Director’s Message

The year draws to a close and it is time now to look back upon the events that shaped the destiny of the Institute. It has been a year of intense activity in all spheres: academic, cultural, sports and co-curricular. The Golden Jubilee Year Celebrations that began in September last year and ended in August this year transformed the campus into a hub of intellectual conglomeration. Many illustrious dignitaries graced our portals which included former President of India, Shri Abdul Kalam ji, Shri Pranab Mukherji, President of India, Shri Kapil Sibal, Minister of Communications and Information Technology, Dr. Farooq Abdullah, Minister for New and Renewable Energy, Government of India, Mrs. Margaret Alva, Honourable Governor of Rajasthan and Shri Ashok Gehlot, former Chief Minister of Rajasthan. The year also heralded major additions to the infrastructure of the Institute which include setting up of Centre of Excellence and the Center for Materials Research, equipped with state-of-the-art equipment providing global standards for advanced research and developmental activities, upgradation of the existing and setting up of new laboratories, a new Convention centre and lecture hall complex, hostels for boys and girls and many more. Many new R & D projects too were granted to the Institute, and significant collaborations made with institutes of renown, which reflects the respect this Institute commands in terms of its research capability. Our dear students too have brought us prestige by their achievements in various spheres, be it sports, academic or cultural. In this quarter also, the various conferences and workshops conducted included those on applications of nanotechnology, behaviour of materials, and other such relevant areas.

The MNIT Newsletter has recorded these milestones with diligence and as it enters its third year, I am confident it will continue to reflect the accomplishments of this Institute. I wish you all a very successful year ahead.

Jai Hind

Prof. I. K. Bhat
Workshops/Conferences/Short-Term Courses/Training Programmes Conducted

The Entrepreneurship Development Cell conducted an Entrepreneurship Orientation Programme for first and second year students on September 18, 2013. Mr. Rajeev Surana, Managing Director- Gravita India Ltd was the Chief Guest along with Ms. Srishti Sharma, founder of Mommyz kitchen.

A quiz competition for the audience was also organized on this occasion.

The Industry-Institute Partnership Cell organised a five-day Technical Induction Programme for the engineers of Bosch Ltd. from September 30 - October 5, 2013. The course was attended by fifteen participants.

The programme was coordinated by Dr. Awadhesh Bhardwaj, Dr. Amit Singh and Mr. M.L. Meena.

A three-day refresher course was organised by the Department of Metallurgical and Materials Engineering on “Characterisation & Deformation Behaviour of Materials for Strategic Application” from October 3 – 5, 2013 for faculty members, research scholars, M.Tech, and B.Tech students under TEQIP-II program. Total participants were 63. Dr. Manojit Ghosh from BESU, Kolkata delivered a talk on “Work Hardening of Aluminium Alloys” and “Anisotropy studies for Aluminium Alloys”. The Convener of the refresher course was Dr. R K Duchaniya.

A Short-Term Course on Nanotechnology and its Application was organised by the Department of Metallurgical and Materials Engineering from October 7-11, 2013. The Coordinators were Prof. Upender Pandel, Dr. R. K. Duchaniya and Dr. Madhu Agarwal.

A Faculty Development program (FDP) on “Demystifying Derivatives” was organized by the Department of Management Studies from October 7-11, 2013. A total of twenty nine participants attended the FDP.

The inaugural ceremony was graced by the presence of the Chief Guest, Prof. K.K. Aggarwal (Chairman, BOG, MNIT) Guest of Honour Prof. Prabina Rajib (Professor, VGSOM IIT-KGP) along with Dr. G.S. Dhangayach (Head, DMS) and, Dr. Satish Kumar (FDP coordinator). Prof. Prabina Rajib (VGSOM IIT-KGP), Dr. Gourishankar (IIT-KGP), Dr. Vinodh Madhavan (IIM-Lucknow), Dr. Roopam Kothari (IIS University, Jaipur), Dr. Pankaj Kumar (IIT-KGP), Dr. Anand (IIM-Ranchi), Dr. Bipul Kumar Singh (IMT, Nagpur) and Dr. Manoj Kumar (IIM-Rohtak) delivered the course content during the program.

Department of Civil Engineering organized the 5th Asia and Pacific Young Researchers and Graduates Symposium (YRGS) on October 15-16, 2013. The Coordinator was Dr. Sandeep Choudhary.
Department of Physics organized an International School on Ion Beam in Material Science and International Conference on Nano-structuring by Ion Beams (ICNIB 2013) jointly with University of Rajasthan Jaipur and Inter University Accelerator Center New Delhi from October 21-25, 2013. More than 150 participants from different institutes of India as well as abroad participated in this event.


A two-day workshop on “Etiquette and Skill Development for Interviews” was conducted by Placement and Training Cell, MNIT, Jaipur from October 26-27, 2013.

More than one hundred and seventy students participated in the programme.

The inaugural ceremony was graced by Mr. Rajat Agarwal, Managing Director, Gravita India Limited as the Chief Guest, Mr. Shoumendra Roy, Group Vice President, Head Talent Acquisition Manufacturing, Reliance Industries Limited. The trainers included Dr. Sangeeta Sharma, Associate Professor, BITS, Pilani and Dr. Gursimran Duggal, Director, GSD Consulting Services Limited, Jaipur. The Coordinators of the conference were Dr. Monica Sharma and Dr. Amit Kumar Singh.

Department of Metallurgical and Materials Engineering organised a one-day workshop on “Prospects of Engineering Students in Automobile sector and Expectations of Industry from Students” on November 9, 2013 under TEQIP Phase-II. The Conveners were Prof. Ashok Sharma and Prof. Upender Pandel.

A two-day workshop on “Vision and contribution of Mahamana Pt. Madan Mohan Malaviya” held on August 07-08, 2013. The Speakers on the occasion were Prof. P.C. Dandia, Dr. S. V. Mazumdar, Dr. S. S. Chaddha, Dr. R. S. Sharma, Dr. Chandra mani Singh, Dr. Ajay Kumar Sharma, Dr. A. K. Singh, Sh.V.K. Sharma, Mr. B. L. Vaidya, Mr. EVD Shashtri. The Convenor of the workshop was Dr. Jyoti Joshi.

A Research project on “Politics of Alienation and Secessionism in North-Eastern India”, funded by ICSSR New Delhi for Rs. four lakhs has been sanctioned to Dr. Vibhuti Singh Shekhawat of Department of Humanities and Social Sciences, for a duration of 18 months.

A Research project on “Strategically development of metalsilylene complexes; Potential catalyst for unique organic transformations and silylene transfer reactions” has been sponsored to Department of Chemistry by Council of Scientific and Industrial
sanctioned amount Rs.31,50,400/- for three years. Dr. Raj Kumar Joshi, Department of Chemistry is the Principal Investigator.

- A Research Project on “Tailoring the structural, electrical and optical properties of Ag-ZnO and Ag-TiO2 nanocomposite thin films for various application using energetic ions” has been sanctioned to Department of Physics by IUAC/UGC New Delhi, sanctioned amount Rs.6,51,000/- for three years, Dr. Rahul Singhal is Principal Investigator.

- A Research Project on “Development of MoSi2 Heating Elements” has been sanctioned to Department of Metallurgical and Materials Engineering, funded by Naskar and Company, Howrah, W.B. for the period of two years, sanctioned amount Rs.17,50,000/-. Prof. Upender Pandel is Principal Investigator along with Prof. M.K. Banerjee, Prof. A.K. Bhargava, Dr. V.K. Sharma Dr.Vinod Kr as Co-Investigators.

- Dr. Amit Kumar Singh of Mechanical Engineering Department has been sanctioned a project on “Effective Product Development through Integration of Reverse Engineering and rapid Prototyping” by the Science and Engineering Research Board, for three years, sanctioned amount Rs. 24,44,000/-. A Research Project on “Development of Novel Artificial Naked Eye Fluoride ion Receptors” has given to Department of Chemistry, by the DST, WTI. The duration of the Project is three years and the amount sanctioned is Rs.29,77,200/-. Dr.Ragini Gupta is Principal Investigator along with Dr. Madhu Agraval as Co-Investigator.

- A Research Project on “Strengthening of Research and Teaching Facilities in the Department (FIST)” has been sanctioned to Department of Civil, sponsored by DST. The project for five years and amount sanctioned Rs.67,000,00/-. Dr. Mahesh Kumar Jat is Principal Investigator along with Dr.Urmila Brighu as Co-Investigator.

- A large number of equipment procured in Phase I was installed & commissioned at the Materials Research Center. These include Transmission Electron Microscope, FE-Scanning Electron Microscope, SPM, Vacuum Coating Unit, CVD, DMA & Spectrophotometers. Chairman, BOG, Dr.K. K.Agrawal visited the Centre and inspected the state of art equipment placed in different labs.

Distinguished Visitors/Expert Lectures in the Departments

- Materials Research Center (MRC) organized an invited lecture by Dr. Shahzada Ahmad, Senior Research Scientist, Abengoa Research, Campus Palmas Altas, Seville, Spain on “Energy Conversion in Mesoscopic systems” on
October 30, 2013.
Dr. Ahmad discussed the present research scenario in development of solar cell batteries and their application in various social and commercial purposes.

- **Department of Civil Engineering** organized an invited lecture on October 31, 2013. The speaker was Dr. Kailash Gupta (Disaster Management Specialist) on "Pressure Release Model for Disaster Management".
- A lecture-cum-demonstration on Indian culture/ classical music/dance was organized on November 17, 2013 under the SPIC MACAY of the Creative Arts & Cultural Society. More than 160 students of MNIT participated in it.

Mr. Rachit Agarwal, Volunteer SPIC MACAY JAIPUR

**Visit/Expert Lectures Delivered by Institute Faculty**

- Dr. Sandeep Shrivastava of the Department of Civil Engineering was invited to deliver an expert lecture in CII (Confederation of Indian Industry) seminar on October 04, 2013 on the topic "Emerging Trends in Construction".
- Dr. Harlal Singh Mali was elected Member of Academic Council of 3D Student Design. 3D Student Design Competition, earlier CAD for the Mechanical Design 3D Student Design Challenge 2013 was held on October 24, 2013 at IC&SR building of IIT Madras.
- An Invited Lecture on 'Professional, Ethics and Values' by Dr. L.K. Kothari was organised for the students of the Institute on September 30, 2013, by Department of Humanities and Social Sciences. Dr. Kothari, in his address enlightened the audience about the role of ethics in everyday life. He also focused on the ethical choices which should be made and the moral duties that should be performed by individuals to ensure a healthy, happy and stress-free life.

An Invited Lecture on “Attitude, Time Management and Consistency” by Ms Harsha Rohit, CEO, HR, Trikaya, Jaipur, was organized for the students of the Institute by the...
Department of Humanities and Social Sciences, on November 18, 2013.

**A lecture on “Assessment and Grading”** was delivered by Director, Prof. I.K. Bhat, on November 19, 2013, especially for the benefit of new faculty members. Prof. Bhat in his talk explained the concept of evaluating and grading and reiterated that the primary duty of all faculty members was to ensure that classes were held regularly and that they remained up-to-date both in their method of teaching and the content.

**Students Achievements**

- The BOSM’13 sports tournament took place from September 18-22, 2013 in BITS, Pilani, Rajasthan.
- MNIT created history in the medal tally of achieving 41 medals (09-Gold, 19-Silver & 13-Bronze) and also stood second in overall position in the BOSM’13 meet.

After Team Ashwa the Team “Dazzles” keeps the Flag of MNIT Jaipur high at SAE Efficycle 2013. SAE Efficycle is an intercollegiate design & fabrication competition for under-graduate and graduate students where teams have to design and fabricate an energy efficient human powered vehicle. Team DAZZLES under the mentorship of Dr. Harlal Singh Mali successfully cleared the virtual simulation round of SAE Efficycle and competed the main event at Chandigarh in October 2013.

A total of 10 engineering students, 9 from Mechanical Engineering and one from ECE after 3 months of hard work fabricated the vehicle. The vehicle had many innovations on go-green, low cost etc.

The team was financially supported through TEQIP Phase-II project. For innovatively using Autodesk Inventor(R) in CAD and CAE application the team got appreciation from Autodesk(R) India and the case study will find place in Autodesk University.

**Extension India 2013 Summit** being held in Mumbai on 19 Dec 2013.

- मलवीय राष्ट्रीय प्रदूषणिकी संस्थान जयपुर में दिनांक 11-9-2013 से 25-9-2013 के मध्य दिनांक प publishes 2013 का आयोजन किया गया। प्रख्यात का उद्घाटन दिनांक 11-9-2013 को किया गया। इस अवसर पर कार्यक्रम के मुख्य अधिकारी प्रधानमंत्री की आशिकी सलाहकार परिषद के सदस्य एवं राजस्थान आयोजन सभ्यों, जयपुर के उपाध्यक्ष मशीन विज्ञान विभाग के पूर्व अध्यक्ष ने कहा है कि प्रो. यास सारी कार्यक्रम के विशेष अतिथि इन्स्ट्रूमेंट ऑफ इंजीनियरिंग राजस्थान राज्य के राज्य के अध्यक्ष एवं राजस्थान राज्य विद्युत उद्योग निगम लिए के पूर्व अध्यक्ष बाबू गुरील कुमार कला के।

हिंदी प्रकाशक 2013 के दौरान हिंदी के संबंधित 6 प्रदूषणिकी का आयोजन किया गया। प्रकाशक के दौरान, हिंदी वाद-विवाद, विषयक एवं मालिक हिंदी प्रभाशिप-लेखक, आयुर्व्यक्ता हिंदी के निर्णय लेखन एवं जानकारी प्रदान आयोजित की गई। इन प्रदूषणिकी के संरचना के 17 प्रकार के 37 हिंदी प्रकाशक 2013 का मुख्य विशेषता यह था कि इस में एक दो दिवसीय हिंदी तकनीकी पत्र प्रस्तुतिकरण संगीत ठहरी का आयोजन
October 21, 2013. The programme was aired on NDTV 24X7 and NDTV India and has been uploaded on the NDTV website.

A three-day Vocal Music Workshop by renowned classical singer Shri Gautam Kale from Indore was organized by the Music Society under the auspices of the Creative Arts and Culture Society (CACS) from October 25 to 27, 2013.

A group of students of classes VI to IX from Jammu and Kashmir visited the Institute on September 16, 2013 under Operation Sadbhawana of the Indian Army. This visit was organized with the objective of motivating students from remote schools in rural areas to pursue higher education in technical institutes after they complete their schooling. The students were accompanied by two teachers and a Major from the army.

Prof. I.K. Bhat, Director MNIT, addressed the students and explained to them the need for goals in life and the dedication and perseverance required in order to achieve these goals. Major Pankaj Pathak presented a memento on behalf of the group to Prof. Bhat at the end of his address.

On the evening of November 18, 2013, a voting awareness program was organized by Volunteer 4 Better India (Sister NGO of Art of Living) in association with Rajasthan Patrika. The objective of the program was to enlighten students about their voting rights, the reason why should they vote, and the importance of their vote.
Snippets

Born in this quarter, these scientists & inventors made significant contributions:

- 1848 Lewis H Latimer, an American inventor who drafted the patent drawings for Alexander Graham Bell’s patent application for the telephone, worked for Thomas Edison, and invented an electric lamp.
- 1887 Leopold Ruzicka, contributed studies of natural substances and invented many of the scents for various perfumes. Nobel Prize 1939.
- 1887 Karl Taylor Compton, an American physicist and atomic bomb scientist.
- 1869 Mohandas Karamchand Gandhi, Indian anthropologist, the preeminent leader of Indian nationalism who employed nonviolent civil disobedience and led India to independence.
- 1893 Albert Szent-Györgyi, a Hungarian physiologist who discovered vitamin C and the components and reactions of the citric acid cycle. Nobel Prize 1937.
- 1842 James Dewar, British chemist and physicist who invented the Thermos in 1892.
- 1915 John Sheehan, invented a method for the synthesis of penicillin.
- 1725 Nicolas Joseph Cugnot, invented the first automobile.
- 1907 Lord Todd, Scottish biochemist who investigated the building blocks of heredity. Nobel Prize 1957
- 1864 Louis Lumiere, made the first motion picture in 1895, and invented camera equipment for making, and a projector for viewing movies.

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Note: The information published has been received from the respective departments / sections / faculty.