

FRONTIER SCIENCES AND TECHNOLOGIES IN AGRICULTURE FOR A DEVELOPED INDIA

XVII AGRICULTURAL SCIENCE CONGRESS-2025 FEB. 20-22,2025

ORGANIZED BY

NATIONAL ACADEMY OF AGRICULTURAL SCIENCES, NEW DELHI

G B PANT UNIVERSITY OF AGRICULTURE & TECHNOLOGY, PANTNAGAR



Day

XVII Agricultural Science Congress & ASC Expo February 20-22, 2025 Pantnagar, Uttarakhand, India



19:00- 20:10 20:00 onward

Cultural Program

Dinner Food Court

Frontier Sciences and Technologies in Agriculture for Developed India

| | | | | | | Tentative | Daily Programme | Schedule | | | | |
|-------------------------|------------------------|-------------|------------------------|-------------------------|-----------------|--------------------------------|-----------------|--------------------|------------------------|--------------------------------|---------------------------|----|
| | 08:00- | 10:00-12:00 | 12:00- | 12:30-13:15 | 13:15- | 14.15-15.00 | 15:1 | 00-17:00 | 17.00- | 17.30-18.15 | 18:15-19:00 | 15 |
| (ý | 10:00 | | 12:25 | | 14.15 | | Theme | Venue | 17.25 | | | 2 |
| sda | | | | | | | Theme-1 | CABM MDP Hall | | | | |
| (Thursday) | fast | | | | | D V L V · | Theme 3.1 | Ratan Singh Audi | | | | |
| را ۱) (ا | Breakfast nue | | ÷ | D | ÷ | Dr. Varghese Kurien | Theme 4.1 | MS Conf Hall 1 | ÷ | Dr. A.B. Joshi | Plenary | |
| Day 1 (20/02/2025) (| inß Bre Venue | Inaugural | High Tea Food Court | Presidential Address | unch d Court | Memorial Lecture Main Venue | Theme 5.1 | MS Conf Hall 2 | High Tea Food Court | Memorial Lecture Main Venue | Lecture-1 Main Venue | |
| 2/2 | ration Main V | Programme | High I bad | Address Main Venue | Lunc Food Ci | (Dr. Meenesh Shah, | Theme 6.1 | MS Conf Hall 3 | 년 년 민 | (Dr. P.L. Gautam, | (Dr. Mark Smith, | |
| | stre M | | _ F | Maill Vellue | Ē | Chairman, NDDB, Gujarat) | Theme 7.1 | CABM Shiksha Sadan | - E | | Director General, IWMI) | |
| (2 | Registratior Main ' | | | | | unan man, nood, dujai al/ | Symposia 1.1 | COA Conf Hall | | TUTILICE DOU, IGAN) | Director Delici di, IWMI) | |
| | | | | | | | | | | | | |

| | 08:00- | 0 | 9:00-11:00 | 11:00- | 11:30 | -13:30 | 13:30- | 14:30- | 16:30 | 16:30- | 17:00-17:45 | 17:45-18:30 | 19:00- | 20:00 |
|--------------------------------|------------------|-----------------|--------------------------|------------------|--------------|--------------------|--------|-------------------|--------------------|--------|----------------------------------|--------------|------------|--------|
| | 09:00 | Theme | Venue | 11:30 | Theme | Venue | 14:30 | Theme | Venue | 17:00 | | | 20:00 | onward |
| | | Theme 2.1 | CABM MDP Hall | | Theme 2.2 | CABM MDP Hall | | | | | | | | |
| | | Theme 3.2 | Ratan Singh Audi | | Symposia7 | Ratan Singh Audi | | | | | | | | |
| Ŕ | | Theme 4.2 | MS Conf Hall 1 | 5 | Theme 9.1 | MS Conf Hall 1 | | Theme 9.2 | MS Conf Hall 1 | | | | | |
| Day 2 (21/02/2025) (Friday) | | Theme 5.2 | MS Conf Hall 2 | Exhibition | | | | Panel Discussion2 | MS Conf Hall 2 | | | | | |
| 2) (F | ~ | Theme 6.2 | MS Conf Hall 3 | Exh | Theme 10 | MS Conf Hall 3 | | | | | Plenary | NAAS-YUVA | rogram | |
| lay 1 125 | ıkfast Court) | Theme 7.2 | CABM Shiksha Sadan | 8 | Workshop 1.1 | CABM Shiksha Sadan | - | Workshop 1.2 | CABM Shiksha Sadan | offee | Lecture-2 | (Youth | - E | 5 |
| 2/2 | 불법 | | | offee | Theme 8.1 | CABM Basement | Lunch | Theme 8.2 | CABM Basement | 6 | Main Venue (Dr. T. Mohapatra, | United for | 봅 | Dinner |
| 10 | Brea (Food I | Symposia 1.2 | COA Conf Hall | 19 | Symposia3.1 | COA Conf Hall | | Symposia3.2 | COA Conf Hall | Tea/ | Chairperson, | Visionary | Cultural P | |
| (2) | 0 | Symposia 5 | COCSc Con Hall | Tea | Symposia 6.1 | COCSc Con Hall | | Symposia 6.2 | COCSc Con Hall | - | PPVFRA) | Agriculture) | 3 | |
| | | Poster T-1,2,3 | Main Venue | | Poster T-4,5 | Main Venue | | Poster T-6,7 | Main Venue | | | | | |
| | | | | | | | | Job Fair | CABM EDP | | | | | |
| | | Start-up Track | Conf. Hall Comm Room N | ICT | | | | | | | | | | |
| | | Inter-Universit | y Student Elocution Cont | t est PCF | PGR | | | | | | | | | |

Panel Discussion 4

CABM Basement

| | 08:00- | 09:00-11: | 00 | 11:00- | 11:30-12:00 | 12:00-14:00 | 14:00- | 15:00 Onwards |
|----------------------------------|------------------|------------------------------|------------------------|-----------|---------------------|---------------------|--------|------------------|
| y) | 09:00 | Theme | Venue | 11:30 | | | 15:00 | |
| Day 3 (22/02/2025) (Saturday) | | Symposia 2 | CABM Shiksha Sadan | L | | | | |
| Satu | | Panel Discussion 1 | MS Conf Hall 1 | xhibition | | | | |
| y 3 5) (; | Irt) st | Panel Discussion 3 | MS Conf Hall 2 | ĥi | | | | |
| Da 1021 | 훈급 | Panel Discussion 5 | MS Conf Hall 3 | 8 | iteracti ntation | Valedictory & Award | 넙 | Exhibition Visit |
| 12/2 | Breal (Food 1 | Symposia 4 | CABM MDP Hall | offee | y In esei | Distribution | Ē | |
| 2/0 | ш Е | Industry Academia Interface | MDP Hall | C et | Pr Ist | | | |
| (2 | | Poster T-8, 9, 10 | Main Venue | Tea/ | 별 | | | |
| | | Farmer-Scientist Interaction | Ratan Singh Auditorium | | | | | |

Layout of XVII ASC-2025





Frontier Sciences and Technologies in Agriculture for Developed India

Frontier Sciences and Technologies in Agriculture for Developed India

being organized by

National Academy of Agricultural Sciences, New Delhi Govind Ballabh Pant University of Agriculture and Technology, Pantnagar

Tentative Programme

Plenary Lectures

| Lecture | Speaker | Chair | Convener | Date, Time& Venue |
|--|--|---|--|---|
| Presidential Address | Dr. H. Pathak President, NAAS | Prof. R.B. Singh Former President, NAAS | Dr. W.S. Lakra Secretary, NAAS | February 20, 2025 (12:30-13:15) Main Venue |
| Dr. Varghese Kurian Memorial Lecture | Dr. Meenesh Shah Chairman, National Dairy Development Board, Anand | Dr. R.S. Paroda Chairman, TAAS | Dr. Seema Jaggi ADG (HRD) | February 20, 2025 (14:15-15:00) Main Venue |
| Dr. A.B. Joshi Memorial Lecture | Dr. P.L. Gautam Former Chairperson, PPV&FRA | Dr. Panjab Singh Former President, NAAS | Dr. Ashok K. Singh Secretary, NAAS | February 20, 2025 (17:30-18:15) Main Venue |
| Plenary Lectures | | | | |
| Plenary Lecture-1 | Dr. Mark Smith Director General, International Water Management Institute, Colombo | Dr. H. Pathak Director General, ICAR | Dr. D.K. Yadava Deputy Director General (Crops), ICAR | February 20, 2025 (18:15-19:00) |
| Plenary Lecture-2 | Dr. Trilochan Mohapatra Chairperson, PPVFRA | Dr. Mangala Rai Former President, NAAS | Dr. Anjani Kumar NAAS EC-Member | February 21, 2025 (17:00-17:45) |



Frontier Sciences and Technologies in Agriculture for Developed India

| Theme | Агеа | Theme Convener | Na. of Sessions |
|----------|---|--|--------------------|
| Theme 1 | Next Frontiers for Climate Change Science | Dr. B. Venkateswarlu Former VC, VNMKV | 1 |
| Theme 2 | Frontier Innovations & Technologies for Crop Improvement | Dr. D.K. Yadava DDG (Crops), ICAR | 2 |
| Theme 3 | Livestock Smart Framing | Dr. Abhijit Mitra Animal Husbandry Commissioner | 2 |
| Theme 4 | Precision Horticulture Farming | Dr. T.K. Behera Director, ICAR-IIHR | 2 |
| Theme 5 | Blue Revolution: Harnessing Science and Technology | Dr. A. Gopalakrishnan Former Director, ICAR-CMFRI, Kochi | 2 |
| Theme 6 | Next Generation Management Options for Emerging Pests and Diseases | Dr. P.K. Chakraborty Former Member, ASRB | 2 |
| Theme 7 | Frontier Sciences and Technologies for Sustainable Soil and Water Management | Dr. Biswapati Mandal Professor, BCKV, Kalyani | 2 |
| Theme 8 | Digital Agriculture | Dr. Rajender Prasad Director, ICAR-IASRI, New Delhi | 2 |
| Theme 9 | Advances in Farm Mechanization &Agro-food Processing | Dr. S.N. Jha DDG (Ag Engg), ICAR | 2 |
| Theme 10 | Innovations in Policies and Institutions | Dr. P.S. Birthal Director, ICAR-NIAP, New Delhi | 1 |

Themes & Theme Convenors



Frontier Sciences and Technologies in Agriculture for Developed India

Detailed Programme

Theme 1: Next Frontiers for Climate Change Science

Theme Convener: Dr. B. Venkateswarlu Former Vice Chancellor Vasantrao Naik Marathwada Krishi Vidyapeeth Parbhani, Maharashtra

> Date: February 20, 2025 Time: 15:00-17:00 hrs. Venue: CABM-MDP Hall

Technical Session: Next Frontiers for Climate Change Science

| Co-Chair I: Co-Chair I: Dr. NK. Tyagi Dr. VK. Singh Former Member, ASRB Director, CRIDA, Hyderabad Rapporteur I: Rapporteur II: Dr. SK. Guru, Dr. Gurdeep Bains Professor B Head, Plant Physiology, GBPUAT, Pantnagar Professor, Plant Physiology, GBPUAT, Pantnagar Speaker Topics Duration Dr. Krishna Mirle Achutarao Keynote Lecture: Current Understanding of Professor B Head, Duration Centre for Atmospheric Sciences. Synthesis of the Model Dutputs 20 min India Institute of Technology. New Delhi V V Dr. F.K Aggarwal Invited Lecture: Climate Change and Opportunities 18 min Regional Program Director (South Asia), BISA, CYMMIT India Role of Agriculture and Allied Sectors 18 min Dr. K. Sinhwase Rao Invited Lecture: Climate Change and Water 18 min Professor, Climate Change and Water Lab, Indian Institute of Technology, Eandhinagar, Ahmedabad Invited Lecture: Climate Change and Water Professor, Singh, E.B. Part University of Agriculture & Technology Pantnagar Sciences of Organic Earning: Boasting Productivity and Climate Exacerbates Pink Bollworm 6 min B.B. Part University of Agriculture & Technology Pantnagar Diecresite Gran | | | |
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| Former Member, ASRB Director, CRIDA, Hyderabad Rapporteur I: Dr, SK, Guru, Professor & Head, Plant Physiology, GBPUAT, Pantnagar Rapporteur II: Dr. Survice Bains Professor, Plant Physiology, GBPUAT, Pantnagar Duration Dr. Krishna Mirle Achutarao Keynote Lecture: Current Understanding of Climate Change Trends in Indian Subcontinent - A Synthesis of the Model Outputs Duration Dr. P.K. Aggarwal New Delhi Invited Lecture: Climate-Resilient Agriculture in the Global South: Challenges and Opportunities 18 min Dr. P.K. Aggarwal Regional Program Director (South Asia), BISA, CYMMIT India office, NASC, New Delhi Invited Lecture: Climate-Resilient Agriculture in the Global South: Challenges and Opportunities 18 min Director, ICAR-IARI, New Delhi Invited Lecture: Climate Change and Water Lab, Indian Institute of Technology, Gandhinagar, Ahmedabad Invited Lecture: Climate Change and Water Resources in India: Understanding the Impacts and Innovative Coping Solutions 18 min Dr. S. Rathore, Head, Division of Agronomy, ICAR-IARI New Delhi Diversified Farming, A Climate Smart Agronomic Intervention to Sustain Agri -Food Systems in India Under Changing Climate Canditions 6 min Dr. S. Nathare, (Uttarakhand), India Do Changing Climate Exacerbates Pink Bollworm Damage in Bt Transgenic Cuttors in India? 6 min | Co-Chair I: | Co-Chair II: | |
| Rapporteur I: Dr. S.K. Guru, Professor & Head, Plant Physiology, GBPUAT, PantnagarRapporteur II: Dr. Gurdeep Bains Professor, Plant Physiology, GBPUAT, PantnagarSpeakerTopicsOurationDr. Krishna Mirle Achutarao Professor & Head, Centre for Atmospheric Sciences, Indian Institute of Technology, New DelhiInvited Lecture: Current Understanding of Synthesis of the Model Dutputs20 minDr. P.K. Aggarwal Regional Program Director (South Asia), BISA, CYMMIT India affice, NASC. New DelhiInvited Lecture: Climate-Resilient Agriculture in the Global South: Challenges and Opportunities18 minDr. P.K. Aggarwal Regional Program Director (South Asia), BISA, CYMMIT Director, ICAR-IARI, New DelhiInvited Lecture: Climate Change and Opportunities18 minDr. Ch. Srinivasa Rao Director, ICAR-IARI, New DelhiInvited Lecture: Climate Change and Water Resources in India: Understanding the Impacts and Innovative Coping Solutions18 minDr. SS Rathore, Head, Division of Agronomy, ICAR-IARI New DelhiDiversified Farming, A Climate Smart Agronomic Intervention to Sustain Agri -Fond Systems in India Under Changing Climate Conditions6 minDr. S. Stathore, Head, Division of Agronomy, ICAR-IARI New DelhiDiversified Farming, A Climate Smart Agronomic Intervention to Sustain Agri -Fond Systems in India Under Changing Climate Exacerbates Pink Bollworm Damage in Bt Transgenic Cottons in India?6 minDr. Strikekshni Ultarakhand), IndiaDo Changing Climate Exacerbates Pink Bollworm Damage in Bt Transgenic Cottons in India?6 min | Dr. N.K. Tyagi | Dr. V.K. Singh | |
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| Dr. Ch. Srinivasa Rao Director, ICAR-IARI, New DelhiInvited Lecture: Achieving Net Zero Emission Targets in India: Role of Agriculture and Allied Sectors18 minDr. Vimal Mishra Professor, Climate Change and Water Lab, Indian Institute of Technology, Gandhinagar, AhmedabadInvited Lecture: Climate Change and Water Resources in India: Understanding the Impacts and Innovative Coping Solutions18 minDr. SS Rathore, Head, Division of Agronomy, ICAR-IARI New DelhiDiversified Farming, A Climate Smart Agronomic Intervention to Sustain Agri –Food Systems in India Under Changing Climate Conditions6 minDr. D.K. Singh, G.B. Pant University of Agriculture & Technology Pantnagar (Uttarakhand), IndiaSciences of Organic Farming: Boosting Productivity and Climate Resilience6 minDr. Shrilakshmi University of Agricultural Sciences, Dharwad, KarnatakaDo Changing Climate Exacerbates Pink Bollworm Damage in Bt Transgenic Cottons in India?6 minDiscussionIS minIS min | Regional Program Director (South Asia), BISA, CYMMIT | the Global South: Challenges and Opportunities | |
| Director, ICAR-IARI, New DelhiTargets in India: Role of Agriculture and Allied SectorsDr. Vimal MishraInvited Lecture: Climate Change and Water18 minProfessor, Climate Change and Water Lab, Indian Institute of Technology, Gandhinagar, AhmedabadInvited Lecture: Climate Change and Water18 minDr. SS Rathore, Head, Division of Agronomy, ICAR-IARI New DelhiDiversified Farming, A Climate Smart Agronomic Intervention to Sustain Agri –Food Systems in India Under Changing Climate Conditions6 minDr. SK. Singh, G.B. Pant University of Agriculture & Technology Pantnagar (Uttarakhand), IndiaSciences of Organic Farming: Boosting Productivity and Climate Resilience6 minDr. Shrilakshmi University of Agricultural Sciences, Dharwad, KarnatakaDo Changing Climate Exacerbates Pink Bollworm Damage in Bt Transgenic Cottons in India?6 minDiscussionI5 min | India office, NASC. New Delhi | | |
| SectorsDr. Vimal MishraInvited Lecture: Climate Change and Water18 minProfessor, Climate Change and Water Lab, Indian Institute of Technology, Gandhinagar, AhmedabadInvited Lecture: Climate Change and Water18 minDral PresentationsResources in India; Understanding the Impacts and Innovative Coping Solutions6 minDr. SS Rathore, Head, Division of Agronomy, ICAR-IARI New DelhiDiversified Farming, A Climate Smart Agronomic Intervention to Sustain Agri –Food Systems in India Under Changing Climate Conditions6 minDr. D.K. Singh, G.B. Pant University of Agriculture & Technology Pantnagar (Uttarakhand), IndiaSciences of Organic Farming: Boosting Productivity and Climate Resilience6 minDr. Shrilakshmi University of Agricultural Sciences, Dharwad, KarnatakaDo Changing Climate Exacerbates Pink Bollworm Damage in Bt Transgenic Cottons in India?6 minDiscussionI5 min | Dr. Ch. Srinivasa Rao | Invited Lecture: Achieving Net Zero Emission | 18 min |
| Dr. Vimal MishraInvited Lecture: Climate Change and Water18 minProfessor, Climate Change and Water Lab, Indian Institute of Technology, Gandhinagar, AhmedabadInvited Lecture: Climate Change and Water18 minDral PresentationsInvovative Coping SolutionsInvited Lecture: Climate Change and Water18 minDr. SS Rathore,Diversified Farming, A Climate Smart Agronomic Intervention to Sustain Agri – Food Systems in India Under Changing Climate Conditions6 minDr. D.K. Singh, G.B. Pant University of Agriculture & Technology Pantnagar (Uttarakhand), IndiaSciences of Organic Farming: Boosting Productivity and Climate Resilience6 minDr. Shrilakshmi University of Agricultural Sciences, Dharwad, KarnatakaDo Changing Climate Exacerbates Pink Bollworm Damage in Bt Transgenic Cottons in India?6 minDiscussionI5 min | Director, ICAR-IARI, New Delhi | 5 | |
| Professor, Climate Change and Water Lab, Indian Institute of Technology, Gandhinagar, AhmedabadResources in India; Understanding the Impacts and Innovative Coping SolutionsDral PresentationsDiversified Farming, A Climate Smart Agronomic Intervention to Sustain Agri –Food Systems in India Under Changing Climate Conditions6 minDr. SS Rathore, Head, Division of Agronomy, ICAR-IARI New DelhiDiversified Farming, A Climate Smart Agronomic Intervention to Sustain Agri –Food Systems in India Under Changing Climate Conditions6 minDr. D.K. Singh, G.B. Pant University of Agriculture & Technology Pantnagar (Uttarakhand), IndiaSciences of Organic Farming: Boosting Productivity and Climate Resilience6 minDr. Shrilakshmi University of Agricultural Sciences, Dharwad, KarnatakaDo Changing Climate Exacerbates Pink Bollworm Damage in Bt Transgenic Cottons in India?6 minDiscussionIs minIs minIs min | | | |
| of Technology, Gandhinagar, AhmedabadInnovative Coping SolutionsOral PresentationsDiversified Farming, A Climate Smart Agronomic Intervention to Sustain Agri – Food Systems in India Under Changing Climate Conditions6 minDr. D.K. Singh, G.B. Pant University of Agriculture & Technology Pantnagar (Uttarakhand), IndiaSciences of Organic Farming: Boosting Productivity and Climate Resilience6 minDr. Shrilakshmi University of Agricultural Sciences, Dharwad, KarnatakaDo Changing Climate Exacerbates Pink Bollworm Damage in Bt Transgenic Cottons in India?6 minDiscussionI15 min | | Invited Lecture: Climate Change and Water | 18 min |
| Oral PresentationsDr. SS Rathore, Head, Division of Agronomy, ICAR-IARI New DelhiDiversified Farming, A Climate Smart Agronomic Intervention to Sustain Agri –Food Systems in India Under Changing Climate Conditions6 minDr. D.K. Singh, G.B. Pant University of Agriculture & Technology Pantnagar (Uttarakhand), IndiaSciences of Organic Farming: Boosting Productivity and Climate Resilience6 minDr. Shrilakshmi University of Agricultural Sciences, Dharwad, KarnatakaDo Changing Climate Exacerbates Pink Bollworm Damage in Bt Transgenic Cottons in India?6 minDiscussion15 min | | | |
| Dr. SS Rathore, Head, Division of Agronomy, ICAR-IARI New DelhiDiversified Farming, A Climate Smart Agronomic Intervention to Sustain Agri – Food Systems in India Under Changing Climate Conditions6 minDr. D.K. Singh, G.B. Pant University of Agriculture & Technology Pantnagar (Uttarakhand), IndiaSciences of Organic Farming: Boosting Productivity and Climate Resilience6 minDr. Shrilakshmi University of Agricultural Sciences, Dharwad, KarnatakaDo Changing Climate Exacerbates Pink Bollworm Damage in Bt Transgenic Cottons in India?6 minDiscussion15 min | | Innovative Coping Solutions | |
| Head, Division of Agronomy, ICAR-IARI New Delhi Intervention to Sustain Agri – Food Systems in India Under Changing Climate Conditions Dr. D.K. Singh, G.B. Pant University of Agriculture & Technology Pantnagar (Uttarakhand), India Sciences of Organic Farming: Boosting Productivity and Climate Resilience 6 min Dr. Shrilakshmi University of Agricultural Sciences, Dharwad, Karnataka Do Changing Climate Exacerbates Pink Bollworm Damage in Bt Transgenic Cottons in India? 6 min | Oral Presentations | | |
| India Under Changing Climate Conditions Dr. D.K. Singh, Sciences of Organic Farming: Boosting 6 min G.B. Pant University of Agriculture & Technology Pantnagar Productivity and Climate Resilience 6 Uttarakhand), India Do Changing Climate Exacerbates Pink Bollworm 6 min University of Agricultural Sciences, Dharwad, Karnataka Do Changing Climate Exacerbates Pink Bollworm 6 min Discussion 15 min | Dr. SS Rathore, | 5 5 | 6 min |
| Dr. D.K. Singh, G.B. Pant University of Agriculture & Technology Pantnagar (Uttarakhand), IndiaSciences of Organic Farming: Boosting Productivity and Climate Resilience6 minDr. Shrilakshmi University of Agricultural Sciences, Dharwad, KarnatakaDo Changing Climate Exacerbates Pink Bollworm Damage in Bt Transgenic Cottons in India?6 minDiscussion15 min | Head, Division of Agronomy, ICAR-IARI New Delhi | | |
| G.B. Pant University of Agriculture & Technology Pantnagar (Uttarakhand), India Productivity and Climate Resilience Dr. Shrilakshmi University of Agricultural Sciences, Dharwad, Karnataka Do Changing Climate Exacerbates Pink Bollworm 6 min Discussion I5 min | | India Under Changing Climate Conditions | |
| G.B. Pant University of Agriculture & Technology Pantnagar (Uttarakhand), India Productivity and Climate Resilience Dr. Shrilakshmi University of Agricultural Sciences, Dharwad, Karnataka Do Changing Climate Exacerbates Pink Bollworm Damage in Bt Transgenic Cottons in India? Discussion 15 min | Dr. D.K. Singh, | Sciences of Organic Farming: Boosting | 6 min |
| (Uttarakhand), India Dr. Shrilakshmi Do Changing Climate Exacerbates Pink Bollworm 6 min University of Agricultural Sciences, Dharwad, Karnataka Damage in Bt Transgenic Cottons in India? 15 min | | | |
| University of Agricultural Sciences, Dharwad, Karnataka Damage in Bt Transgenic Cottons in India? Discussion 15 min | | | |
| Discussion 15 min | Dr. Shrilakshmi | Do Changing Climate Exacerbates Pink Bollworm | 6 min |
| Discussion 15 min | University of Agricultural Sciences, Dharwad, Karnataka | Damage in Bt Transgenic Cottons in India? | |
| Co-chairs Remarks 10 min | | - | 15 min |
| | Co-chairs Remarks | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Theme 2: Frontier Innovations & Technologies for Crop Improvement

Theme Convener Dr. D.K. Yadava Deputy Director General (Crops) Indian Council of Agricultural Research New Delhi

> Date: February 21, 2025 Time: 09:00-11:00 hrs. Venue: CABM-MDP Hall

Technical Session-1: Genetic Enhancement of Crops for Climate Resilience and Nutrition

| Session Coordinator: Dr. H.K. Dikshit, Principal Scientist, | ICAR-IARI, New Delhi | |
|---|---|----------|
| Co-Chair I: | Co-Chair II: | |
| Dr. Sanjay Kumar | Dr. T.R. Sharma | |
| Chairman, | Former Deputy Director General (Crop Science) | |
| Agricultural Scientists Recruitment Board | Indian Council of Agricultural Research | |
| Rapporteur I: | Rapporteur II: | |
| Dr. Vignesh M. | Dr. Prolay Bhowmick | |
| Senior Scientist, ICAR-IARI, New Delhi | Scientist (Senior Scientist), OCAR-IARI, New Delhi | |
| Speaker | Topics | Duration |
| Dr. O.P. Yadav | Keynote Lecture: Genetic Gains in Food Crops and | 20 min |
| Director | Future Opportunities | |
| ICAR-CAZRI, Jodhpur | | |
| Dr. R.M. Sundaram | Invited Lecture: Breeding Climate Smart Rice | 18 min |
| Director, | Varieties: Progress and Prospects | |
| ICAR-IIRR, Hyderabad | | |
| Dr. Shiv Kumar Agarwal | Invited Lecture: Breeding Options for | 18 min |
| Head of the Food Legume Research Platform (FLRP) of | Transforming India as Self-sufficient in Pulse | |
| ICARDA and Regional Coordinator, ICARDA South Asia and | Production | |
| China Regional Program | | |
| Dr. Firoz Hossain | Invited Lecture: Crop Biofortification: A Potential | 18 min |
| Principal Scientist | Tool for Alleviating Malnutrition | |
| ICAR-IARI, New Delhi | | |
| Oral Presentations | | |
| Dr. S.K. Luthra, ICAR – Central Potato Research Institute, | Potato Breeding for food and Nutritional Security | 06 min |
| Regional Station, Modipuram, Meerut. | in India | |
| Anindita Barua, | RNA Interference: A Sustainable Frontier for Biotic | 06 min |
| IARI, New Delhi, Pusa Campus | Stress Resistance in the Era of Crispr | |
| Dr. Sharat Prabhakaran | Genome- Wide Association Analysis to Identify Key | 06 min |
| Department of Molecular Biology and Genetic Engineering, | Candidate Genes Regulating Mineral Content (Iron, | |
| CBSH, G.B. Pant University of Agriculture and Technology, | Zinc, Calcium and Magnesium) Accumulation in | |
| Pantnagar. | Grain Amaranth (Amaranthus Hypochondriacus) | |
| | Using Genotyping -By - Sequencing | |
| Discussion | | 15 min |
| Co-chairs Remarks | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Theme 2: Frontier Innovations & Technologies for Crop Improvement

Theme Convener Dr. D.K. Yadava Deputy Director General (Crops) Indian Council of Agricultural Research New Delhi

> Date: February 21, 2025 Time: 11:30-13:30 hrs. Venue: CABM-MDP Hall

Technical Session-2: Genomics to Enhance Crop Production towards Food Security

| Session Coordinator: Dr. S. Gopala Krishnan, Principal S | cientist, ICAR-IARI, New Delhi | |
|--|---|----------|
| Co-Chair I: | Co-Chair II: | |
| Dr. Jeet Singh Sandhu | Dr. Swapan Kumar Datta | |
| Former DDG (Crop Science), ICAR | Former DDG (Crop Science) | |
| Rapporteur I: | Rapporteur II: | |
| Dr. I.D. Pandey | Dr. Ratna Prabha | |
| Professor, Genetics and Plant Breeding, GBPUAT, | Scientist (S.S), ICAR-IARI, New Delhi | |
| Pantnagar | | |
| Speaker | Topics | Duration |
| Prof. Rajeev K. Varshney | Keynote Lecture: Genomics and its Relevance to | 20 min |
| International Chair in Agriculture &Food Security, Murdoch | Food Secure Society | |
| University | | |
| Dr. N.K. Singh | Invited Lecture: Landraces and Wild Relatives of | 18 min |
| National Professor B.P. Pal Chair, | Crops: A Reservoir of Useful Genes | |
| NRC on Plant Biotechnology, IARI, | | |
| New Delhi | | |
| Dr. C. Viswanathan | Invited Lecture: Indian Initiative on Genome | 18 min |
| Joint-Director (Research) | Editing in Crops: Status and Prospects | |
| ICAR-Indian Agricultural Research Institute, New Delhi | | |
| Dr. Swarup Kumar Parida | Invited Lecture: Next-generation Translational | 18 min |
| Staff Scientist IV, | Genomics for Developing Climate- and Nutrition- | |
| National Institute of Plant Genome Research, New Delhi | smart Chickpea | |
| Oral Presentations | | |
| Dr. Usha Pant | Harnessing Interspecific Hybridization in Brassica: | 6 min |
| Dept of Genetics and Plant Breeding | Pre – Fertilization Barrier Study in Interspecific | |
| GBPUAT, Pantnagar. | Hybrids of Di – and Allogenomic Brassica Species | |
| Dr. Kuldeep Chandra Verma | Advancing Crop Improvement: Application of Υ – | 6 min |
| Department of Biochemistry, CBSH, GBPUAT, Pantnagar | Radiation's in Buckwheat for Optimizing | |
| | Phytoconstituents and Reducing Allergens for Safe | |
| | Consumption | |
| Dr. Visalakshi Chandra | Strategic Genotype Selection in Cassava for | 6 min |
| ICAR-Central Tuber Crops Research Institute. | Agronomic Traits and Postharvest Physiological | |
| | Deterioration Tolerance: Harnessing Gyt Biplots | |
| | for Multi – Trait Optimization over Growing | |
| . | Seasons | 15 |
| Discussion | | 15 min |
| Co-chairs Remarks | | 10 min |

Theme 3: Livestock Smart Farming



Frontier Sciences and Technologies in Agriculture for Developed India

| Theme Convener | | |
|---|---|--------------|
| Dr. Abhijit Mitra | | |
| Animal Husbandry Commissioner | | |
| DAHD, MaFAHD, New Delhi | D + C | 00 0000 |
| | Date: Februa | |
| | | 0-17:00 hrs. |
| | Venue: Ratan Singl | 1 Auditorium |
| Technical Session-1: Precision Livestock Farming | | |
| Session Coordinator: Dr. S.P. Kimothi, Member, Agricultu | | |
| Session Co-coordinator: Dr. A. Sahoo, Director, NIANP, B | | |
| Co-Chair I: | Co-Chair II: | |
| Dr. K.M.L. Bujarbaruah | Dr. Dheer Singh | |
| Former DDG (AS) & Former Vice Chancellor, AAU, Khanapra, | Director, ICAR-NDRI, Karnal | |
| Assam | | |
| Rapporteur I: | Rapporteur II: | |
| Dr. Manjit Panigrahi | Dr. Gopal Gowane | |
| Senior Scientist, Animal Genetics, ICAR-IVRI, Izatnagar | Principal Scientist AGB, ICAR-NDRI, Karnal | |
| Speaker | Topics | Duration |
| Dr. Raghavendra Bhatta | Keynote Lecture: Harnessing Smart Technologies | 20 min |
| Deputy Director General (Animal Science) | for Sustainable Growth in the Indian Livestock | |
| Indian Council of Agricultural Research | Sector | |
| Dr. Ashok Pattanyak | Invited Lecture: Achieving Production | 15 min |
| Head, Research & Development (Animal Feeds), Godrej | Sustainability through Précised Feeding and Water | |
| Agrovet Limited, Nasik, Maharashtra | Resource Management | |
| Dr. Raphael Mrode | Invited Lecture: Application of Genomics for | 15 min |
| Principal Scientist | Efficient and Sustainable Dairy Productivity in | |
| Quantitative Genetics, ILRI-Nairobi | Developing Countries | |
| Dr. Ashishkumar Khose | Invited Lecture: Leveraging IoT and AI for Data- | 15 min |
| Associate Director, Technology Solutions, MSD AH (Industry) | Driven Decision Making in Livestock Management | |
| Dr. Vikas Vohra | Invited Lecture: Climate Smart livestock Farming: | 15 min |
| HEAD (AG&B) | Enhancing Environmental Control and Harnessing | |
| ICAR-National Dairy Research Institute, Karnal | Indigenous Breed Resilience | |
| Oral Presentations | | |
| Dr. Naresh L. Selokar | Buffalo Cloning and Genome Editing: Ways to | 6 min |
| ICAR-National Dairy Research Institute, Karnal | Improve Production Traits | |
| Dr. Deeksha Singh | Prevalence, Risk Factors and Clinical Implications of | 6 min |
| Department of Veterinary Medicine, College of Veterinary | Rickets in Dogs: A Comprehensive Study on | |
| and Animal Sciences GBPUAT, Pantnagar, U.S. Nagar, | Nutritional Deficiencies and Skeletal Health | |
| Uttarakhand S | | |
| Dr. Shikhakrati Negi | IVRI Swine SHRIA: An Al-Driven Conversational | 6 min |
| ICAR- Indian Veterinary Research Institute, Izzatnagar, | Chatbot for Scientific Swine Management | |
| Bareilly, Uttar Pradesh | - | |
| Discussion | | 10 min |
| Co-chairs Remarks | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

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| Theme 3: | iventeek | Cmont | Conmina |
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Theme Convener Dr. Abhijit Mitra Animal Husbandry Commissioner DAHD, MoFAHD, New Delhi

> Date: February 21, 2025 Time: 09:00-11:00 hrs. Venue: Ratan Singh Auditorium

| Technical Session-2: Climate-Smart Livestock Farming | | |
|--|--|----------|
| Session Coordinator: Dr. Ashok Mohanty, Director, ICAR | - Central Institute for Research on Cattle | |
| Co-Chair I: | Co-Chair II: | |
| Prof. A.K. Srivastava | Prof. K.M.L. Pathak | |
| Vice Chancellor, DUVASU, Mathura | Former VC, DUVASU, Mathura | |
| Rapporteur I: | Rapporteur II: | |
| Dr. A.K. Samanta | Dr. Amit Kumar | |
| Head, Animal Nutrition, ICAR-NDRI, Karnal | Pr. Scientist, Animal Genetics, ICAR-IVRI, Izatnagar | |
| Speaker | Topics | Duration |
| Dr. Ashok Kumar Balhara | Invited Lecture: Climate-Smart Livestock | 18 min |
| Principal Scientist | Farming: Enhancing Environmental Control and | |
| Stress Physiology & Climatology Lab, | Harnessing Indigenous Breeds for Resilience | |
| ICAR- Central Institute for Research on Buffaloes, Hisar | | |
| Dr. B.M. Naveena | Invited Lecture: Post Production Revolution in | 18 min |
| Principal Scientist, ICAR-NMRI, Hyderabad | Livestock: Leveraging Smart Farming Technologies | |
| Oral Presentations | | |
| Dr. Sonhanvir | Infra-red Thermography: Potential Non-Invasive | 6 min |
| NDRI Karnal | Tool to Assess the Semen Quality of Bovines under | |
| | Changing Climate | |
| Dr. Indu Devi | Development Of Deep Learning Based Computer | 6 min |
| Baif Development Research Foundation | Vision Based System for Automated Appraisal of | |
| | Phenotypic and Conformation Traits in Cattle | |
| Dr. Suresh Kumar | Optimization of Insemination Strategies for Use of | 6 min |
| ICAR - Central Institute for Research on Cattle, | Sex Sorted Semen in Indian Field Conditions | |
| Grass Farm Road, Meerut | | |
| Discussion | | 15 min |
| Co-chairs Remarks | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Theme 4: Precision Horticulture Farming

Theme Convener Dr. T.K. Behera Director ICAR-Indian Institute of Horticultural Research Bengaluru

Date: February 20, 2025 Time: 15:00-17:00 hrs. Venue: MS-Conf. Hall-2

Technical Session-1: Precision Management of Horticultural Crops

| Session Coordinator: Dr. T.K. Behera, Director, ICAR-II | HR, Benoaluru | |
|---|---|----------|
| Co-Chair I: | Co-Chair II: | |
| Dr. Bijendra Singh | Dr. V.B. Patel | |
| Vice Chancellor, ANDUA&T, Ayodhya | ADG Horticulture, ICAR | |
| Rapporteur I: | Rapporteur II: | |
| Dr. S.S. Dey | Dr. Sridhar Gutam | |
| Principal Scientist, Vegetable Science, IARI, New Delhi | ICAR-IIHR, Bengaluru | |
| Speaker | Topics | Duration |
| Dr. S.D. Gorantiwar | Keynote Lecture: Precision Management of | 20 min |
| Former Director Research, | Horticultural Crops | |
| MPKV, Rahuri | | |
| Dr. Jagdish Rane | Invited Lecture: Phenomics in Horticulture | 18 min |
| Director, | | |
| ICAR-Central Institute for Arid Horticulture, Bikaner | | |
| Dr. G. Syamasundar Reddy | Invited Lecture: Orchard Health Monitoring with | 18 min |
| Chief Executive Officer, | Help of UAVs: A CASE Study of Fruit Crops | |
| Samhitha Crop Care Clinics, Hyderabad | | |
| Mr. Krishna Kumar | Invited Lecture: Digitalizing Farms for the Future: | 18 min |
| Founder & CEO at Cropin, | Enhancing Resilience in a Climate-Impacted World | |
| Bengaluru, Karnataka | | |
| Oral Presentations | | |
| Dr. Rajesh Kumar Singh | High-Tech Seed Production Tools and Technique: | 6 min |
| ICAR-CPRI RS, Modipuram, Meerut - 250 110 (UP) | Revolutionizing in Seed Potato Industry in India | |
| Dr. Selvakumar R | Phenotypic and Genotypic Screening of Tomato | 6 min |
| Centre for Protected Cultivation Technology, | Genotypes for Root-Knot Nematode Resistance | |
| ICAR-Indian Agricultural Research Institute, New Delhi | under Greenhouse Conditions for Grafting | |
| | Programmes | |
| Dr. Ashok Kumar Singh | Novel Mango Hybrids for Commercial Cultivation | 6 min |
| Dept of Horticulture, GBPUAT, Pantnagar | under Northern Region | |
| Discussion | | 15 min |
| Co-chairs Remarks | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Theme 4: Precision Horticulture Farming

Theme Convener Dr. T.K. Behera Director ICAR-Indian Institute of Horticultural Research Bengaluru

Date: February 21, 2025 Time: 09:00-11:00hrs. Venue: MS-Conf. Hall-1

Technical Session-2: Management of Horticultural Crops under Changing Climate

| Session Coordinator: Dr. Sudhakar Pandey, ADG, ICAR, N | ew Delhi | |
|--|---|----------|
| Co-Chair I: | Co-Chair II: | |
| Dr. H.P. Singh | Dr. Balraj Singh, | |
| Former DDG (Hort. Sci.), ICAR | Vice Chancellor, SKN Agriculture University, Jobner | |
| Rapporteur I: | Rapporteur II: | |
| Dr. Sudhir Kumar | Dr. D.C. Dimri | |
| ICAR-IARI, New Delhi | Professor & Head, Horticulture, GBPUAT, Pantnagar | |
| Speaker | Topics | Duration |
| Dr. Senthil Kumar Muthappa | Keynote Lecture: Designing of Climate Smart | 20 min |
| Scientist V, | Crops for Precision Horticulture | |
| National Institute for PGR, New Delhi | | |
| Dr. Balraj Singh, | Invited Lecture: Protected Cultivation in India: | 15 min |
| Vice Chancellor, | Present Status, Potential of Expansion, | |
| SKN Agriculture University, Jobner | Challenges and Solutions | |
| Shri D. Bala Shiva Prasath | Invited Lecture: Precision Farming in Floriculture | 15 min |
| Hosur, Tamil Nadu | _ | |
| Dr. V. Eyarkai Nambi | Invited Lecture: Application of AI & Blockchain | 15 min |
| Head, Controller of Examination, | Technology in Post Harvest Management of | |
| NIFTEM, Thanjavur | Horticultural Crops | |
| Dr. G. Senthil Kumaran | Invited Lecture: Precision Mechanics for | 15 min |
| Principal Scientist, | Horticulture Crop Production | |
| ICAR-Indian Institute of Horticultural Research, Bengaluru | | |
| Oral Presentations | | |
| Dr. Shweta Uniyal | Effect of Chitosan and Alginate Coatings Enriched | 5 min |
| Department of Horticulture | with Ascorbic Acid on Postharvest Quality of Plums | |
| GBPUAT, Pantnagar | during Low Temperature Storage | |
| Dr. Pooja | Standardization of Geometry for Potato Apical | 5 min |
| International Potato Center, NASC Complex, IARI Campus, | Rooted Cuttings (ARC) in Haryana | |
| New Delhi 110012, India | | |
| Ms Priti Smita Nayak | Phenotypic Variability among Vegetable Cluster | 5 min |
| Department of Horticulture, M S Swaminathan School of | bean Genotypes Using Shannon-Weiner Diversity | |
| Agriculture, Centurion University of Technology and | Index (H') | |
| Management, Odisha-761211, India. | | |
| Discussion | | 15 min |
| Co-chairs Remarks | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Theme 5: Blue Revolution: Harnessing Science and Technology

Theme Convener Dr. A. Gopalakrishnan **Former Director ICAR-Central Marine Fisheries Research Institute** Kochi, Kerala

> Date: February 20, 2025 Time: 15:00-17:00 hrs. Venue: MS-Conf. Hall-2

Technical Session-1: Future-Ready Fisheries and Aquaculture: Bridging Science and Development in India

| Session Coordinator: Dr. J.P. Bhatt, Former HoD, Zoology | /, HNB Garhwal, University | |
|---|---|----------|
| Co-Chair I: | Co-Chair II: | |
| Dr. W.S. Lakra | Dr. A.G. Ponniah | |
| Secretary, NAAS & Ex-VC, ICAR-CIFE | Former Director, CIBA, Chennai | |
| Rapporteur I: | Rapporteur II: | |
| Dr. Madhuri Pathak | Dr. Nityanand Pandey | |
| Scientist, ICAR-CIFE, Mumbai | Dean, College of Fisheries, DUVASU, Mathura | |
| Speaker | Topics | Duration |
| Dr. J.K. Jena | Keynote Lecture-1: Sustainable Aquaculture & | 15 min |
| Deputy Director General | Fishing Practices: A Key Driver of Food Security in | |
| (Fisheries Science), ICAR | the 21st Century | |
| Dr. A. Gopalakrishnan | Keynote Lecture-2: | 15 min |
| Former Director, | | |
| ICAR-CMFRI, Kochi | | |
| Dr. Krishna R. Salin | Invited Lecture: Aquaculture and Fisheries: | 10 min |
| Associate Professor and Program Chair, | Scientific Innovations for India's Future | |
| Aquaculture and Aquatic Resources Management, Asian | | |
| Institute of Technology, Thailand | | |
| Dr. Grinson George | Invited Lecture: Opportunities for Sustainable | 10 min |
| Director, | Fisheries & Aquaculture in a Warming World | |
| ICAR-Central Marine Fisheries Research Institute, Kochi | | |
| Dr. Pramod Kumar Pandey | Invited Lecture: Innovative Strategies in | 10 min |
| Director, | Coldwater Aquaculture: A Vision for India's Future | |
| ICAR-Directorate of Coldwater Fisheries Research, Bhimtal | | |
| Dr. N.K. Agarwal | Invited Lecture: Fish Diversity of Upper Ganga | 10 min |
| Head of Division, Zoology and Dean Science Faculty | River System: Conservation and Sustainable | |
| HNB Garhwal University, Garhwal | Development | |
| Prof. Prakash Nautiyal | Invited Lecture: Managing Mahseer Resources | 10 min |
| Professor, HNB Garhwal University | and Fisheries: A Global Perspective | |
| Oral Presentations | | |
| Dr. Sonmoina Bhuyan | Study on Compatibility of Red Bellied Pacu in A | 4 min |
| KVK Lakhimpur, Assam Agricultural University, Garumuria, | Carp Based Polyculture System and its Economic | |
| Lakhimpur, Assam | Impact in Pond Aquaculture in Assam, India | |
| Dr. Madhuri Pathak | In-situ Bioremediation and Enhancement of Shrimp | 4 min |
| Scientist, ICAR-CIFE, Mumbai | Production through Co-Culture of Gracilaria | |
| | foliifera (Forsskal) Borgeson, 1932 and Penaeus | |
| | vannamei (Boone, 1931) | |
| Dr. Atul Anand | Significance of Conservation of Golden Mahseer in | 4 min |
| Graphic Era Hill University, Dehradun | Blue Revolution of Uttarakhand | |

Frontier Sciences and Technologies in Agriculture for Developed India

| Dr. Ciji Alexander | A Cocktail of Micronutrients and Additives | 4 min | | |
|---|---|--------|--|--|
| ICAR-Directorate of Coldwater Fisheries Research, | Influence Sperm Quality Traits in Chocolate | | | |
| Bhimtal, Nainital | Mahseer, Neolissochilus Hexagonolepis | | | |
| Discussion | | 15 min | | |
| Co-chairs Remarks | | 10 min | | |
| Theme 5: Blue Revolution: Harnessing Science and Technology | | | | |

Theme Convener Dr. A. Gopalakrishnan Former Director ICAR-Central Marine Fisheries Research Institute Kochi, Kerala

> Date: February 21, 2025 Time: 09:00-11:00 hrs. Venue: MS-Conf. Hall-2

Technical Session-2: Emerging Challenges in Fish Genetics, Health & Nutrition

| Session Coordinator: | | |
|---|---|------------|
| Co-Chair I: | Co-Chair II: | |
| Dr. K.K. Vass | Dr. B.K. Das | |
| Ex-Director, CIFRI and DCFR | Director, ICAR-CIFRI, Kolkata | |
| Rapporteur I: | Rapporteur II: | |
| Dr. Pravata K. Pradhan | Prof. (Dr) Rachna Nautiyal | |
| Principal Scientist &HoD (E&AAH Division) | Principal, Shaheed Jagdish Prasad Purohit Governm | ent Degree |
| ICAR-NBFGR, Lucknow | College, Uttarakhand | |
| Speaker | Topics | Duration |
| Dr. Bijay Kumar Behera | Keynote Lecture: Recent development in Fish | 20 min |
| Chief Executive | Genetics and Biotechnology | |
| NFDB, Department of Fisheries, MoFAH&D, GOI, Hyderabad | | |
| Prof. Arun K. Dhar | Invited Lecture: Leveraging Technology for | 15 min |
| Professor and Director of Aquaculture Pathology | Genetic Improvement in Aquaculture Production | |
| Laboratory,The University of Arizona | | |
| Dr. Mukunda Goswami | Invited Lecture: Cultivated Sea Food: Potential | |
| Head of Division, Genetic and Biotechnology | and Challenges | |
| CAR - Central Institute of Fisheries Education, Mumbai | | |
| Dr. Ravinder Kumar | Invited Lecture: Fish Genomics in India: Status | |
| Principal Scientist, NBFGR, Karnal | and Prospects | |
| Dr. P.K. Sahoo | Invited Lecture: Integrative Approaches to Fish | 15 min |
| Director, | Health: Embracing the One Health Paradigm | |
| ICAR-CIFA, Bhubaneswar | | |
| Dr. K.K. Krishnani | Invited Lecture: Contaminants of Emerging | 15 min |
| Joint Director (Academic) | Concern: Unseen Health Hazards to Crops, | |
| ICAR-Indian Inst. of Agricultural Biotechnology, Ranchi | Livestock, Fish and Human | |
| Dr. J. Biju Sam Kamalam | Invited Lecture: | 15 min |
| Sr. Scientist | | |
| ICAR- Directorate of Coldwater Fisheries Research | | |
| Bhimtal, Uttarakhand | | |
| Oral Presentations | | 05 |
| Dr. Pabitra Kumar Saharia | Effect of Stocking Densities on Growth | 05 min |
| College of Fisheries, AAU, Raha, Nagaon | Performance on Indian Major Carps (IMC) in Short | |
| | Duration Fish Culture Technology | |

Frontier Sciences and Technologies in Agriculture for Developed India

| Ms Priyanka Rani | Evaluation of Sesame Oil Cake based Diet on | 05 min | | |
|---|---|--------|--|--|
| College of Fisheries | Growth Performance, Carcass Quality and Blood | | | |
| GBPUAT, Pantnagar | Biochemical Parameters of Grass Carp | | | |
| Ms. Ananya Khatei | Genomic Study Provides First Evidence of DNA | 05 min | | |
| ICAR-DCFR, Bhimtal, Uttarakhand -263136, India | Methylation Patterns in Phaeophycae | | | |
| Discussion | | 15 min | | |
| Co-chairs Remarks | | 10 min | | |
| Theme 6: Next Generation Management Options for Emerging Pests and Diseases | | | | |

Theme Convener Dr. P.K. Chakrabarty Former Member Agricultural Scientists Recruitment Board New Delhi

Date: February 20, 2025 Time: 15:00-17:00 hrs. Venue: MS-Conf. Hall-3

Technical Session-1: Next Generation Management Options for Emerging Pests and Diseases

| Session Coordinator: | | |
|---|---|----------|
| Co-Chair I: | Co-Chair II: | |
| Dr. A.N. Mukhopadhyay | Dr. Bushan L. Jalali | |
| Former VC, AAU | Ex Director of Research, HAU | |
| Rapporteur I: | Rapporteur II: | |
| Dr. Celia Chalam | Dr. Sujoy Saha | |
| Head, ICAAR-NBPGR, New Delhi | Pr. Scientist, ICAR-NRC-Grapes, Pune | |
| Speaker | Topics | Duration |
| Dr. C.D. Mayee | Keynote Lecture: Challenges and New | 20 min |
| Former Chairman, ASRB | Opportunities in Crop Protection in India | |
| Dr. P.K. Chakrabarty | Invited Lecture: Off-label Use of Pesticides- | 15 min |
| Former Member, ASRB | Harmonization of the MRLs | |
| Dr. S. Nakkeeran | Invited Lecture: Invasive Species Impact in | 15 min |
| Dean | Agriculture: Striking a Balance Between | |
| AC&RI, Tamil Nadu Agricultural University | Productivity, Biodiversity, and Ecosystem Health | |
| Dr. A.N. Mukhopadhyay | Invited Lecture: Trichoderma for Plant Disease | 15 min |
| Former VC, AAU | Management-A Gift of God for the Mankind | |
| Dr. M.K. Naik | Invited Lecture: One Health Approach to Address | 15 min |
| Former Vice Chancellor, KSNUAHS | Global Mycotoxin Risks for Food and Nutritional | |
| | Security | |
| Oral Presentations | | |
| Dr. Jonnada Likhita | Biochemical Characterization of Endophytic | 5 min |
| Rani Lakshmi Bai Central Agricultural University, Jhansi, | Bacteria Effective Against Soil Borne Diseases of | |
| Uttar Pradesh. 284003 | Chickpea | |
| Dr. Priya Garkoti | Leveraging the Potential of Zeanicaraguensis for | 5 min |
| G. B. Pant University of Agriculture & Technology, Pantnagar, | Stable Banded Leaf Sheath Blight Resistance in | |
| U.S. Nagar, Uttarakhand 263145 | Maize | |
| Dr. Ruchi Tripathi | Exploring the Silique to Seed Transmission, | 5 min |
| Department of Plant Pathology, College of Agriculture, G B | Implication of Temperature Regimes on Survival in | |
| Pant University of Agriculture and Technology, Pantnagar, | Seed and PCR based Detection Threshold | |
| U.S. Nagar | | |



| Frontier Sciences and Technologies in Agriculture for Developed India |
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| Establishment of Alternaria Brassicae in B. Juncea | |
|--|--------|
| Seed | |
| Discussion | 15 min |
| Co-chairs Remarks | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Theme 6: Next Generation Management Options for Emerging Pests and Diseases

Theme Convener Dr. P.K. Chakrabarty Former Member Agricultural Scientists Recruitment Board New Delhi

> Date: February 21, 2025 Time: 09:00-11:00 hrs. Venue:MS-Conf. Hall-3

Technical Session 2: Pests and Diseases Management under Changing Environmental Conditions

| Session Coordinator: | | |
|--|--|----------|
| Co-Chair I: | Co-Chair II: | |
| Dr. Serge Savary | Prof. Neena Mitter | |
| Honorary Professor | Deputy Vice Chancellor Research and Vice President | (Ag) |
| GBPUAT, Pantnagar | Charles Sturt University, NSW, Australia | |
| Rapporteur I: | Rapporteur II: | |
| Dr. Shailaba, | Dr. Rashmi Tiwari | |
| Professor, Plant Pathology, GBPUAT, Pantnagar | Assistant Professor, GBPUAT, Pantnagar | |
| Speaker | Topics | Duration |
| Dr. Mahavir Singh | Keynote Lecture: Addressing the Silent Threat of | 20 min |
| Department of Physiology, | Fungal Infections | |
| School of Medicine, USA | | |
| Prof. Neena Mitter | Invited Lecture: Innovation in Managing Pests and | 18 min |
| Deputy Vice Chancellor Research and Vice President (Ag) | Diseases of Crops – The RNA Story | |
| Charles Sturt University, NSW, Australia | | |
| Dr. Narinder Kumar Arora | Invited Lecture: Promotion of Natural Farming | 18 min |
| General Secretary, Governing Council | and its Negative Implications on Food and Feed | |
| KAKV Foundation, New Delhi | Security of India | |
| Dr. Laetitia Willocquet | Invited Lecture: Emerging Plant Disease: Risk | 18 min |
| Sr Scientist, INRAE-France | Factors and Risk Avoidance | |
| & Honourary Professor, GBPUAT, Pantnagar | | |
| Dr. Alok K. Srivastava | Invited Lecture: Microbiome Research a | 18 min |
| Director, ICAR-National Bureau of Agriculturally Important | Powerhouse to Usher in a New Era of Vibrant | |
| Microorganisms, Kushmaur | Agriculture | |
| Oral Presentations | | |
| Ms Riya Kundu | Synthesis and Bioactivity Assessment of Novel | 6 min |
| Division of Agricultural Chemicals, ICAR-Indian Agricultural | Indazolylchromones with Computational and | |
| Research Institute, New Delhi, India | Taxicity Insights. | |
| Mr Amit Bijlwan, | Deep Learning-Based Identification and | 6 min |
| Department of Agrometeorology | Classification of Rice Diseases and Insect Pests | |
| GBPUAT, Pantnagar | | |
| Dr. A. K. Tewari | Forecasting of Sclerotinia Stem Rot of Rapeseed- | 6 min |
| Department of Plant Pathology | Mustard Utilizing Petal Infestation and Predictive | |
| GBPUAT, Pantnagar | Models | |
| Discussion | | 15 min |
| Co-chairs Remarks | | 10 min |

Frontier Sciences and Technologies in Agriculture for Developed India

Theme 7: Frontier Sciences and Technologies for Sustainable Soil and Water Management

Theme Convener Dr. Biswapati Mandal Professor, Bidhan Chandra Krishi Viswavidyalaya Mohanpur, Nadia

> Date: February 20, 2025 Time: 15:00-17:00 hrs. Venue:CABM-Shiksha Sadan

Technical Session-1: Advances in Soil and Water Management for Conserving Natural Resources

| Session Coordinator: | | |
|---|--|----------|
| Co-Chair I: | Co-Chair II: | |
| Dr. Arvind Kumar | Dr. Anil K. Singh | |
| Former VC, RLBCAU, Jhansi | Former VC, RVSKVV, Gwalior | |
| Rapporteur I: | Rapporteur II: | |
| Dr. Krishna Saharan | Dr. Pradeep Singh Kahshyap | |
| Assistant Professor, Agricultural University, Jodhpur | Associate Professor | |
| | Soil and Water Conservation Engineering, GBPUAT, Pa | ntnagar |
| Speaker | Topics | Duration |
| Dr. S.K. Chaudhari | Keynote Lecture: India's Way Forward to | 20 min |
| Director General, | Sustainable Soil and Water Management | |
| The Fertiliser Association of India, New Delhi | | |
| Dr. D.K. Benbi | Invited Lecture: Advances in Soil Management for | 15 min |
| Former ICAR-National Professor, PAU | Posterity | |
| Dr. Ramesh Singh | Invited Lecture: Managing Land and Water | 15 min |
| Cluster Leader, ICRISAT | Resources for Sustainable Agricultural | |
| | Intensification and Diversification | |
| Dr. R.N. Sahoo | Invited Lecture: Embracing Sensing and AI in Soil | 15 min |
| Principal Scientist, Agril Physics, | and Water Management for Next-generation | |
| ICAR-Indian Agricultural Research Institute, New Delhi | Agriculture | |
| Dr. Sunita Varjani | Invited Lecture: From Contamination to | 15 min |
| Sr. Associate Professor, | Cultivation: Bioremediation Approaches for | |
| School of Engineering Jointly with School of Health Science | Petroleum Sludge in Agriculture | |
| and Technology, UPES, Dehradun | | |
| Oral Presentations | | |
| Dr. Roshani Basera, | Assessment of Water Quality through Bio-Indicator | 05 min |
| Govind Ballabh Pant University of Agriculture and | of Baldi River, Sahastradhara, Dehradun, | |
| Technology, Pantnagar, Udham Singh Nagar Uttarakhand | Uttarakhand | |
| Dr. B.B. Vashisht | Simulation of Yield and Water Productivity of Direct | 05 min |
| Department of Soil Science, Punjab Agricultural University, | Seeded Rice Under Medium to Heavy Soil Texture of | |
| Ludhiana, Punjab | Indian Punjab | |
| Dr. Ashwani Kumar | Temporal Changes in Morpho-Physiology of | 05 min |
| ICAR - Central Soil Salinity Research Institute, Karnal | Sandalwood and Gene Expression Analysis Under | |
| | Water Deficit and Salinity Stress | |
| Discussion | | 15 min |
| Co-chairs Remarks | | 10 min |

Frontier Sciences and Technologies in Agriculture for Developed India

Theme 7: Frontier Sciences and Technologies for Sustainable Soil and Water Management

Theme Convener Dr. Biswapati Mandal Professor, Bidhan Chandra Krishi Viswavidyalaya Mohanpur, Nadia

> Date: February 21, 2025 Time: 09:00-11:00 hrs. Venue: CABM-Shiksha Sadan

Technical Session 2: Frontier Sciences and Technologies for Sustainable Soil and Water Management

| Session Coordinator: | | |
|---|--|----------------|
| Co-Chair I: | Co-Chair II: | |
| Dr. M. Madhu | Dr. N.S. Rathore | |
| Director, ICAR-IISWC, Dehradun, Uttarakhand | Campus Director, Geetanjali Institute of Technical Str | udies, Udaipur |
| Rapporteur I: | Rapporteur II: | |
| Dr. Ajaya Srivastava | Dr. S.P. Pachauri | |
| Professor & Head | Professor, Soil Science | |
| Soil Science, GBPUAT, Pantnagar | GBPUAT, Pantnagar | |
| Speaker | Topics | Duration |
| Dr. Alok K. Sikka | Keynote Lecture: Managing Soil and Water | 20 min |
| Country Representative (India &; Bangladesh), International | Resources for Building Climate Resilient and | |
| Water Management | Transforming India | |
| Institute (IWMI), New Delhi | | |
| Dr. Suresh Kumar | Invited Lecture: Application of Geospatial | 15 min |
| Scientist G & Head, Soil Agriculture Division | Technology for Soil and Water Conservation | |
| IIRS, ISRO, Dehradun | | |
| Dr. Adrien Fauvernier | Invited Lecture: Agroforestry an Ideal Option for | 15 min |
| Project Manager, Agri-campus 66 | Sustaining Natural Resources and Enhancing the | |
| Théza, France | Farmers Income | |
| Dr. Javed Akhtar | Invited Lecture: Sustainable Water Resources | 15 min |
| University Lecturer, University of Technology and Applied | Management in AL Batinah Aquifer Oman using | |
| Sciences, Muscat, Oman | Groundwater Modelling | |
| Dr. Gopal Kumar | Invited Lecture: Watershed Management as a | 15 min |
| Deputy Country Representative, International Water | Framework for Climate Change Adoption | |
| Management Institute, New Delhi. | | |
| Oral Presentations | | |
| Ms Shruti Pathak, | Kinetic and Mechanistic Modelling of Kresoxim | 05 min |
| GBPUA&T,, Pantnagar | Methyl Adsorption onto Diverse Indian Soils | |
| Dr. Aamir Ahmad Bhat, | Microbial Cocktail From "Waste to Wealth" | 05 min |
| LPM, Faculty of Veterinary Sciences and Animal Husbandry | | |
| SKUAST-K Shuhama Srinagar, India | | |
| Dr. Debasis Das | Rubber Wood Biochar: A Sustainable Approach to | 05 min |
| Tripura University | Enhance The Water Holding Capacity Of Soil | |
| Discussion | | 15 min |
| Co-chairs Remarks | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Theme 8: Digital Agriculture

Theme Convener: Dr. Rajender Parsad Director ICAR-Indian Agricultural Statistics Research Institute New Delhi

Date: February 21, 2025 Time: 11:30-13:30 hrs. Venue: CABM-Basement

Technical Session-1: Advances in Digital Agriculture

| Session Coordinator: | | |
|---|--|----------|
| Co-Chair I: | Co-Chair II: | |
| Dr. R.C. Agrawal | Dr. Ashok. K. Singh | |
| DDG (Agril. Education), ICAR, New Delhi | Secretary, NAAS & Former Director, ICAR-IARI, New | Delhi |
| Rapporteur I: | Rapporteur II: | |
| Dr. Sweta Chaudhary | Dr. Rajeev Ranjan | |
| Assistant Professor, GBPUAT, Pantnagar | Assistant Professor, GBPUAT, Pantnagar | |
| Speaker | Topics | Duration |
| Dr. Pushpendra P. Singh | Keynote Lecture: From CPS to Al for the Farms of | 20 min |
| Associate Professor | Future | |
| Indian Institute of Technology | | |
| Ropar | | |
| Dr. E.V.S. Prakasa Rao | Invited Lecture: Research Priorities in the Use of | 13 min |
| Former Advisor, CSIR-Fourth Paradigm Institute, Bengaluru | Digital Technologies in Agriculture in India | |
| Dr. S.D. Samantaray | Invited Lecture: Disruptive Technologies, Data | 13 min |
| Professor & Head | Driven Digital Agriculture and Innovation | |
| Govind Ballabh Pant University of Agriculture and | | |
| Technology, Pantnagar | | |
| Sh. Vineet Singh | Invited Lecture: Farmer Chat: Scaling Al-Powered | 13 min |
| Chief Technology Officer | Agricultural Services for Smallholder Farmers | |
| Digital Green, Bengaluru | Globally | |
| Dr. Anjum Javed | Invited Lecture: Smart Farming with AI: | 13 min |
| Wadhwani Al Institute | Revolutionizing Pest and Disease Control to | |
| | Minimize Crop Losses | |
| Dr. Alokesh Ghosh | Invited Lecture: | 13 min |
| Associate Director | | |
| Centre for Development of Advanced Computing, Kolkata | | |
| Oral Presentation | | |
| Dr. Amit Srivastava | Resilient Farming System: Al Remote Sensing and | 10 min |
| ZALF, Germany | Crop Models in Harmony | |
| Discussion | | 15 min |
| Co-chairs Remarks | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Theme 8: Digital Agriculture

Theme Convener: Dr. Rajender Parsad Director ICAR-Indian Agricultural Statistics Research Institute New Delhi

Date: February 21, 2025 Time: 14:30-16:30 hrs. **Venue: CABM-Basement**

Technical Session-2: Digital Agriculture for Informed Farm Decisions

| Session Coordinator: | | |
|--|---|----------|
| Co-Chair I: | Co-Chair II: | |
| Dr. U.S. Gautam | Dr. Durgesh Pant | |
| Deputy Director General (Ag. Extn.), ICAR | Director General, UCOST, Dehradun | |
| Rapporteur I: | Rapporteur II: | |
| Dr. V.P. Dhyani | Dr. Sumit Chaturvedi | |
| Professor, Agronomy, GBPUAT, Pantnagar | Professor, Agronomy, GBPUAT, Pantnagar | |
| Speaker | Topics | Duration |
| Dr. Anil Rai | Keynote Lecture: Digital Agriculture: Prospects | 25 min |
| Assistant Director General (ICT), ICAR | and Challenges | |
| New Delhi | | |
| Dr. J. Jayasankar | Invited Lecture: Prediction - Precision - | 15 min |
| Principal Scientist & Head, FRAEED, | Precaution- Digital Strategies for Managing Self- | |
| ICAR-Central Marine Fisheries Research Institute, Kochi | replenishing Natural Resources | |
| Dr. Anil Kumar | Invited Lecture: Hybrid Deep Learning with | 15 min |
| Professor | Improved Salp Swarm Optimization based Multi- | |
| Department of Computer Science and Engineering, DIT | class Grape Disease Classification Model | |
| University, Dehradun | | |
| Dr. R.N. Sahoo | Invited Lecture: Cultivating Digital Farm for | 15 min |
| Principal Scientist, Agricultural Physics, | Precision Agriculture | |
| ICAR-Indian Agricultural Research Institute, New Delhi | | |
| Dr. Durga Toshniwal | Invited Lecture: | 15 min |
| Professor, | | |
| Department of Computer Science and Engineering, Indian | | |
| Institute of Technology, Roorkee | | |
| Dr. Subir Kumar Chakraborty | Oral Presentation: Drivers and Barriers to Pre | 10 min |
| ICAR-Central Institute of Agricultural Engineering, Bhopal | and Postharvest Mechanization in Digital | |
| | Agriculture Environs | |
| Discussion | | 15 min |
| Co-chairs Remarks | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Theme 9: Advances in Farm Mechanization &Agro-food Processing

Theme Convener: Dr. S.N. Jha **Deputy Director General**, **Agril Engineering** Indian Council of Agricultural Research New Delhi

> Date: February 21, 2025 Time: 11:30-13:30 hrs. Venue: MS-Conf. Hall-1

Technical Session-1: Advances in Farm Mechanization

| Session Coordinator: Dr. Rasappa Viswanathan, Director | , ICAR-Indian Institute of Sugarcane Research, Luc | know |
|---|--|----------|
| Co-Chair I: | Co-Chair II: | |
| Dr. Pitam Chandra | Dr. K.K. Singh | |
| Professor, School of Engineering & Technology, Sharda | Vice Chancellor, | |
| University | SVBPUAT, Meerut | |
| Rapporteur I: | Rapporteur II: | |
| Dr. Arun Kumar | Dr. R.P. Singh, | |
| Professor, Farm Machinery and Power Engineering | Professor, Farm Machinery and Power Engineering | |
| GBPUAT, Pantnagar | GBPUAT, Pantnagar | |
| Speaker | Topics | Duration |
| Mr. T.R. Kesavan | Keynote Lecture: Advances in Indian Farm | 20 min |
| Director, | Mechanization & Processing vis a vis those in the | |
| TAFE Motors & Tractors Limited | Developed Countries | |
| Dr. C.R. Mehta | Invited Lecture: Advances in Farm Automation | 15 min |
| Director, | and AI in Production Agriculture | |
| ICAR-Central Institute of Agricultural Engineering, Bhopal | | |
| Dr. K. Narsaiah | Invited Lecture: Advances in Agro-processing | 15 min |
| Assistant Director General (PE) | through Biotic Root and their Prospects in New | |
| ICAR, New Delhi | Foods Development | |
| Dr. T.B.S. Rajput, | Invited Lecture: Advances in Farm Structures and | 15 min |
| Adjunct Professor (Ag. Engg.), | Automation in On-farm Irrigation & Drainage | |
| ICAR-Indian Agricultural Research Institute, New Delhi | System | |
| Dr. Alaknanda Ashok | Invited Lecture: Innovative Farm Mechanization | 15 min |
| Dean, College of Agriculture | for Small Farm Holders | |
| GBPUAT, Pantnagar | | |
| Oral Presentation | | |
| Dr. Sandip Mandal, | Bio-Hydrogen Generation from Biogas Through | 06 min |
| Central Institute of Agriculture Engineering, Berasia Road, | Catalytic Methane Reforming. | |
| Bhopal M.P. | | |
| Dr. Raj N Pateriya | Study on Energy Requirement in Paddy Crop | 06 min |
| College of Technology, G B Pant University of Agriculture & | Production System in Tarai region of Uttarakhand | |
| Technology, Pantnagar, Uttarakhand | | |
| Ms Anupama Sharma | Performance Optimization of a Mechanised Potato | 06 min |
| Anand Agricultural University, Anand | Planter Varying Soil Moisture Contents. | |
| Discussion | | 15 min |
| Co-chairs Remarks | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Theme 9: Advances in Farm Mechanization & Agro-food Processing

Theme Convener: Dr. S.N. Jha **Deputy Director General, Agril Engineering** Indian Council of Agricultural Research, New Delhi

Date: February 21, 2025 Time: 14:30-16:30hrs Venue: MS-Conf. Hall-1

Technical Session II: Advances in Agro-food Processing

| Co-Chair I: | Co-Chair II: | |
|--|---|-------------|
| Dr. Chandra Singh | Dr. Yonglin Ren | |
| Director APHTC, Lethbridge College, Alberta, Canada | Professor, Centre for Biosecurity and One Health, H | arry Butler |
| | Institute, Murdoch University | |
| Rapporteur I: | Rapporteur II: | |
| Mr. Joy Gilsenan | Dr. Anil Kumar | |
| Business Manager, Food Futures Institute, Murdoch | Associate Professor/SRO | n . |
| University | Department of Food Science & Technology, GBPUAT, | |
| Speaker | | Duration |
| Dr. Chandra Singh | Keynote Lecture: Role of Smart Sensors in Post- | 20 min |
| Director APHTC, Lethbridge College, Alberta, Canada | harvest Handling of Crops | 10 · |
| Dr. Yonglin Ren Defense - Canton for Disconcercity and One Usethe Users | Invited Lecture: Advances in Post-harvest | 12 min |
| Professor, Centre for Biosecurity and One Health, Harry | Technologies for Ensuring Better Grain Quality | |
| Butler Institute, Murdoch University Dr. Sunil Pareek | Invited Lecture: The Future of Food: Disruptive | 12 min |
| or. Sunn Fareek Professor (Horticulture PHT) & Dean (Post Graduate | Technologies Shaping the Global Food Business | 12 min |
| Studies), NIFTEM, Kundli, Sonepat, Haryana | Lecunonales anabilia rus propari ono posujess | |
| Dr. Dhritiman Saha | Invited Lecture: Advances in Precision Post- | 12 min |
| Sr. Scientist, ICAR-Central Institute of Post-Harvest | harvest Technologies and Management | 12 11111 |
| Engineering and Technology, Ludhiana | na vest recimologies and management | |
| Dr. Abhinav Mishra | Invited Lecture: The Use of Machine Learning in | 12 min |
| Associate Professor, Department of Food Science and | Food Safety | 12 11111 |
| Technology, University of Georgia, USA | | |
| Dr. N.C. Shahi | Invited Lecture: Post Harvest Process for | 12 min |
| Dean, MCAET Ambedkarnagar, ANDUAT | Enhancing Values of Agric-products | |
| Iral Presentations | | |
| Ars Deepa Pauly Chakiath | Bioproduction of Vitamin B12 by | 05 min |
| echno-functional starters Lab, Dairy Microbiology Division, | Limosilactobacillusreuteri NCDC 958 in whey- | |
| CAR-National Dairy Research Institute, Karnal | based media- Addressing B12 deficiency | |
| MS Charu Bisht | Optimization of Hydrogen Peroxide Treatment to | 05 min |
| Department of Food Science & Technology, Govind Ballabh | Modify the Colour Characteristics of Dried | |
| Pant University of Agriculture & Technology, Pantnagar | Distiller's Rice Spent Grain | |
|)r. Parmod Kumar More | Process Optimization for Preparation of Lotus | 05 min |
| Department of Post-Harvest Process and Food Engineering, | (Nelumbo Nucifera) Root Powder Using Vacuum | |
| GBPUAT Pantnagar, Uttarakhand | Foam Mat Dring | |
| Discussion | | 15 min |
| Co-chairs Remarks | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Theme 10: Innovations in Policies and Institutions

Theme Convener: Dr. P.S. Birthal Director National Institute of Agricultural Economics and Policy Research New Delhi

Date: February 21, 2025 Time: 11:30-13:30 hrs. Venue: MS-Conf. Hall-3

Technical Session: Innovations in Policies and Institutions

| Co-Chair I: | Co-Chair II: | |
|--|--|----------|
| Dr. Vijay Paul Sharma | Dr. Pramod Kumar Joshi | |
| Chairman, CACP, New Delhi | Vice President, NAAS | |
| Rapporteur I: | Rapporteur II: | |
| Dr. P.K. Meher | Dr. Sanjay Srivastava, Professor | |
| Senior Scientist, ICAR-IASRI, New Delhi | Agricultural Economics, GBPUAT, Pantnagar | |
| Speaker | Topics | Duration |
| Dr. P.S. Birthal | Keynote Lecture: Reshaping Agricultural Policies | 20 min |
| Director, | for Sustainable Transformation of Agrifood System | |
| CAR-NIAEPR, New Delhi | in India | |
| Dr. Devesh Roy | Invited Lecture: Innovations in Agricultural | 15 min |
| Senior Research Fellow, IFPRI | Markets and Trade | |
| New Delhi | | |
| Dr. Sachin Kumar Sharma | Invited Lecture: WTO and Agriculture | 15min |
| Professor | | |
| Centre for WTO Studies, IIFT, New Delhi | | |
| Dr. Raka Saxena | Invited Lecture: Policies for Harnessing Potential | 15 min |
| Principal Scientist & Head | of Agricultural Exports | |
| ICAR - NIAEPR,New Delhi | | |
| Oral Presentations | | |
| Dr. Anil Kumar | Direct Marketing of Vegetables through Farmers' | 06 min |
| Dept. of Agricultural Economics, GBPUAT Pantnagar | Markets: A Study of Rythu Bazars in | |
| | Visakhapatnam | |
| Dr. Barsati Lal | An Analysis of Sugarcane Based Cropping Patterns | 06 min |
| ICAR-IISR, Lucknow | in Sitapur district of Uttar Pradesh | |
| Dr. Paromita Ghosh | Transforming Rural Himalaya: The Eco-smart | 06 min |
| G. B. Pant National Institute of Himalayan Environment, Kosi | Village Model | |
| Katarmal, Almora | | 15 |
| Discussion | | 15 min |
| Co-chairs Remarks | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Panel Discussions

| Panel | Area | Theme Convenor |
|----------------------|---|--|
| Panel Discussion I | Next Generation Technologies for Renewable Energy | Dr. K.P. Singh ADG (Engg.), ICAR |
| Panel Discussion II | Mainstreaming Young Professionals for Frontier Sciences | Dr. R. Sendhil Associate Professor, Pondicherry, University |
| Panel Discussion III | International Partnership for Frontier Agricultural Research | Prof. Rajeev K. Varshney International Chair in Agriculture & Food Security, Murdoch University, Australia |
| Panel Discussion IV | Clean Plant Program for Promoting Diversification in Agriculture | Dr. V.K. Baranwal National Professor, IARI, New Delhi Dr. Susheel Kumar Senior Scientist, IARI, New Delhi |
| Panel Discussion V | India-Africa Partnership in Agriculture | Dr. W.S. Lakra Former VC, ICAR-CIFE, Mumbai and Secretary, NAAS |



Frontier Sciences and Technologies in Agriculture for Developed India

Panel Discussion-I: Next Generation Technologies for Renewable Energy

Panel Discussion Convener: Dr. K.P. Singh Assistant Director General (Farm Engg.) Indian Council of Agricultural Research

> Date: February 22, 2025 Time: 09:00-11:00 hrs. Venue: MS-Conf. Hall-1

Technical Session: Cutting Edge Technologies for Renewable Energy in India

| Session Coordinator: | | |
|--|--|----------|
| Co-Chair I: | Co-Chair II: | |
| Dr. T.P. Singh | Dr. Anil Kumar Dubey | |
| Prof & Head, Department of Farm Machinery and | Director, | |
| Power Engineering, College of Technology, | Sardar Patel Renewable Energy Institute, Anand, Gujrat | |
| GBPUAT, Pantnagar | 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5 | |
| Rapporteur I: | Rapporteur II: | |
| Dr. U.C. Lohani | Dr. S. Mandal | |
| Asst. Professor, GBPUAT, Pantnagar | Sr. Scientist, ICAR-CIAE Bhopal | |
| Lead Speaker | Topics | Duration |
| Dr. Vinod Kumar Bhargava | Cutting Edge Technologies for Renewable Energy | 20 min |
| Project Coordinator,AICRP on Energy in Agriculture | Resources | 20 |
| and Agro-based Industries (EAAI), ICAR-CIAE Bhopal | | |
| Panellists | | |
| Dr. Mohad Rihan | Status and Scope of Solar Energy to Meet Net Zero | 10 min |
| Director General. | Target of Country in Agriculture Production and | |
| National Institute of Solar Energy, Gurugram | Processing | |
| Dr. Thallada Bhaskar | Green Economy from Valorization of Crop Residues and | 10 min |
| Chief Scientist & Head | Self Sufficiency in Energy for Agricultural Production and | |
| CSIR - Indian Institute of Petroleum, Dehradun | Processing | |
| Dr. P. Subramanium | Green Hydrogen from Agri Biomass: A Circular Economy | 10 min |
| Professor. | Approach to Create Green Jobs in Rural Sector | |
| Department of Bio Energy, TNAU Coimbatore | | |
| Dr. D.K. Vatsa | Scenario of Farm Mechanization in Himalayan Region of | 10 min |
| Prof & Head | India- Challenges and Future Opportunities | |
| Department of Agricultural Engineering, College of | ······ -········· | |
| Agriculture, CSK HPKV, Palampur | | |
| Dr. Mukesh Jain | Advancing Standards: Testing Protocols for Next | 10 min |
| Director, Northern Region Farm Machinery Training | Generation Agricultural Machinery | |
| and Testing Institute Tractor Nagar, Hisar | - , | |
| Dr. S.P. Singh | Animate Power Contribution in Enhancing Agricultural | 10 min |
| Project Coordinator | Production and Mechanisation Levels in Animal | |
| AICRP on Mechanisation of Animal Husbandry | Husbandry Sector | |
| ICAR-CIAE, Nabibagh, Bhopal | | |
| Dr. K. N. Agarwal | Mechanization of Indian Agriculture Efforts of Five | 10 min |
| Project Coordinator | Decades and Way Forward | |
| FIM scheme, ICAR-CIAE, Bhopal | • | |
| Discussion | | 20 min |
| Co-chairs Remarks | | 10 min |
| | | |



Frontier Sciences and Technologies in Agriculture for Developed India

Panel Discussion-II: Mainstreaming Young Professionals for Frontier Sciences

Panel Discussion Convener: Dr. R. Sendhil **Associate Professor Pondicherry University**

Date: February 21, 2025 Time: 14:30-16:30 hrs. Venue: MS-Conf. Hall-2

| Session Coordinator: Dr. (Ms.) Haritha Bollinedi, Sc | ientist - Senior Scale, ICAR-IARI, New Delhi | |
|---|--|----------|
| Co-Chair I: | Co-Chair II: | |
| Dr. Jitender Kumar | Dr. Anuradha Agrawal | |
| Assistant Director General (NASF) | Project Director, ICAR-DKMA, New Delhi | |
| Indian Council of Agricultural Research | | |
| Rapporteur I: | Rapporteur II: | |
| Dr. Gopalareddy Krishnappa | Dr. Sheel Yadav | |
| Scientist (SS), ICAR-SBI | Scientist (SS), ICAR-NBPGR | |
| Invited Speakers | | Duration |
| Dr. R.M. Sundaram | | 20 min |
| Director, ICAR-Indian Institute of Rice Research | | |
| Rajendranagar, Hyderabad | | |
| Panellists | | |
| Dr. R.P. Singh | Opportunities for Young Professionals in Space Science | 15 min |
| Director, IIRS, ISRO, Dehradun | | |
| Dr. Arindam Datta | | 15 min |
| Fellow, Centre for Environmental Studies, The Energy | | |
| and Resources Institute | | |
| Dr. Jess Vergis | | 15 min |
| Assistant Professor | | |
| College of Veterinary & Animal Sciences, Kerala | | |
| Dr. Kundan Kumar | | 15 min |
| Senior Scientist, | | |
| ICAR-Central Institute of Fisheries Education, Mumbai | | |
| Dr. Stuart Barber | | 15 min |
| Associate Professor (Animal MGMT & Welfare), | | |
| Melbourne Veterinary School | | |
| The University of Melbourne, Victoria, Australia | | |
| Discussion | | 15 min |
| Co-chairs Remarks | | 10 min |

Frontier Sciences and Technologies in Agriculture for Developed India

Panel Discussion-III: International Partnership for Frontier Agricultural Research

Panel Discussion Convener: Prof. Rajeev K. Varshney International Chair in Agriculture & FoodSecurity Food Futures Institute Murdoch University

Date: February 22, 2025 Time: 09:00-11:00 hrs. Venue: MS-Conf. Hall-2

| Co-Chair I: | Co-Chair II: | |
|--|---|----------|
| Prof. K.C. Bansal, | Dr. G. Taru Sharma, | |
| Former Director, NBPGR, New Delhi | Director, National Institute of Animal Biotechnology, H | yderabad |
| Rapporteur I: | Rapporteur II: | |
| Prof. J.P. Jaiswal | Dr. Manish Pandey | |
| G.B. Pant University of Agriculture & Technology, | ICRISAT, Hyderabad | |
| Pantnagar | | |
| Lead Speaker | Topics | Duration |
| Prof. Peter Davies | | 20 min |
| Pro Vice Chancellor, Food Futures Institute, Murdoch | | |
| University, Australia | | |
| Panellists | | |
| Prof. Karim M. Maredia | | 15 min |
| Director of International Programs | | |
| Michigan State University, USA | | |
| Prof. Neena Mitter | | 15 min |
| Deputy Vice Chancellor Research and Vice President | | |
| (Ag), Charles Sturt University, NSW, Australia | | |
| Dr. Michael Baum | | 15 min |
| Director | | |
| Biodiversity and Crop Improvement Program, | | |
| ICARDA, Morocco | | |
| Dr. Ian Bland | | 15 min |
| Associate Professor | | |
| The University of Melbourne, Australia | | |
| Discussion | | 30 min |
| Co-chairs Remarks | | 10 min |

Frontier Sciences and Technologies in Agriculture for Developed India

Panel Discussion – IV: Clean Plant Program for Promoting Diversification in Agriculture

Panel Discussion Conveners:

Prof. V.K. Baranwal, National Professor, Division of Plant Pathology, ICAR-IARI, New Delhi Dr. Susheel Kumar Sharma, Sr. Scientist, Division of Plant Pathology, ICAR- IARI, New Delhi

> Date: February 20, 2025 Time: 15:00-17:00 hrs Venue: CABM-Basement

| Co-Chair I: | Co-Chair II: | |
|--|--|----------|
| Prof. Anupam Varma | Dr. M.K. Verma | |
| INSA Emeritus Scientist, ICAR-IARI | Director, ICAR-CITH, Srinagar | |
| Rapporteur I: | Rapporteur II: | |
| Dr. S.K. Holkar | Dr. Omvir Singh | |
| Sr. Scientist | Professor, | |
| ICAR-NRC Grapes, Pune | Horticulture, GBPUAT, Pantnagar | |
| Lead Speaker | Topics | Duration |
| Dr. B.N.S. Murthy | India's Clean Plant Programme: Horticultural Crops | 25 min |
| Former Director & Principal Scientist | Targeted for Achieving the Enhanced Diversity and | |
| ICAR-Indian Institute of Horticultural Research, | Productivity | |
| Bengaluru | | |
| Panellists | | |
| Prof. Assunta Bertaccini | Lesson from the Operational Clean Plant Program of the | 12 min |
| Alma Mater Studiorum, | European Countries and Around the World | |
| University of Bologna | | |
| Prof. Ioannis Tzanetakis | Diagnostics for Certification System in Clean Plant | 12 min |
| Director of the Arkansas Clean Plant Center | Programme | |
| Dr. V.B. Patel | Strategy for implementation of Clean Plant Programme | 12 min |
| ADG (Fruits & Plantation Crops), ICAR | in India | |
| Dr. Anil Handa | Clean Plant Programme Focussing the Temperature and | 12 min |
| Professor, | Sub-temperate Clonally Propagated Fruit Crops | |
| Dr. Y.S.P. Univ. of Horticulture & Forestry, Solan | | |
| Prof. Nicola Fiore | Lesson from the Clean Plant Program of fruit crops in | 12 min |
| Associate Professor | Chile | |
| University of Chile, Santiago | | |
| Discussion | | 20 min |
| Co-chairs Remarks | | 15 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Panel Discussion – V: India-Africa Partnership in Agriculture

Panel Discussion Convener Dr. W.S. Lakra Former VC, ICAR-CIFE, Mumbai and Secretary, NAAS

Date: February 22, 2025 Time: 09:00-11:00 hrs. Venue: MS-Conf. Hall-3

| Co-Chair I: | Co-Chair II: | |
|---|--|----------|
| Dr. Himanshu Pathak | Dr. B.S. Dhillon | |
| Secretary, DARE & DG, ICAR and President, NAAS | Former Vice Chancellor, | |
| | PAU Ludhiana | |
| Rapporteur I: | Rapporteur II: | |
| Dr. Shiva Prasad | Dr. Deeksha Gupta | |
| Professor | Executive Director | |
| Department of Civil Engineering, GBPUAT, | National Academy of Agricultural Sciences, New Delhi | |
| Pantnagar | | |
| Lead Speaker | Topics | Duration |
| Dr. W.S. Lakra | | 20 min |
| Secretary, NAAS and Former Director & Vice | | |
| Chancellor, ICAR-CIFE, Mumbai | | |
| Panellists | | |
| Shri Tarun Shridhar | | 12 min |
| Former Secretary to Govt. of India | | |
| Prof. Rajeev K. Varshney | | 12 min |
| International Chair in Agriculture & Food Security, | | |
| Food Futures Institute | | |
| Murdoch University | | |
| Prof. Karimbhai M. Maredia | | 12 min |
| Professor, Senior Global Scholar and Director, | | |
| International Programs, College of Agriculture and | | |
| Natural Resources, Michigan State University | | |
| Dr. M.L. Jat | | 12 min |
| Global Research Program Director | | |
| Resilient Farm and Food Systems | | |
| ICRISAT, Hyderabad | | |
| Dr. Nkem Khumbah | | 12 min |
| Head of STI Policy Systems, Governance and | | |
| Partnerships (STI-PGA), African Academy of | | |
| Sciences | | |
| Discussion | | 15 min |
| Co-chairs Remarks | | 15 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Symposia

| Panel | Area | Theme Convenor | No. of Sessions |
|--------------|--|--|-----------------|
| Symposia I | Agriculture at Altitude: Innovating for Hill and Mountain Regions | Dr. Laxmi Kant Director, VPKAS, Almora | 2 |
| Symposia II | Quality Education for Promoting Next Generation Science | Dr. R.C. Agrawal DDG (Ag. Edu.), ICAR | 1 |
| Symposia III | Bee Vital: Understanding the Agricultural Significance of Honey Bees | Dr. Raju Kapoor Director, Corporate Affairs, FMC | 3 |
| Symposia IV | New Frontiers in Science-Technology- Innovation-Farmers Connect | Dr. Ashok K. Singh VC, RLBCAU, Jhansi | 1 |
| Symposia V | Innovations in Overcoming Poverty & Malnutrition | Dr. K. Madhavan Nair Former Deputy Director, NIN | 1 |
| Symposia VI | Frontiers in Science and Technology for Community Development | Dr. Alka Goel Dean, College of Community Science GBPUAT, Pantnagar | 2 |
| Symposia VII | Advances in Poultry | Dr. Ashok Kumar Tiwari Director, ICAR-CARI, Izatnagar | 1 |



Frontier Sciences and Technologies in Agriculture for Developed India

Symposia I: Agriculture at Altitude: Innovating for Hill and Mountain Regions

(Co-Organized by: VPKAS, ICIMOD, GBPNIHE, UCOST & UCB)

Symposia Convener: Dr. Lakshmi Kant Director ICAR-Vivekananda Parvatiya Krishi Anusandhan Sansthan, Almora, Uttarakhand

Date: February 20, 2025 Time: 15:00-17:00 hrs. Venue: COA Conf. Hall

Technical Session I: Hill Agriculture Challenges and Opportunities

| Co-Chair I: Co-Chair II: | Co-Chair III: | |
|---|--|------------------|
| Dr. H.S. Gupta Dr. M.S. Chau | | |
| | r, GBPUAT, Pantnagar 🛛 IWMI Representative-India | |
| Assam | | |
| Rapporteur I: | Rapporteur II: | |
| Dr. N.K. Hedau | Dr. D.P. Walia | |
| Head, Crop Improvement Division, ICAR-VPKAS, | Head, IARI RS Amartara Cottage, Shimla | |
| Almora | | |
| Speaker | Topics | Duration |
| Dr. Lakshmi Kant | Context Setting: Hill Agriculture: Challenges and | 15 min |
| Director, ICAR-VPKAS, Almora | Opportunities | |
| Dr. S.K. Sharma and Dr. N.K. Hedau | Invited Lecture: Cropsat High Altitude for Ensuring Food | 15 min |
| EX VC CSK HPKV Palampur | and Nutritional Security | |
| Dr. Madhu Verma | Invited Lecture: Climate Change and Ecosystem Services | 15 min |
| Senior Economic Advisor & Chief Environmental | | |
| Economist, IDRA, Delhi | | |
| Dr. B.S. Mohapatra | Invited Lecture: Hill Natural Resource Management: | 15 min |
| Former Vice Chancellor, | Status, Advances and Key for Sustainability | |
| Bidhan Chandra Krishi Viswavidyalaya, Kalyani | | |
| Dr. Mahendra Kumar Verma | Invited Lecture: Changing Scenarios of Fruits and | 15 min |
| Director | Vegetables at High Altitude in Ensuring High Income from | |
| ICAR-CITH, Jammu & Kashmir | Small Farms | |
| Prof. Brijesh Srivastava | Invited Lecture: Electrical Field-based Technologies for | 15 min |
| Department of Food Engineering & Technology | Post Harvest Processing of Fruits and Vegetables | |
| Tezpur University, Assam | | |
| Oral Presentations | | 05 . |
| Dr. Archana Kushwaha, | Comparative Analysis of Physical, Dimensional, Nutritional, | 05 min |
| NIFTEM-K Kundil, Sonipat, Haryana. | and Anti-nutritional Parameters of White and Brown Finger | |
| | Millet (<i>Eleusine Coracana</i>) Cultivars of Uttarakhand | N5 min |
| Dr. N.K. Hedau | Molecular Characterization and Screening of Powdery | UD MIN |
| ICAR-VPKAS, Almora. | Mildew Resistance in Garden Pea Using SCAR Markers | 05 min |
| ihOdsOrksej | fgeky:h {ks=ksaesa ty lalk/kuksa ds fodkl vkSj izca/ku es | ua min |
| Hkkjrh; d`f'k vuqla/kku ifj'kn~ Hkkjrh; e`nk ,oa ty | axzkeh.k Hkkxhnkjh ds izHkko dk ewY;kadu& {ks= vuqHko | |
| laj{k.k laLFkku Discussion | | 10 min |
| Discussion Co-chairs Remarks | | 10 min 10 min |
| LO-CNAIRS KEMARKS | | iu min |

Frontier Sciences and Technologies in Agriculture for Developed India

Symposia I: Agriculture at Altitude: Innovating for Hill and Mountain Regions

(Co-Organized by: VPKAS, ICIMOD, GBPNIHE, UCOST & UCB)

Symposia Convener: Dr. Lakshmi Kant Director ICAR-Vivekananda Parvatiya Krishi Anusandhan Sansthan, Almora, Uttarakhand

Date: February 21, 2025 Time: 09:00-11:00hrs Venue: COA Conf. Hall

Technical Session II: Climate Change Impact on Hill Ecosystem

| | hair II: | Co-Chair III: | |
|---|-------------------|--|----------|
| Dr. Arthur Nonumura, Dr. Sunil Nautiyal | | Dr. Sanjay Kumar | |
| Professor, Northern Arizona Director, GBPNIHE, Kosi, A | | | l, |
| University, USA | | Uttarakhand | |
| Rapporteur I: | | Rapporteur II: | |
| Dr. R.K. Singh | | Dr. Subhash Chandra | |
| Head, Agrometeorology, GBPUAT, Pant | nagar | Head, Agronomy, GBPUAT, Pantnagar | |
| Speaker | | Topics | Duration |
| Mr Abul Kalam Azad | | Context Setting: Integrated Mountain Development in | 20 min |
| Senior Intervention Manager - Livelihoods and | | Hindukush Himalaya | |
| Enterprises, ICIMOD, Nepal | | | 10 . |
| Dr. Kamal Aryal | | Invited Lecture: Climate Resilient Agriculture Initiative | 12 min |
| Resilient Agriculture Specialist, ICII Namel | MUD, Kathmandu, | for High Altitude Agriculture | |
| Nepal Dr. Arthur Nonumura. | | Invited I actions, Unsure the Query Data to | 17 min |
| | | Invited Lecture: Harnessing the Sugar Code to Modulate the Carbon Reactions on Photosynthesis in | IZ MIN |
| Professor, | | Agriculture | |
| Northern Arizona University, USA Dr. R K Maikhuri | | Invited Lecture: Impact of Climate Change on | 12 min |
| Professor, HNBGU, Uttarakhand | | Himalayan Agrobiodiversity | 12 11111 |
| Dr. A. Arunachalam | | Invited Lecture: Impact of Climate Change on High | 17 min |
| Director CAFRI, Jhansi | | Altitude Agriculture System | 12 11111 |
| Dr. Susheela Negi | | Invited Lecture: Climate Change and Resilience | 12 min |
| Associate Head/Scientist F, DST, New | Delhi | 5 | |
| Oral Presentations | | | |
| Dr. Vijay P. Singh | | Stress Management and Productivity Enhancement in | 05 min |
| G.B. Pant University of Agriculture and Technology, | | Fruit Crops Through Plastic Mulching Under Hilly | |
| Pantnagar | | Terraced Land of Uttarakhand | |
| Dr. D.K. Shahi, | | Effect of Phosphorus and Sulphur Enriched Organo- | 05 min |
| Department of Soil Science and Agriculture Chemistry, Birsa Agricultural University, Ranchi, Jharkhand, India. | | Mineral Compost on Yield and Nutrient Uptake by Maize | |
| | | (Zea Mays L.) Grown in Acidic Upland Soil of Ranchi, | |
| | | Jharkhand | |
| Dr. Arun Kushwaha, | | Generation of Additional Income Through Intervention of | 05 min |
| Department of Plant Pathology, College | e of Agriculture, | Mushroom Production Technology, Near Patwadangar, | |
| GBPUA&T, Pantnagar. | | Nainital, Uttarakhand | |
| Discussion | | | 15 min |
| Co-chairs Remarks | | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Symposia-II: Quality Education for Promoting Next Generation Science

Symposia Convener: Dr. R.C. Agrawal Deputy Director General (Agril. Edn) Indian Council of Agricultural Research New Delhi

Date: February 22, 2025 Time: 09:00-11:00 hrs. Venue: CABM-Shiksha Sadan

| Session Coordinator: Dr. Seema Jaggi, ADG (HRD), ICAR | | | | |
|---|--|----------|--|--|
| Co-Chair I: | Co-Chair II: | | | |
| Dr. P.L. Gautam | Dr. B.S. Dhillon | | | |
| Former Chairperson, PPV&FRA | Former Vice Chancellor, PAU, Ludhiana | | | |
| Rapporteur I: | Rapporteur II: | | | |
| Dr. V.L.V. Kameswari | Dr. Amardeep Chauhan | | | |
| Professor & Head | Associate Professor | | | |
| Agril. Communication, GBPUAT, Pantnagar | Agril. Communication, GBPUAT, Pantnagar | | | |
| Speaker | Topics | Duration | | |
| Dr. R.C. Agrawal | Context Setting: Quality Education for Promoting Next | 20 min | | |
| Deputy Director General (Agril. Edn) | Generation Science | | | |
| Indian Council of Agricultural Research, New Delhi | | | | |
| Dr. Parvinder Kaushal | Invited Lecture: The Challenges in the Implementation of | 12 min | | |
| Vice Chancellor, VCSG Uttarakhand University of | NEP-2020in Agricultural Higher Education | | | |
| Horticulture and Forestry, Uttarakhand | | | | |
| Dr. K.C. Veeranna | Invited Lecture: Trends and Innovations in Veterinary | 12min | | |
| Vice Chancellor, Karnataka Veterinary, Animal & | Education | | | |
| Fisheries Sciences University, Bidar | | | | |
| Dr. V. Geethalakshmi | Invited Lecture: Role of Skill-based Learning in | 12min | | |
| Vice Chancellor, | Agricultural Higher Education | | | |
| Tamil Nadu Agricultural University, Coimbatore | | | | |
| Dr. Bidyut Chandan Deka | Invited Lecture: Agri-preneurship for the Future Ready | 12 min | | |
| Vice-Chancellor, | Students | | | |
| Assam Agricultural University, Jorhat | | | | |
| Dr. M.K. Naik | Invited Lecture: Nurturing Next Generation Agri- | 12 min | | |
| Former Vice Chancellor, | Professionals for Bio-Revolution to Strengthen Bio- | | | |
| KSN University of Agri. & Hort. Science, Shivamogga | Economy | | | |
| Dr. Serge Savary | Invited Lecture: The Changing Landscapes of | 12 min | | |
| Ex Director Research, | Agricultural Research in India: A Survey of ICAR's | | | |
| INRAE-France | Research through the Analysis of 35,122 PhD Theses – | | | |
| | 1925-2021 | | | |
| Oral Presentations | | | | |
| Mr. Udit Joshi | Exploring outlook of undergraduate students towards | 06 min | | |
| G.B. Pant University of Agriculture and Technology | RAWE village attachment programme | | | |
| Pantnagar Udham Singh Nagar Uttarakhand | | | | |
| Discussion | | 10 min | | |
| Co-chairs Remarks | | 10 min | | |



Frontier Sciences and Technologies in Agriculture for Developed India

Symposia-III: Bee Vital: Understanding the Agricultural Significance of Honey Bees

(Co-Organized by: KIS, Slovenia, GBPUAT, and FMC)

Symposia Convener: Dr. Raju Kapoor Director, FMC

Date: February 21, 2025 Time: 11:30-13:30hrs Venue: COA Conf. Hall

Technical Session I: Honeybee: Environmental Challenges

| Co-Chair I: Co-Chair II: Prof. (Dr). Andrej Simončič Dr. P.K. Chhuneja Director, KIS, Slovenia Eminent Scientist. Dept of Entomology, PAU, Ludhiana Rapporteur I: Rapporteur II: Dr. Renu Pandeay Dr. J.P. Purwar Assistant Professor Professor, Entomology, GBPUAT, Pantnagar Entomology, GBPUAT, Pantnagar Speaker Topics Duration Prof. (Dr). Andrej Simončič Context Setting: Importance of Honeybees for Human 20 min Director, KIS, Slovenia Kind 20 min Dr. Janez Presern Invited Lecture: Climate Change Chaos: Beekeeping in a 15 min KIS, Slovenia Invited Lecture: Nature's Symphony: Pollinators as 15 min Danilo Bevk Invited Lecture: Nature's Symphony: Pollinators as 15 min VIS, Slovenia Dr. Laspal Singh Is wina Principal Entomology, PAU, Ludhiana Invited Lecture: Nature's Symphony: Pollinators as 15 min Principal Entomology, PAU, Ludhiana Invited Lecture: Biodiversity's Ballet: Pollinators as 15 min Principal Entomology, PAU, Ludhiana Invited Lecture: Biodiversity's Ballet: Pollinators as 15 min Principal Entomology (TN) | | | |
|--|--|---|----------|
| Director, KIS, Slovenia Eminent Scientist, Dept of Entomology, PAU, Ludhiana Rapporteur I: Rapporteur II: Dr. Ren Pandeay Dr. J. P. Purwar Assistant Professor Professor, Entomology, BBPUAT, Pantnagar Entomology, GBPUAT, Pantnagar Speaker Topics Duration Prof. (Dr). Andrej Simončič Context Setting: Importance of Honeybees for Human 20 min Director, KIS, Slovenia Kind Invited Lecture: Climate Change Chaos: Beekeeping in a 15 min Ris, Slovenia Warming World Invited Lecture: Habitat Loss: Buzzing Towards 15 min Dr. Janz Presern Invited Lecture: Nature's Symphony: Pollinators as 15 min Kis, Slovenia Invited Lecture: Nature's Symphony: Pollinators as 15 min Der d fotomology, PAU, Ludhiana Dr. Jaspal Singh Is min Principal Entomologist Invited Lecture: Biodiversity's Ballet: Pollinators as 15 min Neither Scientist, Department of Entomology, PAU, Ludhiana Invited Lecture: Biodiversity's Ballet: Pollinators as 15 min Principal Entomologist Invited Lecture: Biodiversity's Ballet: Pollinators as 15 min Professor Invited Lecture: Biodiversity's Ballet: Pollinators as <t< td=""><td>Co-Chair I:</td><td>Co-Chair II:</td><td></td></t<> | Co-Chair I: | Co-Chair II: | |
| Rapporteur I: Rapporteur II: Dr. Renu Pandeay Dr. J.P. Purwar Assistant Professor Professor, Entomology, GBPUAT, Pantnagar Entomology, GBPUAT, Pantnagar C Speaker Topics Duration Prof. (Dr.). Andrej Simončić Context Setting: Importance of Honeybees for Human 20 min Director, KIS, Slovenia Kind Invited Lecture: Climate Change Chaos: Beekeeping in a 15 min KIS, Slovenia Invited Lecture: Climate Change Chaos: Beekeeping in a 15 min Dr. Janez Presern Invited Lecture: Habitat Loss: Buzzing Towards 15 min Eminent Scientist, Extinction Extinction 15 min Dept of Entomology, PAU. Ludhiana Invited Lecture: Nature's Symphony: Pollinators as 15 min Dr. Jaspal Singh Invited Lecture: Nature's Symphony: Pollinators as 15 min Principal Entomologist Invited Lecture: Biodiversity's Ballet: Pollinators as 15 min Apiculture Unit, Department of Entomology, PAU, Wealth and Health of Earth 15 min Undhiana Invited Lecture: Biodiversity's Ballet: Pollinators as 15 min Professor Earthere of Agriculture Invited Lecture: 15 min | Prof. (Dr). Andrej Simončič | Dr. P.K. Chhuneja | |
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| Coimbatore - 641003 (TN) Dral Presentations Ms Priyanka Rani Pollination for Health: Exploring Honey Production from 05 min Cotton Section, Dept. Df GP&B, College of Agriculture, CCSHAU, Hisar Medicinal Crops 05 min Mr Moorthy A.V, Comparative Analysis of Bacterial Communities in Apis 05 min Dept of Entomology, GBPUAT, Pantnagar Cerana Gut and Honey 05 min | Department of Entomology | | |
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| Ms Priyanka Rani Pollination for Health: Exploring Honey Production from 05 min Cotton Section, Dept. Of GPGB, College of Agriculture, Medicinal Crops 05 min CCSHAU, Hisar Comparative Analysis of Bacterial Communities in Apis 05 min Mr Moorthy A.V, Comparative Analysis of Bacterial Communities in Apis 05 min Dept of Entomology, GBPUAT, Pantnagar Cerana Gut and Honey 05 min | Coimbatore – 641003 (TN) | | |
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| Mr Moorthy A.V,Comparative Analysis of Bacterial Communities in ApisD5 minDept of Entomology, GBPUAT, PantnagarCerana Gut and HoneyD5 minDiscussionD5 min | Cotton Section, Dept. Of GP&B, College of Agriculture, | Medicinal Crops | |
| Dept of Entomology, GBPUAT, Pantnagar <i>Cerana</i> Gut and Honey O5 min | CCSHAU, Hisar | | |
| Discussion 05 min | | Comparative Analysis of Bacterial Communities in Apis | 05 min |
| | Dept of Entomology, GBPUAT, Pantnagar | <i>Cerana</i> Gut and Honey | |
| | Discussion | | 05 min |
| Co-chairs Remarks 10 min | Co-chairs Remarks | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Symposia-III: Bee Vital: Understanding the Agricultural Significance of Honey Bees

(Co-Organized by: KIS, Slovenia, GBPUAT, and FMC)

Symposia Convener: Dr. Raju Kapoor Director, FMC

> Date: February 21, 2025 Time:14:30-16:30hrs Venue:COA Conf. Hall

Technical Session II: Beekeeping Practices and Sustainability

| Co-Chair I: | Co-Chair II: | |
|---|--|----------|
| Dr. Janez Presern | Dr. Jaspal Singh | |
| KIS, Slovenia | Principal Entomologist | |
| | Apiculture Unit, Department of Entomology, PAU, Ludhiana | |
| Rapporteur I: | Rapporteur II: | |
| Dr. Renu Pandeay | Dr. J.P. Purwar | |
| Assistant Professor | Professor, | |
| Entomology, GBPUAT, Pantnagar | Entomology, GBPUAT, Pantnagarr | |
| Speaker | Topics | Duration |
| Dr. Lucija Zvokelj | Context Setting: Ethical Apiary Cultivating Compassion at Beekeeping | 20 min |
| Gorazd Trušnovec | Invited Lecture: Urban Beekeeping: Benefits and | 15 min |
| UBAS, Slovenia | Detriments | |
| Dr. Shravan Manbhar Haldhar | Invited Lecture: Altitudinal Modulation of High-altitude | 15 min |
| Principal Scientist ICAR National Research Centre for | Honey Quality from Different Bee Species: Implication for | |
| integrated Pest Management, New Delhi | Enhancing the Human Body Immunity | |
| Dr. Pramod Mall | Invited Lecture: Pesticide Poisoning: A Silent Threat to | 15 min |
| Professor & Head, Dept of Entomology, GBPUAT, | Bees | |
| Pantnagar | | |
| Valentina Cvjetkovic | Invited Lecture: Health of Bees for the Wealth of Human | 15 min |
| Dr. Shantanu Jha | Invited Lecture: Indigenized Techniques of Enhancing | 15 min |
| Professor | Honeybee Production | |
| Department of Entomology, Bidhan Chandra Krishi | | |
| Vishwa Vidyalaya, Kalyani | | |
| Oral Presentations | | |
| Dr. Bhawana Joshi | The Role of Apiculture in Transforming Agricultural | 05 min |
| Senior Entomologist State Beekeeping Centre | Productivity: Opportunities and Challenges | |
| Jeolikote Nainital | _ | |
| Dr. Bharathi Mohindru | Exploring the Seasonal Dynamics of Hygienic | 05 min |
| Punjab Agricultural University | Behavior in Apis mellifera Colonies | |
| Discussion | | 05 min |
| Co-chairs Remarks | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Symposia IV: New Frontiers in Science-Technology-Innovation-Farmers Connect

Symposia Convener: Dr. Ashok K. Singh **Vice Chancellor** Rani Lakshmi Bai Central Agricultural University Jhansi

Date: February 22, 2025 Time:09:00-11:00 hrs. Venue: CABM-MDP Hall

| Session Coordinator: Dr. Ranjay K. Singh, Assistant Dire | ctor General (Agril. Extension), ICAR | | |
|--|---|----------|--|
| Co-Chair I: | Co-Chair II: | | |
| Dr. P. Das | Dr. Ajeet Kumar Karnatak | | |
| Former DDG (AE), ICAR | Vice-Chancellor, MPUA&T, Udaipur | | |
| Rapporteur I: | Rapporteur II: | | |
| Dr. Ashis S Murai | Dr. Shridhar Patil | | |
| ICAR-ATARI, Ludhiana | RLBCAU, Jhansi | | |
| Speaker | Topics | Duration | |
| Dr. A.K. Singh | Context setting | 20 min | |
| Vice Chancellor, | - | | |
| Rani Lakshmi Bai Central Agricultural University, Jhansi | | | |
| Mr. Surendra Verdia | Invited Lecture: Role of Farmers' Organizations in | 15 min | |
| Chief Programme Executive, | Science-Technology-Innovation-Farmers Connect | | |
| BAIF Development Research Foundation | | | |
| Dr. Samuel Praveen Kumar | Invited Lecture: Digital Innovations for Technology | 15 min | |
| Joint Secretary (Extension), MoAFW | Dissemination | | |
| Dr. R. Roy Burman | Invited Lecture: Convergence for Technology | 15 min | |
| Assistant Director General (AE), ICAR | Development and Disseminations | | |
| Dr. Vikram Singh | Invited Lecture: Technology Commercialization | 15 min | |
| Senior Scientist (IP&TM), ICAR | and Incubation for Business Promotion | | |
| Oral Presentations | | | |
| Dr. Ajay | Increasing Soybean Productivity Through | 06 min | |
| Department of Agronomy, College of Agriculture, GBPUAT, | Technology Intervention in Uttarakhand | | |
| Pantnagar | | | |
| Dr. Jitendra Kwatra | Enhancing Women's Efficiency in Nursery Planting | 06 min | |
| GBPUAT,Pantnagar | Through Drudgery-Reducing Tools" | | |
| Discussion | - · · · · | 15 min | |
| Co-chairs Remarks | | 10 min | |



Frontier Sciences and Technologies in Agriculture for Developed India

Symposia V: Innovations in Overcoming Poverty and Malnutrition

Symposia Convener: Dr. K. Madhavan Nair **Former Deputy Director** ICMR-National Institute of Nutrition, Hyderabad

Date: February 21, 2025 Time: 09:00-11:00 hrs. Venue: COCSc-Conference Hall

| Co-Chair I: | Co-Chair II: | | |
|---|--|----------|--|
| Dr. V. Prakash | Dr. Anjani Kumar | | |
| Former Director, CFTRI | Senior Research Fellow | | |
| Karnataka | International Food Policy Research Institute | | |
| Rapporteur I: | Rapporteur II: | | |
| Dr. Anupma, Professor & Head, | Dr. Sakshi, Associate Professor | | |
| Textile and Apparel Designing | Textile and Apparel Designing | | |
| College of Community Science, CAU, Imphal | College of Community Science, GBPUAT, Pantnaga | r | |
| Speaker | Topics | Duration | |
| Dr. K. Madhavan Nair | Context Setting | 10 min | |
| Former Deputy Director, | - | | |
| ICMR-National Institute of Nutrition, Hyderabad | | | |
| Prof. Anura V.Kurpad | Invited Lecture: Climate Change, Nutrition and | 15 min | |
| Professor, | Nutrient Requirements | | |
| Dept of Physiology, | | | |
| St John's National Academy of Health Sciences, Bangalore | | | |
| Dr. Samarasimha Reddy N | Invited Lecture: Survey for Assessment of | 15 min | |
| Scientist-E (Medical) | Markers of Population Health, Activity, Diet and | | |
| Clinical Epidemiology Division | Anthropometry (SAMPADA): Study Protocol | | |
| ICMR- National Institute of Nutrition, Hyderabad | | | |
| Prof Amit Arora | Invited Lecture: Innovations in Bioprocessing | 15 min | |
| Professor, | and Green Chemistry for a Waste-to-Health | | |
| Centre for Technology Alternatives for Rural Areas, Mumbai | , Paradigm | | |
| Dr. Pratha Pratim Sahu | Invited Lecture: Towards a Poverty Free | 15 min | |
| Associate Professor | Village: Challenges and Prospects | | |
| Centre for Entrepreneurship Development and Financial | 5 5 1 | | |
| Inclusion & Head i/c, Centre for Good Governance &Policy | | | |
| Analysis, National Institute of Rural Development and | | | |
| Panchayati Raj, Hyderabad | | | |
| Dr. G.M. Subba Rao | Invited Lecture: Innovative Communication | 15 min | |
| Scientist F & Head, | Approaches in Nutrition to Promote and | | |
| Nutrition Information, Communication & Health Education | Improve Health Literacy | | |
| Division, ICMR - National Institute of Nutrition, Hyderabad | . , | | |
| Dr. Surinder Singh Chauhan | Invited Lecture: Food for a Healthy Planet | 15 min | |
| School of Agriculture, Food and Ecosystem Sciences, | , | | |
| University of Melbourne, Australia | | | |
| Discussion | | 10 min | |
| Co-chairs Remarks | | 10 min | |



Frontier Sciences and Technologies in Agriculture for Developed India

Symposia VI: Frontier Science and Technology for Community Development

Symposia Convener: Dr. Alka Goel Dean, College of Community Science **GBPUAT**, Pantnagar

Date: February 21, 2025 Time: 11:30-13:30hrs Venue: COCSc-Conference Hall

| Session Coordinators: | | |
|--|--|---------------|
| Dr. Aditi Vats | Dr. Archana Kushwaha | |
| Prof. and Head, RMCS, GBPUA&T, Pantnagar | Prof. and Head, FN, GBPUA&T, Pantnagar | |
| Co-Chair I: | Co-Chair II: | |
| Dr. B.S. Bisht | Dr. R.S. Jadoun | |
| Ex Vice Chancellor, GBPUAT, Pantnagar | Dean, CABM, GBPUAT, Pantnagar | |
| Rapporteur I: | Rapporteur II: | |
| Dr. Sapna Gautam | Dr. Anupama Pandey | |
| Prof. & Head, Deptt. of Apparel and Textile Science | I/C EECM, College of Community Science, GBPUAT, | Pantnagar |
| CSK HPKV, Palampur (H.P.) | 5, | U |
| Speaker | Topics | Duration |
| Dr. Manmohan Rawat | Context Setting: Role of Science and | 15 min |
| Sr. Scientist, Head R&D, | Technology in Achieving Sustainable | |
| UCOST, Dehradun, UK | Development Goals for Community Development | |
| Dr. Rita Singh Raghuvanshi | Invited Lecture: | 15 min |
| Emeritus Professor/Former Dean | | |
| College of Community Science, GBPUAT, Pantnagar | | |
| Dr. (Prof.) Surendra Prasad | Invited Lecture: Phytate and its Effect on the | 15 min |
| Prof., Chemistry, School of Agriculture, Geography, | Bioavailability of Fe, Zn and Ca in Selected Foods | |
| Environment, Ocean and Natural Sciences, The University of | | |
| the South Pacific, Suva, Republic of Fiji | | |
| Dr. Leena Kumari | Invited Lecture: Critical Significance of | 15 min |
| Assistant Director, NIPCCD, Lucknow | Stimulation in Early Years of Life | |
| Dr. Manju Dahia | Invited Lecture: Traditional Crafts and Modern | 15 min |
| Prof. & Jt. Director Research, HAU, Hisar | Technologies for Rural Livelihoods | |
| Dr. Sanchita Gupta | Invited Lecture: Building a Fashion House as a | 15 min |
| Fash 'Enable' | Catalyst for Community Empowerment and | |
| New Delhi | Sustainable Development | |
| Oral Presentations | | |
| Dr. Pratibha Singh | Assessment and Improvement of Health Status | 05 min |
| Krishi Vigyan Kendra, Kashipur (GBPUAT, Pantnagar), Udham | Along with Consumption Pattern of Farm Women | |
| Singh Nagar, Uttarakhand | in District Udham Singh Nagar, Uttarakhand | <u>ог</u> . |
| Ms Prity Pant | Nutritional Assessment of College Students of | 05 min |
| Nutrition and Wellness Center, Prantika, First Floor, 2/298, Sector 4, Vaishali, Ghaziabad 201019 | NCR Region And Development of A Nutraceutical | |
| | Beverage fr Health Benefits | <u>10 —:-</u> |
| Discussion Co-chairs Remarks | | 10 min |
| rn-cuailis kellialks | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Symposia VI: Frontier Science and Technology for Community Development

Symposia Convener: Dr. Alka Goel Dean, College of Community Science **GBPUAT**, Pantnagar

Date: February 21, 2025 Time: 14:30-16:30hrs. Venue: COCSc-Conference Hall

Technical Session II: Technological Breakthrough for Community Development

| Session Coordinators: | | | |
|---|---|----------|--|
| Dr. Aditi Vats | Dr. Archana Kushwaha | | |
| Prof. and Head, RMCS, GBPUA&T, Pantnagar | Prof. and Head, FN, GBPUA&T, Pantnagar | | |
| Co-Chair I: | Co-Chair II: | | |
| Dr. A.P. Sharma | Dr. Deepa Vinay | | |
| Ex Vice Chancellor, GBPUAT, Pantnagar | Registrar and Prof., RMCS, GBPUAT, Pantnagar | | |
| Rapporteur I: | Rapporteur II: | | |
| Dr. Seiko Jose | Dr. Neetu Dobhal | | |
| Scientist, CSWRI, Avikanagar | Assistant Professor, FN | | |
| Rajasthan | CoCS, GBPUAT, Pantnagar | | |
| Speaker | Topics | Duration | |
| Dr. Manish Kumar Chatli | Context Setting: Empowering Communities | 15 min | |
| Director, CIRG | through Value Added Livestock Product | | |
| Mathura | Technologies | | |
| Dr. Sapna A. Narula | Invited Lecture: Agriculture Products and | 15 min | |
| Director, CCS NIAM, Jaipur | Marketing for Community Development | | |
| Dr. Surya Rathore | Invited Lecture:Gender Issues and Challenges | 15 min | |
| Head (Acting), Division of Extension Systems Management, | for Community Upliftment | | |
| ICAR – NAARM, Hyderabad (Telangana) | | | |
| Dr. Jaishankar R Nair | Invited Lecture:Nalanda Model of Growing Bag | 15 min | |
| Professor & Dean | for Community Development | | |
| Ecology and Environment Studies | | | |
| Dr. Anand Mohan | Invited Lecture:Oxidized Foods' Nutritional and | 15 min | |
| Associate Professor | Health Dimensions | | |
| Department of Food Science and Technology | | | |
| College of Agriculture and Environmental Sciences, 129 Food | | | |
| Science Building, Athens, University of Georgia, USA | | | |
| Shri Dr. Swami Sarang Mohiley | Invited Lecture: Threads of Unity: Weaving | 15 min | |
| Founder & Director | Communities through Empowerment, Innovation, | | |
| Shree Swami Sarang Global Peace Foundation, Lucknow, UP | and Sustainability | | |
| Oral Presentations | | | |
| Dr. Anuradha Dutta, | In Vitro And in Vivo Quality Assessment Of Leaf | 05 min | |
| G.B.P.U.A.T, Pantnagar | Protein Isolate From Tobacco (Nicotiana | | |
| | Tabacum) Leaves | | |
| Dr. Neelam Kumari | Amla Herbal Jam: A Fusion of Flavor, Nutrition, | 05 min | |
| National Institute of Food Technology Entrepreneurship and | and Innovation | | |
| Management, NIFTEM-K, Sonipat, Haryana. | | | |
| Discussion | | 10 min | |
| Co-chairs Remarks | | 10 min | |



Frontier Sciences and Technologies in Agriculture for Developed India

Symposia VII: Advances in Poultry

Symposia Convener: Dr. A.K. Tiwari Director, ICAR-CARI, Izzatnagar

> Date: February 21, 2025 Time: 11:30-13:30hrs Venue: Ratan Singh Auditorium

Technical Session-I: Frontiers of Sciences and Technology for Poultry Advancement

| Symposia Coordinator: Dr. Pankaj Kumar Shukla, Professor & Head, Veterinary College, DUVASU, Mathura | | | | |
|--|----------------------|-----------------------|----------------------------------|------------------|
| Co-coordinators: | | | | |
| Dr. Rokade, J.J. | Dr. Gautham Kollu | | Dr. Anil Kumar | |
| Scientist (SS), ICAR-CARI, Izatnagar | Scientist (SS), ICAR | -CARI, Izatangar | Professor, LPM, GBPUAT, Pan | tnagar |
| Moderators: | | | | |
| Dr. P.K. Shukla | | Dr. A.S. Ranade | | |
| President, Indian Poultry Science Association | חנ | Former President In | dian Poultry Science Association | |
| Co-Chair I: | Co-Chair II: | | Co-Chair-III: | |
| Dr. Triveni Dutt | Dr. (Prof.) Kusum | | Dr. Simmi Tomar | |
| Director | Dist. Professor, Gal | | General Secretary, Indian P | |
| ICAR-IVRI, Izzatnagar | Ex ADG (HRD), ICAR | , New Delhi | Science Association, Izatnag | jar |
| Rapporteur I: | Rapporteur II: | -L | Rapporteur III: | |
| Dr. Asok M. | Dr. Amitav Bhatta | | Dr. Rajeev Ranjan Kumar | |
| Scientist, IVRI, Izatnagar, Bareilly Speaker | Professor, DUVASU | , Mathura Topics | Associate Professor, Pantnag | jar Duration |
| Dr. R. Prabhakaran | | | unerst Trends and Eutrop | 20 min |
| Former VC, TANUVAS | | Prospects of Indian | urrent Trends and Future | ZU MIN |
| Dr. P.S. Mahesh | | | nart Poultry Farming | 15 min |
| Director, CEAH, DAHDF | | IIIVILEU LEGIUFE: OII | ומרג רטטונויץ ו מרוווווץ | ווווו טו |
| Dr. Suresh Kumar Mittal | | Invited Lecture: Em | ierging Avian Influenza Viruses, | 15 min |
| Distinguished Professor of Virology | | | nd Controlled Strategies | |
| College of Veterinary Medicine, Purdue, Univ | | | 5 | |
| Dr. O.P. Singh | | | dressing Emerging & | 15 min |
| MD Huvepharma SEA | | Remerging Challeng | es for Sustainable Poultry | |
| | | Marketing | | |
| Mr. Suresh Chitturi | | | portance of Eggs for Vikshit | 15 min |
| Managing Director, Srinivasa Farms | | Bharat | | |
| Oral Presentations | | | | 05 |
| Dr. Divya Sharma | | | tation of Mushroom Stem Dried | 05 min |
| ICAR-Central Avian Research Institute, Izatr | iagar, UP | | ty Traits and Serum Biochemical | |
| | | Parameters of Asee | I PEEIA DILOZ | |
| Dr. S.C Giri, | | | r Material in Duck House During | 05 min |
| ICAR-Directorate of Poultry Research, RS, E | 3hubaneswar | Laying Period | _ | |
| Dr. Anshu Rahal, | | | Supplementation on Growth | 05 min |
| Department of Animal Nutrition | | Performance of Rir | Chicks on Cereal Based Diet | |
| GBPUAT, Pantnagar, Uttarakhand | | | | |
| Hussen Ebrahim, | | | ce and Economics of Broiler | 05 min |
| College of Agriculture and Environmental So | ciences | | nted with Amoxicillin, Synbiotic | |
| Diaguastan | | and Thyme essential | | <u>(П</u> ; |
| Discussion Co-chairs Remarks | | | | 10 min 10 min |
| LO-CNAIRS KEMARKS | | | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Workshop

Workshop: Nanotechnology in Agriculture

Symposia Convener: Dr. V.K Singh, Director ICAR-CRIDA Hyderabad

Date: February 21, 2025 Time: 11:30-13:30hrs Venue: CABM-Shiksha Sadan

Technical Session I: The Science of Nanotechnology for Enhancing System Efficiency

| Co-Chair I: | Co-Chair II: | |
|--|--|----------|
| Dr. K.P Singh | Dr. Arvind Kumar | |
| Vice Chancellor, Rohilkhand University, Bareilly | Former Vice Chancellor, RLBCAU Jhansi | |
| Rapporteur I: | Rapporteur II: | |
| Dr. Praveen Uapdhyay | Dr. Guruvinder Singh | |
| Scientist -IARI, New Delhi | Professor Agronomy, GBPUAT, Pantnagar | |
| Speaker | Topics | Duration |
| Dr. Siddharth S. Mukopadhyay | Keynote Lecture: Phosphorus and Zinc: Safe- | 20 min |
| Professor (Ret), | by-Design Novel Nano-materials for Supplying | |
| Punjab Agriculture University, Ludhiana | Nutrients to the Plant | |
| Dr. V.K Singh | Invited Lecture: | 15 min |
| Director, | | |
| ICAR-CRIDA Hyderabad | | |
| Dr. Vinod Saharan | Invited Lecture: Enhancing Crop Productivity | 15 min |
| Professor (Biotechnology), MPUAT, Udaipur | through Nutrient Modulation with Nanomaterials | |
| Dr. Tarunendru Singh, | Invited Lecture: Nano-fertilizers Market in 15 m | |
| Chief Agricultural Services, | Indian and International Perspectives | |
| IFFCO-Delhi | | |
| Dr. S.S. Rathore, | Invited Lecture: Effect of Nano-Fertilization on | 15 min |
| Head Agronomy, | Productivity, Quality and Economics of Cereal | |
| ICAR-IARI-New Delhi | based Systems | |
| Oral Presentations | | |
| Kundarapu Kartheek | Enhance Nutrient use efficiency and farm | 95 . |
| Central Ave, Gillingham, Chatham ME4 4TB, UK | profitability with Nanofertilizer: A sustainable | 05 min |
| | solution for Agriculture development | 95 |
| Joyson Jacob | Development of Nano-Fertilizers for controlled | 05 min |
| Karunya Institute of Technology & Sciences, Tamil Nadu | and sustained nutrient uptake | 95 |
| Alok Singh Jayara | Comparative evaluation of nano urea and foliar | 05 min |
| G.B. Pant University of Agriculture & Technology | spray of granular urea on plant height and yield | |
| | of wheat crop | 15 |
| Discussion | | 15 min |
| Co-chairs Remarks | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Workshop: Nanotechnology in Agriculture

Symposia Convener: Dr. V.K Singh, Director ICAR-CRIDA Hyderabad

Date: February 21, 2025 Time: 14:30-16:30hrs. Venue :CABM-Shiksha Sadan

Technical Session II: Application of Nanotechnology in Agriculture

| Workshop Coordinator: | | |
|---|---|----------|
| Co-Chair I: | Co-Chair II: | |
| Dr. Prabha Sankar Shukla | Dr. Anil Kumar | |
| Vice-Chancellor, | Director Education | |
| NEHU Shillong | RLBCAU, Jhansi | |
| Rapporteur I: | Rapporteur II: | |
| Dr. Tariq Ahmad Sofi | Dr. Adinath Kate | |
| Associate Professor, SKUAST-Srinagar | Scientist, CIAE-Bhopal | |
| Speaker | Topics | Duration |
| Dr. K.S Subramanian | Keynote Lecture: Nano-enabled Systems to | 20 min |
| EX. Director Research, TNAU, Coimbatore, Scientific Advisor | Revolutionize Indian Agriculture | |
| Coromandel International Limited, Hyderabad | | |
| Dr. Ashwani Kumar | Invited Lecture: Strategic Application of Nano- | 15 min |
| Principal Scientist, | fertilizers for Sustainable Agriculture | |
| CSSRI Karnal | | |
| Dr. Ajeet Tomar | Invited Lecture: Novel Nanotechnology | 15 min |
| Executive Director, Lotus Bio Agrovat India, New Delhi | Approach: A Smarter Way for Sustainable | |
| | Agriculture | |
| Dr. Rajeew Kumar | Invited Lecture: Scientific Dimensions of Nano | 15 min |
| Professor (Agronomy), GBPUAT, Pantnagar | fertilizers and its Applications in Agriculture | |
| Oral Presentations | | |
| Dr. Shubham Durgude | Transforming Agricultural waste into functional | 05 min |
| International Maize and Wheat Improvement Center - BISA, | Nano-Biostimulants – A multi-omics approach | |
| Pusa, Samastipur | | |
| Ms Sameena Mehtab | Development of sustainable release | 05 min |
| Department of Chemistry, CBSH GBPUAT, Pantnagar | formulations for controlled released of | |
| | herbicides with electrochemical Insights | |
| Ms Anamika Sajwan | Influence of Nano- Potassium on growth, yield | 05 min |
| G.B. Pant University of Agriculture and Technology | and quality of Damask Rose | |
| Dr. Gulab Chand Yadav | Unlocking the power of Nanoparticles in | 05 min |
| Babasaheb Bhimrao Ambedkar University, Lucknow | Vegetable Crop Innovation | |
| Pratibha Singh | Nitrogen management through Nano urea in | 05 min |
| Rajasthan Agricultural Research Institute, Durgapura | Wheat (Triticum aestivum) | |
| Discussion | | 15 min |
| Co-chairs Remarks | | 10 min |



Frontier Sciences and Technologies in Agriculture for Developed India

Farmers Scientists Interaction Session

Farmers Scientists Interaction Convener: Dr. U.S. Gautam Deputy Director General (AE), Indian Council of Agricultural Research New Delhi

Date: February 22, 2025 Time: 09:00-11:00 hrs. Venue: Gandhi Hall

| | | Si Sanan nan |
|--|---|--------------|
| Session Coordinator: Dr. R. Roy Burman, ADG (AE), ICAR | 1 | |
| Co-Chair I: | Co-Chair II: | |
| Dr. A.K. Singh | Dr. J. P. Sharma | |
| Vice Chancellor, RLBCAU, Jhansi | Former VC, SKUAST-J | |
| Rapporteur I: | Rapporteur II: | |
| Dr. Arpita Sharma | Dr. Madan Singh | |
| GBPUAT | ICAR-IVRI | |
| Speaker | Topics | Duration |
| Dr. U. S. Gautam | Context Setting | 15 min |
| Deputy Director General (AE), ICAR | - | |
| Sh. Bharat Bhushan Tyagi | Invited Lecture: Farmers Innovation – Upscaling | 15 min |
| Padmashree Farmer | and Out-scaling | |
| Sh. Sethpal Singh | Invited Lecture: Institutionalizing Farmers | 15 min |
| Padmashree Farmer | Innovation | |
| Dr. Parvender Sheoran | Invited Lecture: Mainstreaming Farmers | 15 min |
| Director, ICAR-ATARI, Zone I, Ludhiana | Innovation | |
| Dr. B.S. Mandal | Invited Lecture: Upscaling and Out-scaling | 15 min |
| Director Extension Education, CCSHAU, Hissar | Farmers Innovation – Role of SAUs | |
| Dr. J.P. Mishra | Invited Lecture: Capacity Development of Farmer | 15 min |
| Director, ATARI, Jodhpur | Innovators | |
| Discussion | | 15 min |
| Co-chairs Remarks | | 15 min |

Local Coordinator:

Dr. Jitendra Kwatra, Director Extension Education, GBPUAT, Pantnagar Email: dirextedugbp@gmail.com Contact: 7500241509



Frontier Sciences and Technologies in Agriculture for Developed India

Industry Academia Interface

Industry Academia Interface Convener:

Dr. K.M. Bujarbaruah,

Former Vice President, NAAS and Former VC, AAU Jorhat

Date: February 22, 2025; Time: 09:00-11:00hrs; Venue: MDP Hall

| Session Coordinator: Dr. Praveen Malik, CEO, AGRINNOVA | | |
|---|---|-------------|
| Co-Chair I: | Co-Chair II: | |
| | | |
| Dr. Ravi Hegde Global Regulatory Lead for Asset Management & Regulatory | Mr. Ajay Rana CED and Managing Director, Savannah Seeds Pvt | 1+4 C |
| Strategy, UPL India Pvt Ltd | Chairman, Federation of Seed Industry of India | |
| Rapporteur I: | Rapporteur II: | |
| Dr. Ritika Bhatt | Dr. Sneha Dohre | |
| Assistant Professor, GBPUAT | Assistant Professor, GBPUAT | |
| | Topics | Duration |
| Dr. K.M. Buienhamuch | Context Setting | 05 min |
| Dr. K.M. Bujarbaruah, | Context Setting | |
| Former Vice President, NAAS and Former VC, AAU, Jorhat | | |
| Keynote Speakers | K | <u>ات</u> : |
| Dr. Sudhansu Pathak | Keynote Lecture: | 15 min |
| Vice-President (HR), JK Industries, New Delhi | | |
| Speakers | | • •• |
| Dr. R. Ravi Babu | | 8 min |
| General Manager, | | |
| Farm Sector Development Department, NABARD | | — · |
| Dr. V.S. Chauhan | | 8 min |
| JK Agri Genetics Ltd. | | • • |
| Shri Roshan Tamak | | 8 min |
| Exe. Director & CEO, Sugar Business DCM Shriram LTD | | • • |
| Mr. Ajay Rana | | 8 min |
| CED and Managing Director, Savannah Seeds Pvt Ltd & | | |
| Chairman Federation of SeedIndustry of India | | — · |
| Dr. Praveen Malik | | 8 min |
| CEO, Agrinnovate India, An ICAR Company | | — · |
| Dr. R.S Jadoun | | 8 min |
| Dean, College of Agri-business Management | | • • |
| Mr. Rajvir Singh Rathi | | 8 min |
| Director Public Affairs, Science and Sustainability, | | |
| Bayer Crop Science India | | <u> </u> |
| Dr. Ruchira Saini | | 8 min |
| Corteva Agri Sciences India Pvt Ltd | | • •• |
| Dr. Ashutosh Singh | | 8 min |
| Professor, Agri Business Management, GBPUAT | | 10 |
| Discussion (questions from audience) | | 10 min |
| Co-chairs Remarks | | 10 min |

Local Coordinator:

Dr. R.S. Jadoun,

Dean, College of Agribusiness Management, GBPUAT, Pantnagar, Email: rsjadoun@gmail.com;Mob: 9456470344



Frontier Sciences and Technologies in Agriculture for Developed India

NAAS-YUVA (Youth United for Visionary Agriculture)-Student Interaction

Conveners: Dr.(Ms.) Haritha Bollinedi Convener, NAAS-YUVA

Dr. P.K. Meher Co-Convener, NAAS-YUVA

> Date: February 21, 2025; Time: 17:45-18:30hrs; Venue: MDP Hall, CABM

| Co-Chair I: | Co-Chair II: | |
|---|-------------------------|----------|
| Dr. Ashok K. Singh | Prof. K.M. Maredia | |
| Secretary, NAAS | Foreign Secretary, NAAS | |
| Rapporteur I: | Rapporteur II: | |
| | Topics | Duration |
| Dr.(Ms.) Haritha Bollinedi | Context Setting | 10 min |
| Convener, NAAS-YUVA | | |
| Presentation by NAAS-YUVA Infographic Competition | | |
| Winners | | |
| First Prize Winner | | 05 min |
| Ms. Simranjot Kaur | | |
| Punjab Agricultural University | | |
| Second Prize Winner | | 05 min |
| Mr. Dhanraj D. | | |
| Indian Institute of Agriculture Research - Mega University, | | |
| Hyderabad Hub | | |
| Third Prize Winner | | 05 min |
| Sh. Pritam Roy | | |
| ICAR-National Dairy Research Institute, Karnal | | |
| Discussion and Interaction with Competition Finalists | | 10 min |
| Co-chairs Remarks | | 10 min |

XVII Agricultural Science Congress & ASC Expo February 20-22, 2025

Pantnagar, Uttarakhand, India



Frontier Sciences and Technologies in Agriculture for Developed India

Students' Elocution Contest

Date: February 21, 2025; Time: 09:00-11:00 hrs.; Venue: PCPGR

Convener

Dr. V. Geethalakshmi, VC TNAU Email: vctnau@tnau.ac.in Contact: 0422-6611251, 6611307, 2431672 (F); Mob: 9442319333

Co-Conveners

Dr. Anupama Singh, Joint Director Education and Dean, ICAR-IARI Email: anupma@icar.gov.in; dean@iari.res.in; anupamanil2000@gmail.com Contact: 8920154670

Judging Committee

Dr. S.K. Sharma, ADG (HRM), ICAR Email: adghrm.icar@gmail.com; shanti.sharmal@icar.gov.in Dr.(Ms.) Bimlesh Mann, Assistant Director General (Education Planning & Home Science), ICAR Email: bimleshmann@gmail.com; Bimlesh.Mann@icar.gov.in; adg.ephs@icar.gov.in; bmann@rediffmail.com Contact: 9896245110, 9996347373 Dr. Ranjay Kumar Singh, Asstt. Director General (Agril. Extension), ICAR

Email: ranjaysingh_jbp@rediffmail.com; ranjaysingh74@gmail.com Contact:9996643037

Local Coordinator

Dr. Shivendra Kashyap Dean, College of Agriculture, GBPUAT, Pantnagar Email: kashyapsk@gmail.com, agpdean@yahoo.com Contact:7500241487

Students' Job Fair

Date: February 21, 2025; Time: 14:30-16:30 hrs; Venue: CABM-EDP

Convener Dr. Bimlesh Mann, ADG (EPBHS), Agriculture Education Division, ICAR Email: adg.ephs@icar.gov.in Contact: 91-11-25841760; 9896245110

Local Coordinator

Dr. M.S. Negi Director, Training and Placement, GBPUAT, Pantnagar Email: drmsnegi22@gmail.com Contact: +91 9412370194 XVII Agricultural Science Congress & ASC Expo February 20-22, 2025

Pantnagar, Uttarakhand, India



Frontier Sciences and Technologies in Agriculture for Developed India

Startup Track

Date: February 21, 2025; Time: 09:00-13:30 hrs; Venue: Conf. Hall NCT

National Convener

Dr. V.P.S. Arora

Principal Advisor Shri Venkateshwara Group of Institutions Formerly Vice Chancellor Kumaun University, Nainital and Professor Emeritus at Sharda University, Greater Noida, India Email: vpsarora@gmail.com Mob: 9999575644

Convener

Mr. Ratnesh Pandey Email: ratnesh.pandey@pantnagarcapital.in Contact: 9980017545

Ms. Shefalika Sharma Email: shefalika.sharma@pantnagarcapital.in Contact: 810541009

Local Coordinator

Dr. Ashutosh Singh

Professor CABM and Ex Director, Legal, GBPUAT, Pantnagar Email: drashutoshcabm@gmail.com Contact: +91 9760409527

Exhibition

Date: February 20-22, 2025; Time: 09:00-20:00 hrs (every day); Venue: Gandhi Park

Convener

Dr. Subhash Chandra Professor, Agronomy, College of Agriculture GBPUAT, Pantnagar Email: schandra_1961@yahoo.com Contact: 99719054085

Co-Convener

Dr. A.K. Singh

Professor, Horticulture, College of Agriculture, GBPUAT, Pantnagar Email: drashokkumar7l@gmail.com Contact: 9411324825 XVII Agricultural Science Congress & ASC Expo February 20-22, 2025



Pantnagar, Uttarakhand, India

Frontier Sciences and Technologies in Agriculture for Developed India

Poster

Date: February 21-22, 2025; Time: 09:00-20:00 hrs (every day as per schedule); Venue: Main Pandal

Local Coordinator

Dr. Vinod Kumar Professor, IDED, College of Technology, GBPUAT, Pantnagar Email: doctor balyan@yahoo.co.in Mobile: 9411320050

Local Co-Coordinator

Dr. Gurvinder Singh Professor, Agronomy, College of Agriculture, GBPUAT, Pantnagar Email: guruagronomy@gmail.com Mobile: 9456067551

Transport and Accommodation

Local Coordinator

Dr.S.K. Verma Joint Director-CRC, GBPUAT, Pantnagar Contact: 7817005215

Local Co-Coordinator

Dr. Anil Kumar Joint Director Research-SPR, GBPUAT, Pantnagar Email: yaduanil@gmail.com Contact: 9412120959, 7017667690

Organizing Secretary

Dr. Ajeet Singh Nain Director Research, GBPUAT, Pantnagar Email: desgbpuat@gmail.com, padesgbpuat@gmail.com Mob: 6395029641



XVII NAAS ASC 2025

Congress Chair

Dr. Himanshu Pathak Secretary DARE & DG, ICAR President National Academy of Agricultural Sciences (NAAS)

Congress Secretariat

Prof. (Dr.) M.S. Chauhan Convener & Vice Chancellor

> Dr A. S. Nain Organizing Secretary & Director Research

GB Pant University of Agriculture and Technology, Pantnagar, Uttarakhand, India

> Contact E-mail: 17asc.2025@gmail.com Phone:+91-78-1788-2025 Website: www.17asc2025.in