

MNIT NEWSLETTER

Issue 8, September 2013



MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

MNIT NEWS



Director's Message

This quarter signalled the end of the Golden Jubilee Year that had begun on September 1, 2012, a year that fulfilled the promises made that day. I have expressed elsewhere too my heartfelt happiness in witnessing the levels this Institute rose to as its faculty, staff, students and alumni left no stone unturned in making the year one of intense academic as well as non-academic activities.

The past three months too were dominated by conferences, workshops, special lectures and expert talks on a wide range of topics such as recent advances in VLSI design, geotechnical engineering, frontier materials etc. A memorable event of the quarter was the Closing Ceremony of the Golden Jubilee Year Celebrations on August 22, 2013 which was graced by the presence of Dr. Farooq Abdullah, Hon'ble Minister for New and Renewable Energy, Government of India, as the Chief Guest. Earlier during the day, Dr. Abdullah inaugurated the Photography Exhibition that showcased the accomplishments of the Institute, and then the Solar Steam Cooking System at the Girls' Hostel. He then, with his characteristic warmth, charmed his way into the hearts of all present with his sincere speech and later set the stage on fire with his impromptu performance. I am sure that these moments will forever be etched in our memories.

Winston Churchill once remarked, '.. this is not the end. It is not even the beginning of the end. But it is, perhaps, the end of the beginning.' The dynamism of the year gone by has certainly set the tone for the future of the Institute and the wheels of progress are in motion. MNIT Jaipur seems to have come of age and there can now be no looking back.

Jai Hind

Prof. I. K. Bhat



Vision

To create a center for imparting technical education of international standards and conducting research at the cutting edge of technology to meet the current and future challenges of technological development.

Mission

To create technical manpower for meeting the current and future demands of industry; To reorganize education and research in close interaction with industry with emphasis on the development of leadership qualities in the young men and women entering the portals of the Institute with sensitivity to social development and eye for opportunities for growth in the international perspective.

Workshops/Conferences/Short-Term Courses/Training Programmes Conducted

❖ A Short-Term Training Programme (TEQIP sponsored) on "Introduction to Finite Element Method (FEM) with Hands on Altair Hyperworks" was organized by the **Department of Mechanical Engineering** from June 3 - 7, 2013. A total of forty eight participants attended the course.

The Chief Guest for the programme was Prof. I.K. Bhat, Director, MNIT Jaipur. Dr. Indra Vir Singh (IIT, Roorkee), Dr. Akhilendra Singh (IIT, Patna), Mr Divya Prakash from Design Tech, delivered the expert lectures during the training programme.



Participants with the distinguished guests and the experts

❖ **Department of Civil Engineering** organized a three day training programme on "Construction Management of Civil Works and Contract Management" **Technical Orientation Programme for RUIDP Engineers (Govt. of Rajasthan)** during 8 – 10 June 2013. Course Coordinators were Dr. Mahesh K. Jat and Dr.

Sandeep Shrivastava.

❖ A Staff Development



Dr. Dinesh welcoming the Guests.

Program on 'Emerging Technologies for Power Systems Operations & Energy Management' was organised by the **Department of Electrical Engineering** from June 17-23, 2013 which was attended by 65 participants from different parts of India and from Malaysia.

The course was partially self-sponsored and partially funded by TEQIP. Prof. K. R. Niazi was the



Principal Coordinator and Dr. Nikhil Gupta & Dr. Anil Swarnkar were Course Coordinators. The speakers included Prof. D. Tukaram (IISc, Bangalore), Prof.

S. L. Surana (Former Prof. MBM Engg. College, Jodhpur), Er. B. N. Saini (Director, RVPNL), Dr. Naran M. Pindoriya (IIT, Gandhinagar), Prof. R. K. Nema (MANIT, Bhopal), Er. Santosh Saware (+500kV HVDC Terminal Station, Maharashtra), Er. ViaksAsawat (Patent & Trade Mark Attorney) and faculty members of the Department. **Department of Electronics and Communication Engineering** recently organized a Short-Term Course on "Recent Trends in Communications & Signal Processing, from July 1 - 5 ,



2013. The course covered emerging techniques in the field of signal processing and communication to ensure sustainable development of manpower in this evolving field. The STC was attended by 35 participants from various institutions and universities across the nation apart from the students and faculty members of MNIT Jaipur.

The STC was inaugurated by Prof. S.D. Joshi, IIT Delhi, who also delivered the keynote address in the inaugural session.



Many eminent experts such as Prof. Jitendra Behari, JNU, Prof. R. Tomar, LNMIIT Jaipur, Prof. Rajeev Kapoor, Delhi Technical University, New Delhi, Dr. Rakesh Singhai, RGPV Bhopal also visited MNIT to deliver lectures on topics related to signal processing and communications during the course of the programme.

Department of Electronics and Communication Engineering of successfully organized the National Conference on **"Communication Systems and VLSI Design"** during July 24 -25, 2013 at MNIT Jaipur. Shri Sanjay Kumar, General Manager, BSNL



Jaipur, also the Hon. Chairman IETE Rajasthan Centre, was the Chief Guest for the event. Guests of Honour on the occasion were Prof. V. Sinha, Professor (Emeritus), Department of ECE, MNIT Jaipur and Prof. B. P. Singh, Professor (Retd.), Madan Mohan Malaviya Engineering College Gorakhpur. Dr. Vineet Sahula, Head of the Department of Electronics and

Communication Engineering was the organizing Co-chairman of the conference. The inaugural session was concluded by Dr. Ghanshyam Singh, Convener of the conference.

❖ **Department of Civil Engineering** organized a three-day training programme on **"Sustainability of Urban Infrastructure & Quality Assurance in Construction"** **Technical Orientation Programme for RUIDP Engineers (Govt. of Rajasthan)** from July 5-7, 2013. Course Coordinators were Dr. Mahesh K. Jat and Dr. Mahender Choudhary.

❖ **Department of Civil Engineering** organized a three-day training-cum-orientation programme for newly recruited PWD Engineers (Govt. of Rajasthan) from July 11-13, 2013. Course Coordinators were Dr. Mahesh K. Jat, Dr. Mahender Choudhary, Dr. Pawan Kalla, Dr. Sanjay Mathur and Prof. B. L. Swami.

❖ **Department of Computer Engineering** organized the 17th International Symposium on VLSI Design and Test from July 27-30, 2013. This premier event which came for the first time in Rajasthan showed state-of-the-art microelectronics technology. The Symposium was inaugurated on July 29, 2013 by Chief Guest Prof. KS Dasgupta, Director Indian Space Science and Technology, Trivandrum, Kerala. The Guest of Honour at the function was Prof. Sandeep Sancheti, President of Manipal University



and Prof. Narendra Ahuja, University of Illinois, USA and Prof. MC Govil, Head of Computer Engineering Department, MNIT Jaipur were special guests.

❖ A two day Workshop on Personality Development was organised by the Department of Humanities and Social Sciences for the students of MNIT. Ninety Five students from various branches of B.Tech III, V, VII Semester; B. Arch.; MBA; M.Tech.; M.Sc. and PhD scholars participated in the Workshop and got an opportunity



to enhance skills framing their personality. The Workshop was inaugurated by Prof. I. K. Bhat, Director MNIT and was coordinated by Ms. Nanny Tripathi and Dr. Dipti Sharma. Experts from different streams gave valuable inputs in various sessions namely, Personal and Professional Excellence: A Seven Step Strategy to Meaningful Success by Dr. Satish K. Batra; Rainbow personality by Prof. Ramesh Arora; Know Yourself by Prof. Asha

Hingar; Creativity by Prof. N.D. Mathur; Communication skills by Dr. Meena Sogani and Time Management by Prof. Anil Mehta.

❖ A two day national workshop on "Recent Advances



In Geotechnical Engineering For infrastructure Development" was held from August 12-13, 2013. The speakers in the workshop were eminent Professors: Prof. D. N. Singh, IIT Bombay, Prof. Yudhbir, Former Prof. , IIT Kanpur, Prof. M.R. Madhav, Former Prof.& Head, IIT Kanpur, and Prof.N.K. Samadhiya, IIT Roorkee, Prof.P.K.Jain, MANIT Bhopal, Dr.S.K.Tiwari, Asso. Prof. MNIT Jaipur.

"Vision and Contribution of Mahamana Pt. Madan Mohan Malaviya" was held on August 7-8, 2013 in the Mini Auditorium, Design Center of the Institute under the Golden Jubilee Celebration.

The workshop focused to make the people aware of the greatness of this great man and emphasised to revive the spirits, and values for which Malaviya lived his life.

❖ **Entrepreneurship**



Headstart organized a meet of entrepreneurs and students on August 10, 2013. The Objective of the meet was to bring new generation entrepreneurs and students together and give them a platform to interact and discuss new age ventures. The event started with a common discussion on the slow pace of Startup Ecosystem in Jaipur. Followed by it were idea sharing sessions by large entrepreneurial ventures happening in the city.



❖ A two-day workshop on

Development Cell, MNIT Jaipur in collaboration with

❖ **Physics Department** organized a Short-Term Course on **"Frontier Materials"** on August 12, 2013. The key speaker of the event was Dr. K K Saini, Chief Scientist National Physical Laboratory New Delhi. His talk was on synthesis of TiO_2 thin films & their application in new & sustainable areas.

❖ **Department of Humanities & Social Sciences** organized a two-day **National Workshop on Modern Approaches to English Language Teaching** from

August 16-17, 2013 for faculty in English to keep pace with the latest developments in the techniques and resources for language teaching, and the changing needs of the learners, Language teachers need to update their knowledge and pedagogical skills periodically.

The workshop was coordinated by Dr Preeti Bhatt and Mrs Nanny Tripathi. The Chief Guest at the Inaugural Function was Dr Madhukar Gupta, Divisional Commissioner and the function was presided over by Prof. S.L. Soni, Chairman, Golden Jubilee Year Celebrations. More than 70 delegates from all over India participated in the Workshop.

Projects / Civil Works / Research Grant Received

❖ *Department of Electrical Engineering*, has been sanctioned a prestigious funding as a collaborator to a consortium research project, “High Energy and Power Density Solutions to Large Energy Deficits”, under joint support from Department of Science and Technology, New Delhi, and Research Councils, UK, in the area of Smart Energy Grid and Energy Storage. The Indian collaborating institutes are IIT Roorkee, IIT Delhi, IIT Kharagpur and MNIT Jaipur,

while the UK collaborating institutes are University of Bath, Durham University and Cardiff University. The project would operate from January 2014 to December 2016. The total budgetary support would be approximately Rs. 16.8 Crores.

Distinguished Visitors/Expert Lectures in the Departments

❖ *Department of Chemical Engineering* organized an invited lecture on August 6, 2013. The speaker was Dr. Ajay K. Dalai, Professor of Chemical Engineering and advisor to Vice-President, Research on Energy and Natural Resources and Canada Research Chair in Bio-Energy & Environmentally Friendly Chemical Processing at University of Saskatchewan, Canada. Prof. Dalai gave a talk on the topic “**Green Energy and its Future Prospects**” on August 6, 2013. The talk was well attended by the faculty and students. In his lecture, Prof. Dalai highlighted the various aspects associated with production of Biodiesel, Bioethanol from biomass/renewable sources and conversion of glycerol into useful products.

❖ An invited talk on “Gateway to Great Way” was delivered by Mr. Chakravarti Das from Vedic Oasis for Inspiration, Culture and

Education, Mumbai. It was organised by Creative Arts Society.

Visit/Expert Lectures Delivered by Institute Faculty

❖ Dr. Harlal Singh Mali, Assistant Professor in Mechanical Engineering, was invited to deliver an expert lecture by PEC University of Technology, Chandigarh in their STTP on “Advanced & Micro-manufacturing” from June 3-7, 2013. His lecture on June 5, 2013 on the topic “Micro & Nano Finishing by AFM Process” was well received by the participants. He was also invited to deliver an expert lecture by SVNIT, Surat in their STTP on “Advances in Composite Material” from June 24-28, 2013. His lecture on June 26 on the topic “Research on Mechanical Behaviour of



Dr. Mali Delivering the Presentation

Carbon Woven Fabric Reinforced Composites” was

well received by the participants.

❖ Dr. Harlal Singh Mali, Assistant Professor in **Mechanical Engineering Department** was invited as a member of the six member Indian delegation from July 22-26, 2013 to visit Idaho State



Handing over of MOU

University, Pocatello. His visit was carried out with travel support from TEQIP Phase-II project. The six-day visit was highly successful and based on that an MOU was signed between ISU and MNIT. The highlights of the visit were -

- (a) Welcome and interaction with the Mayors of Pocatello and Chebak, Cities.
- (b) Tour to Stephens Centre: Campus Recreation cum training Center and Holt Arena: Campus sports and training center, Rendezvous: Campus cultural cum training, Shark Exhibit: Museum cum educational center all catering also to the city and communities needs along with academic activities.

© Meeting with Deans of College of Science & Engineering, College of

Technology, College of Business and College of Psychology.

(d) Extension meeting with department Heads and faculty of Mechanical and Nuclear Engineering.

(e) Visit to laboratories especially, radiation center, automation and control center, CNC machines lab, welding technologies lab etc.

(f) Breakfast with ISU President and Provost and MOU signature and handing over.

(g) Visit to Twins Fall & Idaho falls and CAES laboratories.

(h) Visit to BYU (Brigham Young University) and interaction with Dean Student Welfare.

(g) Visit to Fort Hall (Community College) of Shoshone Bannock Native American Indian Tribe

Students' Achievements

Total Three teams from MNIT Jaipur, consisting of 2nd and 3rd year students under guidance of Dr. Harlal Singh Mali and Dr. Amit Singh participated in SAE Efficycle Virtual Simulation Round held at Amrutvahini College of Engineering, Sangamner, Maharashtra & presented their projects in front of the renowned jury from industries.

Those who know, do. Those that understand, teach.

— Aristotle

You cannot teach a man anything, you can only help him find it within himself.

— Galileo Galilei

Live as if you were to die tomorrow. Learn as if you were to live forever.

— Mahatma Gandhi

Opportunity dances with those already on the dance floor. -H. Jackson Brown, Jr.

Any fool can know. The point is to understand.

— Albert Einstein

Self-education is, I firmly believe, the only kind of education there is.

— Isaac Asimov

No grand idea was ever born in a conference, but a lot of foolish ideas have died there. —F. Scott Fitzgerald



Glimpses of Closing Day of
Golden Jubilee Year Celebrations
with Chief Guest Hon'ble Dr. Farooq Abdullah



Being welcomed by Director



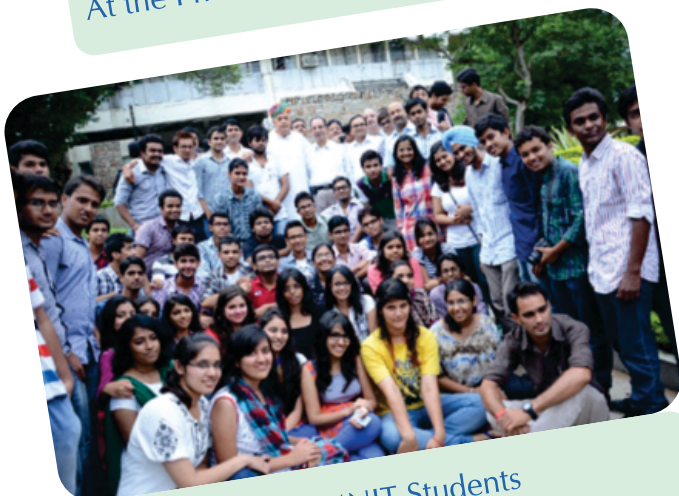
Dr. Farooq Abdullah on the campus



At the Photography Exhibition with Director



Photography Exhibition



With MNIT Students



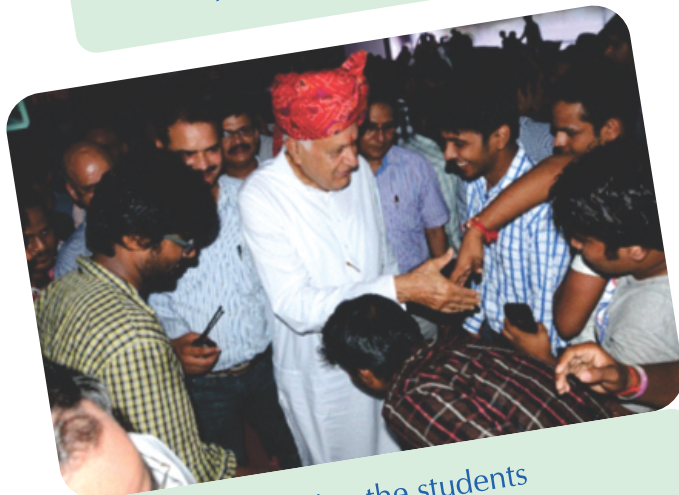
At the Girls' Hostel



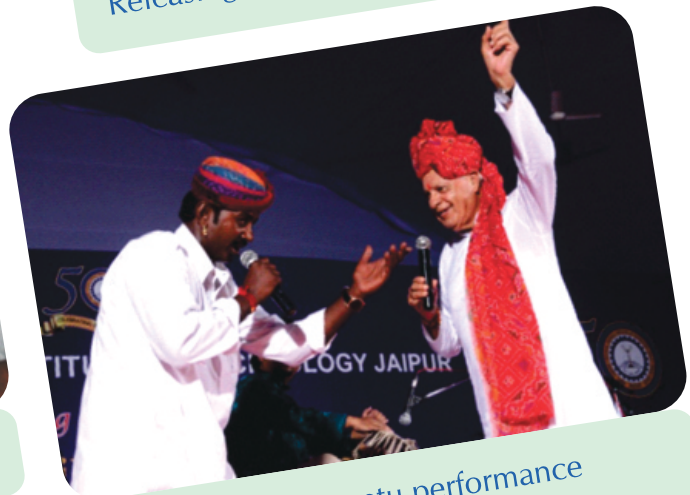
At the Closing Ceremony



Releasing the Golden Jubilee Year Report



Greeting the students



The impromptu performance

Snippets

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

- 1620 Jean Picard, French astronomer who first accurately measured the length of a degree of a meridian (longitude line) and from that computed the size of the Earth
- 1923 Rudolph Marcus, Canadian chemist who formulated the Marcus theory, the theory of electron-transfer reactions in chemical systems, Nobel Prize 1992
- 1822 Gregor Mendel, geneticist who discovered the laws of heredity
- 1887 Gustav Hertz, German quantum physicist who experimented on inelastic electron collisions in gases known as the Franck-Hertz experiments, Nobel Prize 1925
- 1875 Carl Jung, Swiss psychologist who invented analytical psychology known as Jungian psychology
- 1907 Earl Silas Tupper invented Tupperware
- 1863 Henry Ford, American auto maker, who invented the Model T Ford
- 1918 Paul D. Boyer, American biochemist, Nobel Prize 1997
- 1861 William Bateson, a famous English biologist who invented the term "genetics"
- 1901 Ernest Lawrence, a famous scientist and inventor who invented the Cyclotron and won the Nobel Prize in 1939
- 1902 Paul Dirac was a famous English physicist who invented quantum mechanics and won the Nobel Prize in 1933

Editorial Team -

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