



# Newsletter

## NATIONAL SUGAR INSTITUTE

KANPUR- 208017, U.P., INDIA

### Entrance Examination

For admission to various courses during the academic session 2015-16, the institute conducted entrance examination on 14<sup>th</sup> June, 2015 at six centers, Kanpur, Delhi, Kolkata, Pune, Patna & Chennai for admission to various Diploma & Certificate courses conducted by the Institute. Results for all courses have been declared & are available on our website <http://nsi.gov.in>.

From the academic session 2015-16, keeping in view the persisting problem of sugarcane productivity, a new Certificate Course in “Sugarcane Productivity and Management” has been introduced.



### Seminars Organized

An All India seminar on “**Efficient Methods of Juice Extraction**” was jointly organized by National Sugar Institute and S. Nijalingappa Sugar Institute, Belagavi, Karnataka on 18<sup>th</sup> April, 2015 at Belagavi, Karnataka. The seminar was attended by large no. of delegates from Maharashtra, Tamil Nadu, Karnataka and Uttar Pradesh.

During the seminar nine papers were presented. The Presentations covered different methods used for energy conservation, energy saving potentials and energy efficient juice extraction technologies developed and in use. Use of energy efficient proven technologies viz. Trash plate less mills and Diffusers so as to reduce power requirement during juice extraction were deliberated in detail. The theme of seminar focused on energy savings during juice extraction so as to enhance power exports.



All India Seminar Organized by NSI and SNSI at Belagavi, Karnataka on 18<sup>th</sup> April, 2015.



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## Training Cum Skill Development Programme

The Institute organized five days Training cum Skill Development Programme on “**Maintenance of Machinery & Equipment in Sugar Factories**” from 22<sup>nd</sup> -26<sup>th</sup> June, 2015. This training programme was designed to develop the skills of students of ITI / Metric Passed/ employed unskilled workers with respect to cost effective maintenance of machinery & equipment in a sugar factory so as to have minimum breakdowns.



Inaugural address by Commissioner Kanpur  
Division

Theory as well as practical knowledge on maintenance of mill, boiler, pumps, motors, heat exchanger and process equipment etc. installed

in a sugar factory was provided during the programme.



Participants during “Skill Development Programme” at NSI, Kanpur

## Research Papers Published/sent for Publication

1. “Diffusers – A Possible Option over Milling” by D. Swain presented at All India Seminar Organized by NSI and SNSI at Belagavi, Karnataka on 18<sup>th</sup> April, 2015.
2. “Role of Efficient Electric Drives in Juice Extraction” by Anoop Kumar Kanaujia, Vinay Kumar and D. Swain presented at All India Seminar Organized By NSI and SNSI at Belagavi, Karnataka on 18<sup>th</sup> April, 2015.

3. **“GAC Manufacturing in Sugar Plant -A New Byproduct”** by D. Mukharjee published in the proceeding of All India seminar on **“Environment Concepts of Sugar Complexes”** organized by The South Indian Sugarcane & Sugar Technologists Association at Hyderabad, on 11<sup>th</sup> May, 2015.
4. **“Foaming in Molasses Effect of Temperature, Organic And Inorganic Constituents”** by Kiran Singh, S. Mohan Jitendra Singh sent for presentation in XI<sup>th</sup> Joint Convention of STAI and DSTA scheduled to be held from 4<sup>th</sup>-6<sup>th</sup> September 2015, at Goa.
5. **“Cane Juice Clarification by Fermenter Gases for Production of Direct Consumption Sulphurless White Sugar”** by Narendra Mohan, A. Bajpai, N. Dev and M.P. Singh sent for presentation in XI<sup>th</sup> Joint Convention of STAI and DSTA scheduled to be held from 4-6<sup>th</sup> September, 2015 at Goa.
6. **“Statistical Relations Between Various Technical Efficiency Parameters -A Study of Indian Sugar Industry”** by Prason Verma and Ashish Shukla sent for presentation in XI<sup>th</sup> Joint Convention of STAI and DSTA scheduled to be held from 4-6<sup>th</sup> September, 2015 at Goa.
7. **“Thyristor Based Speed Control Techniques of Mill in Sugar Industry: A Case Study”** by Brajesh Singh, Virendra Kumar and M. K. Banerjee sent for presentation in XI<sup>th</sup> Joint Convention of STAI and DSTA scheduled to be held from 4-6<sup>th</sup> September, 2015 at Goa.
8. **Bagasse Gasification - An Energy Efficient Option** by Narendra Mohan, J.P. Srivastava, Anoop Kanaujia sent for presentation in XI<sup>th</sup> Joint Convention of STAI and DSTA scheduled to be held from 4<sup>th</sup>-6<sup>th</sup> September 2015, at Goa.
9. **“Optimization of Lead Sub Acetate Quantity for Observation of Optical Rotation of Boiling House Products”** by Ashutosh Bajpai, M Chandra and M Mandal sent for presentation in 45<sup>th</sup> Annual Convention of SISSTA scheduled to be held from 24<sup>th</sup> & 25<sup>th</sup> July 2015 at Bengaluru.
10. **“Need For On Line Turbidity Monitoring in Clarified Juice in Real Time”** by M.K. Banerjee sent for presentation in XI<sup>th</sup> Joint Convention of STAI and DSTA scheduled to be held from 4-6<sup>th</sup> September, 2015 at Goa.
11. **“Energy Conservation-A Case Study”** by Sanjay Chauhan sent for presentation in XI<sup>th</sup> Joint Convention of STAI and DSTA scheduled to be held from 4-6<sup>th</sup> September, 2015 at Goa.
12. **“Comparative Evaluation of Carbonation & Phosphotation Process For Refined Sugar Production”** by Narendra Mohan & Mahendra Yadav. sent for presentation in XI<sup>th</sup> Joint Convention of STAI and DSTA scheduled to be held from 4-6<sup>th</sup> September, 2015 at Goa.
13. **“Bagasse Drying – A Green & Efficient Solution to Significantly Meet out Power Deficit in India”** by Anoop Kanaujia and D. Swain sent for presentation in XI<sup>th</sup> Joint Convention of STAI and DSTA scheduled to be held from 4-6<sup>th</sup> September, 2015 at Goa.
14. **“Boiler Soot Cleaning by Air Blasting Method”** by Sanjay Chauhan sent for presentation in 45<sup>th</sup> Annual Convention of SISSTA scheduled to be held on 24<sup>th</sup> & 25<sup>th</sup> July 2015 at Bengaluru.
15. **“Bagasse Based Integrated Gasification – Initiative for an Efficient Power Production in Indian Sugar Industries”** by Narendra Mohan, J.P. Srivastava, Anoop Kumar Kanaujia sent for presentation in 45<sup>th</sup> Annual Convention of SISSTA scheduled to be held on 24<sup>th</sup> & 25<sup>th</sup> July 2015 at Bengaluru.

## Consultancy Services

During the period April– June 2015, consultancy services on various technical matters viz.

modernization cum expansion. Co-generation and ethanol production etc. were provided to the sugar factories and distilleries situated in different sugar producing states.

1. M/s Harinagar Sugar Mills, Ltd. Harinagar, West Champaran, Bihar.
2. M/s New Swadeshi Sugar Mills, Narkatiaganj, West Champaran, Bihar.
3. M/s The United Province Sugar Co. Ltd., Seorahi, Tamkhui, Kushinagar, U.P.
4. M/s Gobind Sugar Mills Ltd. Aira, Lakhimpur Khiri, U.P.
5. M/s UP Coop. Sugar Factories Federation Ltd. Lucknow, Unit-Kaimganj Distillery, Kaimganj, Farrukhabad, U.P.
6. M/s NSL Sugar Ltd., Aland, Unit-2, Karnataka.
7. M/s Kumbhi Chini Mills, Kumbhi Lakhimpur Khiri, U.P.
8. M/s Mula SSK Ltd. Tq. Newasa Dist. Ahmednagar, MH.
9. M/s Rajasthan State Ganganagar Sugar Mills Ltd., Shri Ganganagar, Rajasthan.
10. M/s Lokmangal Agro Industry Ltd. Bibidarpal, Solapur, MH
11. M/s Shanti G.D. Ispat and Power Ltd. Mohada Janjgir Champa, Chhattisgarh.
12. M/s Cawnpore Sugar Works, Padrauna, (Unit of BIC Kanpur) U.P.
13. M/s Ramala Sahkari Chini Mills Ltd. Bagpat, U.P.
14. M/s Chhatrapati SSK Ltd. Bhawaninagar, Indapur, Pune, MH
15. M/s The Batala Coop Sugar Mills Dist. Gurdaspur, Punjab.
16. M/s The Morinda Coop Sugar Mills Dist. Amritsar, Punjab.

## Seminar/Conferences/ Attended

1. Director, attended an All India Seminar on “**Varietal Improvements and Emerging Technology Tools for Enhancing Sugarcane Productivity**” held on 28<sup>th</sup> April, 2015 at Indore, M. P.
2. Director, delivered a lecture on “**Value Addition in Sugar Industry**” during one day the All India workshop on “**Cane Development & Sugar Industry Contemporary Challenges and Alternatives**” organized by Lal Bahadur Shastri Ganna Kisan Sansthan, Lucknow, U.P. on 30<sup>th</sup> April, 2015.
3. Director, Dr.(Mrs.) Seema Paroha, Professor of Biochemistry and Shri Vivek Pratap Singh, Junior Technical Officer (Sugar Technology), attended an All India Seminar on “**Environmental Concepts of Sugar Complex**” held on 11<sup>th</sup> May, 2015 at Hyderabad, organized by the South Indian Sugarcane & Sugar Technologists’ Association.



4. Director, delivered a lecture on “**Ethanol Production for Better Health of Sugar Industry**” during the 7<sup>th</sup> Sugar Asia held on 22<sup>nd</sup> May 2015 at Mumbai. Shri Jitendra Singh, Assistant Professor Sugar Technology also participated in the conference.



7<sup>th</sup> Sugar Asia held on 22<sup>nd</sup> May, 2015 at Mumbai

5. Shri Virendra Kumar, Technical Officer (Instrument) and Shri Narendra Dev, Junior Technical Officer (Sugar Technology) attended Short Term Course on “**Evaluation and Setting Question Papers**” held on 22-24 April, 2015 organized by National Institute of Technical Teachers Training and Research, Chandigarh.
6. श्री दयाशंकर मिश्र एवं श्री रमाकान्त आशुलिपिक ने हिन्दी टंकण (मंगल फान्ट) में राजभाषा नीति के अन्तर्गत छः महीने का हिन्दी शिक्षण योजना, सी0क्यू0ए0(जी0एस0) आडीटोरियम हाल, मीरपुर, कैण्ट, कानपुर में प्रशिक्षण प्राप्त किया।

## Visitors from Abroad

Twenty-nine member delegations from Australia visited the institute on 5<sup>th</sup> May 2015 to seek information about the various activities of the institute viz. teaching, research and consultancy. The delegation led by Mr. Dale Price took keen interest in the research work being carried out for production of ethanol from cassava and sugar beet.

The delegation also collected information with respect to various courses being conducted by the institute and nature of technical services rendered to the sugar industry. The delegation also shared information on agriculture practices being followed in Australia for cultivating sugarcane crop, particularly, on mechanical harvesting of sugarcane crop.





Mr. Dale Price, Leader, Australian Delegation  
with Director, NSI

## 48<sup>th</sup> Meeting of Advisory Board of the Institute

The 48<sup>th</sup> meeting of Advisory Board was held on 15<sup>th</sup> May, 2015 at the institute under the Chairmanship of Joint Secretary (S&SA). The meeting was attended by the officials from ministry and representatives from Indian Sugar Mills Association, National Federation of Cooperative Sugar Factories, Indian Institute of Sugarcane Research and UP Council of Sugarcane Research etc.



The research and other work done carried out at the institute during the last one year was reviewed and the board suggested more R&D work to be carried out on ethanol production & environment protection.

## Swachh Bharat Mission

A weeklong cleanliness drive June, 2015 was undertaken in the Institute from 22<sup>nd</sup> to 26<sup>th</sup> June, 2015 to ensure cleanliness in departments and surroundings. An awareness campaign was launched seeking participation of all the officers, staff members and students.

The main building, hostels, Experimental Sugar Factory and residential buildings were cleaned with no surplus materials lying here and there. During the campaign unserviceable material was also identified & action was taken for its disposal.



Swachh Bharat Mission Campaign

## हिन्दी कार्यशाला

सरकारी कामकाज में हिन्दी का अधिका से अधिक प्रयोग कर राजभाषा के निर्देशों का शत-प्रतिशत पालन सुनिश्चित करने के उद्देश्य से दिनांक 19.06.2015 को संस्था के सेमिनार हॉल में प्रातः 11:30 बजे हिन्दी कार्यशाला का आयोजन किया गया जिसमें संस्थान के 32 अधिकारियों एवं कर्मचारियों ने भाग लिया। संस्था के निदेशक श्री नरेन्द्र मोहन ने कार्यशाला का उद्घाटन किया।



हिन्दी कार्यशाला दिनांक 19.06.2015

उन्होंने संस्थान के अधिकारियों एवं कर्मचारियों को हिन्दी के अधिकाधिक प्रयोग करने हेतु आवाहन किया जिससे कि संस्थान में हिन्दी में कार्य करने का लक्ष्य हासिल किया जा सके।

### Joint Secretary (Sugar & Sugar Administration) visit

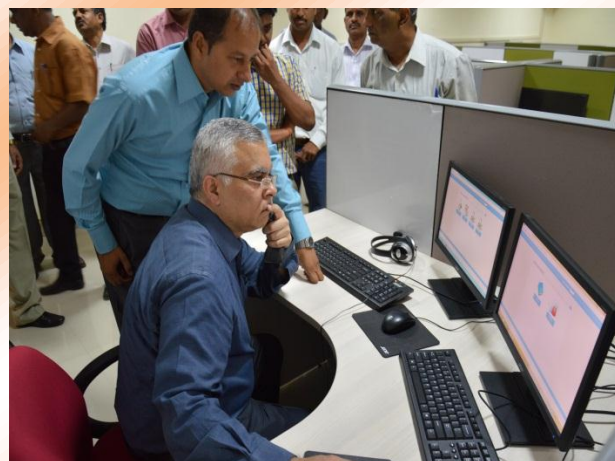
Shri Prashant Trivedi, IAS, Joint Secretary (S&SA) visited the institute on 15<sup>th</sup> May, 2015. He visited Agriculture Farm, Hostels, various Laboratories viz Bio-Chemistry, Physical Chemistry, Sugar Technology and Bureau of Sugar Standards and took keen interest in research work being carried out by the institute.



He also observed the R&D work being carried out by the institute on electro-coagulation of distillery spent wash, production of ethanol from other feed stocks i.e. sugar beet & cassava and on developing model for water conservation in sugar factories. He also inspected the experimental site where work on use of graded dosage of potash on sugarcane productivity has been taken up in collaboration with International Potash Institute.



During the visit he also inaugurated the newly constructed computer centre to be utilized as Language Laboratory and also for imparting training to the students on AUTO-CAD.



### Appointments

Dr. V. P. Srivastava joined the institute as Assistant Professor of Organic Chemistry.