



**Swami Keshvanand Institute of Technology, Management &  
Gramothan, Jaipur**

**Dst Sponsored National Conference On  
Sustainable Engineering Applications of Material Science and  
Physico – Chemical Innovations**

**26-27, February, 2016**

**Organized by  
Department of Chemistry**

# *Report*

## **SPONSORED BY**



DEPARTMENT OF SCIENCE  
& TECHNOLOGY  
GOVERNMENT OF RAJASTHAN



MAGIC COLLECTION, JAIPUR



SAVITA SCIENTIFIC  
PLASTIC SUPPLIERS,  
JAIPUR

**Prof. Archana Saxena**  
Mentor & HOD Chemistry

**Dr. Sharda Soni**  
Asso Prof. & Convenor

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## **Foreword**

Materials science is a relatively new and very broad field. It involves applications from number of scientific disciplines that contribute to the creation of new materials. Chemists play a predominant role in materials science because chemistry provides information about the structure and composition of materials, as well as the processes to synthesize and use them.

The central theory behind materials science involves relating the microstructure of a material to its macromolecular physical and chemical properties. By understanding and then changing the microstructure, material scientists tailor the properties to create custom, or even brand new, materials with specific properties for specific uses.

Materials scientists are employed by companies who make products from metals, ceramics, and rubber. They also work in the coatings (developing new varieties of paint) and biomedical industries (designing materials that are compatible with human tissues for prosthetics and implants). Other important areas are polymers (including biological polymers), composites (heterogeneous materials made of two or more substances), superconducting materials, graphite materials, integrated-circuit chips, and fuel cells.

Materials science spans so many different disciplines and applications that people who work in this field tend to specialize in a technique or material type. Students are urged to contact associations for ceramic manufacturers, synthetic rubber makers, paints and coatings manufacturers.

This conference is very much significant in the light of importance and bond of material science with chemical science.

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**National Conference On**  
**Sustainable Engineering Applications of Material Science and**  
**Physico – Chemical Innovations**

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Prof. R. K. Jain, Head, Physics Dept. SKIT, Jaipur  
Dr. Neerja Saraswat, Head, Eng Dept. SKIT, Jaipur

### **Eminent Speakers**

Mr. Yatender Suri, Country Head at Outokumpu India Pvt Ltd, New Delhi Area, India, Mining & Metals (An Alumnus of IIT Khadagpur)  
Prof. P.K. Khanna, Chief Scientist, CERRI Pilani  
Prof. Gurmeet Singh, Head Chemistry Dept., Delhi Univ., Delhi  
Prof. Y.K. Vijay, President, Vivekananda Global Univ., Jaipur  
Prof. Satish Awasthi, Chem. Dept., Delhi Univ., Delhi  
Dr. Meghanshu Vashishtha, ME Dept., IIT BHU, Banaras  
Mr. Sunil Saxena, President, BLK Delhi

## **OVERVIEW**

The discipline of materials science and engineering links scientific research with applied engineering to design materials for specialized uses. Material Science offers tremendous opportunities to improve product performance, human health and welfare, and environmental protection. A wide range of industries such as medical devices, health care, energy and nanotechnology are actively involved in this field. Many improvements to our quality of life are based upon these novel materials. Their exposure, toxicity and assessment data will be needed for successful deployment.

This is when India is pacing ahead towards achieving greater avenues in the comprehensive development of our nation, and thus, the role of MATERIAL SCIENCE becomes an integral part of the process. This Conference will offer a peek at the horizon of these emerging innovations and attempt to identify potential possibilities regarding sustainable applications of Material Science that must be addressed as we move into the future.

## **OBJECTIVES OF THE CONFERENCE**

The discipline of materials science and engineering links scientific research with applied engineering to design materials for specialized uses. Material Science offers tremendous opportunities to improve product performance, human health and welfare, and environmental protection. A wide range of industries such as medical devices, health care, energy and nanotechnology are actively involved in this field. Many improvements to our risk quality of life are based upon these novel materials. Their exposure, toxicity and assessment data will be needed for successful deployment. In addition, social context is critical for determining whose quality of life is improved and whose may be impaired. This Conference will offer a peek at the horizon of these emerging innovations and attempt to identify potential possibilities regarding sustainable applications of Material Science that must be addressed as we move into the future.

## **THEMES**

The Themes of the present conference have been considerably kept broad to encourage the positive and wide discussion on the subject. Potential topics to be addressed in this conference include:

- 1) Nanomaterials
- 2) Clean Energy Materials
- 3) Conducting materials
- 4) Polymers
- 5) Resins
- 6) Cementing Materials
- 7) Glass
- 8) Refractory Materials
- 9) Corrosion and its prevention
- 10) Lubricants
- 11) Metals n alloys
- 12) Water treatment
- 13) Desalination
- 14) Chemical & toxic waste management
- 15) Sustainable agricultural and integrated pest management
- 16) Materials for environmental problems solution

**Note:-** Any other related topic is also welcomed.

**Technical Programme**  
**Day One : Friday, 26 February 2016**

**8:30am - 9:30am: Registration (Venue – Sir M. Vishweshwariya Block, SKIT, Jaipur)**

**Session-I (Venue – Gyan Mandir Auditorium, Sir M. Vishweshwariya Block, SKIT, Jaipur)**

**9:30am -10:00am: Inauguration**

10:00am - 11:00am: Keynote Address

Chairperson - Prof. S.K. Bhatnagar, Director (Research) &Head, ECE Dept. SKIT, Jaipur

1. Prof. P.K. Khanna, Chief Scientist, CEERI Pilani  
(Smart Materials and Recent Developments for Engineering Applications)
2. Mr. Yatinder Suri, (IIT Kharagpur alumunus)MD & Country Head Outokumpu India  
Private Limited  
(Corrosion Mitigation through Sustainable Materials)

**11:00am -11:30am: High Tea**

**Session-II ( Venue – J. C. Bose Seminar Hall, SKIT, Jaipur)**

Chairperson - Prof. Sangeeta Vyas (Chemistry Dept., SKIT, Jaipur)

11:30am-12:00noon: Invited Talk-I Prof. Satish Awasthi, Chemistry Dept., Delhi Univ, Delhi  
(Malaria: Prevention and Cure)

12:00noon-12:30pm: Invited Talk-II Prof. Y.K. Vijay, President VGU, Jaipur

12:30pm-1:30pm: Oral Presentations

1:30pm - 2:00pm: Lunch

**Session-III ( Venue – J. C. Bose Seminar Hall, SKIT, Jaipur)**

Chairperson - Prof. P.S. Verma, Emiritus Scientist, UOR, Jaipur

2:00pm -2:30pm : Invited Talk-III - Prof. Gurmeet Singh, Head, Chemistry Dept., Delhi Univ,  
Delhi (Quinoxaline: A useful and effective inhibitor for the corrosion of mild steel in 0.5 M  
H<sub>2</sub>SO<sub>4</sub> solution)

2:30pm - 3:00pm: Invited Talk-IV – Dr. Meena Nagar, Assoc. Prof., UOR, Jaipur  
(Formation of Nano Ceramic Material by Different Synthetic Modes)

3:00pm – 4:00pm: Oral Presentations

4:00pm – 4:15pm: Tea

4:15pm - 5:00pm: Poster Presentations



**Technical Programme**  
**Day Two : Saturday, 27 February, 2016**

**Session-IV ( Venue – J. C. Bose Seminar Hall, SKIT, Jaipur)**

Chairperson - Prof. D.K. Sharma, Civil Engg. Dept., SKIT, Jaipur

9:30am - 10:00am : Invited Talk-V Dr. Meghanshu Vashiththa, Asso. Prof. Mech. Engg. Dept., IIT, BHU (Material Characterization using Barkhausen Noise Technique)

10:00am - 10:30am : Invited Talk-VI Mr. Sunil Saxena, VP, Ahluwalia Contract India Ltd. New Delhi (Light weight casting cubes)

10:30am - 11:15am : Oral Presentations

11:15am – 11:30am: Tea

**Session-V ( Venue – J. C. Bose Seminar Hall, SKIT, Jaipur)**

Chairperson - Prof. Poornima Nag, Dy. Director, School of Engg., JNU, Jaipur

11:30am -12:00noon : Invited Talk-VII Mr. Vinay Jain, Reader, Mech. Engg. Dept., SKIT, Jaipur (Polypropylene as a new anti-corrosion agent: A case study for pipelines used for water having high iron content in north east part of India)

12:00pm-1:30pm: Oral Presentations

1:30pm-2:00pm: Lunch

**Session-VI ( Venue – J. C. Bose Seminar Hall, SKIT, Jaipur)**

2:00pm-2:45pm: Panel Discussion: Materials for Renewable Energy Generation and Storage

Panel Moderator: Prof. Archana Saxena, Head, Chem. Dept., SKIT, Jaipur

Esteemed Panelist:

1. Dr. Meghanshu Vashiththa, Asso. Prof., Mech. Engg. Dept., IIT, BHU
2. Mr. Sunil Saxena, VP, Ahluwalia Contract India Ltd. New Delhi
3. Prof. S.K. Bhatnagar, Director (Research ) &Head, ECE Dept. SKIT, Jaipur
4. Mr. S. N. Vijayavergiya, Dean R& D, SKIT, Jaipur
5. Mr. Vinay Jain, Reader, Mech. Engg. Dept., SKIT, Jaipur
6. Mr. Ashish Nayyar, Reader, Mech. Engg. Dept., SKIT, Jaipur

2:45pm-3:15pm: Poster Presentations

3:15pm – 3:30pm : Tea

3:30pm – 4:30pm: Valedictory Function

## **Report of the Conference**

Department of Chemistry has organized a two days National conference sponsored by Department of Science and Technology Government of Rajasthan, on “Sustainable Engineering Applications of Material Science and Physico – Chemical Innovations” On February 26-27, 2016.

**Pre conference meeting** was held on 25<sup>th</sup> Feb 2016 Satish Kumar Awasthi, Chemistry Dept, Delhi Univ, Prof. A P Shukla Ex Principal Govt College Ganganagar, Prof. Archana Saxena Convenor of the conference, Dr. Sharda Soni HOD – Chem and Co convenor, Dr. Swati Joshi Co convenor, Prof Sangeeta Vyas, Prof. Vinita Sharma, Dr. Anurag Sharma, Dr. Poonam Ojha were present in the meeting. Status of preparation and arrangements, Hard wares and seminar halls, auditorium were viewed by the experts.

**The conference hosted delegates from** Univ of Delhi, IIT BHU, AVS Presidency Int. College, Raipur Banasthali Vldhyapeet Rajasthan, University of Rajasthan, University of Delhi, Manipal University Jaipur, Amity University Jaipur, S.S. Jain Subodh PG College Jaipur, Central University of Rajasthan Ajmer, BN University Udaipur, JECRC University Jaipur, Vivekanand Global University Jaipur, JNU Jaipur, PCE Jaipur, GOVT College Bikaner.

On Feb 26, 2016 **inauguration ceremony and first session** was held at Gyan Mandir Auditorium, Sir M. Vishweshariya Block began with lamp lighting and with the welcome note by Mr. Jaipal Meel , Director, SKIT. Prof. S.L. Surana, Director Academics, SKIT briefed the august gathering about SKIT and research status in our institute. Prof. Archana Saxena Head, Chem. Dept. SKIT, has made the audience acquainted with conference details. **Key note address was delivered by Reverend Mr. Yatinder Suri, (IIT Kharagpur alumunus)MD & Country Head Outokumpu India Private Limited** Mr. Yatinder Suri delivered the lecture on Corrosion Mitigation through Sustainable Materials with special reference to Stainless Steel.

The chairperson for this Keynote session was Prof. S.K. Bhatnagar, Director Research and Head ECE Department SKIT.

**Eminent speaker Prof. P.K. Khanna** shared the information on Smart Materials and Recent Developments for Engineering Applications with special mention of nanomaterials.

Other eminent speakers of the different sessions in two days also graced the occasion of inauguration. Delegates from various universities and institutions also participated in the conference by sharing their research contributions.

**In the next two sessions** expert lectures were delivered by **Prof. Satish Awasthi, Professor Chemistry Dept., Delhi University, on “Malaria: Prevention and Cure”**.

**Prof. Y.K. Vijay, President VGU, Jaipur**, delivered lecture on Materials and Energy.

Dr. Sharda Soni Convenor of the conference gave the vote of thanks.

**Day 2 ( 27 feb.)** Dr. Meena Nagar, UOR, Jaipur delivered the talk lecture on “Formation of Nano Ceramic Material by Different Synthetic Modes”.

Mr. Sunil Saxena, VP, Ahluwalia Contract India Ltd. New Delhi delivered the very informative lecture on “Light weight casting concrete”.

**A panel discussion** on the: “Materials used for Renewable Energy Production and Storage” made the flair of the conference more interesting

**Prof.R.P. Yadav former VC of RTU and professor Department of ECE, MNIT, Jaipur and Mr.R.S.Jain project officer DST, Rajasthan**, were present as honoured guest in the **Valedictory** Function. Prof. S.L. Surana Director- Acad., SKIT, Prof. S.K Calla Diirector D&W, SKIT, Ms. Rachna Meel, Registrar, SKIT and Prof. Ramesh Kumar Pachar Principal, SKIT congratulated the organizing team for successful and fruitful completion of the two day National Conference Nearly hundred research papers were presented as oral and poster. Best oral and best poster awards and Certificates were distributed to the students to motivate them.

**Approx. 250 delegates** from govt., and private institutes and universities participated in the conference.

**The two days** were full of sharing and discussion of scientific presentations. Poster presentations also attracted the delegates and a lot discussion held with presenters.

Delicious food added the joy in the environment.

**Outcome:** The conference ended with leaving an impression of important areas of research for our present and future. Certain important areas were discussed and a seed was sown to work further in these emerging areas like Anti corrosive materials, Water purification, Waste minimization, Nano cementing), Chemically modified optical fibers.

Conference received good response in the form of pan India participation. Research papers were read and discussed, poster presentations were held. Overall it was a nice gathering of research fraternity who shared and discussed their research among each other and the research scholars and other students were benefitted.

**Recommendations:** The conference hosted scientists, researchers, and representatives of the pharmaceutical and chemical companies. The Conference served as a cradle for the genesis of new ideas pertaining to novel possibilities in the field such as: development/ synthesis of new therapeutic molecules, development/synthesis of new materials or alloys to be used in mining or infrastructure, development of new methodologies for conducting chemical reactions.

Low cost good quality stainless steel is the need of the hour. It is being used in developing mega and ultra infrastructure. India has a wide scope in this field also. Curtains of nanomaterial for solar power production was also talked about which attracted the nano researchers to work further in this area.

**Follow-up steps:** Recommendations were communicated among all the participants, Institutes, Researchers, Experts from Industry and Academia, Departments of the host institute.

**25000/- was sanctioned as Grant-in-Aid under sanction letter No.**  
**7(6)D.S.T./R.S.D./WORK SHOP/908 dated 05.02.2016 by DST Rajasthan**

Dr Archana Saxena  
S. A. Saxena  
10/2/15

3

राजस्थान सरकार  
विज्ञान एवं प्रौद्योगिकी विभाग  
506, चतुर्थ मंजिल, मिनी सचिवालय, बनीपार्क, जयपुर

क्रमांक : 7(6)डी.एस.टी./आर.एस.डी./वर्क शॉप/2014/908

दिनांक 5.2.16

कार्यालय आदेश

राज्य आयोजना वर्ष 2015-16 में राज्य सरकार के आदेश क्रमांक प.13/(126)वि.प्रौ./आयो/प्र. स्वी/2015-16/4125 दिनांक 23.04.2015 द्वारा विभाग को सहायतार्थ अनुदान मद (पूर्व दायित्वमद) अनुसंधान एवं विकास (वर्कशॉप/सेमिनार/मीटिंग्स/कान्फ्रेंस) में राशि रुपये 10.00 लाख की प्रशासनिक एवं वित्तीय स्वीकृति प्रदान की गयी है।

Dr. Archana Saxena, Head Department of Chemistry, Swami keshvanand Institute of technology management & gramothan, Jaipur द्वारा दिनांक 26-27 फरवरी, 2016 को आयोजित की जाने वाली sustainable Engineering applications of material Science and Physico- Chemical innovation आयोजन हेतु उक्त परियोजनार्थ कैटेलिक ग्रांट रुपये 25,000 स्वीकृत की जाती है।

उक्त स्वीकृत धन राशि रुपये 25,000 (अक्षरे रुपये पच्चीस हजार मात्र) का आहरण, आहरण एवं वितरण अधिकारी मुख्यालय विज्ञान एवं प्रौद्योगिकी विभाग, जयपुर द्वारा किया जाकर Principal Swami keshvanand Institute of Technology Management & Gramothan, Jaipur, को प्रेषित किया जायेगा।

यह व्यय वित्तीय वर्ष 2015-16 में बजट शीर्ष मांग संख्या 11-विविध सामाजिक सेवायें, 3425-अन्य वैज्ञानिक अनुसंधान, 01-भारतीय सर्वेक्षण, 800-अन्य व्यय (10) अनुसंधान एवं विकास प्रभाग 12-सहायतार्थ अनुदान, (iv) वर्कशॉप/सेमिनार/मीटिंग्स/कान्फ्रेंस कार्यशाला (1) सामान्य अनुसंधान एवं विकास परियोजना से प्रभार्य होगा।

उक्त परियोजना की स्वीकृति निम्न मुख्य शर्तों के साथ लागू होगी।

1. स्वीकृति राशि की प्राप्ति रसीद इस विभाग को भिजवायी जावे।
2. राशि जिस कार्य हेतु स्वीकृत की गयी है केवल उसी कार्य पर मितव्ययता के साथ की जावे।
3. कार्य समाप्ति पर उक्त नेशनल कान्फ्रेंस की विस्तृत रिपोर्ट मय उपयोगिता प्रमाण पत्र जो अंकक्षक/सक्षम लेखा प्रभारी द्वारा सत्यापित हो एवं आय व्यय विवरण निर्धारित प्रपत्र में (3 प्रतियों में) कान्फ्रेंस आयोजन के पश्चात् एक माह में भिजवाये।
4. अनुदानित राशि के क्रय की गई सम्पत्ति का रजिस्टर संधारित किया जावे।

निदेशक

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दिनांक 5.2.16

प्रतिलिपि सूचनार्थ एवं आवश्यक कार्यवाही हेतु निम्न को प्रेषित है :-

1. प्रधान महालेखाकार (लेखा परीक्षा प्रथम/लेखा एवं हक) राजस्थान, जयपुर।
2. कार्यालय निवासी, लेखा परीक्षा अधिकारी, शासन सचिवालय, जयपुर।
3. मुख्य लेखाधिकारी, विज्ञान एवं प्रौद्योगिकी विभाग, जयपुर।
4. कोषाधिकारी, कोष कार्यालय, जयपुर शहर, जयपुर।
5. उप निदेशक (आयोजना), विज्ञान एवं प्रौद्योगिकी विभाग, जयपुर।
6. आहरण एवं वितरण अधिकारी, मुख्यालय-जयपुर, विज्ञान एवं प्रौद्योगिकी विभाग, जयपुर।
7. Principal Swami keshvanand Institute of Technology Management & Gramothan , Ram Nagaria, Jagatpura, Jaipur को भेजकर लेख है कि कार्यक्रम आयोजन के एक माह उपरान्त उपयोगिता प्रमाण-पत्र मय आय-व्यय विवरण पत्र के संलग्न प्रपत्र में अविलम्ब प्रस्तुत करें।
8. Dr. Achana Sexena, Head Department of Chemistry, Swami keshvanand Institute of Technology Management & Gramothan, Ram Nagaria, Jagatpura, Jaipur को भेजकर लेख है कि कार्यक्रम आयोजन के माह उपरान्त उपयोगिता प्रमाण-पत्र मय आय-व्यय विवरण पत्र के संलग्न प्रपत्र में अविलम्ब प्रस्तुत करें।
9. बिल क्लर्क, (दो प्रतियों में), विज्ञान एवं प्रौद्योगिकी विभाग, जयपुर।
10. रक्षित पत्रावली।

*सिम्पल*  
परियोजना निदेशक - I

## **ORGANIZING COMMITTEE**

### **Mentors:**

Prof. Archana Saxena (Head of Chemistry Dept.)

Prof. Sangeeta Vyas (Chemistry Dept.)

### **Convenor:**

Dr. Sharda Soni (Reader Chemistry Department)

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Dr. Anurag Sharma

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Dr. Jyoti Arora

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Mr. Nawal Kishore Jangid

Dr. Lalit Gehlot

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## IMPORTANT DATES

Abstract Submission : 16<sup>th</sup> February, 2016  
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**26<sup>th</sup> - 27<sup>th</sup> February, 2016**

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Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) inspired from the learnings of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for Advanced Learning. Today the institute is recognized as one of the centers of academic excellence in Northern India. The Institute is affiliated to Rajasthan Technical University, Kota and its five of the B.Tech courses are accredited by National Board of Accreditation (NBA) and IE(I). Apart from offering M.Tech courses in seven specialization SKIT also pursues activities for research and development in various fields. The green landscaping, aesthetic elegance of arches and the vibrant pursuit of knowledge by the young aspirants make the environment serene, pleasant and dynamic.

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The strength of the Department of Sciences has been and continues to be at its best for excellence in research and teaching. The commitment to research is reflected in the research paper publications in reputed national and international journals as well as presentations of research papers in national and international conferences/seminars. The department is well equipped to undertake projects sponsored by the Ministry of Human Resources and Development, Department of Science and Technology, and Council of Scientific and Industrial Research. The department also encourages link with industry sponsored research. The faculty has been active in organizing scientific meetings from time to time. Department offers vibrant and dynamic atmosphere to nurture the spirit of inquisitiveness amongst students and faculty members.

## OBJECTIVES OF THE CONFERENCE

The discipline of materials science and engineering links scientific research with applied engineering to design materials for specialized uses. Material Science offers tremendous opportunities to improve product performance, human health and welfare, and environmental protection. A wide range of industries dealing with medical devices, health care, energy and nanotechnology are actively involved in this field. Many improvements to our quality of life are based upon these novel materials. Their exposure, toxicity and assessment data will be needed for successful deployment.

This is when India is marching ahead towards achieving greater avenues in its comprehensive development, and thus, the role of Science and Technology becomes an integral part of the process. This Conference will offer a peek at the horizon of these emerging innovations and attempt to identify potential possibilities regarding sustainable applications of Material Science that must be addressed as we move into the future.

## THRUST AREAS

The Theme of the present conference has been considerably kept broad to encourage the positive and wide discussion on the subject. Potential topics to be addressed in this conference include

1. Nanomaterials
2. Clean Energy Materials
3. Conducting materials
4. Polymers
5. Resins
6. Cementing Materials
7. Glass
8. Refractory Materials
9. Corrosion and its prevention
10. Lubricants
11. Metals n alloys
12. Water treatment
13. Desalination
14. Chemical and toxic waste management
15. Sustainable agricultural and integrated pest management
16. Materials for environmental problems solution
17. Research ethics and legislation

Any other related topic is also welcomed.

## CALL FOR PAPERS

Participants are requested to submit abstracts of research and review papers, [A-4 size, typed in MS WORD format, Times new roman, 12 font and 1.5" line spacing] for oral/ poster presentation along with duly filled registration form by e - mail latest by 21<sup>st</sup> February, 2016.

## ACCOMMODATION

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**26<sup>th</sup> - 27<sup>th</sup> February, 2016**

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**Registration Category :** Research Scholar/  
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**Registration Fees:** Cash/ DD

Amount : .....

DD No : .....

**Accommodation Required:** Yes / No

**Signature**

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### **ORAL AND POSTER PRESENTATIONS**

| S.N | TOPIC   | AUTHORS                                | INSTITUTE   | ORAL/<br>POSTER | SESSION |
|-----|---|--|---|-----------------|---------|
| 1   | Pid Controller Tuning With Derivative Filter for Reverse Osmosis Desalination   | N. S. Rathore, T. Prakash, V. P. Singh | Electrical Engineering Department, National Institute of Technology, Raipur                                   | ORAL            | III     |
| 2   | Physico–Chemical Properties of Copper (II) Soap Complexed with N-Donor Ligands in Non-Aqueous Binary Solvent Mixture                                  | Neha Mathur, Nisha Jain                | .N.K.S.Govt. P.G. College, Dausa (Raj), S.S. Jain Subodh P.G. (Autonomous) College, Jaipur (Raj)              | ORAL            | II      |
| 3   | Particulate Matter  | Ranjana Agrawal                        | Birla institute of Technology, Mesra , Jaipur Campus  | POSTER          | III     |
| 4   | Synthesis and Antibacterial Studies of 8-Substituted-2, 5-Dihydro-4-(2-Pyridyl/4-Bromophenyl) - 2-(2-Furyl/2, 4-Dichlorophenyl)-1, 5-Benzothiazepines | Seema Pant and Meenakshi Yadav         | P.G. Department of Chemistry, Lal Bahadur Shastri Government P.G.College, Kotputli                            | ORAL            | II      |
| 5   | Synthesis, Characterization and Antibacterial Study of 2-Methylcyclohexanol   | Ritu Saharan Jyoti Joshi               | Department of Chemistry, University of Rajasthan, Jaipur, Department of Chemistry, MNIT Jaipur, 302017, India | ORAL            | II      |

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| 6  | Thermal degradation analysis of Complexes derived from Copper (II) Neem Soap (Azadirachta indica) and Copper (II) Pongamia Soap (Pongamia pinnata)                    | ShemaKhan,<br>A.R.Khan,<br>Rashmi Sharma  | Pt.N.K.S.Govt.<br>P.G.College, Dausa,<br>Pt.S.N.S.Govt. P.G.<br>autonomous College,<br>Shahdol, M.P.<br>Govt.College, Ajmer | ORAL   | II  |
| 7  | Earthquake Resistance Building  | Vikram Joshi,<br>Anu Sharma   | Department of Civil,<br>Govt. College of<br>Engineering &<br>Technology, Bikaner  | POSTER | III |
| 8  | Green Chemistry for Reduction of Indol Derivatives  | Shachi Sharma,<br>P.S.Verma,<br>I.K.Sharma                                      | Department Of<br>Chemistry, University Of<br>Rajasthan  | ORAL   | II  |
| 9  | Greener Methods to Inhibit Corrosion  | ShubhraPareek,<br>Rashmy Nair and<br>Kusum Sharma                               | Department of<br>Chemistry, S.S. Jain<br>Subodh P.G.<br>(Autonomous) College,<br>Jaipur                                     | POSTER | VI  |
| 10 | Synthesis and characterization of ZnO nanoparticles and Antibacterial Activities  | Rajesh Kumar<br>Meena, Neeta<br>Gurbani,<br>Kahkashan Ansari &<br>Neelu Chouhan | Department of Pure &<br>Applied Chemistry,<br>University of Kota, Kota,<br>Rajasthan, India                                 | ORAL   | II  |
| 11 | Evaluation of intensity and energy interaction parameters for the absorption spectral studies of the complexation of Pr (III) with some crown ethers and amino acids. | R.P. Mathur<br>NeelamBishnoi &<br>KirtiMathur                                   | Govt. Dungar College<br>Bikaner<br>Govt. M.S. College,<br>Bikaner 334001  | ORAL   | II  |

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| 12 | Physiochemical Analysis of Ground Water of Jodhpur District  | Shipra Singh and Pallavi Mishra       | Department of Chemistry, JNVU University, Jodhpur                        | ORAL   | II  |
| 13 | Biosorption of Cr (VI) From the Aqueous Solution using AloeveraPulp Biomass: A Kinetic and Thermodynamic study   | Sudesh, Nidhi Gupta                   | Department of Chemistry, K. M. M, Jaipur India                           | ORAL   | III |
| 14 | A Comparative Study of Various Re-Refining Processes of used Lubricating Oils  | Arti Mishra                           | Department of Chemistry, Kanoria PG Mahila Mahavidyalaya, Jaipur         | POSTER | III |
| 15 | Studies on Insecticidal Aspects of Some Binuclear Oxomolybdenum (V) and Dioxidomolybdenum(VI) Complexes with Dithiocarbamate Derived from $\alpha$ -Amino Acids. | Keerti Saraswat                       | Department of Chemistry, Pratap University, Jaipur, India.               | ORAL   | III |
| 16 | A Study of pH, Salinity, and Clarity of Water Samples of different areas around the Jaipur   | Santosh kumar Agrawal                 | Dept. of Chemistry, Anand International College of Engg Kanota, Jaipur   | ORAL   | III |
| 17 | Cement Industries: Sustainability Issues and Initiatives   | D. Hariyani, R. Vijay and P. Hariyani | Deptt. of Mech. Engg., SKIT, Jaipur<br>Deptt. Of Chemistry, JECRC Jaipur | ORAL   | III |

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|----|---|--|--|--------|-----|
| 18 | Sustainable Removal of Azo Dye from Textile Effluent of Waste Water using Neem Bark Powder        | Seema Singh  | Department of Chemistry, School of Basic Sciences<br>JNU, Jaipur, India                              | ORAL   | III |
| 19 | Tabernaemontana divaricata Extract – a Green Corrosion Inhibitor for Mild Steel in 1 M HCl Medium | Poonam Dwivedi   | Department of Chemistry, School of Basic Sciences,<br>Jaipur National University, Jaipur, India      | ORAL   | V   |
| 20 | Hazardous Waste Management  | Mala Mathura,<br>Pallavi Mishra,<br>Sakshi Malhotra                    | Department of Chemistry, B. Tech. IV Sem Civil<br>Vivekananda Institute of Technology, Jaipur        | ORAL   | IV  |
| 21 | Pathway towards Sustainable Agriculture   | Mehandi Mittal<br>Harsha Rishi and<br>Rashmy Nair                      | Department of Chemistry, S.S Jain Subodh PG.<br>(Autonomous) College<br>Jaipur                       | ORAL   | IV  |
| 22 | Molecular Interaction in Aqueous Solution of Aspirin by Acoustic Parameters                       | A.B. Dhote <sup>1</sup> , R. S. Hajare<br>S.S. Aswale and S. R. Aswale | N. S. Sc. & Arts college,<br>Bhadrawati, Chandrapur<br>Lokmanya Tilak Mahavidyalaya, Wani,<br>Yatmal | ORAL   | IV  |
| 23 | Environmental Impact of Computing Devices in an Academic Institution                              | Madhu Sharma   | S.S. Jain Subodh PG (Autonomous) College,<br>Jaipur  | POSTER | III |
| 24 | Organic Farming: Cultivating the land and raising crops   | Sarita Chaudhary<br>Mala Mathur and<br>Ankita Paliwal                  | Department of Chemistry, B. Tech IV Sem Civil<br>Vivekananda Institute of Technology, Jaipur         | ORAL   | IV  |

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|----|---|---|--|--------|----|
| 25 | Molecular Interaction Study from Internal Pressure  | R. S. Hajare A. B. Dhote S.S.Aswale and S. R. Aswale          | N. S. Sc. & Arts college, Bhadrawati, Chandrapur LokmanyaTilakMahavidyalaya, Wani, Yaotmal | ORAL   | IV |
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| 27 | Kinetics and Mechanism of Oxidation of L- menthol by Chromium (VI) in Acid Aqueous Medium.  | KritikaJangid, Priyanka Jain, Riya Sailani and C.L.Khandelwal | Department of Chemistry, University of Rajasthan, Jaipur-302004                            | ORAL   | IV |
| 28 | Life Cycle Assessment (LCA) – A tool for quantifying Sustainability and sound methodology for avoid Greenhouse Gas (GHS) emissions” | Sharmila Pokharna and Suman Sharma                            | Anand InternationalCollege of Engineering, Jaipur, Suresh GyanVihar University, Jaipur,    | POSTER | IV |
| 29 | Electrochemical Study of Mixed-LigandsComplexes ofIn (III) With Succinic Acid and Asparagine  | MadhuMoyal and O.D. Gupta                                     | Department of Chemistry, University of Rajasthan, Jaipur                                   | ORAL   | V  |
| 30 | Solid Waste Management  | Shyam Sunder Sharma,Anu Sharma                                | Govt. College of Engineering & Technology, Bikaner   | ORAL   | V  |
| 31 | Study of Some Physico Chemical Aspects of Novel Heterocyclicsin Non-Aqueous Solvent System  | NehaMathur and SonlataBargotya                                | Dept. of Chemistry, Pt. N. K. S. Govt. P. G. College, Dausa – 303303, India                | ORAL   | V  |
| 32 | Mercury Toxicity: Causes, Symptoms and Prevention   | Nisha Gupta, Anita Bhatia and NeeruGakkhar                    | S.S. Jain Subodh P.G. (Autonomous) college, Rambagh Circle, Jaipur                         | POSTER | VI |

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|----|---|---|---|--------|----|
| 33 | Theoretical Analysis of Gold-Silver Nanoalloy Clusters: A DFT Study                 | Babita Malik, Prabhat Ranjan and Tanmoy Chakraborty | Dept. of Chemistry, Dept. of Mechatronics, Manipal University Jaipur,                       | ORAL   | V  |
| 34 | Bioactive ceramic-polymer composites for tissue replacement                         | Namita Soni and Monika Khurana                      | Dept. of Mech. Eng, SKIT, Jaipur  | ORAL   | V  |
| 35 | Sustainability and Treatment of water with Green Technologies                       | Sanjana Chugh Sharmila Pokharna                     | Department of Chemistry, Anand International College of Engineering, Jaipur                 | POSTER | VI |
| 36 | Environmental Pollution and Their Solution  | Ranjeet Singh Thakur and Akshay Kumar Taparia       | Mechanical Engineering, School Of Engineering and Technology, Poornima University           | POSTER | VI |
| 37 | Biosorption of Heavy Metals from Wastewater   | Sarita Singhal, Ritu K. Gupta and Komal Arora       | Department of Chemistry, S. S. Jain Subodh PG College                                       | ORAL   | V  |
| 38 | Sustainable Agriculture   | Komal Arora   | Department of Chemistry, S. S. Jain Subodh PG College                                       | ORAL   | V  |
| 39 | Spectrophotometric method for determination of azodye:naphthol green B              | Rupali Shrivastava & MeenakshiMeena                 | Deptof chemistry, VGU, Jaipur, Research Scholar , GyanVihar University, Jagatpura , Jaipur, | ORAL   | V  |
| 40 | Electrochemical Studies Ga(III) Complexes With Amino Acids In Aqueous Medium At DME | Chanchal Karadia                                    | Department of Chemistry, Govt. Girls P. G. College Jhalawar                                 | ORAL   | V  |
| 41 | Natural Clay: As adsorbent for contaminant removal from water and                   | Gayatri Sharma, SonuPareek                          | Govt. CET, Bikaner JECRC,University   | ORAL   | V  |



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| 42 | Glass-Polymer Hybrid   | awani Charan, Mudit<br>Sharma Shubham<br>Jain & Abhisek<br>Senger | SKIT, Jaipur, M.N.I.T.<br>Jaipur   | POSTER | VI  |
| 43 | Syntheses and<br>Characterization of a New<br>Class of Zirconia<br>Precursors of Oxime-<br>Modified Zirconium (IV)<br>Isopropoxide | Neha Nagar, Ram<br>Gopal, Meena<br>Nagar,                         | Department of<br>Chemistry, University of<br>Rajasthan, Jaipur                         | ORAL   | V   |
| 44 | Glass  | Pankaj Bothra   | School of Engineering &<br>Technology, Poornima<br>University                          | POSTER | VI  |
| 45 | Water treatment &<br>desalination  | Rahul Patel   | School of Engineering &<br>Technology, Poornima<br>University                          | POSTER | VI  |
| 46 | Nano-technology and its<br>application in renewable<br>energy  | Sauradeep Niyogi  | School of Engineering &<br>Technology, Poornima<br>University                          | POSTER | III |
| 47 | Wave Astronomy:<br>GW150914  | Ayushi Goyanka,<br>Divya Jain, Kanika<br>Agarwal                  | Department of Computer<br>Science Engineering, SKIT<br>Jaipur                          | POSTER | III |
| 48 | SMART GRID – The next<br>generation power grid   | Anay Mathur, Kapil<br>Jetawat, Aditya<br>Soni, Sunny Ranjan       | Mechanical Engineering,<br>SKIT JAIPUR   | POSTER | III |
| 49 | Theoretical Analysis of<br>Gold-Silver Nanoalloy<br>Clusters: A DFT Study  | Babita Malik,<br>Prabhat Ranjan<br>TanmoyChakraborty              | Dept of Chemistry Dept<br>of Mechatronics,<br>Manipal University<br>Jaipur, DehmiKalan | POSTER | VI  |

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| 50 | Bioactive ceramic-polymer composites for tissue replacement  | Namita Soni and Monika Khurana             | Mechanical Engineering, SKIT, JAIPUR | POSTER | III |
| 51 | Engineering nano materials in power system   | Piyush Chandra Prakash                     | Elect. Engg. Dept. SKIT, Jaipur      | ORAL   | V   |
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| 53 | Crystals   | Manoj Kumar & Manish Kumawat               | Mechanical Engineering, SKIT, JAIPUR | POSTER | III |
| 54 | Fullerenes   | Udit k. Chawla, Chirag Pareek, Aman Sharma | SKIT, JAIPUR                         | POSTER | III |
| 55 | Polypropylene as a new material for pipeline anti-corrosion coating for areas water having high iron content in north east part of india | Vinay Kumar                                | Mechanical Engineering, SKIT, JAIPUR | ORAL   | V   |
| 56 | Nanomaterials  | Mrinal Mathur & Sajid Khan                 | SKIT, JAIPUR                         | POSTER | VI  |
| 57 | Glass  | Anubhav Mathur                             | SKIT, JAIPUR                         | POSTER | VI  |
| 58 | Cementing Material   | Devang Mathur                              | SKIT, JAIPUR                         | POSTER | VI  |
| 59 | Engineering polymer (waxes and oils)   | Arpit Gupta                                | SKIT, JAIPUR                         | POSTER | VI  |
| 60 | Metallic Glass   | Nikhil JAin & Kritarth Paliwa              | SKIT, JAIPUR                         | POSTER | VI  |
| 61 | Waste management: An opportunity for   | Vaibhav Sankhla, Vaibhav Parashar &        | SKIT, JAIPUR                         | POSTER | VI  |

|    |  |   |  |        |    |
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|    | entrepreneurs  | Rohit Sharma  |  |        |    |
| 62 | GLASS  | Saumya Rastogi                                      | SKIT, JAIPUR   | POSTER | VI |
| 63 | Role of sustainable development in agriculture in india                                      | Ritu tomar & Shubhangi Bhandari                     | School of Engineering and Technology, Jaipur National University | ORAL   | V  |
| 64 | LUBRICANTS   | Darshan Verma , Mohammad Umar Salim , Sanjana Meena | SKIT, JAIPUR   | POSTER | VI |
| 65 | Comparative Study Of The Kevlar-29 And E-Glass(On The Basis Of High Velocity Impact Testing) | Suvigya Katiyar, Pankaj Kumar, Rahul Jangid         | Department Of Mechanical Engineering,, SKIT, Jaipur              | ORAL   | V  |
| 66 | Sustainable agriculture  | Nitika Shukla & Shelja K. Junuja                    | Dept of Environmental Science, The IIS University, Jaipur        | POSTER | VI |
| 67 | Fluorosis  | Neha Goyal  | Agrasen Mahila Mahavidyalaya, Kherli (Alwar)                     | POSTER | VI |

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## Glimpses











## PANNEL DISCUSSION



## एसकेआईटी में नेशनल कॉन्फ्रेंस का आगाज



**जयपुर (मोन्सू)।** मैनेजमेंट एवं ग्रामोत्थान (एसकेआईटी), जगतपुरा में शुक्रवार को दो दिवसीय डीएसटी स्पॉन्सर्ड नेशनल कॉन्फ्रेंस जिसका विषय सस्टेनिबल इंजिनियरिंग एप्लिकेशन ऑफ मेटेरियल साइंस एण्ड फिजीको कैमिकल इनोवेशन का उद्घाटन समारोह हुआ। संस्था के डायरेक्टर जयपाल मील, डायरेक्टर एकेडमिक्स प्रो. एस.एल. सुराना, डायरेक्टर (डवलपमेन्ट एण्ड वेलफेयर) डॉ. एस.के. कल्ला, रजिस्ट्रार रचना मील, प्रिंसीपल डॉ. रमेश कुमार पचार, एवम कॉन्फ्रेंस की कन्वीनर डॉ. शारदा ने दीप प्रज्वलन कर कॉन्फ्रेंस की शुरुआत की। प्रथम सेशन में मुख्य वक्ता यतेन्द्र सूरी, कन्ट्री हेड, ऑटोकुम्पु

इण्डिया प्राइवेट लिमिटेड ने स्टेनलेस स्टील से जुड़े तमाम तथ्यों को छात्रों के सामने रखा। प्रो. पी.के. खन्ना चीफ साइंटिस्ट सीरी पिलानी, ने स्मार्ट मेटेरियल के बारे बताया और वास्तविक जीवन के उदाहरणों के साथ उनकी व्याख्या की। द्वितीय सेशन में प्रो. सतीश अवस्थी, दिल्ली विश्वविद्यालय ने भारत में मलेरिया की स्थिति को छात्रों के सामने रखा व उस दिशा में अपने रिसर्च और उससे जुड़े अनुभवों को बांटा।

प्रेसिडेंट विवेकानन्द ग्लोबल यूनिवर्सिटी प्रो.वाई के विजय ने छात्रों को सम्बोधित करते हुये उन्हें अपने आस पास की चीजों से सीखते हुये नई चीजों का आविष्कार करने हेतु प्रोत्साहित किया।

## दो दिवसीय डीएसटी स्पॉन्सर्ड नेशनल कॉन्फ्रेंस शुरू

**जयपुर (कासं)।** एसकेआईटी में शुक्रवार को दो दिवसीय डीएसटी स्पॉन्सर्ड नेशनल कॉन्फ्रेंस, जिसका विषय सस्टेनिबल इंजिनियरिंग एप्लिकेशन ऑफ मेटेरियल साइंस एण्ड फिजीको कैमिकल इनोवेशन का उद्घाटन समारोह हुआ। कॉन्फ्रेंस की शुरुआत संस्था के डायरेक्टर जयपाल मील, डायरेक्टर एकेडमिक्स प्रो. एस. एल. सुराना, डायरेक्टर (डवलपमेन्ट एण्ड वेलफेयर) डॉ. एस.के. कल्ला, रजिस्ट्रार रचना मील, प्रिंसीपल डॉ. रमेश कुमार पचार, एवम कॉन्फ्रेंस की कन्वीनर डॉ. शारदा ने दीप प्रज्वलन करके की। इस कॉन्फ्रेंस के प्रथम सेशन में मुख्य वक्ता यतेन्द्र सूरी, कन्ट्री हेड, ऑटोकुम्पु इण्डिया प्राइवेट लिमिटेड ने स्टेनलेस स्टील से जुड़े तमाम तथ्यों को छात्रों के सामने रखा और उनकी कम्पनी के इस दिशा में बढ़ते कदमों के बारे में विस्तार से बताया। द्वितीय सेशन में प्रो. सतीश अवस्थी, दिल्ली विवि ने भारत में मलेरिया की स्थिति को छात्रों के सामने रखा व उस दिशा में अपने रिसर्च और उससे जुड़े अनुभवों को बांटा। प्रेसिडेंट विवेकानन्द ग्लोबल यूनिवर्सिटी प्रो. वाई के विजय ने छात्रों को सम्बोधित करते हुए उन्हें अपने आसपास की चीजों से सीखते हुए नई चीजों का आविष्कार करने हेतु प्रोत्साहित किया। रसायन शास्त्र विभाग की विभागाध्यक्षा डॉ. अर्चना सक्सेना ने बताया कि कॉन्फ्रेंस में देश भर के विभिन्न विवि 100 से अधिक रिसर्च पेपर प्रस्तुत किए जाएंगे।



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*We are confident that the outcome of the conference will build the bridge between the present challenges and their solution in varied fields and will open the opportunities for collaborative research.*

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