

## List of Invited Lectures

### International Forum

1. Delivered an invited talk on "Significant Research and Technology Landscape on Electrostatically Charged Sprays for Agro-Food and Health Industry" at the international conference on "Electrostatics 2023" at Brunel University London, UK on **September 06, 2023**.
2. Delivered an invited talk as a visiting scientist to Centre for Rapid and Sustainable Product Development (CDRSP) on "Life beyond 2030: Recent advances and role of collaboration between CSIR-CSIO, Chandigarh & Polytechnic of Leiria, Portugal" on **March 20, 2023** at the conference hall of CDRSP, Polytechnic of Leiria, Portugal.
3. Delivered an invited talk as a keynote speaker on "Electrostatic spraying for health and hygiene" as keynote speaker in a Virtual International Conference on Sustainable and Intelligent Manufacturing (RESIM 2022) on **June 03, 2022** at Centre for Rapid and Sustainable Product Development (CDRSP), Polytechnic of Leiria, Portugal.
4. Delivered an invited talk as a keynote speaker on "A time with electrostatically charged sprays for the mitigation of COVID-19" at Polytechnic of Leiria, Portugal as keynote speaker in an International Manufacturing Forum Series 2021 on **February 04, 2021**.
5. Delivered an invited talk as a keynote speaker on "Electrostatically Charged Sprays for Efficient and Effective Disinfection and Sanitization" during a webinar on "Electrostatics in Healthcare" on **July 09, 2020** organized by Institute of Physics (IOP), London, UK.
6. Delivered an invited lecture on "Electrostatic Spraying Technologies for Agriculture, Environment and Food" at Brunel University, London, UK on **April 12, 2019**.

### National Forum

1. Delivered an invited talk as a keynote speaker on "Interdisciplinary and Applied Research for Sustainable Development", at the National Level Seminar on "Rejuvenating Soil Health for Food Security and Agriculture Sustainability" at Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani, Maharashtra on **December 21-22, 2023**.
2. Delivered a guest lecture on "Automation and mechanization in agriculture: Robotics and UAVs", at Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana organised by Animal Disease Research Centre on November **20, 2023**.
3. Delivered a guest lecture on "Life Beyond 2035: Scientific advancements that would define the next decade", at Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana organised by Animal Disease Research Centre on November **20, 2023**.
4. Delivered an invited talk on "Interdisciplinary and Applied Research Leading to Product Development" at Manipal-GOK Bioincubator, on **July 13, 2023** organized by Institution's Innovation Council (IIC), Manipal University, Karnataka.
5. Delivered an invited talk on "Fundamentals of Electrostatic Spray Coating and Technology Landscape: A Journey from Lab to Industry" at 6th International Conference on "Multidisciplinary Approach for Healthy & Sustainable Foods (AMIFOST-2023)" organised by Amity Institute of Food Technology, Amity University Uttar Pradesh (AUUP), Noida on **April 13-14, 2023**.
6. Delivered an inaugural lecture on "Applied Research for Sustainable Development" at Indian Institute of Technology (IIT) Roorkee on **September 20, 2022** on the occasion to commemorate the 175 years of IIT Roorkee's establishment. The lecture was organized by Department of Polymer and Process Engineering, IIT Roorkee.
7. Delivered an invited talk as a keynote speaker on "Innovation/Prototype Validation (Converting Innovation into a Start-up)" at Chandigarh Engineering College (CEC), Jhanjeri, Punjab organized by Institution's Innovation Council (IIC), on **August 23, 2022**.

8. Delivered an invited talk on "Translational Research, Technology Development and Industry Connect (Shaping the Dreams of Aatmanirbhar Bharat)" at 8th GURU DAKSHTA (Faculty Induction Programme) organized by UGC-Human Resource Development Centre, University of Allahabad on **April 18, 2022**.
9. Delivered an invited talk on "Road to Scientific Success" at India International Science Festival 2021 at the event "Vigyanika" held at Panjim Goa on **December 11-12, 2021**.
10. Delivered an invited talk as a keynote speaker on "Technological Interventions for Sustainable Society" at Pushpa Gujral Science City, Kapurthala, Punjab on the occasion of International Youth Day 2021 on **August 12, 2021**.
11. Delivered an invited lecture on "Technological Interventions for Sustainable Environment" at a Faculty Development Program organized by Rural Development Department, National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh on **July 07, 2021**.
12. Delivered an invited talk as a guest speaker on "Technological Innovation and Socioeconomic Impact" at Research Conclave 2021 organized by National Institute of Technology (NIT), Jamshedpur, Jharkhand on **February 25-27, 2021**.
13. Delivered an invited talk on "Inspire to Aspire" at Government Nagarjuna P.G. College of Science, Raipur, Chhattisgarh on **December 18, 2020** organized by NIT Raipur and Pt. Ravishankar Shukla University, Raipur.
14. Delivered an invited talk as a keynote speaker on "Technological Interventions for Healthy Society and Environment" for the participants of Faculty Development Program (FDP) on Innovative Technological Solutions to Societal Problems on **November 10, 2020** organized by Lovely Professional University (LPU), Jalandhar.
15. Delivered an invited lecture on "Electrostatic Disinfection Machine for Effective and Efficient Sanitization of Public Places against COVID-19" at IETE Foundation Day on **November 02, 2020** organized by IETE Chandigarh Centre.
16. Delivered an invited talk on "Shaping the Dreams of Aatmanirbhar Bharat through Technological Interventions" during 5-day Online STTP on **October 26, 2020** organized by Government Engineering College, Ajmer.
17. Delivered an invited talk in virtual mode on "Electrostatic Spraying Technology and its Societal Impact" at CSIR Young Scientist Awardees Confabulation on **September 29, 2020** organised by CSIR-HRDC, Ghaziabad.
18. Delivered an invited talk on "Wonders of Electrostatics" during an inaugural session of E-workshop on Biomedical Techno Innovations and Health Monitoring on **September 19, 2020** organized by Futuristic Technologies of India, IIT Delhi.
19. Delivered an invited lecture on "Opportunities for Youth in Science and Technology: Shaping the Dreams of Atmanirbhar Bharat" during a webinar organized NIT Jamshedpur on **July 28, 2020**.
20. Delivered an invited talk on "Electrostatically Charged Sprays for Efficient and Effective Disinfection and Sanitization" during a webinar on "Electrostatics in Healthcare" on **July 09, 2020** organized by IOP, London.
21. Delivered an invited talk at the webinar series 2.0 (automation in agriculture) on "Technological Interventions for Sustainable Agriculture" organized by Indian Society of Agricultural Engineers (ISAE) on **June 04, 2020**.
22. Delivered an invited lecture on "Dust Mitigation and Smog Control" at Rural Development Department, National Institute of Technical Teachers Training & Research (NITTTR) on **May 22, 2020**.
23. Participated in panel discussion on "Water Challenges during and Post COVID-19" at the webinar series organized by International Centre for Clean Water (ICCW), IIT Madras on **May 14, 2020**.
24. Delivered an invited talk on "Innovation, Technology and its Socio-economic Impact" for the participants of Online Faculty Development Program on Internet of Things (OFDPIoT-20) at NIT Jamshedpur, **May 11, 2020**.

25. Delivered an invited lecture on “Technological Interventions for Sustainable Environment” at Rural Development Department, National Institute of Technical Teachers Training & Research (NITTTR) on **April 22, 2020**.
26. Delivered an invited lecture on “Socioeconomic Impact of Electrostatic Disinfection Machine” for the foreign participants of Indian Technical and Economic Cooperation (ITEC) Programme of MEA, New Delhi on **January 01, 2020** at CSIR-CSIO, Chandigarh.
27. Delivered an invited talk for school children on “Technological interventions in Space and Future Opportunities for Youth” on **December 27, 2019** organized by World Space Council (WSC), India.
28. Delivered an invited talk as an IEI Young Engineers Awardee 2019-20 on “Electrostatic Spraying Technology and its Contributions towards Society” during the Inaugural Session of the 35<sup>th</sup> National Convention of Electronics & Telecommunication Engineers at TERii Kurukshetra on **October 19, 2019**.
29. Delivered an invited lecture on “Electrostatic Spraying Technologies for Agriculture, Environment and Food” at Brunel University, London on **April 12, 2019**.
30. Delivered an invited lecture on “Technological Interventions for Agriculture, Environment and Food” on **January 25, 2019** at CSIR-CSIO for the participants of Management Development Program on Operation and Maintenance of analytical instruments, ITEC program, Ministry of External Affairs, New Delhi.
31. Delivered an Invited lecture on “Electrostatic Spraying Technology for Societal and Industrial Applications” on **January 01, 2018** at CSIR-CSIO for the participants of ITEC program, Ministry of External Affairs, New Delhi.
32. Delivered an invited talk on “Social Innovations” at 5<sup>th</sup> National Conference on Social Innovation (NCSI-2017) on **November 17, 2017** at Pune International Centre (PIC), Pune, India.
33. Participated in panel discussion on “Communicating Science Technology and Innovation for Sustainable Development” on **November 03, 2017** at India Habitat Centre organised by Jawaharlal Nehru University (JNU), New Delhi, India.
34. Delivered an Invited talk on “Technological Interventions for Sustainable Agricultural Practices” on **June 01, 2017** at Indian Agricultural Research Institute (IARI), New Delhi, India.