

Let's all meet and contemplate Online
in
INTERNATIONAL CONFERENCE
on
**ENVIRONMENT, WATER, AGRICULTURE, SUSTAINABILITY
AND HEALTH (EWASH-2020): EXPANDING OUR VISION POST COVID-19**
&
2nd Annual Meet of STE

Organized by



SAVE THE ENVIRONMENT

A Society for Research Awareness and Social Development

19 to 20 December, 2020

Invited Dignitaries

Chief Guest



Padma Shri Prof. Bimal K. Roy
Chairperson, National Statistical Commission

Guest of Honour



Mr. Vijaypal Baghel
Eminent Environmentalist
Renowned 'Green Man of India'

Chief Guest - Valedictory



Shri Sanjeev K Varshney
Head, International Cooperation (Bilateral)
Department of Science and Technology
Technology Bhavan, New Mehrauli Road
New Delhi

Co-organized by



CSIR-NEERI
Delhi Zonal Laboratory (DZL)



The Royal Society of Chemistry
North India



**Environment and Social
Development Association (ESDA), Delhi**



Hindu College
University of Delhi, Delhi

Sponsored by



KEYNOTE SPEAKERS IN EWASH 2020



Prof. Arunabha Majumdar

Patron, STE, Chairman, Indian Water Works Association (IWWA)
Emeritus Professor, School of Water Resources Engineering, Jadavpur University
Ex Director, Professor & Head, Department of Sanitary Engineering, AIIH & PH, Kolkata.



Dr. Manoranjan Patri

Outstanding Scientist
Scientist 'H' & Director, NMRL (DRDO), Ambarnath



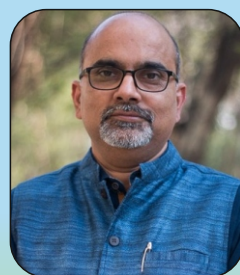
Dr. Rakesh Kumar

Director, CSIR-NEERI
Nagpur



Mrs. Manimozhi Theodore

Scientist 'H' & Director, DEBEL(DRDO)
Bangalore



Dr. Alok Adholeya

Senior Director, Sustainable Agriculture, TERI
Gurugram



Dr. Rakeshwar Bandichhor

Head, Chemistry - API - Process R&D
at Dr. Reddy's Laboratories
Vice-Chair, ACS-India Chapter (South India)



Prof. Raghunath Bhattacharyya

Visiting Faculty, IEST, Shibpur
Emeritus Scientist (Retd.), NPL, New Delhi



Prof. Rajinder Chauhan

Dean (Res & Consultancy), Head
Dept. of Biotechnology, Bennett University, Greater NOIDA

KEYNOTE SPEAKERS INTERNATIONAL



Dr. Surampalli Y. Rao

President, CEO and Chief Technology Officer,
Global Institute for Energy, Environment and
Sustainability, Kansas, USA and Former Engineer Director
US Environmental Protection Agency (USEPA)



Prof. Irena Choma

Dept. of Chromatography
Marie-Curie-Sklodowska University
Lublin, Poland



Prof. Satinder K. Brar

Love Chair in Environmental Engineering
Lassonde School of Engineering
York University, Toronto, Canada

Organizing Committee

Patron



Prof. Arunabha Majumder
Chairman
Indian Water Works Association (IWWA)

Co-Patron



Dr. Sanjeev Goyal
Chief Scientist & Head
CSIR-NEERI, Delhi Zonal Centre

Convenors



Dr. Kshipra Misra
President, STE &
Former Addn. Dir., DIPAS (DRDO)



Prof. R.K. Sharma
Secretary
RSC-North India Section

Co-Convenors



Dr. Anju Srivastava
Principal, Hindu College
University of Delhi, Delhi



Mrs. Chhanda Basu
General Secretary, STE



Dr. Jitendra Kumar Nagar
Founder & General Secretary, ESDA

Organizing Secretary



Dr. Priyanka Sharma
Organising Secretary, EWASH-2020 &
Scientist, DIPAS (DRDO), Delhi

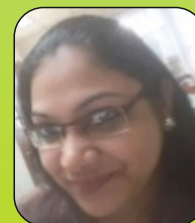
Co-Organising Secretaries



Dr. Reena Jain
Vice-Principal, Hindu College
University of Delhi, Delhi



Dr. Anuja Bhardwaj
RA & Editor (Newsletter), STE



Ms. Jigni Mishra
Project Associate, IARI &
E.C. Member, STE

Co-organized by



CSIR-NEERI
Delhi Zonal Laboratory (DZL)



The Royal Society of Chemistry
North India



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Development Association (ESDA), Delhi



Hindu College
University of Delhi, Delhi

**INTERNATIONAL CONFERENCE ON
ENVIRONMENT, WATER, AGRICULTURE,
SUSTAINABILITY AND HEALTH (EWASH-2020):
EXPANDING OUR VISION POST COVID-19**

&

**2nd Annual Meet of STE
19 to 20 December, 2020**

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Delhi Zonal Centre (DZL)



The Royal Society of Chemistry
North India



Environment And Social
Development Association (ESDA)
Delhi



Hindu College
University of Delhi, Delhi

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Flat No. 1107, Block 17, Heritage City, MG Road, Gurugram

Day 1

Time: Dec 19, 2020 08:00 AM
Mumbai, Kolkata, New Delhi

Topic: EWASH Conference 2020
December 19, 2020

Join Zoom Meeting

[https://us02web.zoom.us/j/84262214081?
pwd=bm5uZzhzNnJhR0NHXZpU0xTKzdQdz09](https://us02web.zoom.us/j/84262214081?pwd=bm5uZzhzNnJhR0NHXZpU0xTKzdQdz09)

Meeting ID: 842 6221 4081

Passcode: STE2020

YouTube

[https://www.youtube.com/channel/
UC9ovU7OWiB7ufwMncT-BRtw?view_as=subscriber](https://www.youtube.com/channel/UC9ovU7OWiB7ufwMncT-BRtw?view_as=subscriber)

PROGRAM SCHEDULE

Day 1: 19th December, 2020

Inaugural Session: 9:30 AM to 12:40PM

Co-ordinators: **Dr. Priyanka Sharma**, Organizing Secretary, EWASH 2020 & Scientist, DIPAS (DRDO), Delhi and **Dr. Anuja Bhardwaj**, Co-organizing Secretary, EWASH 2020, Research Associate, Save The Environment & Editor, 'Prakriti Sanrakshan (STE Newsletter)

9:30-9:40	Entry of guests and delegates to the online conference room Customary welcome of esteemed guests and delegates with flowers & lighting of the lamp
9:40-9:45	Formal opening of the conference by Prof. Arunabha Majumdar , Patron, STE, Chairman, Indian Water Works Association (IWWA) Emeritus Professor, School of Water Resources Engineering, Jadavpur University, Ex Director, Professor & Head, Department of Sanitary Engineering, AIH&PH, Kolkata.
9:45-9:55	Welcome of Chief Guest, Guest of Honor and all esteemed dignitaries by Dr. Kshipra Misra , Convener, EWASH-2020, President, Save The Environment & Former Additional Director, DIPAS (DRDO), Delhi
9:55-10:00	Release of e-Abstract Book by dignitaries
10:00-10:20	STE Annual Awards Ceremony, 2020 Felicitation of eminent dignitaries with STE Dr. APJ Abdul Kalam Award, STE Dr. Praloy O. Basu Lifetime Achievement Award, STE Green Excellence Awards & STE Fellowship Awards
10:20-10:40	Inaugural Talk by Honorable Chief Guest Padma Shri Prof. Bimal K. Roy
10:40-11:00	Special Address by Honorable Guest of Honor, Shri Vijaypal Baghel , Environmentalist and Social Activist, ' Green Man of India '
11:00-12:15	Introduction of STE activities by Dr. Anuja Bhardwaj , Save The Environment Address by Dr. S. K. Goyal , Chief Scientist & Head, CSIR-National Environmental Engineering Research Institute Delhi Zonal Centre (DZL) Address by Prof. RK Sharma , Honorary Secretary, Royal Society of Chemistry London, North India Section Address by Prof. Anju Srivastava , Principal, Hindu College, University of Delhi Address by Dr. Jitendra Kumar Nagar , General Secretary ESDA, Delhi
12:15-12:25	RSC London North India activities by Dr. Manavi , Treasurer, Royal Society of Chemistry London, North India Section
12:25-12:35	Vote of Thanks by Dr. Reena Jain , Co-organizing Secretary, EWASH 2020 & Vice Principal, Hindu College, University of Delhi
12:35-12:40	National Anthem

Keynote Session 12:40 to 2.00 PM

Chairpersons: **Prof. Laxman Prasad**, Director, RKG Group of Institutions, Ghaziabad & Former Adviser, Dept. of Science & Technology, Govt. of India; **Dr. S. K. Goyal**, Chief Scientist & Head, CSIR-NEERI, Delhi Zonal Centre and **Prof. R. K. Thakur**, Dean, GD Goenka University, Gurugram, Haryana

Co-ordinator: **Dr. Anuja Bhardwaj**, Co-organizing Secretary, EWASH 2020, Research Associate STE& Editor, 'Prakriti Sanrakshan (STE Newsletter)

12:40 – 01:00	Keynote Talk by “ <i>Fuel Cells-Clean and Reliable Energy</i> ” by Dr. Manoranjan Patri , Outstanding Scientist, Scientist ‘H’ & Director, NMRL (DRDO), Ambarnath
01:00- 01:20	Keynote Talk by Dr. Rakesh Kumar , Director, CSIR-NEERI, Nagpur
01:20-01:40	
1:40-2:00	Keynote Talk by Dr. Alok Adholeya , Senior Director, Sustainable Agriculture, TERI, Gurugram
2:00-2:10	Remarks by the Chairpersons Vote of Thanks by Coordinator

**2:10 PM to 2:30 PM
LUNCH BREAK**

Technical Session on 'Augmentation of Human Health'

2:30 PM to 4:00 PM

Chairpersons: **Dr. Susan Titus**, Scientist 'G', NMRL (DRDO), Ambarnath and **Prof. Rakesh Kumar**, Head, Dept. of Zoology, Post Graduate Autonomous College, Sri Dev Suman University Campus, Rishikesh
Co-ordinator: **Dr. Devanshi Magoo**, Assistant Professor, Department of Chemistry, Hindu College, University of Delhi

2: 30 – 2:50	Keynote Talk: <i>"Bio-profiling and Effect Directed Analysis in Searching of Active Constituents of Plants and their Preparations"</i> by Prof. Irena Choma , Dept. of Chromatography, Marie-Curie-Sklodowska University, Lublin, Poland.
2:50 – 3:10	<i>"Why Do We Sleep"</i> by Dr. Usha Panjwani , Scientist 'G', DIPAS (DRDO), Delhi
3:10-3:30	<i>"Sterile Inflammatory Molecules: A Prognostic Marker for Pre-eclampsia"</i> by Prof. Gausal A. Khan , Professor, Fiji School of Medicine
3:30-4:00	Poster presentations Remarks by the Chairpersons Vote of thanks by Coordinator

Technical Session on 'Climate Change, Environment Protection & Global Warming'

4:00 to 6:30 PM

Chairpersons: **Dr. Dhurjati Majumdar**, Former Scientist 'G', DRDO, **Prof. B. Rupini**, Professor, Environmental Studies, SOITS, IGNOU, New Delhi and **Dr. Jitendra Nagar**, General Secretary, ESDA
Co-ordinator: **Dr. Priyanka Sharma**, Organizing Secretary, EWASH 2020 & Scientist, DIPAS (DRDO), Delhi

4:00-4:20	<i>"Impact of Climate Change on Environment and Human Health"</i> by Dr. Malti Goel , Chief Executive, Climate Change Research Institute, Former Adviser, DST, Govt. of India
4:20 – 4:40	Invited Talk on <i>"Actuarial Perspective"</i> by Mr. Mahidhara Davangere , Founder & Managing Director, Pramatha Analytics Pvt. Ltd.
4:40 – 5:00	STE Annual Awards Ceremony, 2020 Felicitations with STE International Achiever Awards, STE Meritorious Awards and STE Water Awards
5:00-5:30	<i>"Keynote Talk: Climate Change: Impacts, Mitigation and Adaptation"</i> by Dr. Surampalli Y. Rao , President, CEO and Chief Technology Officer, Global Institute for Energy, Environment and Sustainability, Kansas, USA & Former Engineer Director, USEPA
5:30-6:30	Oral presentations Remarks by the Chairpersons Vote of thanks by Coordinator

Day 2

Time: Dec 20, 2020 08:00 AM
Mumbai, Kolkata, New Delhi

Topic: EWASH Conference 2020
December 20, 2020

Join Zoom Meeting

[https://us02web.zoom.us/j/81559563398?
pwd=bmRYZnFLeGtRSHVVRVXBQMkxzdVRzdz09](https://us02web.zoom.us/j/81559563398?pwd=bmRYZnFLeGtRSHVVRVXBQMkxzdVRzdz09)

Meeting ID: 815 5956 3398

Passcode: STE2020

YouTube

[https://www.youtube.com/channel/
UC9ovU7OWiB7ufwMncT-BRtw?view_as=subscriber](https://www.youtube.com/channel/UC9ovU7OWiB7ufwMncT-BRtw?view_as=subscriber)

Day 2: 20th December, 2020

9:30-10:00	Special Keynote Talk by Mrs. Manimozhi Theodore , Scientist 'H' & Director, DEBEL (DRDO), Bangalore
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Chairperson: Dr. Kshipra Misra, Convener, EWASH-2020, President, Save The Environment & Former Additional Director, DIPAS (DRDO), Delhi

Technical Session on 'Water Management for Agricultural and Industrial Applications'

10:00 AM to 1:30 PM

Chairpersons: Prof. Anju Srivastava, Principal, Hindu College, University of Delhi and Dr. Nupur Bahadur, Fellow & Senior Scientist, The Energy and Resources Institute (TERI), Gurugram

Co-ordinator: Ms. Jigni Mishra, Co-organizing Secretary, EWASH 2020 and Project Associate, IARI

10:00- 10:20	STE Annual Awards, 2020 Felicitation with STE Innovation Awards
10:20-10:40	Keynote Talk by Prof. Arunabha Majumdar , Patron, STE, Chairman, Indian Water Works Association (IWWA), Emeritus Professor, School of Water Resources Engineering, Jadavpur University, Ex Director, Professor & Head, Department of Sanitary Engineering, AIH&PH, Kolkata.
10:40-11:00	Invited Talk by Dr. G. K. Arora , Principal, Dr. Bhim Rao Ambedkar College, University of Delhi
11:00-11:20	Invited talk by Prof. Sunil De , Dept. of Geography, North-Eastern Hill University, Vice President, Intl. Asscn. of Geomorphologists
11:20-11:40	"Crop Responses to the Elevated CO ₂ : Research and Technology A South Asian Effort" by Dr. DC Uprety , Emeritus Scientist (Retd.), Dept. of Plant Physiology, IARI, New Delhi
11:40-12:00	Invited Talk by Dr. Rama Dubey , Scientist 'E', DRL (DRDO), Tezpur
12:00-12:20	Invited Talk by Dr. Nupur Bose , Associate Professor in Geography & Faculty Dept. of Environment and Water Management, A.N. College, Patna
12:20-12:40	"Disinfection By-products: Invisible Toxicity in Drinking Water Treatment System" by Dr. Noor A. Khan , Senior Scientist & Asst. Prof. AcSIR, NEERI, Delhi Zonal Centre
12:40-1:00	Invited talk by Mr. Niranjana Karagi , Founder of Nirnal Water Solutions
1:00-1:30 PM	Oral Presentations Remarks by the Chairpersons Vote of thanks by Coordinator

1:30 PM to 2:00 PM
LUNCH BREAK

Technical Session on 'Green technologies for Sustainable Development' & Special Technical Session on 'Interrelationships between Industries and Social Development'

2:00 to 4:00 PM

Chairpersons: **Prof. RK Sharma**, Coordinator, Green Chemistry Network Centre, Department of Chemistry, University of Delhi, Honorary Secretary, RSC London (North India Section) and **Prof. SK Mehta**, Professor, Dept. of Chemistry, Panjab University, Chandigarh.
Co-ordinator: **Dr. Lalit Kumar**, Asst. Prof. Dept. of Physics, Hindu College

2:00-2:20	Keynote Talk: "Green Chemistry in Pharma Industry" by Dr. Rakeshwar Bandichhor , Head, Chemistry - API - Process R&D at Dr. Reddy's Laboratories, Vice-Chair, ACS-India Chapter (South India)
2:20-2:40	Keynote Talk: "Some Musings on Sustainable Development-with Emphasis on Solar Energy Exploitation and its Use in Potable Water Availability" by Prof. R. Bhattacharyya , Visiting Faculty, IEST, Shibpur, Emeritus Scientist (Retd.), NPL, New Delhi
2:40-3:00	Keynote Talk: "Biotech Interventions in Himalayan Medicinal Herbs Towards Conservation and Sustainable Production of Elite Planting Material & Phytochemicals" by Prof. Rajinder Chauhan , Dean (Res & Consultancy), Head, Dept. of Biotechnology, Bennett University, Greater NOIDA
3:00-3:10	STE Annual Awards Ceremony, 2020 Felicitation with STE Humanitarian Award for NGO
3:10-3:30	Invited talk by Dr. Rajlakshmi Mallik , President & Head, Research and Training, C-DRASTA, Kolkata
3:30-3:50	"Update on Pneumonia in India" by Mr. Vikrant Mishra , Garg Surgicals [Industry Sponsor]
3:50-4:00	Remarks by the Chairpersons Vote of Thanks by Co-ordinator

Technical Session on Interdisciplinary Research for Holistic Development

4:00 to 5:00 PM

Chairpersons: **Dr. Kishore Amin**, Scientific Officer - F, Coinvestigator- International Cancer Genome Consortium (ICGC), ACTREC, and **Dr. Imteyaz Qamar**, Assistant Professor, School of Biotechnology, Gautam Buddha University, G. NOIDA
Co-ordinator: **Dr. Priyanka Sharma**, Organizing Secretary, EWASH 2020 & Scientist, DIPAS (DRDO), Delhi

3:45- 4:05	"Indian system of medicine and its analytical standardization" by Dr. Anubhuti Pasrija , Principal Scientist, Dabur India Ltd., New Delhi
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4:05-4:25	Invited Talk by Dr. Sayeed Ahmad , Associate Professor, Dept. of Pharmacognosy and Phytochemistry, Jamia Hamdard University, New Delhi
4:25-4:45	<i>"Biosensors for health and point-of-care applications"</i> by Prof. C. Karunakaran , VHNSN College, Tamil Nadu
4:45- 5:05	<i>"Vacancy Engineered Brown TiO₂ and RGO Nanocomposite with Enhanced Photocatalytic Performance "</i> by Prof. Dinesh Rangappa , Professor & Program Coordinator, Dept. of Nanotechnology, VTU, Karnataka
5:05-5:25	<i>"Environment Law and Sustainability"</i> by Prof. SG Venkatasubramanian , Anna University, Chennai
5:25-6:00	Oral Presentations Remarks by the Chairpersons Vote of Thanks by Co-ordinator

Valedictory Session 6:00 to 7:45 PM

Chairpersons: **Dr. Kalpana Bhargava**, Scientist 'F', HEMRL (DRDO), Pune and **Dr. Sushil K. Singh**, Scientist 'F', SSPL (DRDO), Delhi
Co-ordinator: **Ms. Jigni Mishra**, Co-organizing Secretary, EWASH 2020 and Project Associate, IARI

6:00-6:10	Welcome of Chief Guest, Shri SK Varshney , Head, International Cooperation, Dept. of Science & Technology, Govt. of India
6:10- 6:30	Special Address by The Honorable Chief Guest of Valedictory Session
6:30-7:00	STE Annual Awards Felicitation with STE Women Excellence Awards, STE Best Teacher Awards, and STE Young Researcher Awards
7:00-7:25	Special Talk on <i>"Microplastics Pollution in Water Source"</i> by Prof. Satinder K. Brar , Love Chair in Environmental Engineering, Lassonde School of Engineering, York University, Toronto, Canada
7:25 -7:35	Concluding Remarks by Prof. Anju Srivastava , Principal, Hindu College, University of Delhi
7:35- 7:45	Vote of Thanks by Dr. Priyanka Sharma , Organizing Secretary, EWASH 2020 & Scientist, DIPAS (DRDO), Delhi