

Indian Engineering Congress 2007 and Congress Seminar Programme

Memorial Lectures, Key-note addresses and Technical Sessions

December 14, 2007, Friday

50 th Sir Visvesvaraya Memorial Lecture	12.00 noon to 1.00 p.m.	Dr. Anil Kakodkar	MLSU, Auditorium
Inauguration of Seminar and Session I	1.00 p.m. to 1.45 p.m.		MLSU, Auditorium
Key Note Address		Er. Sanjay Singhal	MLSU, Auditorium
Lunch	1.45 p.m. to 2.30 p.m.		
29 th Sir R.N. Mukherjee Memorial Lecture	2.30 p.m. to 3.30 p.m.	Er. G. Madhavan Nair	MLSU, Auditorium

December 15, 2007, Saturdays

Bio-Technology, Nano Technology and Innovative Techniques (BNI-1)

Session II Chairman : Dr. R. Mukhopadhyay Director (R& D) J.K. Tyres Ltd., Kankroli	10.0 a.m. to 11.15 a.m.	Co-Chairman: Dr. M.S. Shekhawat Professor, JNV University, Jodhpur	MLSU, Auditorium
Key Note Address		Dr. R.P. Singh	MLSU, Auditorium

- 1 An Overview –Understanding & application of Nanotechnology S.S. Shah
2. Process Development for Production of recombinant Dengue Virus Type 4 Envelope Domain III Protein Nagesh K. Tripathi, A Shrivastava, J.P. Babu and P.V.L. Rao
- 3 Semi Automatic Road Extraction using high resolution satellite imagery in urban areas M. Rajeswari, S.N. Omkar/Senthilnath J
- 4 Spectrum of Microwave Applications V. Mahadevan/ Dr. Shivanand Borkar
5. Metabolomics: Present Scenario and Challenges Sunil Kumar/N.K. Jain
- 6 Unique Applications of Microwave Assisted Processing V. Mahadevan
7. Integration of the laws of thermodynamics, the properties of DNA molecules, the primary instincts and the mechanism of natural selection. D.M.R. Sekhar

Tea Break 11.15 a.m. to
11.30 a.m.

16th Dr. A. Bhattacharya memorial 11.30 a.m. to
Lecture 12.30 noon **Rear** MLSU,
Admiral Auditorium
G.
Mahadevan

Bio-Technology, Nano Technology and Innovative Techniques (BNI-2)

Session III 12.30 noon to 1.45 Auditorium
Chairman: p.m. MLSU
Professor B.L. Choudhary
Former Vice Chancellor
MLSU, Udaipur
Co-Chairman
Prof. I.R. Trivedi
Director
Technical Education
Govt. of Rajasthan
Jodhpur

- 1 Water Cover Mapping using Active Contour model with satellite image S.N. Omkar/Senthilnath J
- 2 Microwave Thermal Analyzer V. Mahadevan
- 3 Studies on whole cell bio-catalyst for bio-diesel fuel production using Rhizopus delemar David K. Daniel /C Deepa
4. Bio-Chemical Conversion of Bio-mass-Challenges and Opportunities Nirmala Kaushik/
Soumitra Biswas
- 5 Stress Analysis in Flow formed Tubes by Fem Using Ansys 5.4 M. Srinivasulu, C.S.
Maneesh Rao/Dr. C.S.
Krishna Prasad Rao & Dr.
M. Komaralah
- 6 Optimization of Water Quantity for Diamond wire saw cutting in Dolomitic Marble Quarrying Operation S.C. Jain and S.S. Rathore

Water Management, Water Harvesting, Reclaiming of Waste water and its reuse, desalination of sea water (WRD-1)

Session IV 12.30 noon to 1.45 FMS
Chairman: p.m. Conference
Er. B.S. Ahuja Dr. Arjit De Hall 1
Chairman
Central Water Commission
New Delhi
Ministry of Water
Resources
Govt. of India, New
Delhi

- 1 Water Waste Prevention and Control S.D. Dave
- 2 Water Management Domestic wastewater-promising water resource Dr. A.K.A. Rathi
- 3 Overview of Waste Water Treatment in an Integrated Steel plant A. Trivedi, S.C. Jain
- 4 Integrated Water –Management-Shall it cope L.K. Bisoyi

- with water crises in 21st century ?
5. Crop water management through drip irrigation : A techno-economic for Sapota (Sapodilla plum) Vinay K. Pandey, H G Sharma and N. Agrawal

Communication Technology (CT 1)

Session V	12.30 noon to 1.45 p.m.	Chairman: Shri M.S. Mehta C.E.O. HZL, Udaipur	Co-Chairman Er. B.S. Karecha General Manager BSNL., Udaipur	FMS Conference Hall 2
1	Simulation and Analysis of Video Transmission over Diffserv IP Networks			Chih-Heng, Ke, Dhram Singh Jat, M.K. Jain
2	Active Queue Management in Diffserv Networks			Dharam Singh/Chih-Heng Ke, M.K. Jain
3	Radio Trunking system for Industrial Applications			R.K. Jha /K.K.Mallik /D.K. Saha/ GMD Murthy
4	Performance evolution in 3 rd generation WCDMA for high speed data and voice communication service			Anindya Ghosh
5	Routing and Security in Mobile Ad Hoc Networks			Sidhharth S. Rautaray
6	Implementation an On-Board SAR Compression System Based on Back-propagation Neural Network			K. Venugopal, Navneet Agrawal

Lunch Break 1.45 p.m. to 2.30 p.m.

33rd Bhaikaka Memorial Lecture 2.30 p.m. to 3.30 p.m. **Prof. M.M. Sharma** MLSU Auditorium

Tea Break 3.30 p.m. to 4.00 p.m.

India as a Manufacturing Hub, Manufacturing and Production trends (IMH)

Session VI	4.00 p.m. to 5.30 p.m.	Chairman: Er. K.K. Kaura, Chief Executive Officer, Vedanta Resources PLC, Vedanta	Co-Chairman Shri D.S. Babel Joint Managing Director,	MLSU Auditorium
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| 1. Efficiency improvement in Power Generation Industry by Application of Condition monitoring | L.N. Panda |
| 2. Upgradation of Lignite Mining Waste into Marketable Carbonaceous Fuel | P.K. Bhargava/AV Singh/K.L. Menaria |
| 3. Emerging Manufacturing Trends in India | Nathu Singh, P.K. Gupta, J.P. Bhami, M Chaturvedi |
| 4. Role of Tool Rooms in Socio-Economic Treatment of India | Murlidhar L. |
| 5. Detecting the Isomorphism, Inversions and Symmetry in 8 Bar Kinematic Chains using the concept of Moments” | S.C. Sarkar and A.K. Khare |

Water Management, Water Harvesting, Reclaiming of Waste water and its reuse, desalination of sea water (WRD-2)

Session VII	4.00 p.m. to 5.30 p.m.	FMS Conference Hall 1
Chairman: Prof. Damodar Sharma Vice Chancellor Rajasthan Technical Uni. Kota (Raj.)		Co-Chairman: Er. P.L. Roongta Retired Chief Engineer, Irrigation, Udaipur

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| 1. Management of Industrial Waste Water Recycle and Reuse. A case study of M/s Bajaj Auto Limited (Aurangabad Division) | Mr. R.S. Ekbote |
| 2. Maximizing Water Resources and Optimizing water use in a River Basin- Case Study : Tambraparani Basin in Tamil Nadu | A. Mohanakrishnan |
| 3. Recycling and reuse of waste water –A Zero liquid discharge concept of CCP of Nalco-a Case study | B.B. Nayak, S.C. Sadangi |
| 4. Water Management, Re-claiming of Waste Water and its reuse” | M. Ragunathan/K.Chakkaravarthy |
| 5. Subsurface Drip Irrigation-A water saving | Neelam Patel and T.B.S. Rajput |

- technology for water Scare areas
6. Rain Water Harvesting & Recharging Ground water B.N. Moolchandani

Communication Technology (CT-2)

Session VIII	4.00 p.m. to 5.30 p.m.	FMS Conference Hall 2
Chairman Prof. R.P. Dahiya Director Malaviya National Institute of Technology Jaipur (Raj.)	Co-Chairman Prof. K. Venugopal Director Information Technology, MLSU, Udaipur	

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| 1. Performance Analysis of Turbo Coded HSDPA Systems | Shailendra Mishra, Rajeev Tripathi, Nipur and S.C. Goel |
| 2. Link Level Performance of MIMO System | Rajeev Tripathi, Shailendra Mishra, Nipur and S.K. Jain |
| 3. Challenges in Retargetable Compiler Technology in ASIP Design | Veena Ramnani, M.K. Jain |
| 4. Managing Bandwidth-The User Based Approach | M.K. Jain/ Dharm Singh Jat |
| 5. The Role of e-education for effective communication | Shri P.G. Narasapur |
| 6. A critical evaluation of E-mitra project in Udaipur | Ashok Kumar Jetawat, N Bhatt |
| 7. Issues in Retarget able Simulator Techniques | Gajendra Kumar Ranka, M K Jain |

**Poster Sessions Time 10.00 a.m. to 11.15 a.m.
12.30 noon to 1.45 p.m
4.00 p.m . to 5.00 p.m.**

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| 1. Characterization of electronic properties of Wse ₂ using Compton spectroscopy | Gunjan Arora/Yamini Sharma, Gulzar Ahmed and B.L. Ahuja |
| 2. Disinfected Water-An Easy Approach | M.K. Varshaney |
| 3. Household water treatment using Sorptive sand filter | V.Meera/M. Mansoor Ahammed |
| 4. Innovative Tracks for Vehicle | Ensari Mohammed Shoeb |
| 5. Developed Potential of M. oleifera as Coagulant in Water Purification | Parag Sadgir |
| 6. Experimental Investigation of a single slope solar still with porous evaporating surfaces | R.S. Rathore |
| 7. Rain Water Harvesting and Ground water recharge | Vasant N. Desai |
| 8. Water Deman Analysis of Rugarail River Basin | Ajay Singh Jethoo |
| 9. Infrastructure related to growth; Is it Green Ahead ? | H.L. Deshpande |

- The Reality Check
10. Environmental auditing in India – current practices in Future trends M.A. Patel, M. Srinivas Rao, A.P. Deshmukh
 11. Amalgamation of BAQ and VQ for efficient SAR row data compression Venugopal, Navneet Agrawal
 12. Energy conservation analysis in Buildings by simulation techniques O.P. Jakhar, A.N. Mathur

Auditorium MLSU

December 16, 2007 Sunday

20th Dr. A.N. Khosala
Memorial Lecture

10.00 a.m. to 11.00 a.m. Prof. Han Min Koo
MLSU Auditorium

Tea 11.00 a.m. to 11.30 a.m.
Break

42nd Nidhi Bhushan
Memorial Lecture

11.30 a.m. to 12.30 noon Er. A.C. Wadhawan
MLSU Auditorium

Globalization, Liberalization and Technological Challenges (GLT)

Session IX 12.30 Noon to 1.45 p.m. MLSU Auditorium

Chairman	Co-Chairman
Er. B. Ramesh Kumar	Er. J. Shantaram
Former CMD	GGM
NMDC	RSMM Ltd.
Secunderabad	Udaipur

- 1 Imperatives of Globalisation & Liberalisation on Indian Aluminium Industry: Emerging issues & Opportunities. A.K. Satapathy & P..K. Panda
- 2 Managing R&D Innovations- an imperative for Growth Balbir Singh, A. Sinha, B. Rai, Jagdish Singh
- 3 Globalization : Challenges in Managing Business within an Outside Boundaries P.N. Shetty
4. Mobile Intelligent Robot Systems- Application Areas & challenges for the future Lata Gidwani/B.D. Gidwani
5. Technological Challenges: Advances in the port & Shipping Sector Commodore M.K. Banger VSM

Green Habitat, Environmental Hazards and Management (GEH)

Session X	12.30 noon to 1.45. p.m.	FMS Conference Hall 1
Chairman Prof. B.B. Dhar Former Director CMRI New Delhi		Co-Chairman Er. A.L. Thakor General Manager GMDC Ahmedabad
1 Green Habitat		Er. P. Balakrishnan Nair
2 Heavy Water Plant (Kota) – A Green Habitat		Shri D.C. Srivastava
3 Environment Management and its Mitigation		A.N. Bhadra/S. Podder
4 Mercury Emissions and Control		I.D. Mall
5. Catalytic Method for the Determination of Trace Amounts of Mercury (II) in Environmental samples		Neetu Bansal, Surendra Prasad and Matakite Maata
6. Home or House----- Save Energy		P.K. Chatruvedi, Surbhi Chatruvedi, Pratika Chatruvedi

Infrastructure related to Growth (IG)

Session XI	12.30 noon to 1.45 p.m.	FMS Conference Hall 2
Chairman Er. R.K. Bagrodia New Delhi		Co-Chairman Er. D.N. Abrol Executive Director (RM) Jindal Steel & Power Ltd. New Delhi
1 Role of Energy Conservation, Lighting Sector in Infrastructure Growth		I.P.S. Paul, Jaswinder Singh, Veerinder Kaur
2 The problems of Civil Constructions in Desert Area of Western Rajasthan		K.L. Menaria, Jitendra Menaria
3. Infrastructure development for growth of Agricultural in North Bengal under West Bengal		Asok Kumar Som/B.N. Mazumdar S.K. Banerjee/ Prof. Goutam Bairagi
4. Transport Infrastructure- A means of sustainable Development in Globalization context.		S.N. Rao
5 State of the art of Urban Transport System in India		Pradeep Kumar/Praveen Kutti
6. The New Embedded Infrastructure		Davendra K. Mehta

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| 7. | Performance Evaluation of Developed Gasifier System for Thermal Application | Deepak Sharma, Pramod
B. Ransing, Narayanlal
Panwar |
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Lunch 1.45 p.m. to 2.30 p.m.

Concluding Technical Session 2.30 p.m. - 3.30 p.m. MLSU Auditorium

Valedictory Session of the Congress 3.30 p.m. to 4.30 p.m. MLSU Auditorium

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| 1 | Green Habitat | Er. P. Balakrishnan Nair |
| 2 | Heavy Water Plant (Kota) – A Green Habitat | Shri D.C. Srivastava |
| 3 | Environment Management and its Mitigation | A.N. Bhadra/S. Podder |
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MLSU Auditorium

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MLSU Auditorium