

August  
22 TO 31  
2025



**XXXII  
ISSCT  
CENTENNIAL  
CONGRESS**  
CALI - COLOMBIA  
Digital - Innovative - Sustainable

# XXXII ISSCT CENTENNIAL Congress 2025

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# Just a Little Time Left Until We Celebrate the 2025 World Sugarcane Congress!

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The **XXXII ISSCT Centennial Congress 2025** is one of the most highly anticipated events for professionals and the global sugarcane agroindustry. It is a key space for connection, knowledge sharing, and shaping the future of the agroindustry.

From Cali, Colombia, we are ready to host this landmark event, featuring cutting-edge technology and unique experiences you won't want to miss. In this newsletter, you will find information about the technical topics that shape the interesting academic programme, as well as details on pre- and post-congress activities and other useful information to support your participation.

Join us in celebrating the 100th anniversary of the organisation that has transformed the sugarcane agroindustry worldwide – and let's keep building its future together!



## PRECONGRESS

On the 22nd and 23rd of August 2025, we will begin the technical visits of the Pre-Congress, during which participants will closely observe the best agricultural and industrial practices at several sugar mills in Valle del Cauca, Cauca, and Risaralda, as well as at the Sugarcane Research Center of Colombia, Cenicafé.

**USD \$280 | INCLUDES**



Lunch



Transport



Tour guide

### Transport for Pre-Congress Participants

The Congress will provide private transport from Cali Airport to the hotels of all participants. During the Pre-Congress, daily transport will also be provided from the hotels to the technical visits at the mills and back.

For those attending the visits in Risaralda and Riopaila, there are two arrival options:

1. Fly to Pereira Airport, with private transport to the hotel in Pereira.
2. Fly to Cali Airport, with road transfer to Pereira (approx. 220 km – 3-hour journey).

On Sunday, 24 August 2025, participants staying in Pereira will be transferred to Cali via private transport.

## TOPICS OF EACH TECHNICAL VISIT



1. New resilient varieties from CENICAÑA Colombia
2. Biodiverse sugarcane fields and natural corridors
3. Climate-smart agriculture in sugarcane
4. Digital agriculture and site-specific agriculture (SSA)
5. SmartCane Operations Center
6. Smart factory solutions: digital tools for the sugarcane industry
7. Harnessing the bioenergy potential of sugarcane by-products
8. Transfer and extension strategies for sustainability



**Factory**

1. Milling: Preparation and Extraction
2. 100% Mechanical Harvest Management in a Refining Process
3. Alcohol Production and Added Value from Stillage: Additives for the Construction and other Industries
4. The Golden Age of Paper in Pursuit of Sustainability for Packaging



### Field-Harvest

1. Sustainability: technical irrigation, sustainable practices, compost application.
2. Harvest: Sugarcane transportation using natural gas, ethanol-diesel, and electric-fueled tractor-trailers.
3. Precision Agriculture: Control room.



### Factory

1. Preparation and grinding station.
2. Evaporation and crystallization.
3. Cogeneration.
4. Distillery: Fermentation, distillation, dehydration, and evaporation of vinasse.



### Field-Harvest

1. Development of a strategic irrigation plan: technical irrigation: high-frequency irrigation with controlled water levels.
2. Use of drones for field work and crop optimization.
3. Predictive models for sucrose and TCH.
4. Ecological Park: restoration and characterization of birds and sustainability with increased organic farming areas.



### Factory

1. Visit to the preparation and milling station.
2. Heating technologies: plate and plate heating.
3. Use of multi-calender first-effect evaporators.



### Field-Harvest

1. Heat treatment of seeds and seedbed management
2. Seed cutting and mechanized sowing
3. 100% mechanized harvesting process



### Factory

1. Cogeneration; Incauca, the country's largest cogeneration plant, generating steam and power.
2. Anhydrous alcohol production; Raw material pretreatment, preparation of mixtures with B and C molasses, continuous fermentation, distillation, and dehydration – vinasse management.
3. Compost production; Production of Biocane Powder and Biocane Soil Conditioner from sugar and alcohol processing waste. The largest organic fertilizer production plant in Latin America, third in the Americas.



### Field-Harvest

1. ASONORTE: Collaborative management for agricultural production and sustainability in the northern Cauca Valley.
2. Varieties, Sucrose, Ripening
3. Precision Agriculture Technologies (LiDAR, GIS))
4. Harvest quality and implementation of Louisiana-type harvesters



### Factory

1. Control Room
2. Sugarcane Preparation with a Heavy Shredder
3. Coffee Husks as Boiler Fuel
4. Cogeneration
5. Turbogeneration
6. Modular Long-Tube Evaporator
7. Wastewater Treatment Plant



### Field-Harvest

1. High-yield mechanical harvesting.
2. Zero trampling: Machinery modifications to reduce vine damage.
3. FertiRio: Fertilizer based on vinasse as a source of potassium and minor elements.
4. Canter (subsoil-harrowing-polishing-furrowing)



### Factory

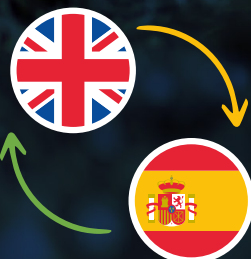
1. Vinasse evaporation in the distillery: falling film and forced circulation evaporators
2. Cogeneration: drivers of the energy and marketing business
3. Water consumption in the factory: successful reduction experience
4. Converting a continuous vat from C to A mass and its impact on energy efficiency.

MORE INFORMATION AND REGISTRATION



## Experience the Congress Without Language Barriers!

### Simultaneous Interpretation



We guarantee an inclusive and enriching experience for all attendees. simultaneous interpretation will be available for all conferences and academic sessions.



# PLENARY SPEAKERS

Experts of global standing who have shaped the agroindustry through their research, strategic decisions, and commitment to a more sustainable and innovative future. They will join the Congress to share the experiences and lessons that have defined their careers.

## KEYNOTE SPEAKERS



**Freddy Garcés**

CEO of Cenicaña  
PhD in Plant Pathology,  
Agricultural engineer



**Claudia Calero**

President of Asocaña  
Sanitary Engineer,  
MBA

"Transforming the Sugarcane  
Agroindustry: Global Challenges  
and Opportunities"



**Glaucia Mendes Souza**

PhD in Biochemistry and Molecular  
Biology, Institute of Chemistry –  
University of São Paulo

"The Contribution of Brazilian  
Sugarcane Ethanol to the Global  
Climate Change Mitigation Effort"



**Luis Fernando Salazar**

Expert in Foreign Trade and  
International Relations,  
Executive Director of UNALA

"Climate Change Adaptation  
in the Sugar Agroindustry: 17  
Success Stories"

## CLIMATE AND SUGARCANE



**Marília Capellaro**

**Agronomist Engineer**, South America Coordinator at Bonsucro

"A New Tool for Setting Science-Based Climate Targets in Sugarcane Production"



**Christophe Poser**

**PhD in Biogeography, Agro-economist**, CIRAD Researcher

"Sugarcane Cultivation in Corsica: A Promising Response to Climate Change in the Mediterranean"



**Mathias Christina**

**MSc in Biology**, École Normale Supérieure de Lyon, CIRAD Researcher

## MOLECULAR BIOLOGY



**John J. Riascos**

**Director**, Varieties Development Programme, Cenicaña

"Genomics in Sugarcane Breeding: From Complexity to Opportunity"



**Michael Jones**

**PhD in Plant Biochemistry**, University of Cambridge; Professor, Washington State Agricultural Biotechnology Centre

"Genomics and Crop Improvement: Gene Editing and Its Regulation"



**Michael Butterfield**

**Manager of Data Science and Scientific Affairs**, Sugarcane Technology Centre

"Genetically Modified Sugarcane: History and Current Status"

## ARTIFICIAL INTELLIGENCE



**Martin Hilbert**

**PhD in Economics and Social Sciences**; PhD in Communication, University of California, Davis

"The Age of AI Agents: The Path Taken and the Road Ahead"



**Guilherme Fraga**

**Control and Automation Engineer**, Industrial Process Specialist, Sao Martinho

"Intelligent Control Strategies in Agro-Industrial Systems: Real-Time Optimisation at Iracema Mill"

The Congress is organised by **FIVE TECHNICAL COMMISSIONS**, each divided into specialised sections:



### **Agriculture Commission**

Agronomy  
Agricultural Engineering



### **Biology Commission**

Germplasm and Breeding  
Entomology  
Molecular Biology  
Pathology



### **Factory Commission**

Engineering  
Processing



### **Co-products Commission**



### **Management Commission**

[VIEW THE PRELIMINARY ACADEMIC PROGRAMME](#)



## **POST-CONGRESS EXPERIENCE**

We will conclude the Congress with a unique experience for attendees who wish to extend their stay in Colombia and explore the connection between the sugarcane agro-industry and other strategic sectors of the country, in a technical and touristic setting within a historic heritage site.

**30–31 August 2025**



# USD\$500 | Includes:



## Ground transport

- Hotel Cali – Cali Airport
- Cartagena Airport – Cartagena Hotel
- Transfers for technical visits



## Meals

- Friday dinner
- Snacks and lunches during technical visit
- Sunday beach lunch



## Bilingual guide

(Spanish-English)

► **\*Note:** Flight from Cali to Cartagena and accommodation in Cartagena not included.

## Friday, 29 August

(the day before):

In the afternoon and evening, attendees may enjoy a guided tour of Cartagena's historic centre and dinner at a local restaurant, with their companion.

## Saturday, 30 August

Technical visit to either the Port Area or the Green Hydrogen Plant.



## Sunday, 31 August

Integration and relaxation day at the beach, shared with the participants of the Accompanying Persons' Programme. Includes a traditional lunch..

## Technical Visits Programme

### PORT AREA

#### 08:00 a.m.

•Arrival of buses

#### 09:30 a.m.

•Visit to Contecar (Mamonal)

#### 10:50 a.m.

•Visit to the Regional Port Authority of Cartagena (Manga)

#### 11:20 a.m.

•Arrival at the Cruise Terminal  
• Tour of the terminal and refreshments

#### 12:00 p.m.

• End of the technical visit

### GREEN HYDROGEN PLANT

#### 09:00–10:00 a.m.

- Safety briefing for the plant visit
- Promigas corporate presentation
- Innovation platforms for Promigas' energy transition
- Development strategy for renewable gases
- Presentation of the green hydrogen production and injection pilot and ongoing H2 initiatives

#### 10:00–11:00 a.m.

- Field visit to the pilot project for solar energy generation, hydrogen production, and injection into natural gas networks

**Secure Your Spot at the XXXII ISSCT Centennial Congress 2025!**  
This video tutorial shows you how to complete the registration form correctly.

**Registration fee**  
**USD \$1300**

REGISTRATION GUIDE



MORE INFO AND REGISTRATION FORM



## Trade Exhibition

We will have the participation of over 150 brands. If you want to give your brand greater visibility and reach an international audience, there's still time to be part of this great event!

MORE INFORMATION



## Partnerships

To ensure an optimal experience for our international participants, we have partnered with selected hotels and airlines offering special rates and benefits to make your arrival and stay in Cali easier.

MORE INFORMATION



Find all the latest information about the ISSCT 2025 Congress – including the programme, registration, logistics, and tourism – on our official website:

**[www.issctcentennial.com](http://www.issctcentennial.com)**



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