



STAI e News Letter

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From the Desk of President

Dear Member,

It's my pleasure to share with you the activities of the Association and other happenings in the national and international sugar industry through this edition of the STAI e-newsletter.

The sugar season 2018-19 is in full swing and as per revised ISMA estimates, the country is likely to produce 31.5 MT of sugar against prior estimates of 35.5 MT. After a gap of 15 years, India is set to pip Brazil as the world's largest sugar producer. Though this is a great achievement but this may not be the appropriate time to cheer as the country is saddled with high inventory and low realizations. With an inventory of 10.7 MT from sugar season 2017-18 and an estimated production of 31.5 MT in 2018-19, the country is way ahead of consumption of 26 MT in 2018-19.

In the last one year, the Central Govt., has taken a series of measures to assist the industry, like regulating the MSP of sugar, offering soft loans, export subsidies, cane price assistance, higher ethanol prices and blending mandates. To further boost the Ethanol Blending Programme (EBP), the Central Govt., has allowed to extract the fuel ethanol from surplus quantities of maize, jawar, bajra and fruit/vegetable waste from the sugar season 2018-19.

The industry is also reciprocating to the Govt. initiatives and a number of sugar mills are either setting up new distilleries or expanding their capacities. Blending of ethanol with petrol has reached to 4% this year from 1-1.5% in last couple of years and is likely to double to 8% in sugar season 2018-19.

After upward revision in the ethanol prices by the Central Govt., STAI in association with National Sugar Institute, Kanpur organized an All India one day seminar on "Techno-Economic Viability of Sugarcane

Juice or B-Heavy Molasses as Alternate Feedstock for Ethanol Production" at Kanpur on 16 Oct. 2018. Around 150 delegates from across the country participated in the daylong seminar and actively



Mr Sanjay Awasthi , President, STAI

deliberated on the techno-economic issues of manufacturing ethanol from sugarcane juice or B-Heavy molasses.

For the year 2019, your Council is drawing up exciting activity plans that are of advantage to all stake holders. We look forward to your active participation and continued support as ever.

STAI-NSI Joint Seminar held on 16 Oct. 2018 at Kanpur



Release of the STAI-NSI Joint Seminar Proceedings by the dignitaries (L-R) Mr A K Malik, Mr Sanjay Awasthi, Mr S C Sharma, Mr Narendra Mohan, Mr V.K. Goyal

Wishing you a very happy and prosperous New Year and a successful sugar season 2018-19.

SANJAY AWASTHI

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Highlights :All India One Day Joint STAI-NSI Seminar on “Techno-Economic Viability of Sugarcane Juice or B-Heavy Molasses as Alternate Feedstock for Ethanol Production” held on 16th October 2018, Kanpur

It has been a challenging year for the Indian sugar industry because of record sugar production in 2017-18 and an anticipated surplus sugar production in the year 2018-19. To support the industry and for a long term solution, the Central Govt. increased the procurement price of ex-mill ethanol produced from different streams and also announced several other measures for the benefit of sugar industry.

The Sugar Technologists' Association of India (STAI) in association with **National Sugar Institute, Kanpur** organized All India STAI-NSI One Day Joint Seminar on “**Techno-Economic Viability of Sugarcane Juice or B-Heavy Molasses as Alternate Feedstock for Ethanol Production**” on **16th October 2018** at **NSI, Kanpur**. The seminar was attended by around 150 delegates from across the country.

This was the first time that along with the seminar an interactive session was held wherein the experts from the NSI and industry addressed the queries from the delegates on procedural issues, processing needs and relative economics of sugar-ethanol production.

Shri Subhash Chandra Sharma, IAS, Commissioner-Kanpur, Government of Uttar Pradesh was the Chief Guest of the seminar. Mr Chandra while addressing the delegates said that it was great on the part of STAI and NSI for taking the lead in creating awareness about the issues related to addition and production of clean and green energy. He called upon the sugar industry to come forward and boost ethanol production using other feed stocks rather than depending upon molasses to achieve 10 percent blending of ethanol in

petrol. He said this was essential to reduce country's dependence on imports thus having energy security and preventing drain of valuable foreign exchange.

Mr Sanjay Awasthi, President, STAI stressed on need for extending the duration of operation of distilleries by adopting newer technologies for effluent treatment. He said with the biocomposting route the distilleries were allowed to work only for 270 days in a year, while installing Incineration Boilers where effluent was used as a fuel, the distilleries were permitted to operate 330 days in year, thus the capacity utilization can be increased by around 20 percent, he added.

Addressing the session **Mr Narendra Mohan**, Director, NSI presented overview of the ethanol demand supply scenario of the country for meeting 10 percent blending requirements. He said as against the target, the country shall achieve the ever highest blending rate of about 5 percent only during the year 2017-18 and thus there is a long way to meet the ethanol blending requirement of 330 crore liters per annum.

The other dignitaries present during the occasion were:

- **Mr. Vijay Kumar Goyal**, Chief Executive Officer, HPCL Bio-Fuels Ltd.
- **Mr AK Malik**, Vice President, STAI
- **Dr Seema Paroha**, Professor-Bio Chemistry, NSI, Kanpur

The following papers were discussed during the daylong seminar :

- Economic Viability of Ethanol Production through B Heavy Molasses and Cane Juice Routes by Mr Narendra Mohan, Director, NSI, Kanpur

- Some Suggestions on the Guidelines for FRP Payment System in case of Sugarcane Based Intermediate Products Diversion for Ethanol Production by Mr K. Jagadeesh, Sr. Manager, JPMA

- New Ethanol Policy - Viability of Using Alternate Feedstock by Mr Sanjay Awasthi, Business Head-(Sugar Machinery), ISGEC & Mr Anurag Goyal, AGM-Marketing, ISGEC

- Viability of B Heavy Molasses as Alternate Feedstock for Ethanol Production in Sugar Complexes by Mr Sushil Kumar, Chief Chemist, Shahabad Co-operative Sugar Mills

- Ethanol from B Heavy Molasses –Challenges by Mr Manoj Kumar Upreti, Senior G M, Balrampur Chini Mills

- B Heavy Molasses Diversion for Ethanol Production by Mr E. Muthuvelappan, Chief Sugar Chemist, Tamilnadu Sugar Corporation

- Economy of Ethanol Production by Mr D Swain, Professor – Sugar Engineering, NSI

- Opportunities with Promising Ethanol Scenario & Comparison of various feed stocks by Mr Sanjay Desai, MD, Excel Enginners and Mr Sandeep Chichbankar, Director, Excel Engineers

Few copies of the proceedings of the above seminar are available for sale. Interested members may purchase the same from STAI Secretariat.

Few photographs of the speakers and the delegates are given on next page.

Photographs of Speakers and Delegates at Kanpur Seminar



Top (Left to Right) Dr Seema Paroha, Mr E. Muthuvelappan, Prof. D Swain, Mr S K Upreti, Mr Sushil Kumar
Bottom (Left to Right) Mr Sandeep Chichbankar , Mr Gaurav Awasthi and Delegates

XXX ISSCT Congress, 2-5 September 2019, Tucumán, Argentina

The **XXX Congress** of ISSCT is being organized by SATCA (Argentine Society of Sugar Cane Technicians) in Tucuman, located in northwest Argentina from **2-5 September 2019**.

The Programme shall also include the following social activities:

- **Welcome Cocktail : Sunday 1 September.,2019**
- **Gala dinner : Tuesday 3 September., 2019**
- **Farewell Dinner : Thursday 5 September., 2019**

Registration fees for the Congress

- **Early Bird Rate (up to 15 February 2019):USD 1250**
- **Premium Rate (up to 31 March 2019) :USD 1350**
- **Standard Rate (up to 31 July 2019) :USD 1500**
- **Late Rate (up to 2 September 2019) :USD 1700**

Registration fees include Congress materials, abstract publications, morning and afternoon coffee breaks, daily lunch, hotel-venue transfers, welcome drinks, Cultural Evening and Congress Gala Dinner. The fees do not include flights or accommodation costs. The details of Pre Congress and Post Congress Tours are as under:

Pre Congress Tour

The Pre-Congress tour will be held in Tucuman from **31 August 2019 to 1 September 2019**. It includes visit to

institutions, mills and fields related to Sugarcane Industry.

The Pre-Congress Tour will cost an additional USD 200 per attendee.

Post Congress Tour

The Post congress tour will be held in Salta and Jujuy from **6 to 8 September 2019**. **The Post-Congress Tour will cost an additional USD 500 per attendee.**

Papers and Posters for the XXX ISSCT Congress

- Full manuscripts must be sent to the Editor by 31 December 2018 – instructions for preparation are on the ISSCT website.
- The ISSCT Commissioners in collaboration with the Section Chairs and the Editor will arrange for all papers and posters to be peer reviewed. The final version should be with the Editor by 30 April 2019.

Trade Exhibition

The 8 Hectares Congress venue will offer a special layout of about 6000 sqm having nearly 100 stands, to showcase big machinery and equipment in the exhibition.

For more details members may log on to following websites :

<http://www.issct.org>

<http://issct-argentina2019.com/en/>

Abstract of ISSCT Workshops held in 2018

The International Society of Sugar Cane Technologists (ISSCT) has organized the following workshops held at various locations during the year 2018. For more details regarding the Workshops, members may click on blue hyperlink in the ISSCT Workshop Section and for abstracts click on the links listed in below table:

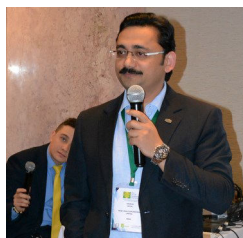
Section	Venue/Date	Link for Abstract
Agricultural Engineering & Agronomy	23-28 Sept 2018, Réunion, France	
Germplasm & Breeding	22-26 Oct 2018, Okinawa, Japan,	
Molecular Biology		
Entomology	3-7 Dec 2018, Belle Glade, Florida, USA	
Pathology	3-7 September 2018, Coimbatore, India	
Engineering & Processing	1-3 Oct 2018, Cali, Colombia	
Co-products	21-24 August 2018, Sao Paulo, Brazil	

Other Activities and International Events

ISSCT Joint Engineering & Processing Workshop

ISSCT Joint Factory Engineering and Processing workshop was held at Cali Colombia from 1st to 3rd October 2018. **Mr Anurag Goyal**, STAI Council Member and a member of the Factory Processing Committee of ISSCT attended the workshop and presented a technical paper titled “An Innovative approach towards Crystallization : ISGEC Vertical Continuous PAN (VCP).

He also chaired one session of the Processing Workshop. The workshop followed up with visit to two sugar factories-Providencia Sugar Mill and Mayaguez Sugar Mill. In total 49 technical papers and 9 poster papers were presented in the workshop which was attended by 70 delegates representing 18 countries.



Forthcoming STAI Seminar

“Recent Advances in Sugar Drying, Grading and Packing Technologies” on 14th Feb 2019, Hotel Seyfert Sarovar Premiere, Dehradun, Uttarakhand

International Events

- Fuels of the Future, 21–22 January, 2019, Berlin, Germany
- Dubai Sugar Conference, 10-13 February 2019
- Sugar Con -2019 “Green Technologies for Sustainable Development of Sugar and Integrated Industries from 16-19 February 2019, Indian Institute of Sugarcane Research, Lucknow.
- American Society of Sugar Beet Technologists (ASSBT) 40th Biennial Meeting, 25-28 February 2019, Anaheim, California

Members Corner

• The proceedings of 76th Annual Convention were dispatched to the valid members. Proceedings/LSF to members in arrears-Associate/Fellow/ Companion/SME for the year 2018 have not been sent. They are requested to clear their dues to enable us to send copy of proceedings & Factory list.

• STAI has earlier started payment of online membership subscription through payment gateway and now moving a step ahead the association is shortly going to start app based payment services for the members.

Hon. Editor : Mr D K Goel

Secretary : Mr Amit Khatter

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