



ISAA

SYMPOSIUM 2025 BRAZIL

THE 13TH ISAA SYMPOSIUM PROGRAM
RIO DE JANEIRO, BRAZIL

APRIL 6 - 11, 2025

The ISAA Scientific Committee reserves the right to adjust the program at any time.

Sunday, April 6th

13:00-16:00 Trade Show Setup

15:00-18:00 Registration Open

Monday, April 7th

9:00-12:00 Trade Show Setup

9:00-17:00 Registration Open

12:00-13:30 Lunch

14:00-14:30 Opening Remarks

14:30-15:20 Keynote: Development Sustainable and Integrated Crop Protection Formulation Solutions

Presenter: Hui Shao

Affiliation: Corteva

15:20-15:40 Innovative Solutions for Addressing Challenges in Agrochemicals: A Focus on Crystal growth inhibitor, Formulation Stability and Rainfastness

Presenter: Filiz Yapici

Affiliation: Levaco Chemicals GmbH

15:40-16:00 Leverage adjuvants to reduce environmental impact of crop protection formulations Presenter: Andre Karadi

Affiliation: BASF Corporation

16:00-16:30 Coffee Break

16:30-16:50 Translating Adjuvant Science into Products for Growers in Brazil

Presenter: César Silva

Affiliation: Syngenta

16:50-17:10 Overview of Viscoelastic Properties of Leaf Surfaces/Cuticles: Response to Environmental Conditions, Aging, and Adjuvants

Presenter: Natalia Lebedeva

Affiliation: Syngenta Crop Protection

17:10-17:30 Artificial Neural Networks as a powerful tool to predict bioefficacy notes based on weed photosynthesis after herbicide application

Presenter: Roberto de Oliveira Portella

Affiliation: Crop Solutions, Indorama Ventures

17:30-17:50 A novel non-microplastic adjuvant for high performing retention and rainfastness properties

Presenter: Ruifei Wang

Affiliation: Nouryon

18:00-19:30 Opening Cocktail Reception

Tuesday, April 8th

9:00-17:00 Registration Open

Sustainability

8:30-9:20 Keynote: Controlled-Environment Agriculture: Opportunities in High-Tech Food Production for the Agrochemical Industry

Presenter: Q. Willam Meng

Affiliation: University of Delaware

9:20-9:40 Eco-toxicity of different agricultural tank-mix adjuvants

Presenter: Daniel Bonn

Affiliation: Van der Waals-Zeeman Institute, University of Amsterdam

9:40-10:00 Discovery Guar: A Versatile and Sustainable Technology for Agricultural Applications

Presenter: Ana Paula Bodemeier

Affiliation: Syensqo

10:00-10:30 Coffee Break

10:30-10:50 Utilizing Vegan Wax as a Microplastic-Free Additive in Agrochemical Formulations

Presenter: Yuliang Wang

Affiliation: Innospec Inc.

10:50-11:10 Enhancing Glufosinate Ammonium Efficacy with Novel Adjuvant

Presenter: Ganesh Sangarwar

Affiliation: Syensqo

11:10-11:30 Novel Biodegradable Superspreader for Agrochemical Formulations

Presenter: Jeferson Naue

Affiliation: Momentive Performance Materials

11:30-11:50 Foliar wetting enhancement by alkoxyated alcohol

Presenter: Chris Pawling

Affiliation: Stepan Company, Global Technology Center

11:50-12:10 Novel Amphoteric Adjuvant for Enhanced Herbicide Uptake and Weed Control

Presenter: Gabriela Almeida

Affiliation: Indorama Ventures – Indovinya

12:10-12:30 Synergistic effects in mixtures of adjuvants and the impact of the latter on the biological effectiveness of herbicides

Presenter: Olga Ulybina

Affiliation: Avgust Crop Protection

12:30-14:00 Lunch

Soil and Water Concerns

14:00-14:20 Enhancing Soil Water Management in Irrigated Crops with a Soil adjuvant

Presenter: Roberto de Oliveira Portella

Affiliation: Crop Solutions, Indorama Ventures

14:20-14:40 Optimizing Soil Moisture and Building Resilience to Water-related Challenges Using Adjuvants

Presenter: Javier Campos

Affiliation: Clariant

14:40-15:00 Water conditioner with the function of correcting boron deficiency for foliar application with microfertilizers based on boron ethanolamine

Presenter: Ivan Orgei

Affiliation: UAB Nando

15:00-15:20 Assay for the Selection of Adjuvants for Pre-Emergent Herbicides

Presenter: Jason Wall

Affiliation: Croda Inc.

15:20-17:30 Poster Session I / Coffee Break

17:30-19:30 Cocktail Reception

Wednesday, April 9th

Biological Workshop

8:30-9:00 Biological Innovation in Agriculture: Trends and market opportunities

Presenters: X. Sam Zhu

Affiliation: Corteva

9:00-9:20 Compatibility of Co-formulants with Agricultural Biological Strains

Presenters: Xiangtao Meng, Caroline Woelfle-Gupta, Ashish Jayaraman, Lucelena Cardoso, Henrique Alves

Affiliation: Dow Chemical Company

9:20-9:40 Improvement of shelf life and the biological efficacy of microbes in formulations

Presenter: Ryan Stiltoner

Affiliation: Evonik Operations GmbH

9:40-10:00 Cutting edge nanoemulsion adjuvant technology to improve foliar applied biological formulations

Presenter: Katharina Grundler

Affiliation: Clariant Brasil Ltda

10:00-10:20 Coffee break

10:20-10:40 Management of insect/pest of Poplar Defoliator (*Clostera cupreata*) through biological means

Presenter: Rashmi Sehrawat

Affiliation: Department of Basic Science, Sardar Vallabh Bhai Patel University of Agriculture and Technology

10:40-11:00 Formulating biopesticides – approaches to effective and reliable microbial formulations for agriculture

Presenters: Raquel Tomboly, Guilherme Freitas, Carlos Oliveira

Affiliation: Croda do Brasil

11:00-11:20 Biobased Co-formulants for Biocontrol Formulations

Presenter: Abby Smith

Affiliation: Borregaard USA

11:20-11:40 Enhancing versatility of oil adjuvants in terms of biocompatibility and formulability by targeted release microencapsulation

Presenters: Alexandre Brosse¹, Peter Baur²

Affiliations: 1: Calyxia, 2: CropPromotion

11:40-12:00 Biologicals: Liquid carriers for ease of use and shelf-life extension

Presenters: Celine Orizet

Affiliations: Syensqo RIC Paris

12:00-13:00 Grab and Go Lunch

13:00-17:30 Excursion: Christ the Redeemer

18:30-21:30 ISAA Banquet

Thursday, April 10th

Environmental Effects and AI, ML

8:30-8:50 AX22227 A Novel Pesticide Adjuvant to Reduce Drift and Improve Deposition and Efficacy

Presenter: Ryan Rector

Affiliation: Adjuvants Unlimited, LLC

8:50-9:10 Adjuvant for cotton defoliant application

Presenter: Jason Chen

Affiliation: Stepan Asia Pte Ltd

9:10-9:30 Design of New Adjuvants Accelerated by Machine Learning

Presenter: Peter Westbye

Affiliation: Nouryon

9:30-9:50 Computational and Experimental Strategies to develop TLR4 agonist Peptides as Potential Vaccine Adjuvant

Presenter: Vijay Kumar Prajapati

Affiliation: Department of Biochemistry, University of Delhi South Campus

9:50-10:10 Special alkoxyates as label-free multifunctional components for improved bio-efficacy

Presenter: Luciana Bodelon

Affiliation: Clariant

10:10-10:40 Coffee Break

UAV Applications - I

10:40-11:00 The effect of a rainfastness adjuvant (IPP-04) on improving the control efficacy of UAVs application pesticide against Fusarium head blight of wheat

Presenter: Xiaojing Yan

Affiliation: Key Laboratory of Integrated Pest Management in Crops, Ministry of Agriculture, Institute of Plant Protection, Chinese Academy of Agricultural Sciences

11:00-11:20 Evaluation of the droplet spectrum generated in drone applications using a wind tunnel

Presenter: Ulisses R. Antuniassi

Affiliation: São Paulo State University (UNESP)

11:20-11:40 Strategic Adjuvant Selection for Enhanced Efficacy in UAV-Based Pesticide Applications

Presenter: Huizhu Yuan

Affiliation: Key Laboratory of Integrated Pest Management in Crops, Ministry of Agriculture, Institute of Plant Protection, Chinese Academy of Agricultural Sciences

12:30-14:00 Lunch

Formulations

14:00-14:20 Evaluating Sustainable Alternatives to Nonylphenol Ethoxylates in Agricultural Formulations

Presenter: Shawn Dickess

Affiliation: BASF Corporation

14:20-14:40 Biodegradability as a prerequisite for sustainable agrochemical formulation

Presenter: Doris Kremzow-Graw

Affiliation: BASF SE

14:40-15:00 Rheology modifiers for oil dispersion formulations

Presenter: Shrikant Aherkar

Affiliation: Stepan Asia Pte Ltd

15:00-15:20 Maleated Natural Oil Dispersants for Use in Agriculture

Presenter: William C. Floyd III

Affiliation: Ethox Chemicals LLC

15:20-15:40 All-in-one OD formulation solutions for biologicals

Presenters: Renaud Perrin¹, Amel Madmar¹, Alexander Nikoloff³, Hanna Leffort³, Abbey Sells³, Eric Weber³, Chris Pawling², Ron Masters³

Affiliations: 1. Stepan Europe S.AS, 2. Stepan Agricultural Innovation Center, 3. Stepan Global Technology Center

15:40-16:00 Innovative and sustainable solvents associations for high performing fungicides ECs

Presenter: Monique Adamy

Affiliation: Syensqo Novecare Agricultural Specialties

16:00-18:00 Poster Session II / Coffee Break

18:00-19:30 Cocktail Reception

Friday, April 11th

UAV Applications - II

8:30-8:50 Drift reduction and aerial application

Presenters: Andre Karadi, Jiao Wang

Affiliation: BASF Corporation

8:50-9:10 Improving Drone Application efficiency by increasing actives deposition and droplet coverage

Presenter: Heloisa Gonçalves

Affiliation: Indorama Ventures – Indovinya

9:10-9:30 Digitization and Practice of Drone Spraying System

Presenter: James Qin

Affiliation: Jiangsu SinvoChem S&T Co, LTD.

9:30-9:50 Evonik's Novel Adjuvants for Drone Application Technology in Agriculture

Presenter: Rene Haensel

Affiliation: Evonik Operations GmbH

9:50-10:10 Adjuvant Technology for Enhancing Drone Spray Deposition and Coverage

Presenter: Stephanie Gießler-Geiß

Affiliation: Clariant

10:10-10:30 Coffee Break

10:30-12:00 Panel Discussion: Global Perspective: Technology and Regulatory Impact on Adjuvant Development

12:00-12:15 Final Remarks

12:15-12:30 Symposium Adjourns

Poster Session

1. How to design liquid formulations of fungi spores obtained from liquid fermentation
Presenters: Laís Caroline Rissatto, Poliana Cardoso-Gustavson
Affiliation: Agrivalle, Industry and Commerce of Agricultural Products S.A, Brazil
2. Harvesting the Future: Integrating AI and Machine Learning in Adjuvants Research, Development and Innovation
Presenters: Marcelo Hilário Figueira Garcia
Affiliation: Sell Agro, Research, Development and Innovation Dept
3. The Challenges for Precision Application and the Role of Adjuvants
Presenter: Simon Caldwell
Affiliation: Syngenta
4. Tank Mix Solutions from Syensqo - Overcoming Challenges of the Adjuvants used for the Drone Spray Applications
Presenter: Ritu Ahuja
Affiliation: Syensqo China
5. Optimizing Seed Coating Performance: The Critical Role of Binder Mechanical Properties in Sustainable Agriculture
Presenter: Alexandra Aulova
Affiliation: Nouryon Surface Chemistry
6. How Silicones benefit biological systems as co-formulants
Presenter: Eliane Emond
Affiliation: Elkem Silicones France
7. Prediction of Spray retention via surface tension measurements
Presenter: Markus Fiess
Affiliation: BASF SE
8. Many hands make light work: Speeding the biologicals formulation development through co-development
Presenter: Ana Paula Bodemeier
Affiliation: Syensqo
9. Optimization of the Early Detection of Toxicity in Biological Formulations
Presenter: Sam Zhu
Affiliation: Corteva

10. Design and Investigation of Hyper-dispersant for High-Loading OD Formulation
Presenter: James Qin
Affiliation: Jiangsu SinvoChem S&T Co., Ltd
11. Molecular modeling tools to identify a new, aprotic, high-performance solvent for agrochemical formulations
Presenter: Adam Blanz
Affiliation: BASF SE
12. Preservation challenges in agricultural biological formulations: best practices and approaches
Presenter: Alexandra Paschoalin
Affiliation: Clariant Brasil Ltda.
13. Hostapur CW: plant derived tool to mitigate abiotic stress in Crops
Presenter: Pablo Rodriguez
Affiliation: Clariant Argentina
14. Rational Design of New Pesticide Bioactivators: In vitro Test Method and Agronomic Efficacy
Presenter: Oleksandra Zavgorodnya
Affiliation: Syensqo
15. Cross Indication Adjuvants Combining High Performance and Formulation Properties
Presenters: Renaud Perrin¹, Jordan Craft², Ansley Almond²
Affiliation: 1. Stepan Europe S.AS, 2. Stepan Agricultural Innovation Center
16. Agnique® PG Alkyl Polyglucosides: Surfactants for Agricultural Applications
Presenter: Shawn Dickess
Affiliation: BASF
17. Performance of built-in foliar uptake adjuvants based on 2-ethyl hexyl alkoxyates
Presenter: Monique Adamy
Affiliation: Syensqo Novicare Agricultural Specialties
18. Tank-mix adjuvants improved spray performance and biological efficacy in rice insecticide application with unmanned aerial spraying system
Presenter: Changling Wang
Affiliation: College of Science, China Agricultural University
19. Clariant VITA product range of 100% bio-based and fully segregated surfactants for more sustainable crop protection formulations
Presenter: Jenifer Rocha
Affiliation: Clariant

20. Modified Cellulose Ethers as Drift Control Agent in Spray Application
Presenters: Q. Wendy Yuan-Huffman, Mojahed Islam
Affiliation: Nouryon
21. AltaHance™ Multifunctional Adjuvants with Tunable Rainfastness
Presenter: Petr Koutnik
Affiliation: Ingevity Corporation
22. Nouryon solutions for Biologicals
Presenter: Bruna Burger
Affiliation: Nouryon
23. New Powerful and Flexible Polymeric Dispersing Agents
Presenters: Mojahed Islam, Q. Wendy Yuan-Huffman
Affiliation: Nouryon
24. Polymeric Dispersants
Presenters: Ashley Leroi, José Santiago, Maxime Feche, Nicolas Toselli, Romane Bellec, Sandrine Monthei
Affiliation: Stepan Europe S.A.S.
25. To develop a more sustainable in-can adjuvant for glufosinate that enhances its performance in low humidity conditions
Presenters: Ferry Hermawanto, Ching Lee
Affiliation: Nouryon
26. Effect of animal protein and sphingolipid derivatives on glyphosate effectiveness
Presenter: Julio Menendez
Affiliation: Universidad de Huelva. Dept. Ciencias Agroforestales, E.T.S.I.
27. Superior Performance of Sprayfix: A Natural Terpene-Based Adjuvant Compared to Commercial Benchmarks in Glyphosate Formulations
Presenter: Julio Menendez
Affiliation: Universidad de Huelva. Dept. Ciencias Agroforestales, E.T.S.I.
28. Comparative Study of Glyphosate Rainfastness with Latex, Organosilicone, and Mixed-Function Adjuvants
Presenter: Julio Menendez
Affiliation: Universidad de Huelva. Dept. Ciencias Agroforestales, E.T.S.I.
29. Evonik's biobased sustainable multifunctional adjuvants
Presenter: Marta Gomes
Affiliation: Evonik Brasil Ltda.

30. Enhancement of pesticide penetration with a novel MSO-based adjuvant
Presenter: Marc McPherson Ph.D.¹, Alissa Singer²
Institution: 1. Evonik Corporation, 2. Evonik Operations GmbH
31. Effect of vegetable-methylated oils on sulfonylurea effectiveness
Presenter: Julio Menendez
Affiliation: Universidad de Huelva. Dept. Ciencias Agroforestales, E.T.S.I.
32. Optimizing Adjuvant Selection in Agrichemical Formulations
Presenter: Ke Min
Affiliation: Corteva Agriscience
33. Enhancing the bioefficacy of NPK fertilizers in soil applications with Silwet Power
Presenter: Mayur Kankale
Affiliation: Momentive Performance Materials Inc.
34. A New Biodegradable Organosilicone Super-spreader for Biological Spray Applications
Presenter: Michael Shields
Affiliation: Momentive Performance Materials Inc.
35. Dispersogen® PSL 100: high performing dispersant to address seed treatment formulation challenges
Presenter: Robert Milbradt
Affiliation: Clariant
36. SURFOM® 8963 New solution for Ammonium-Glufosinate liquid high load
Presenter: Gabriela Almeida
Affiliation: Indorama Ventures – Indovinya
37. SURFONIC® AG 1700/1705 - Special solvents for agrochemical compositions
Presenter: Gabriela Almeida
Affiliation: Indorama Ventures – Indovinya
38. Boosting Performance of Next Generation Fungicides with an Organosilicone Adjuvant
Presenter: Thiago Czelusniak
Affiliation: Momentive Performance Materials Ind. Sil. Ltda.
39. Organosilicone-based spray adjuvant for drone applications
Presenter: Taylor Gold
Affiliation: Momentive Performance Materials Inc.
40. TERSPERSE® 2612 - Novel polymeric dispersant for agrochemical formulations
Presenter: Anthony Mai
Affiliation: Indorama Ventures – Indovinya

41. The power of powder surfactants to maximize biological agent effectiveness
Presenter: Luis Gustavo Fávoro Gouvea
Affiliation: Nouryon's Technical Services team for Agriculture and Food in South America
42. Unleashing phosphate ester potential A Suspo-emulsion development case study
Presenter: Luiz Fellipy Borges
Affiliation: Nouryon's Technical Services team for Agriculture and Food in South America
43. Overcoming the potential for adjuvant induced phytotoxicity in citrus applications
Presenter: Z.Y. Cao
Affiliation: Momentive Performance Materials Inc.
44. Ashland easy wet 300 n sustainable wetting agent
Presenter: Kiel Moore
Affiliation: Global Technology Group Leader, Crop Care
45. Geraniol as an Adjuvant to Enhance Agrochemical Delivery for Effective Control of HLB in Citrus Leaves Presenters: Huizhu Yuan, Shuning Chen, Daibin Yang, Xiaojing Yan
Affiliation: China and Key Laboratory of Integrated Pest Management in Crops, Ministry of Agriculture, Institute of Plant Protection, Chinese Academy of Agricultural Sciences
46. Enhancing tank mix application with Agrilan 1084: The ultimate compatibility solution
Presenter: Bruna Bürger
Affiliation: Nouryon's Technical Services team for Agriculture and Food in South America
47. Energy-efficiency improvements for producing liquid pesticide dispersions
Presenter: Ivanov Roman
Affiliation: Avgust Crop Protection
48. Boosting Agrochemical Effectiveness with Sustainable Solvent Solutions
Presenter: Rafael Pires-Oliveira
Affiliation: Eastman
49. Advancing Agrochemicals: The Future of Seed Coatings with Microplastic-Free Binders
Presenter: Ana dos Santos
Affiliation: Eastman
50. High-performance acid adjuvant - foam break and inhibition solution
Presenter: Giulia Piagentini Delpino
Affiliation: Stepan Company

51. BIOMAP - Rapid Assessment of Co-Formulant Biocompatibility with Bacteria and Fungi in Biopesticide Formulations
Presenter: Isabella Kitano
Affiliation: Indorama Ventures – Indovinya
52. Dry Additives for Agrochemical Formulation Applications
Presenter: Yuliang Wang
Affiliation: Innospec Inc.
53. Adjuvants for Biofungicides
Presenter: Jiao Wang
Affiliation: BASF Corporation, Care Chemicals
54. Novel Polymeric Dispersant for Next Generation Biological Formulations
Presenter: Isabella Kitano
Affiliation: Indorama Ventures – Indovinya
55. Agnique Biohance - Enhancers for Biological Actives in Biopesticides Formulations
Presenter: Jiao Wang
Affiliation: BASF Corporation, Care Chemicals
56. Validation of Performance for Sustainable In-Can Preservatives in Agricultural Formulations
Presenter: Coralie Mission
Affiliation: Minagro SRL