



IEI

epitome

July 2016, Volume 1, Number 6

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Members in the News



Dr Mula Venkata Ramana Reddy, FIE

Proprietor of the Company 'Indo Electrosat'

After, three years of steadfast efforts, the company could indigenously design, develop and manufacture Solenoid Valve which is used in Advanced Light Helicopters. The Company received Production Order from the HAL, Bangalore to this effect. This Company is second to manufacture this component (manufacture year 2016) in the Globe. Provisional Clearance is Provided By: CEMILAC, Ministry of Defence (R&D), Govt. of India (P/N: IE1054).

Dr M Amala Justus Selvam, FIE

Prof & Head, Department of Automobile Engineering Vel Tech Dr.RR & Dr.SR Technical University, Chennai



Received Outstanding Team Award, in the International Student Car Competition held during May 27-28, 2016 at Korean Automotive Testing and Research Institute (KATRI), South Korea under his guidance. 55 teams from across the globe participated in the competition.



Mr Prabir Kumar Bhattacharjee, MIE

Sr. Manager - QA/QC in Larsen & Toubro Limited

There is an online education system for L&T staffs known as ATL (Any Time Learning). Successfully completed following three courses through ATL:

1. Project Management,
2. Six Sigma,
3. Value Engineering



Dr Abhay Wagh, FIE

Director Maharashtra State Board of Technical Education (MSBTE), Mumbai

Conducted four projects of MSBTE: 1. E-Marksheet System, 2. Online Verification & Reassessment System, 3. Online Enrollment and Online Examination Form Filling System and 4. Online Academic Monitoring System which have been rated amongst the 'Top 21 Education & Skill Development Projects in India' for the year 2015 and have been awarded with "Skoch Order of Merit Award" at the 41st Skoch Summit organized by Skoch Group, New Delhi, held during September 22-23, 2015.

Mr Mahendra Kumar Mathur, FIE

Chairman The Institution of Engineers (India), Udaipur Local Centre, Udaipur



Acted as one of the judges for the Regional Science Fair at Bakersfield, California held on 15th March 2016 where 750 participating students with over 200 judges were present. His work for the same was well appreciated for which a letter was received from Kern County Science Foundation.



Dr Ramakrishna Akula, MIE

Won ENOC Elite Award 2015 as a distinguished professional employee in Emirates National Oil Company Group, Dubai. ENOC Elite Award is a prestigious award intended for professional employees in ENOC group (Emirates National Oil group Companies). ENOC is an integrated oil company owned by DUBAI government, having more than 35 subsidiaries. This award is one of the top most individual employee recognition. Group CEO presents this award to the winners in award ceremony.

Members in the News



Mr Abhinav Anand, AMIE

Attended Multimodal Logistics Summit and Supply Chain Summit... Strengthening for Make in India in Mumbai during May 19-20, 2016. Also became Graduate Member of Association of MBA's (AMBA).

Mr Vinod Kumar, MIE

Engineer (M), Hard Coating Facility, Power House Maintenance Department, NJHPS, SJVN Ltd., Jhakri

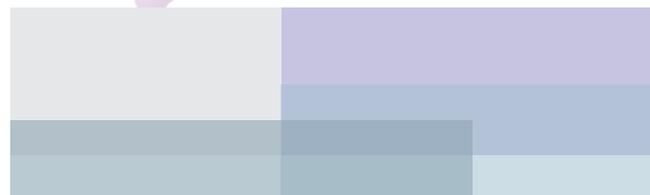


Invited to attend International Conference organized by Power-Gen India & Central Asia 2016 held at New Delhi during May 18-20, 2016 where his paper titled "HVOF Coatings-A Boon for Hydro Power Plant, A case study" has been published in Conference Proceedings.

Dr B Karuna Kumar, MIE

Professor, Mechanical Engineering & Dean Planning & Monitoring, Gudlavalleru Engineering College, Gudlavalleru, Krishna Dist, Andhra Pradesh.

Awarded Ph.D Degree, for his thesis entitled "Mathematical Modelling and Analysis of Centralized and De-Centralized Multi-Echelon Inventory Systems Under Price Dependent Demand Variations" by Vellore Institute of Technological University, Vellore on 29.02.2016. Dr. Kumar completed his sections A & B examinations of IEI in Mechanical Engineering and further pursued M.Tech in Advanced Manufacturing Systems at Jawaharlal Nehru Technological University, Hyderabad.



IEI – Springer Journal



Online paper submission :
www.editorialmanager.com/ieia
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 ISSN online : 2250-2157



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Publications

by Members



Dr K Mallikarjuna, MIE

Department of Mechanical Engineering, G.Pullaiah College of Engineering and Technology Kurnool, Andhra Pradesh

1. Title of Paper: "A New Meta-Heuristics for Optimum Design of Loop Layout in Flexible Manufacturing System with Integrated Scheduling", *International Journal of Advanced Manufacturing Technology*, DOI 10.1007/s00170-015-7715-9, Vol 81, No.1-4, August 11, 2015, Springer Verlag London.

2. Title of Paper: "Optimization of Open Field Layout in FMS with Scheduling as Constraints – An Approach of Evolutionary Algorithm and Trajectory based Method", *International Conference on Technological Innovation in Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad, February 10-11, 2016.*

3. Title of Paper: "A Population based Metaheuristics for Optimum Design of Single Row Layout in Flexible Manufacturing System with Integrated Job Shop Scheduling", *International Journal of Engineering Research*, Vol. 5, Issue: Special 2, February 11-12, 2016, pp: 382-385.

Dr R Umamaheswari, MIE

*Associate Professor
Department of Electrical and Electronics Engineering, Velammal Engineering College, Chennai.*



1. Title of Paper: "Three-Dimensional Lung Nodule Segmentation and Shape Variance Analysis to Detect Lung Cancer With Reduced False Positives", *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, Vol. 230, No. 1, 2016, pp. 58-70.

2. Title of Paper : "Lung Nodule Volume Growth Analysis and Visualization through Auto - Cluster K-means Segmentation and Centroid/Shape Variance based False Nodule Elimination", *International Journal of Advanced Engineering Technology*, Vol. 7, No. 1, 2016, pp. 650-656.



Dr Jitendra Kumar, MIE

Professor, Mechanical Engineering Department, KNGD Modi Engg. College, Modinagar, Ghaziabad.

Title of Paper: "Multi-criteria Decision Making (MCDM) of Material Selection for Gears using AHP", *International Conference on Emerging Trends in Science & Technology-16 (ICETST-16)*, organized by the Departments of A.S., C.S.E., ECE, EEE of KNGD Modi Engineering College, Modinagar, Ghaziabad (UP), April 8-9, 2016.

Mr Satya Prakash Rout, AMIE

Head, Department of Electronics & Communication, TempleCity Institute of Technology & Engineering, Khurdha, Odisha



1. Title of Paper: "Performance Comparison of Various DBA Algorithms on an Emulated 10Gbps Next Generation EPON Access Network", *International Journal of Innovative Research in Computer and Communication Engineering*, (doi: 10.15680/IJIRCC.2016.0405183), Vol. 4, Issue 5, May 2016, pp. 9377–9382.

2. Title of Paper: "5th Generation Mobile Technology - A New Milestone to Future Wireless Communication Networks", *International Journal of Science and Research*, (doi: 10.21275/v5i5.NOV163418), Vol. 5, Issue 5, May 2016, pp. 529–534.



Mr Vinay Kumar M, AMIE

Title of Paper: "Seismic Performance Evaluation of Existing Bridge", *IJSETR*, Volume 5, Issue 5, Sl. No. 54, May 2016, pp. 1596 - 1602.

Publications

by Members



Mr Chandrakumar Bhimaraoji Mohod, AMIE

Lecturer, Chemical Engineering
Government Polytechnic, Arvi,
Wardha, Maharashtra.

1. Title of Paper: "Application of Ordinary Differential Equations (ODE's) in Reaction Engineering: Review", *International Journal of Chemical and Molecular Engineering*, Vol.2, Issue-1, 2016, pp.1-9.

2. Title of Paper: "Review on Progress of Aluminium Industries in India-Part-1", *International Journal of Metallurgy and Alloys*, Vol. 2: Issue 1, 2016, pp. 20-26.

3. Title of Paper: "Treatment of Synthetic Dairy Waste in an Aerobic Bioreactor", *International Journal of Industrial Biotechnology and Biomaterials*, Vol-1, Issue-1, 2015, pp. 11-17.

Mr Ajay Kumar Kushwaha, AMIE

Research Scholar
Department of Electronics
Engineering, Indian School of
Mines, Dhanbad



Title of Paper: "Current Mode Universal Filter using Single Current Controlled Differential Difference Current Conveyor Transconductance Amplifier", *Circuit and System (Scientific Research Publication)*, DOI 10.4236/cs.2015.610023, Vol. 6, No. 10, October 30, 2015.



Ms Tarannum Yasmin, AMIE

CSIR-Central Building Research
Institute, Roorkee, India

Title of Paper: "Fragility Analysis for Seismic Vulnerability Assessment of Buildings: A Review", *International Research Journal of Engineering and Technology*. Vol.2, Issue 6, 2015, pp. 502- 508.

Co-authors: Dr. Ajay Chourasia, Prof. S.K. Bhattacharyya, JalajParashar



Dr Chandramohan VP, MIE

Assistant Professor
Mechanical Engineering
Department, NIT Warangal

1. Title of Paper: "Numerical Prediction and Analysis of a Surface Transfer Coefficients on Moist Object during Heat and Mass Transfer Application", *Heat Transfer Engineering*, Taylor & Francis, SCI Journal, Vol. 37, No. 1, 2016, pp. 53-63.

2. Title of Paper: "Experimental Analysis and Simultaneous Heat and Moisture Transfer with Coupled CFD Model for Convective Drying of Moist Object", *International Journal for Computational Methods in Engineering Science and Mechanics*, Taylor & Francis, SCI Journal, Vol. 17, No. 1, 2016, pp. 59-71.

Mr S Krishnama Raju, AMIE

Research Scholar
IIT Roorkee



1. Title of Paper: "Design and Implementation of Type-2 Fuzzy Logic Controller for DFIG-based Wind Energy Systems in Distribution Networks", *IEEE Transactions on Sustainable Energy*, Vol. 7, No. 1, 2016, pp. 345-353.

2. Title of Paper: "Design and Real Time Implementation of Type-2 Fuzzy Vector Control for DFIG based Wind Generators", *Renewable Energy*, Vol. 88, April 2016, pp. 40-50.

3. Title of Paper: "Enhancing LVRT Capability of DFIG based Wind Power Plants by Interval Type-2 Fuzzy Logic Controller", *International Journal of Applied Engineering Research*, Vol.10, No.44, 2015.

Co-author : Mr. GN Pillai



Mr Rejeesh C Rajendran, MIE

Title of Paper: "Innovative Value Chain Development of Modified Starch for a Sustainable Environment: a Review", *International Journal of Polymer Science and Engineering*, Vol. 2: Issue 1, 2016.

Co-authors: Anagha Ashok and Manu Mathew

Publications

by Members



Dr M Singaravelu, FIE

*Professor & Head
Department of Agricultural
Engineering, Bannari Amman
Institute of Technology, Anna
University, Tamil Nadu.*

1. Title of Paper: "Effect of Biomass based Producer Gas on the Performance of a Dual Fuel Diesel Engine for Water Pumping", *4th National Conference on "Frontiers in Applied Sciences and Computer Technology", National Institute of Technology, Tiruchirapalli, February 19, 2016.*

2. Title of Paper: "Biomethanation of Paper Mill Liquid Effluent through USAB Reactor", *International Conference on "Advances in Electronics, information, Communication and Bioinformatics -2016", Prathyusha Engineering College, Chennai, February 27, 2016.*

3. Title of Paper: "Performance of a Water Regenerating System in the Scrubbing of Biogas Obtained from Sago Liquid Effluent" *International Conference on "Energy, Environment and Engineering", Coimbatore Institute of Technology, Coimbatore, February 29, 2016.*

Mr Surender Singh Tanwar, MIE

Research Scholar, IIT, Roorkee

Title of Paper: "Optimal Placement of Renewable DG's in Radial Distribution System" at *All India Seminar on "Sustainable Development and Renewable Energy" organized by The Institution of Engineers, Kota Local Centre, Rajasthan in association with Electrical Engineering Department, Rajasthan Technical University, Kota held during May 14-15, 2016.*



Mr Satyendra Kumar Singh, FIE

Title of Paper: "Turn-around of the Indian Industry?" *MMI Modern Manufacturing India, Volume 3, No. 6, November 2015.*



Dr Virupaxi Auradi, FIE

*Associate Professor
Department of Mechanical
Engineering, Siddaganga Institute
of Technology, Tumkur, Karnataka*

1. Title of Paper: "Friction and Dry Sliding Wear of Bismaleimide Filled with Carbon Nanotubes", *Tribology – Materials, Surfaces & Interfaces, Taylor and Francis Publications, Vol. 1., 2016, pp 1-6.*

Co-author: R. V. Kurahatti, A. O. Surendranathan, B. Mordina, P. Naik

2. Title of Paper: "Influence of Ceramic B4C Particulate Addition on Tensile Behavior of 6061 Aluminum Matrix", *International Journal of Materials Research (formerly: Metallkunde), Carl Hanser Verlag GmbH & KG Co. Publishing, Vol. 107, Issue-5, 2016, pp 439-445.*

Co-authors: Sandeep Panyam R, Rajesh G L, S. A. Kori

3. Title of Paper: "Machining of Metal Matrix Composites: Influence of B4C Ceramic Particulate Addition on Cutting Forces and Surface Roughness of 6061Al Alloy", *International Journal of Machining and Machinability of Materials, Inderscience Publications, Vol.18, No.4, 2016, pp 365-376.*

Co-authors: Vijaykumar Hiremath, Suresh T Dundur



Mr Rajeev Namdeo, MIE

*Department of Automobile
Engineering, Shri Vaishnav
Polytechnic College; Indore,
Madhya Pradesh*

Title of Paper: "Optimizing the Effect of Addition of MA-g-PE Compatibilizer on Two-body Abrasive Wear Behavior of EVA/HDPE Polymer Blend using Taguchi and ANOVA", *Proceedings of International Conference on ARIMPIE, ELK Asia Pacific Journals, India, April 15-16, 2016, pp. 39-43.*

Co-authors: S. Tiwari, S. Manepatil and N. Chand

Publications

by Members



Mr Saravanamurugan P, MIE

Certified Vibration Analyst ISO CAT-III & Certified as CMRP (Certified maintenance and Reliability professional)

1. Title of Paper: "Fouling and Cavitation Induced Vibrations in Large Steam Turbines", *40th Annual Training Conference, Vibration Institute, USA, Asheville, NC, USA, 15-17 June 2016.*

2. Title of Paper: "High Journal Bearing Vibration in Multistage Pump", *Vibrations Magazine, Summer 2015 issue, Vibration Institute, USA.*

Dr Nabnit Panigrahi, MIE

Mechanical Engineering Department, Gandhi Institute for Technology, Bhubaneswar, Odisha

Title of Paper: "Performance of a C.I. Engine with Energy and Exergy Analysis Fuelled with Neem Oil Methyl Ester", *International Journal of Renewable Energy Technology, Inderscience Publishers, Vol. 7, No. 3, 2016, pp. 264-287.*



Dr P Sojan Lal, FIE

Director Asian Institute of Petroleum and Construction Technology (AIPCT) Kadavantara, Cochin, Kerala.

1. Title of Paper: "Fingerprint Reference Point Identification based on Chain Encoded Discrete Curvature and Bending Energy, Pattern Analysis and Applications", *Springer-Verlag, London, 2016. (Accepted).*

Co-authors: Geevar C. Zacharias, Madhu S. Nair

2. Title of Paper: "Pre and Post Fingerprint Skeleton Enhancement for Minutiae Extraction", *Proceedings of the International Conference on Computer Vision and Image Processing February 26-28, 2016, IIT Roorkee.*

Co-authors: Geevar C. Zacharias and Madhu S. Nair



Mr Revati Raman, MIE

Dy. Manager (Civil), SJVN Limited, (A Joint Venture of Govt. of India and Govt. of H.P.), Corporate Civil Design Department, Verma Niwas, New Shimla, Himachal Pradesh.

Title of Paper: "Design and Construction of TRT System and under River Crossing of Head Race Tunnel with Specific Reference to SJVN's Rampur Hydro Electric Project (412 MW) - India", *13th International Conference on Underground Construction Prague 2016 & 3rd Eastern European Tunneling Conference" held at Prague, Czech Republic during May 23-25, 2016.*

Co-authors: Vivek Chand, R.K. Sharma



Mr Harsimran Singh, MIE

Deputy General Manager (G), South Eastern Railway, Garden Reach, Kolkata.

1. Title of Paper: "Handling Massive Construction of 4-Lane Cable Stayed Road Over Bridge Over Barddhaman Yard of Eastern Railway in the State of West Bengal, India", *Quarterly Journal of IRICEN (Indian Railway Institute of Civil Engineering), Pune, Vol. 8, Issue No. 3, July-September 2015.*

2. Title of Paper: "Long Life painting scheme for cable stayed ROB at Barddhaman", *Quarterly Journal of IRICEN (Indian Railway Institute of Civil Engineering), Pune, Vol. 8, Issue No. 4, October-December 2015.*

Dr Mohan Kumar Pradhan, MIE

Assistant Professor, Department of Mechanical Engineering, Maulana Azad, National Institute of Technology, Bhopal

Title of Paper: "Application of a ANN Modeling of Radial Overcut in Electrical Discharge Machining", *Journal of Manufacturing Technology Research, Nova Science Publishers, Vol. 7, Issue 1-2, Year 2015, pp. 39-52.*

Co-author: Raja Das



Publications

by Members



Dr S Madhava Reddy, MIE

Associate Professor, Department of Mechanical Engineering, Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad.

1. Title of Paper: "Optimization of Production by Using AGV's and Automatic Tool Changer", *Indian Journal of Science - An International journal*, Vol.23, Issue.80, March 2016, pp. 412-421.

2. Title of Paper: "Kinematic Analysis of 8-DOF Robot Arm", *International Journal of Emerging Research in Management & Technology*, Vol. 5, Issue-5, May 2016.

3. Title of Paper: "Design and Fabrication of a Multirotor with Integrated End Effector", *International Journal of Current Trends in Engineering & Research (IJCTER)*, Vol. 2, Issue 6, June 2016, pp. 26-41.



Mr Darshan J Mehta, AMIE

Assistant Professor, Civil Engineering Department, S.S.A.S. Institute of Technology, Surat, Gujarat

1. Title of Paper: "Alternative Approaches for Sustainability of Slum: A Case Study of Surat City", *International Journal of Emerging Technologies and Innovative Research (JETIR)*, Vol. 2, Issue No. 11, November 4, 2015.

2. Title of the Paper: "Simulation of Hydraulic Parameters in Water Distribution Network using EPANET: A Case Study of Surat City", *20th International Conference on 'Hydraulics, Water Resources and River Engineering' IIT Roorkee*, December 17-19, 2015.



Mr S Thirumalai Selvam, AMIE

Assistant General Manager (D & E), Steel Authority of India Limited (SAIL), R & D Centre for Iron and Steel (RDCIS), Ranchi, Jharkhand

Title of Paper: "Improvement in Productivity of Sinter Machine Through increased Size Segregation of Charge Feed", *Process & Plant Engineering*, Vol. XXXIII, No. 5, Jan-Mar' 2016.



Dr MA Mallick, FIE

Professor, Department of Electrical Engineering, Integral University, Lucknow.

1. Title of Paper: "Optimum sizing and estimation of a 30 kW hybrid solar photovoltaic system with multi level inverter", *International Journal of Research and Scientific Innovation (IJRSI)*, Vol. 2, Issue. 7, July 2015.

Co-author : A. F. Minai

2. Title of Paper: "Rain Water Harvesting and Impact of Microbial Pollutants on Ground Water Resources", *International Journal of Engineering Research and Applications (IJERA)*, Vol. 5, Issue 8, October. 2015.

Co-author : Athar Hussain

3 Title of Paper: "Performance Evaluation of PFC Boost Converters", *International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering (IJREEICE)*, Vol. 3, Issue 11, November 2015.

Co-author : Md Asim



Mr Suda Vijaya Bhaskar Reddy, MIE

Professor & Head, Department of Civil Engineering, CMR Technical Campus, Kandlakoya (V), Hyderabad.

1. Title of Paper: "Analysis of Multistoried Structures using ETABS", *International Journal of Civil Structural Engineering Research (IJCSER)*, Vol. 3, Issue 01, April - September 2015, pp. 151-158.

Co-authors: Jagath Chandra, P Srinivasa Rao

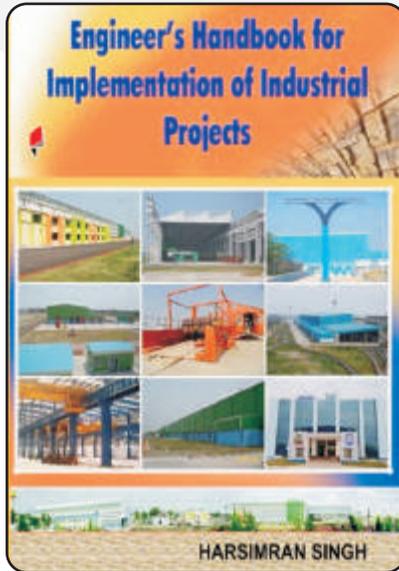
2. Title of Paper: "Effect of Wind Forces on Multistoried Structures", *International Journal of Innovative Research in Advanced Engineering (IJIRAE)*, Vol. 2, Issue 6, June 2015, pp.79-83.

Co-authors: Yugandhar Sagar, P Srinivasa Rao

Book



Review



Engineer's Handbook for Implementation of Industrial Projects

by **Mr Harsimran Singh, MIE**

Deputy General Manager (G)
South Eastern Railway
Garden Reach, Kolkata

The book deals with various aspects of design, construction and project management necessary for the engineering and management teams of Client and Contractor, though it does not go into the detailed design calculations. It starts from the scratch, i.e., selection of site and surveying and then delves into details of design requirements, selection of structural elements - columns, beams, trusses, foundation, etc. The quality control and assurance during construction have been covered in detail and provided in tabular form for as annexure.

It also covers to reasonable extent the works related to electrical engineering, fire fighting, installation of machinery, water supply system, pre-engineered building installation, green building concept, fire resistance requirements and finishing works of buildings. The installation of Railway track in the shed, at pits and in yard have been described as also construction of flexible & concrete pavement roads for heavy traffic. The project management has been elaborated from point of view of project manager of a large infrastructure project.

Examples have been drawn from works actually executed by the author and photographs have been provided in large numbers mostly from the works actually executed by the author.

Publisher : M/s Front page

Welcome

New Institutional Members

Graphic Era University

Dehradun

Uttarakhand

Members



Cdr A K Poothia, FIE

*Former Secretary & Director General
The Institution of Engineers (India)*

Congratulations for fine publication. My congratulations to all those who worked on the new publication. Keep it up.

I am very delighted to see the IEI Epitome newsletter covered the Members' achievement, latest Publications & Book review.

We have to congratulate the dedicated team behind bringing the IEI Epitome newsletter. Keep it up.

With Warm Regards

Mr S N Hariprasad, MIE

Sr. Engineer BHEL Electronics Division

I am delighted to see IEI epitome in new AVATAR, by reforming from its old look. Editorial Board deserves all appreciation for their vision and creative efforts.

Best Wishes,

Mr T Niranjana, FIE

It is good initiative from IEI that I was expecting for long, to have such development of promoting interaction between members and engineers across country and world.

Mr S Murugan, MIE

*Dubai Petroleum
Dubai*

Speak

It is really a good thought to share the views of IEI members briefing like this. How the IEI members have to update their information like published journals, conferences, any news etc. Publication of Epitome is an excellent initiation, which provides information of contributions of Engineers of this country in various fields.

My suggestion is to mail the copy of EPITOME to all corporate members.

Warm Wishes

Mr Vinay Kumar Shukla, MIE

*Dy Manager, Instrumentation Department
National Fertilizers Limited, Vijaypur, Guna,
MP*

Epitome of The Institution of Engineers (India) has become now the only initiative by a national/international institution in the present world, which is focused to motivate its member engineers for doing good work in their expertise area and thus gives wide publicity and coverage to individual achievements. This, in a very short span of time, has become a novel platform for recognition of proactive, dedicated professionals/ researchers/academicians' work in the socio-techno-educational development of trained minds in the national interest. I am sure this way youngsters/ the fresh graduating engineers/students would be activated to excel in their professional career and enjoy recognition by establishing connections with the Institution.

Dr. Bhagwanjee Jha, FIE

*HOD-I/C, Civil Engineering Department
Dr. B.B.A. Govt. Polytechnic, Karad*

Announcements

IEI Industry Excellence Award 2016

The Institution of Engineers (India)
8 Gokhale Road, Kolkata 700 020



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Applications are Invited from Industries

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For Information Brochure & Application form please
visit <http://www.ieindia.org/indexecl2016>

Award will be presented at
31st Indian Engineering Congress
during December 2016

For further query contact :

Mr Tanmoy Chakraborty, Executive (Technical)
Phone : (033) 40106259/Mob : 9804461661
E-mail : award@ieindia.org / iei.technical@gmail.com

IEI AWARDS

The Steel Authority of India Ltd (SAIL) had instituted two Awards, namely, SAIL AWARD and DR M VISVESVARAYA AWARD to be given away every year during the Indian Engineering Congress to author/s of the articles adjudged best on selected topics. The topics for the year 2016 are given hereunder.

SAIL AWARD

'Improving Safety, Health & Environment in the Steel Industry'

DR M VISVESVARAYA AWARD

'Role and Contribution of Steel Industry to
'Make in India' Programme'

The Coal India Ltd (CIL) had instituted an Award to perpetuate the memory of Late J G Kumaramangalam, its first Chairman to be awarded every year during the Indian Engineering Congress to author/s of the articles adjudged best on a selected topic. The topic for the year 2016 is given below.

COAL INDIA (J G KUMARAMANGALAM MEMORIAL) AWARD:

'Sustainable Mining Strategies in Current Scenario'

Intending contributors are requested to submit their articles (visit www.ieindia.org/jourtechdwnlds.aspx for guidelines) in quadruplicate to Director (Technical), The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700 020 by July 15, 2016.



31st INDIAN ENGINEERING CONGRESS

Kolkata, December 16-18, 2016

Theme:

**SMART Technologies for Natural Resource Conservation and
Sustainable Development**

Organized by: **The Institution of Engineers (India)**

Hosted by: **West Bengal State Centre**

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IEI epitome

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Editor : Dr Anil Kumar

Associate Editor: Mr S Chaudhury

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