

# 3<sup>rd</sup> INTERNATIONAL CONFERENCE ON ADVANCES IN STEEL, POWER AND CONSTRUCTION TECHNOLOGY (March 22-23, 2017)

IN ASSOCIATION WITH



**OPJU**

Organized By:

**OP JINDAL UNIVERSITY**

OP Jindal Knowledge Park, Punjipathra  
Raigarh (C.G.) PIN : 496109

## ABOUT OP JINDAL UNIVERSITY

Founded by the **Jindal Education and Welfare Society, OP Jindal University (OPJU)** was set up to bring high quality education to its students based on a world class curriculum, the latest teaching methodology and committed faculty members. The multidisciplinary university aims to develop young professionals and future leaders who will not only power growth and development in the state, but also make a mark globally. At the core of the university's philosophy and approach lies the belief that students learn best when exposed to real world situations and when nurtured through enriching interactions with practitioners and professors. OPJU believes that every student has innate potential that can be unlocked through quality teaching and mentorship.

OPJU was established by an Act of Legislature in the state assembly of Chhattisgarh in 2014. It is promoted by Jindal Steel and Power Limited, India's fastest growing STEEL & POWER Company and is an industrial conglomerate of the US \$ 15 billion Jindal Organization.

## PREAMBLE

Today's world is powered and driven by technology that is changing at a rapid rate through advancements in Research and Innovations. The productivity and quality plays a prominent role in technology implementation. At the same time sustainability that has become prime concern of the humanity needs to be kept uppermost in the minds of all those who are associated with the development and utilization of the technology. In view of the international scenario and wide domestic market conditions, India is poised to make a quantum jump in steel making , electricity production and infrastructure development.

## ABOUT THE 2<sup>nd</sup> INTERNATIONAL CONFERENCE

The second International Conference on “ADVANCES IN STEEL, POWER AND CONSTRUCTION TECHNOLOGY” was held at OP Jindal University during March 17-19, 2016 in association with Jindal Steel and Power Limited, Raigarh, India & association for Iron and Steel Technology, USA. The conference was a great success and focused on the recent advancements and emphasized the need for the study of advance technological research in steel, power and construction industries for a prosperous future.

The conference was inaugurated by the Chief Guest Mr. ashok Sethi, COO & ED, Tata Power Ltd., Mumbai and addressed by Mr. George F. Vander Voort, President Vander Voort, Counsulting L.L.C. & struers, USA; Dr. Valdiney Domingos de Oliveira- Director, metallurgy and engineering viridis.iQ GmbH, Germany; Dr. John Bustnes-Research manager, Environment and Metallurgy Swerea MEFOS, Sweden; Dr. Bin Yang-State key Laboratory for advanced Metals & materials University of science & technology, Beijing, China; Dr. Bijish Babu-Swerea MEFOS, Sweden; Mark Ferguson-Managing director (UK & Asia), PSI metal group, Germany (Broner Metals Division UK); Dr. Volodymer (Vladimir) Mamalyga-Director and owner of Pvt. Company “Electrical Mechanics”, Executive Director of All-Ukrainian Public Organization “Energy Auditors & Energy Managers Supreme Council of Ukraine”.

The conference was also addressed by the eminent speakers of our country such as Dr. Madhu Ranjan, Managing Director-ElringKlinger Automotive Components (India) Pvt. Ltd., Pune, India; Dr. T. Venugopalan-Chief Technology Officer and Technical Advisor to Managing Director, Tata Steel Limited , Jamshedpur; Dr. Amitava Ray-Technical Advisor (India), AIMIL Limited, New Delhi ; Mr. Arbind Kumar-Director (A)-C-MET,(DeitY, Gov. of India); Cherlapally, HCL (PO), Hyderabad; Dr. Praveen Kr. Singh-Chief Operating Officer, Monnet Ispat & Energy Limited, Raigarh; Dr. C.D. Singh-Ministry of Steel, Chair Professor, BIT sindri, Jharkhand; Dr. Ashok kr. Vaish-Ministry of Chair Professor, The MS University of Baroda, Vadodra, Gujrat ; Dr. S.K. Dutta-Prof. & Head, Metallurgical & materials Engineering Department, The M.S. University of Baroda; Dr. Ajay Shukla- Professor, Department of Metallurgical and Materials Engineering, IIT Chennai.

## AIMS & OBJECTIVES

The 3<sup>rd</sup> International conference aims at bringing together academicians, researchers, industrialists and other stake holders across the world on a common platform to present their findings related to research and development in the areas of steel, power and construction technologies. The objective is to help the participants to redefine their goals, if necessary, in order to meet the challenges and to discover new horizons of research and development. The Conference would focus on the recent advancements as well as future outlook in steel, power and construction technology. It will provide an opportunity to the participants to interact with the experts of these areas who will be developing the keynote address and joining the panel discussions during the Conference.

The conference will commence with an introductory keynote session, plenary sessions, workshops and symposium after which technical sessions will be held for deliberations on various heads with their predetermined themes and sub-themes on the basis of research papers submitted. The concluding valedictory session for the conference will have the chairperson, reporting to the assembly the details of the discussions that took place in their respective groups.

## PARTICIPATION

OP Jindal University's 3<sup>rd</sup> International Conference on "Advances in Steel, Power and Construction Technology" from **March 22<sup>nd</sup>-23<sup>rd</sup>, 2017** is open to all academicians, industry personnel and executives, policy makers, consultants, scholars, social workers and research & development community concern with construction, power and steel industries.

## REGISTRATION FEE

	INDIA	ABROAD	Registration fee is to be deposited into:
Faculty members & Academicians	₹ 2500	USD 200	A/C No.: 34368061214 IFSC Code: SBIN0012145
Scholars & Students	₹ 1000	USD 100	A/C Name: O.P. Jindal University Bank Name: State Bank of India (SBI)
Industry Personnel	₹ 6000	USD 300	Branch Code: 12145 Branch: SBI, Gerwani, Raigarh, INDIA.

## IMPORTANT DATES

## SUBMISSION GUIDELINES

Submission of extended abstracts	December 20, 2016	ICASPCT-2017 is using easyChair for submission of abstract and papers. For more details please visit conference website: <a href="http://www.conference.opju.ac.in">www.conference.opju.ac.in</a>
Confirmation of acceptance	December 30, 2016	
Submission of full length papers	January 15, 2017	
Early bird registration	January 15, 2017	
Last date for registration	January 30, 2017	
Conference dates	March 22-23, 2017	

CONFERENCE VENUE : Raipur (Chhattisgarh), India.

## KEY THRUST AREAS

### TRACK I - THEME

- Technological Developments and Eco-Systems
- Green Technology
- Innovations for Sustainable Development
- Quality Assurance in Technological Outputs
- Growth for Sustainability
- Planning for Sustenance
- Technology for Inclusive Growth
- Environment and Sustainability
- Any Other Related Areas

### TRACK II - STEEL TECHNOLOGY

- Recent Developments in Metallurgical Processes
- Advanced Engineering Materials and Applications
- Modeling and Simulation of Materials and Devices in Steel Industry
- Control and Instrumentation in Steel Industry
- Steel Microstructures, Properties and Characterization
- Nano-Technology
- Coating and Surface Engineering in Metallurgical Industry
- Coke Making, Sintering and Iron Making
- New Iron and Steel Making Processes
- Any Other Related Areas

### TRACK III - POWER TECHNOLOGY

- Recent Developments in Power Technology
- Electromagnetic Compatibility and Mitigation of Electromagnetic Interferences
- Power System Modeling, Simulation and Analysis
- Power System Stability, Dynamics and Control
- Power Quality and Demand Size Management
- Power Electronics and Drives
- Distribution Generation and Micro Grid Operation

- Power System Optimization Techniques
- Renewable Energy Management
- Soft Computing Applications in Power System
- High Voltage Engineering and Insulation Coordination
- Power System Protection and Digital Relaying
- Waste heat recovery systems in power plant.
- Coal fired plants- life extension techniques.
- Energy Storage Devices: Large capacity power storage technology
- Combustion modeling and technologies for utilizing un-burnt carbon in ash.
- Design and development of last stage steam turbine blades.
- Numerical flow simulation in power plants using Computational Fluid Dynamics (CFD) or other software.
- Turbine modernization to increase efficiency of power generation.
- Advanced NDT Inspection technologies in Power Engineering.
- Any Other Related Areas

### TRACK IV - CONSTRUCTION TECHNOLOGY

- Recent Developments in Construction Technology
- Smart Materials and Structures
- Constructional Safety Management
- GIS and Remote Sensing in Construction
- Repair Using Modern Materials & Technologies
- Construction Engineering System
- Seismic Retrofitting & Rehabilitation of Bridges
- Rehabilitation and Resettlement
- Super Plasticisers for Ready Mix Concrete Plants
- Applications of Structural Engg.
- Disaster mitigation measures in recent construction tech.
- Any Other Related Areas

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OP Jindal University, Raigarh (C.G.)



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