00-12:00 AM	Chief Guest:	Sh. Manoj Sinha Ji, Hon'ble Lieutenant Governor, JKUT & Chancellor, University of Jammu
	Guest of Honour:	Prof. Vibha Tandon, Director, CSIR-Indian Institute of Chemical Biology (IICB), Kolkata
	Special Guest:	Sh. Saurabh Bhagat, Commissioner Secretary to Govt., Department of Science & Technology, JKUT
	Presided by:	Prof. Umesh Rai, Hon'ble Vice-Chancellor, University of Jammu

12:00-1:30 PM	Lunch Lawns of Brigadier Rajinder Singh Auditorium
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1:30-2:15 PM	<u>Inaugural Talk</u> WOMEN IN SCIENCE Prof. Vibha Tandon Director, CSIR-Indian Institute of Chemical Biology (IICB), Kolkata
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SESSION 1

(Timing: 2:15-3:35 PM)

Chairperson: Prof. Riddhi Shah
Co-Chairperson: Prof. Samridhi Arora
Rapporteur: Dr. Sheetal Ambardar

2:15-2:55 PM	UNDERSTANDING THE HEFTIEST THINGS WE KNOW: GIANT DISTANT BLACK HOLES Prof. Prajval Shastri Emeritus Scientist, Raman Research Institute, Bengaluru, India
2:55-3:35 PM (Online)	Prof. Gagandeep Kang Former Executive Director Translational Health Science and Technology Institute, Faridabad

SESSION 2

(Timing: 3:35-4:55 PM)

Chairperson: Prof. Prajval Shastri
Co-Chairperson: Prof. Namrata Sharma
Rapporteur: Dr. Sandeep Arya

3:35-4:15 PM	ELECTRONICS TO SPINTRONICS: GROWTH AND FUTURE OF VLSI INDUSTRY Prof. Jasdeep Dhanoa, Professor and Head, Department of Electronics & Communication Engineering Indira Gandhi Delhi Technical University for Women, New Delhi
4:15-4:55PM	CERTAIN ASPECTS OF DYNAMICS Prof. Riddhi Shah Professor of Mathematics, School of Physical Sciences, Jawaharlal Nehru University, New Delhi
4:55-5:15 PM	Tea + Poster Session Tea: Lawns of Brigadier Rajinder Singh Auditorium Poster Session: Hallway of Social Sciences Block

SESSION 3

(Timing: 5:15-6:35 PM)

Chairperson: Prof. Jasdeep Dhanoa
Co-Chairperson: Prof. Sandeep Pandita
Rapporteur: Dr. Monika Gupta

5:15-5:55 PM	PRODUCTION OF PULLULAN AND PECTIN FROM APPLE POMACE: A SUSTAINABLE APPROACH TOWARDS VALORIZING AGRO-INDUSTRIAL BYPRODUCTS Prof. Farooq A. Masoodi Professor, Food Science & Technology&Dean Academic Affairs, University of Kashmir, J & K
5:55-6:35 PM (Online)	SCIENCE FOR SUSTAINABLE DEVELOPMENT Prof. Manzoor Ahmad Malik Professor of Physics& Dean, Physical & Mathematical Sciences, University of Kashmir,J&K
7:00-8:00 PM	Cultural Program
8:00-9:30 PM	Dinner

Day 2 (12-02-2024)

Venue: Brigadier Rajinder Singh Auditorium

SESSION 4

(Timing: 9:30-10:05 AM)

Chairperson: Prof. Arun Bharti
Co-Chairperson: Prof. VeenuKoul
Rapporteur: Dr. Madhulika Bhagat

9:30-10:05AM	Flash Talks by young Researchers (5 minutes each)		
	Talks	Topic	Speaker
	Talk 1	<i>Biosorption technique for improvement in the water quality parameters of industrial effluent using animal waste as a biomaterial</i>	Ms. IshaDevi , Research Scholar Department of Zoology, University of Jammu (WSC2024-1135)
	Talk 2	<i>Root phene modules impact root budgeting for effective uptake of macro (N, P, K, Mg)- and micronutrient (Zn and Cu) in maize</i>	Ms. Prakriti Rajput , Research Scholar Department of Botany, University of Jammu (WSC2024-1235)
	Talk 3	<i>Bibliometrics- Measuring the impact of research</i>	Dr. Jasneet Sudan , Reader, Department of Public Health Dentistry, Institute of Dental Sciences, Sehora, Kunjwani (WSC2024-1056)
	Talk 4	<i>Nanotechnological interventions for proficient refining of sugarcane tops biomass to biofuel</i>	Ms. Surbhi Sharma , Research Scholar, School of Biotechnology, University of Jammu, Jammu (WSC2024-1082)
	Talk 5	<i>Are the headwaters clean? An assessment of water quality of alpine lakes in Kailash landscape, upper Bharderwah, J&K</i>	Ms. Vandana Dutt , Department of Environmental Sciences, University of Jammu (WSC2024-1127)
	Talk 6	<i>IR Imaging based Investigations of the Tissues Exposed to Long Term Thermal Radiations</i>	MsAshu Sharma , Research Scholar, Department of Computer Science & IT, University of Jammu (WSC2024-1206)
	Talk 7	<i>Combating Infant Mortality through Awareness and Intervention: Evidences from Kashmir</i>	Shazia Bashir , Ph.D. Scholar, Extension and Communication, Institute of Home Science, University of Kashmir,

SESSION 5

(Timing:10:05-11:45 AM)

Chairperson: Prof. Farooq A. Masoodi

Co-Chairperson: Prof. A.S. Jasrotia

Rapporteur: Dr. Somnath Koundal

10:05-10:50 AM	TO BE OR NOT BE: A FEMALE DILEMMA Dr. Kanchan Kour Senior Director-Breast Surgery, Breast Cancer Breast Services,Cancer Institute Medanta-The Medicity,Gurugram
10:50-11:45 AM	FACTORS AFFECTING GENDER EQUALITY IN THE SCIENCES Prof. Bindu A. Bambah Senior Professor, School of Physics,University of Hyderabad,Hyderabad

11:45-12:00 noon	Tea + Poster Session	
	Tea:	Lawns of Brigadier Rajinder Singh Auditorium
	Poster Session:	Hallway of Social Sciences Block

SESSION 6

(Timing:12:00-1:30 PM)

Chairperson: Prof. Bindu A. Bambah

Co-Chairperson: Prof. Kamal K. Kapoor

Rapporteur: Dr. Geeta Sharma

12:00-12:45 PM	WHY SHOULD WE THINK ABOUT CLIMATE CHANGE? Prof. Gautam Menon Dean, Research and Professor of Physics and Biology, Ashoka University, Sonipat
12:45-1:30 PM	PLANT GENOMICS FOR CLIMATE RESILIENT CROPS Prof. Paramjit Khurana Senior Professor Department of Plant Molecular Biology, University of Delhi, New Delhi

1:30-2:30PM	Lunch + Poster Session	
	Lunch:	Lawns of Brigadier Rajinder Singh Auditorium
	Poster Session:	Hallway of Social Sciences Block

SESSION 7

(Timing:2:30-4:00 PM)

Chairperson: Prof. Meena Sharma
Co-Chairperson: Prof. Yashpal Sharma
Rapporteur: Dr. Chinmoye Maharana

2:30-3:15 PM (Online)	<p>TOP-DOWN AND BOTTOM-UP EXPLORATION OF THE HUMAN GUT MICROBIOME</p> <p>Prof. Karoline Faust Associate Professor Department of Microbiology, Immunology and Transplantation, KU Leuven, Campus, Gasthuisberg, Belgium</p>
3:15-4:00 PM	<p>MOLECULAR UNDERPINNINGS OF CIRCADIAN LIFESTYLE ARE DEEP-ROOTED IN INDIAN KNOWLEDGE SYSTEM</p> <p>Prof. Neelu Jain Gupta Professor & Head, Department of Zoology, Department of Hospital Administration, Chaudhary Charan Singh University, Meerut</p>

4:00-4:30 PM	Tea + Poster Session	
	Tea:	Lawns of Brigadier Rajinder Singh Auditorium
	Poster Session:	Hallway of Social Sciences Block

SESSION 8

(Timing:4:30-5:10 PM)

Chairperson: Prof. Neelu Jain Gupta

Co-Chairperson: Prof. J.P. Joorel

Rapporteur: Dr. Shallu Sharma

4:30-4:45PM	Flash Talks by young Researchers (5 minutes each)		
	Talks	Topic	Speaker
	Talk 1	<i>Strange particle production in Au+Au collision at $\sqrt{s_{NN}} = 14.6$ GeV with STAR Experiment</i>	Ms. Pratibha Bhagat, Research Scholar, Department of Physics, University of Jammu (WSC2024-
	Talk 2	<i>To Assess the influence of Socio-Economic Urban Programs on the Sustainable urban Development in the outer plains of Jammu province</i>	Ms. Pushpa Devi, Research Scholar, Department of Geography, University of Jammu (WSC2024-1209)
Talk 3	<i>Vulnerability of Karst to Contamination: A Global Perspective</i>	Ms. MuhsanaMahoor, Research Scholar Department of Earth Sciences, University of Kashmir, (WSC2024-1047)	
4:45-5:10 PM	Oral Talks by young Researchers (8 minutes each)		
	Talks	Topic	Speaker
	Talk 1	<i>A Novel Lightweight Image Cipher Mathematics and Allied Sciences</i>	Ms. Tanisha Gupta, Research Scholar, Central University of Jammu, (WSC2024-1169)
	Talk 2	<i>Feature extraction and evaluation using CNN for caption generation</i>	Ms Garima Salgotra, Research Scholar, Department of Computer Science & IT, University of Jammu (WSC2024-1208)
Talk 3	<i>Analyzing the causative factors of Samroli landslide along the National Highway (NH-44), Udhampur, Jammu and Kashmir through field observations and geotechnical approach</i>	Ms. ShifaliChib, Research Scholar, Department of Geology, University of Jammu, (WSC2024-1096)	

SESSION 9

(Timing:5:10-5:50 PM)

Chairperson: Prof. Seema Langer
Co-Chairperson: Prof. Piyush Malaviya
Rapporteur: Dr. Skarma Nonzom

5:10-5:50 PM	Oral Talks by young Researchers (8 minutes each)		
	Talks	Topic	Speaker
	Talk 1	<i>Meiotic chromosome analysis and karyomorphological exploration of May-delliathelphusamasoniana from Jammu division, J&K</i>	Ms. Menakshi Dhar, Research Scholar, Department of Zoology, University of Jammu (WSC2024-1087)
	Talk 2	<i>Assessment of cytogenetic and biochemical variability in Commelinabenghalensis L. – an amphicarpic species</i>	Ms. Arti Manhas, Ph.D. Scholar, Department of Botany, University of Jammu (WSC2024-1205)
	Talk 3	<i>ABO Blood groups, periodontal health and disease: Finding a link</i>	Dr. Malvika Singh, Senior Assistant professor (Pursuing Ph.D.) Department of Periodontics & Oral Implantology, Institute of Dental Sciences, Jammu (WSC2024-1014)
	Talk 4	<i>Molecular mechanism of Bacillus sp. strain D5 against pathogen Fusarium oxysporum R1 causing corm rot in Crocus sativus L.</i>	Dr. Nancy Bhagat, Research Associate, School of Biotechnology, University of Jammu (WSC2024-1005)
	Talk 5	<i>Geochemical appraisal of fluoride laden groundwater in hilly habitations of Chenab Valley Region of J&K</i>	Mr. Karan Dev Jamwal, Research Scholar, Department of Environmental Sciences, University of Jammu (WSC2024-1190)

SESSION 10

(Timing:5:50-6:30 PM)

Chairperson: Prof. Pankaj K. Srivastava

Co-Chairperson: Prof. Haq Nawaz Sheikh

Rapporteur: Dr. Shashi Prabha

5:50-6:30 PM	Oral Talks by young Researchers (8 minutes each)		
	Talks	Topic	Speaker
	Talk 1	<i>Parenting challenges during COVID 19 Lockdown: Academic Activities and parental involvement</i>	Ms. Sonakshi Anand, Research Scholar, Department of Home Science, University of Jammu (WSC2024-1058)
	Talk 2	<i>Computational approach to explore different hole transport layer for efficient design of PBDBT:ITIC-OE based organic solar cells</i>	Ms. Mehak Sharma, Research Scholar, Department of Electronics, University of Jammu (WSC2024-1122)
	Talk 3	<i>Unravelling the secrets of the Universe at CERN</i>	Dr. Meenakshi Sharma, Project Associate, Department of Physics University of Jammu (WSC2024-1037)
	Talk 4	<i>Analysing the spatial distribution of grid connected solar roof top: A case study of Jammu city</i>	Ms. Sarita Nagrari, Research Scholar, Department of Geography, University of Jammu (WSC2024-1224)
Talk 5	<i>Transformation of Glycols to Vinyl iodides and 2 deoxy-2 iodo nucleosides and their Applications for the Synthesis of Biologically important molecules</i>	Ms. NoreinSakander, Research Scholar, Natural Product and Medicinal Chemistry Division, Council of Scientific & Industrial Research (CSIR) IIIM (WSC2024-1064)	

6:30-7:30 PM	Cultural Program
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7:30-8:30 PM	Dinner
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Day 3 (13-02-2024)

SESSION 11

Chairperson: Prof. Naresh Padha

Co-Chairperson: Prof. Ramni Gupta

Rapporteur: Dr. Rocky Gupta

10:00-11:20 am	<u>Young Faculty Talks (10 minutes each)</u>		
	Talks	Topic	Name of the Faculty
	Talk 1	<i>Substratum Texture as a determining Factor For Macroinvertebrate Diversity in riverine System of Kashmir Valley</i>	Dr. Khalida Hassan, Associate Professor GDC for Women, Pulwama, University of Kashmir
	Talk 2	<i>My trek.....as a woman surgeon</i>	Dr. Bhavani Raina, Additional Professor, DEPTT. OF OPHTHALMOLOGY, AIIMS, VIJAYPUR
	Talk 3	<i>Exploring the nutritive value of medicinal plants from the high altitude region of Ladakh</i>	Dr. Ratna Chandra, Associate Professor & Head, School of Biotechnology, SMVDU, Katra
	Talk 4	<i>Heavy Metal Contamination of Soils in an Industrial Cluster of Jammu City</i>	Dr. Preeti Dogra, Assistant Professor, Department of Higher Education, Govt. of J&K
	Talk 5	<i>Sense of coherence and peri-traumatic stress in relation to trauma exposure in higher education students</i>	Dr. Sarita Sood, Assistant Professor, Department of Psychology University of Jammu, Jammu
	Talk 6	<i>Violence against women - a study of Jammu province (Jammu and Kashmir)</i>	Dr. Tajinder Kour, Lecturer, Department of Geography, University of Jammu
	Talk 7	<i>Groundwater and River water quality assessment in Tawi watershed (Jammu District) using geochemical ion and groundwater quality index</i>	Dr. Meenu Sharma, Assistant Professor, Department of Geology Cluster University of Jammu,
	Talk 8	<i>Estimating Perceptual Quality in Low-Illuminated Hazy Environment Using Deep Learning</i>	Dr. Palak Mahajan, Assistant Professor, Department of Computer Science & Engineering, Central University of Jammu

11:20-12:00	<p style="text-align: center;">Tea + Poster Session</p> <p style="text-align: center;">Tea: Lawns of Brigadier Rajinder Singh Auditorium</p> <p style="text-align: center;">Poster Session: Hallway of Social Sciences Block</p>
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SESSION 12

Moderator: Prof. Gautam Menon

Rapporteur/Co-Moderator: Prof. Sanjana Kaul

12:00-1:30PM	<p style="text-align: center;">A panel discussion</p> <p style="text-align: center;">Gender Inequality: Glass ceiling and sticky floors</p> <p style="text-align: center;"><u>Panelist from University of Jammu</u></p> <ul style="list-style-type: none"> • Prof. Rajni Dhingra, Former Registrar & Former DRS (Online) • Prof. Anju Bhasin, Professor in Physics, Dean Faculty of Sciences & Dean Academics Affairs Former Vice-Chancellor, Cluster University of Jammu • Prof. Meena Sharma, Professor in Chemistry Dean Planning & Development • Prof. Neelu Rohmetra, Professor in Management & Dean Research Studies, Former Director, IIM, Simrur • Prof. Seema Langer, Professor and Head Zoology, Dean Life Sciences • Prof. Vishwaraksha, Professor in Sociology & Director, Women Studies <p style="text-align: center;"><u>Former Faculty of University of Jammu</u></p> <ul style="list-style-type: none"> • Prof. Rekha Choudhary, Former Dean Research Studies, • Prof. Poonam Dhawan, Former, Dean Academic Affairs <p style="text-align: center;"><u>Panelist from other Organizations</u></p> <ul style="list-style-type: none"> • Dr. Yasmeen Ashai, Director Colleges HED, J&K & Former Principal, Amar Singh College, Srinagar • Ms. Seema Khajuria Shekhar, Senior Advocate, High Court, J&K & Former Senior Addl. Advocate General • Dr. Nikhil Gupta, Former Consultant, Department of Psychiatry, ASCOMS, Jammu
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1:30-3:00 PM	<p style="text-align: center;">Lunch+ Poster Session</p> <p style="text-align: center;">Lunch Poster Session</p> <p style="text-align: center;">Lawns of Brigadier Rajinder Singh Auditorium Hallway of Social Sciences Block</p>
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SESSION 13

(Timing:3:00-4:30 PM)

Chairperson: Prof. Paramjit Khurana

Co-Chairperson: Prof. Neeru Sharma

Rapporteur: Dr. Sarabjit Kour

3:00-3:45 PM	<p style="text-align: center;">WOMEN IN SCIENCE AND ENGINEERING: CHALLENGES AND OPPORTUNITIES</p> <p style="text-align: center;">Dr. Vandana Singh Head, WISE-KIRAN, Department of Science and Technology, New Delhi</p>
3:45-4:30PM	<p style="text-align: center;">UNWINDING THE MYSTERIES OF CLIMATE AND TECTONIC INTERPLAY IN LADAKH AND HIMALAYAS-Records Hidden in the Quaternary Sediments of Indus River Catchment</p> <p style="text-align: center;">Prof. BinitaPhartiyal Scientist-F, Birbal Sahni Institute of Palaeo-Sciences, Lucknow</p>

VALEDICTORY SESSION

4:30-5:30 PM	Chief Guest:	Prof. S.K. Mehta, Vice-Chancellor, University of Ladakh
	Guest of Honour:	Sh. Saurabh Bhagat, Commissioner / Secretary to Govt, Department of Science & Technology, JKUT
	Presided by:	Prof. Anju Bhasin, Convener, JK Women Science Congress
5:30-6:30 PM	HIGH TEA	