



STAI e News Letter

Volume 4, Issue 11, 31st July 2018

From the Desk of President

Dear Member,

Greetings!

The national sugar scenario has changed dramatically in the past one year. After last year's sugar production of 20.3 mt, the Indian sugar industry is likely to end the sugar season 2017-18 with a record sugar production of 32.2 mt.

As per advanced ISMA estimates, the total acreage under sugarcane in the country is estimated to be 5.35 million hectares, an 8% increase from the previous year. This will lead to another bumper sugarcane production in the coming season 2018-19

With farmers switching more towards high yield sugarcane varieties, the anticipated sugar production for the sugar season 2018-19 is pegged at a

record 35-35.5 million tonnes. The excess sugar stocks are putting pressure on sugar prices which fell drastically before recovering to Rs.29-30/kg. Thanks to the timely government initiatives like imposing stock holding limit on sugar mills, fixation of minimum price for sale of sugar, increase in import duty, withdrawal of customs duty as part of long term strategy evolved to assist the industry.

The Govt. of India also raised the ex-mill price of ethanol derived out of B heavy molasses to Rs.47.49 in order to push the ethanol blending programme and curb the excess sugar production. However, the challenge for the industry is the lack of sufficient distillation and storage facilities with the primary producers of ethanol.

STAI most awaited event, 76th Annual Convention & Sugar Expo 2018 is scheduled from 20-22 August 2018 at the state-of-the-art

Brilliant Convention Centre, Indore. The STAI Council has worked out a good programme which shall be of interest to all the participants.



Mr Sanjay Awasthi , President, STAI

On behalf of the STAI Council and on my personal behalf, I extend a very warm welcome to all the participants and look forward to welcoming you to Indore.

With regards,

SANJAY AWASTHI

76th STAI Annual Convention and International Sugar Expo 2018 : It will be held from 20-22 August 2018 at the Brilliant Convention Centre, Indore (M.P.)



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76th STAI Annual Convention and International Sugar Expo : Programme Schedule

Monday, 20th August 2018

| | | |
|-------------|---|---|
| 0830 – 1000 | - | Welcome Tea/Coffee & Registration of Delegates |
| 1000 – 1220 | - | Inauguration & Distribution of Awards |
| 1220 – 1245 | - | Inauguration of the Sugar Expo 2018 and visit to stalls by the Chief Guest |
| 1245 – 1400 | - | Lunch |
| 1400 – 1530 | - | S.N. Gundurao Memorial Lecture by Mr Abinash Verma , Director General, Indian Sugar Mills Association |
| 1530 – 1730 | - | Technology Providers Session |
| 1730 – 1800 | - | Tea/Coffee |
| 1900 – 2200 | - | Cultural Programme followed by Cocktails & Dinner |

Tuesday, 21st August 2018

| | | |
|-------------|---|--|
| 0930 – 1130 | | Plenary Session : |
| 0930 – 1030 | - | Mangal Singh Memorial Lecture |
| 1030 – 1100 | - | Sustainability Challenges in Indian Sugar Sector by Mr. R.L. Tamak , Executive Director, DSCL Sugar |
| 1100 – 1130 | - | Presentation on Results of the field study conducted by Jindal Stainless Ltd, JPMA and STAI on use of stainless steel to reduce life cycle costs by Mr Rajeev Gupta , General Manager Jindal Stainless Ltd. |
| 1130 – 1200 | - | Tea/Coffee |
| 1200 – 1330 | - | Presentation of Technical Papers in following 2 parallel sessions: |
| | | Sugarcane Agriculture Section - Session I |
| | | Factory Section - Session II |
| 1330 – 1430 | - | Lunch |
| 1430 – 1730 | - | Presentation of Technical Papers to continue : |
| | | Sugarcane Agriculture Section - Session II |
| | | Factory Section - Session II |
| 1730 – 1800 | - | Tea/Coffee |
| 1800 - | | AGM |

Wednesday, 22nd August 2018

| | | |
|-------------|---|--|
| 0930 – 1330 | - | Presentation of Technical Papers : |
| | | Factory Section - Session III |
| | | Co-products & Management Section - Session I |
| 1330 – 1430 | - | Lunch and end of Convention |

76th STAI Annual Convention and International Sugar Expo : List of Accepted Papers

Sugarcane Agriculture

1. **Influence of Crop Geometry on Sugarcane Yield** by P.Ashok Kumar, N.Sivasamy
2. **Sugarcane cultivation in the Nimar region :Challenges & Opportunities** by Avdhesh Yadav, Shripal Gujar
3. **Impact of Partnerships on Sustainable Sugarcane Development at scale** by Harsh Vivek, R P Singh , Sulparna Jain , Prashant Pastore
4. **Public-Private-Farmer Partnership (PPFP) Model in Sugarcane to Double Farmers' Income** by A.K. Sah, A. D. Pathak
5. **Adoption of Technologies to sustain the productivity and Sugar Recovery** by J P Singh
6. **VSI 12121- a high yield, high sugared sugarcane variety for Maharashtra** by R. S Hapase, J. M.Repale
7. **Sugarcane Price Determination in India- Need for a Hybrid Formula** by Narendra Mohan, D Swain & Priyanka Singh
8. **Variety Identification descriptor for surveying sugarcane fields in formative phase** by R.K. Singh and J. Singh
9. **Performance of early sugarcane clones under waterlogged conditions** by V. Satya Priya Lalitha G.Venkateswara Rao ,V.V. Punna Rao, T.Sujatha , K. Jhansi
10. **Sugarcane Genotypes for Sustainable Sugar Production In Sub-Tropical India** by Priyanka Singh, M.M.Singh And J. Singh
11. **Field Scale Spatial Variability of Chemical Properties of Lonarwadi Research Farm of VSI using Geostatistical Approach** by Preeti Deshmukh, Jyoti Kharade
12. **Evaluation of Genotypes/ Varieties for Resistance to SMUT Disease under Artificial Disease Condition** by B H Pawar, J H Yadav, R S Hapase
13. **Evaluation of Promising Sugarcane Clones (Saccharum spp.) for Drought Tolerance** by R. Gomathi, P.Govindaraj, Bakshi Ram
14. **Fertigation in Sugarcane as per Crop Growth Stages** by P. P. Shinde
15. **Effect of Semptra 75 Wg (Halosulfuron Methyl) + Boosten 70 Wp (Metribuzin) On Cane Yield Of Sugarcane (Saccharum Officinarum L.) in Northern States** by R.P. Srivastava & O.P. Singh
16. **Pest Management in Sugarcane through Non Chemical Options: Strengths and Challenges** by S N Sushil
17. **Statistical Studies on Sugarcane Production, Market Attributes Relating to Global Climate Change** by S.D. Dutta, V.Katiyar, R.S. Katiyar
18. **Healthy Sugarcane to achieve targeted yield - A farmer's perspective** by Karanjeet Singh Dhaliwal

Factory Engineering

1. **Steam Economy in existing Plant at Jawahar S.S.K. - A Success Story** by Manohar Gopal Joshi, Sanjay Awasthi, Anurag Goyal, Deepti Mishra
2. **Innovative ways to improve Mill Working with Paltry Investment** by K B Kale
3. **Phasewise Reduction in Steam Consumption from 52% on Cane to 40% on Cane** at Rauzagaon Chini Mills by Pankaj Shahi, Manoj Kumar Upreti
4. **Multi Level Inverter based Topologies for Sugar Mill Drive Applications** by Anoop Kumar Kanaujia, Sanjiv Kumar, D Swain
5. **Energy Conservation in Sugar Industry** by P Devarajulu
6. **DCH for super heated Wash Water System** by Mr P B Deshmukh
7. **Chokeless Hood for Cane Chopper Designed at NSL Sugar Unit-II Aland** by P Devarajulu
8. **Maintenance procedure for Zero Breakdown** by P K Sarkar and Sudhir Kumar Singh
9. **Innovative Solutions for Upgradation of Mills** by JK Kharbanda, Ranjeet Ingale,K P Vasanthan

Factory Processing Section

1. **Scale Formation in Spray and Injection Water Cooling System and Its Effect on Manufacturing Process- Root Cause and Remedial Action** by Sanjay Rastogi, Harkirat Singh, Pawan Kumar Gupta
2. **A study on working of Vertical Continuous PAN for Raw Masecuite Boiling** by Narendra Mohan, Ashutosh Bajpai, Subash Chandra
3. **Clarification of Intermediate Process Liquors for Improvement in Sugar Quality** by Narendra Mohan, Ashutosh Bajpai, M.P. Singh

76th STAI Annual Convention and International Sugar Expo : List of Accepted Papers Contd...

4. **Reducing clear juice Turbidity Resulting from Film Type Sulphur Burner** by Vijay P Singh, Ashish Kr Singh, S S Srivastava
5. **An Experience of Pan Boling with Mechanical Circulator on Third Body Vapour** by S A Salave, SS Ghatage
6. **Advanced Brine recovery Scheme with Zero Liquid Discharge for IER based Refinery** by Mr Anup Kesarwani, Mr Vijay Kant Baliyan
7. **Eco- Friendly Cleaning system for Cane Sugar Process House by avoiding Chemical use** by S Panda, R R Patil, R V Dani
8. **Performance of New Design Batch Pan Calendria at a glance** by Deepak Khadelwal, Gurubux Singh, Vivek Verma
9. **A Case Study on Colour Solid Balance at Dr GDBL SSK Kundal** by Vikas Shamrao Chavan
10. **A New approach to Sugar Drying, Cooling and Conditioning System** by V S Dubey, Ashwin Dubey Arinadam Dubey, Dilip Jain
11. **Reduction in Emission of SO₂ from Sugar Mills** by R.V. Dani , V. P. Sidanale, R. R. Patil and L.S.Dalvi
12. **Limitations of Fundamental Formula used for Sugar Mill Chemical Control** by MB Londhe, R B Khandgave
13. **Splitter Box, A Juice Distribution device for Multiple Juice Clarifiers** by Vikas Thakur, S D Mali
14. **Comparison of Efficiency of Rising Film and Falling Film Evaporator as First Effect M.E.E** by Chhote Lal
15. **Our experience of controlling Dextran and Sugar Losses at Pandavi Sugars** by A H Patel, Himanshu Tailor, V M Kulkarni
16. **Stagewise Bagacillo Removal System** by R R Ijate, G V Harale, B G Chavanke
17. **Elimination of Latent Period by Power Ultrasound (PUS) during crystallization of Sucrose** by Kaman Singh, Satya Prakash Gupta, Ashok Kumar, Ajay Kumar

Co-Products & Management

1. **Economics of Ethanol Production by Different Feed Stock -Answer to Cyclic Challenge of Indian Sugar Industry** by Sanjay Awasthi, Anurag Goyal, Gaurav Awasthi
2. **Isolation of Yeast strain from Spoilt Sugarcane Juice** by Vinitanjali Banerjee, Santosh Kumar and Narendra Mohan
3. **Self Sustained Distillery With ZLD – A Success Story** by Sanjay Awasthi, V. K. Luthra, Harsh Vardhan, Anurag Goyal
4. **Pilot plant study for treatment of Spray Pond Water overflow using RO Technology at Saraswati Sugar Mills** by S. K. Sachdeva & Rajeev Mishra
5. **A viable, robust and low cost technology to treat MEE condensate and to achieve Zero Liquid Discharge in the Sugar and Ethanol industry** by Jacopo De Steffani, Mark Silvius, Anoop Singh
6. **Improving Profitability of Distilleries with Various ZLD Options Using Energy Efficient Innovative “E-max2” Technology** by Sanjay Desai & Sandeep Chichbankar
7. **A New Age Technology of Bio Composting in Sugar Industries** by P. N. Singh Sisodia
8. **Water Management at Shree Datta Sakhar Karkhana, Kolhapur** by T N Singh
9. **An Opportunity of Air Conditioning using Heat Recovery** by Dinesh Balasaheb Uphade
10. **Sustainability of Sugar Industry by B Heavy diversion for Ethanol Production** by Shanti Kumar Pandey and P N Singh Sishodia
11. **Bio-Fuels: Future Fuels** by Satinder Kaur
12. **Bio-Economy and Bio-Refineries – Renewable Energy Technology Hub: The Sugarcane Industry Of The Future** by N. K. Shukla & M.K Biswas
13. **Significance of right organizational culture fit with effective leadership for productivity enhancement in the sugar industry** by Girish Kohli
14. **Managing the Performance of Employee through Motivation for Organizational Growth** by Girish Kohli
15. **Operating Sugar Plant at Critical Financial Position 2017-18** by V Subburathnam

76th STAI Annual Convention and International Sugar Expo : List of Exhibitors

| | |
|---|---|
| • Abhitech Energycon Ltd | • Ion Exchange (India) Ltd |
| • Alfa Laval India Ltd | • ISGEC Heavy Engineering Ltd |
| • Alpha Control Instruments Pvt Ltd | • J P Mukherji & Associates Pvt. Limited |
| • Avant-Garde Engineers and Consultants (P) Ltd | • Jindal Stainless Ltd |
| • BMA | • Kluber Lubricants India Pvt Ltd |
| • Calsens Pvt Ltd | • Lubgraf Synoils Pvt Ltd |
| • Carl Becham Lubricants India Pvt Ltd | • Mega Engineering |
| • Catalysts Biotechnologies Pvt Ltd | • Netzsch Technologies India Pvt Ltd |
| • Chemical Centre (India) | • Paras Bhavani Steel Pvt Ltd |
| • Cloud Tech Pvt Ltd | • PPI Pumps Pvt Ltd |
| • CNH Industrial (India) Pvt Ltd | • Privilige Biksons Boilers Pvt Ltd |
| • Crane Process Flow Technologies (India) Pvt Ltd | • PSP Pumps Pvt Ltd |
| • Danfoss Industries Pvt Ltd | • Puri Industries |
| • Dow Chemical International Pvt Ltd | • Qualilub Speciality Lubricants-India |
| • Elann Drive & Automation Pvt Ltd | • Reggiana Redutori |
| • Enmill Technologies | • RHEWUM India Pvt. Ltd |
| • Enviropol Engineers Pvt Ltd | • Risansi Industries Ltd |
| • Essen Welding Alloys Pvt Ltd | • Shrijee Process Engg. Works Ltd |
| • EWAC Alloys Limited | • Sintech Precision Products Ltd |
| • Excel Engineers & Consultants | • SKF India Ltd |
| • Fives Cail-KCP Ltd | • Suzalkem Technologies |
| • Galaxy Industrial Equipment Pvt Ltd | • Tata Steels |
| • Gita Pumps India Pvt Ltd | • Technical Drying Services (Asia) Pvt Ltd |
| • Imco Alloys Pvt Ltd | • Three Star Engineering Works Pvt Ltd |
| • Indiana Sucro tech (Pune) Pvt. Ltd | • VRL Automation Engineering & Projects Pvt Ltd |
| • Indo Pumps | • Yes Enterprises |

76th STAI Annual Convention and International Sugar Expo : Sponsors

Principal Platinum Sponsor



ISGEC Heavy Engineering Ltd.

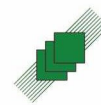
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Honeywell

Bronze Sponsors



Avant-Garde Engineers and Consultants Pvt. Ltd.



Galaxy Industrial Equipments Pvt. Ltd.

High Tea Sponsors



Sugar n Power Projects Private Limited



Three Star Engineering Works Pvt. Ltd.



Puri Industries

Highlights :All India Seminar on Sustainable Sugarcane Practices for Viable Sugar Industry held on 6th April 2018, Lucknow

The Sugar Technologists' Association of India in association with **Indian Institute of Sugarcane Research** and **National Federation of Co-operative Sugar Factories Limited** organized one day **All India Seminar on 'Sustainable Sugarcane Practices for Viable Sugar Industry'** on 6th April 2018 at **Indian Institute of Sugarcane Research, Lucknow**.

Sh. Suresh Rana, Hon'ble Minister for Sugarcane Development and Sugar Industry Dept., Govt. of U.P., was the Chief Guest of the seminar during the inaugural function. While speaking in the inaugural session Mr Rana congratulated sugar industry, scientists, development officials and farmers for their sincere and concerted efforts leading to record sugar production during the current crushing season in country and Uttar Pradesh.

Mr Rana also released STAI Publication "Year Book and Technical Data Directory of Indian Sugar Factories for the year 2015-16 and 2016-17 in the Inaugural Session

The other dignitaries present during the occasion were:

- **Dr. A.D. Pathak**, Director, ICAR-IISR
- **Mr. R.L. Tamak**, Executive Director, DSCL Sugar
- **Mr Prakash Naiknavare**, Managing Director, NFCSF
- **Mr Sanjay Awasthi**, President, STAI

In conjunction with the Seminar a **Demonstration of Mechanized Harvesting Machine** at IISR farms was also organized to promote the Sugarcane Mechanization amongst farmers and industry delegates for better productivity and development of the sugar industry.

The following papers were presented & discussed during the daylong seminar :

- How to double the income of the farmers – Dr. A.D. Pathak, Director IISR Lucknow
- Presentation by Dr D G Hapase

- Recent development in mechanization of sugar cane harvesting – Dr A.K. Singh

- How to minimize the use of chemicals to sustain the productivity of sugarcane and its sugar recovery by Dr S.N. Sushil

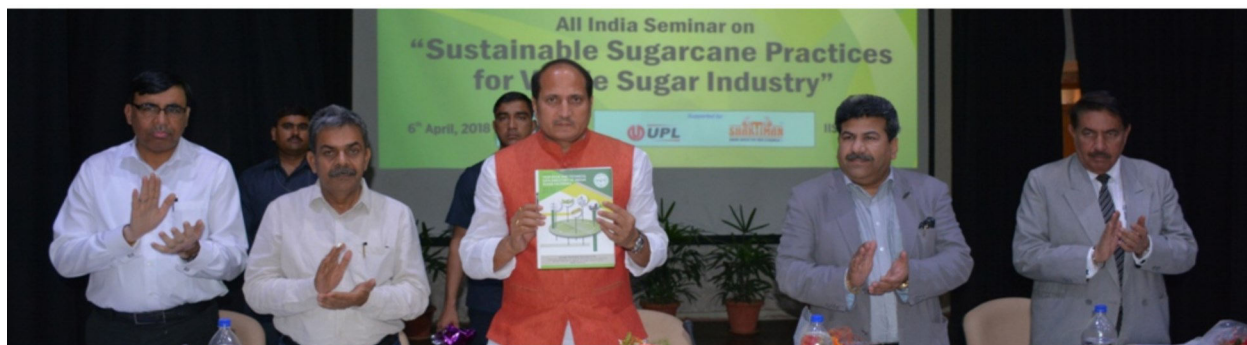
- Measures to sustain the productivity of sugarcane and sugar recovery by Dr J.P. Singh

- Empowering Small Holders through sustainable agriculture practices by Mr R.L. Tamak

- Sustainable Sugarcane Mechanization by Mr R.A. John Bosco

- Redefining Indian Agriculture by Mr Prasun Sarkar

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



Top: Mr Suresh Rana releasing STAI Publication "Year Book and Technical Data Directory of Indian Sugar Factories ; **Bottom : (Left)**Dr D G Hapase addressing delegates during Technical Session and **(Right)**Delegates during Live Demonstration of Harvesting Machine

Upcoming ISSCT Workshops

The International Society of Sugar Cane Technologists (ISSCT) has finalized the programmes for following upcoming workshops to be held in various locations during the year 2018. For more details regarding the Workshops, members may click on blue hyperlink in the ISSCT Workshop Section listed in below table.

| S.No | ISSCT Workshop | Topic , Date, Location | Delegate Fee | Details |
|------|--|--|----------------------------|---|
| 1. | XII Pathology Workshop | “Challenges and Advances in Sugarcane Pathology” , 3-7 September 2018, Coimbatore, India | 300 USD per participant | The Workshop will be an exciting opportunity to discuss topics related to research and development in sugarcane diseases, novel strategies to manage diseases and climate change issues |
| 2. | Joint Agricultural Engineering , Agronomy and Extension Workshop | “Farming for the Future: Improving Productivity and Ecological Resilience in Sugarcane Production Systems” , 23-28 September 2018, Saint-Gilles, Reunion Island, France | 365 Euros per participant | The Workshop will provide an exciting opportunity to discuss topics on sugarcane agricultural engineering, agronomy and extension, and the linkages between these. |
| 3. | Joint Factory Engineering and Processing Workshops | “Processing and Engineering options towards more Competitive Factory Operations” 1-3 October 2018, Cali , Columbia | 350 USD per participant | The Workshop will include two full days of presentations and discussions; followed by a third day where there will be a visit to the Providencia and Mayagüez Sugarcane mills. |
| 4. | Joint Breeding & Germplasm and Molecular Biology Workshops | “Improvement of Sugarcane for Stress Environments” 22 to 26 October 2018, Okinawa, Japan | 50,000 JPY per participant | The Workshops represent an opportunity to discuss all related topics on sugarcane breeding and biotechnology research. |

Other Activities

Papers and Posters for the XXX ISSCT Congress, 2-5 September 2019, Tucumán, Argentina

Interested members may send Author name, title and author name(s) and outline to be send to the Editor (issct.editor@bigpond.com) using the template available on the ISSCT website by 31 August 2018.

International Events

- South African Sugar Technologist Association 89th Annual Congress, 14-16 August 2018, Durban, South Africa
- Fenasucro, 21-24 August 2018, Sertaozinho, Sao Paulo, Brazil
- 31st ICUMSA Session, 26-28 August 2018, Skukuza, Mpumalanga, South Africa
- XI Congress ATALAC-TECNICAÑA, September 24 – 28, 2018 Cali, Colombia

Members Corner

Membership Dues

The members whose membership subscription is due for the year 2018 or earlier are requested to update their membership dues for continued membership services. For the benefit of the members, STAI has also initiated **Payment Gateway** for online payment of membership dues.

Alternatively, members can also send the membership subscription through cheque/DD in favour of “The Sugar Technologists Association of India”

For online payment:

The Sugar Technologists’ Association of India, HDFC Bank SB A/C No. 1385145000023, RTGS/NEFT IFSC CODE : HDFC 0001385, Okhla Phase-I, New Delhi- 20

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