

VENUE

The Convention will be held at Birla Institute of Technology, Mesra, which is about 26 Km from Ranchi Airport and 16 Km from Ranchi Railway Station. Ranchi is connected to Delhi, Bombay, Bangalore and Kolkata by Air and all major cities by Rail. The Institute is situated amidst 780 - Acre of picturesque surroundings, having confluence of rivers and natural forest. The climate is expected to be dry during October and temperature will be in the range of 15° C to 27°C.

REGISTRATION

Registration Form along with the Registration Fee to be sent to the Organising Secretary, latest by September 30, 2018. This will cover the Proceedings, Souvenir and Registration Kit, besides Lunch, Dinner and Refreshments.

Registration fees are as follows :

- Sponsored Delegates from Industries : ₹ 5,000/- +18% GST
- Delegates from R & D Organisations and Academic Institutions : ₹ 3,500/- +18% GST
- Corporate Members of IEI (Individual) : ₹ 2,000/- +18% GST
- Students : ₹ 1,000/- +18% GST

(After September 30, 2018, an additional amount of ₹ 500/- to be paid as late fee).

SUPPORT

Support for the National Convention is solicited from R & D Organisations, Industries, Professional Bodies and Institutes, which will entitle the Sponsoring Agency for nomination of a few Delegates free of charge.

ACCOMMODATION

Limited accommodation will be arranged for the Delegates in the Institute Hostels, situated within the Campus. However, the accommodation in City Hotels (Tariff @ ₹ 1000/- to 6000/- per day), will be arranged on receipt of advance payment only.

PAYMENTS

All the payments should be made through RTGS/NEFT in favour of "The Institution of Engineers (India) Jharkhand State Centre"

Bank Name: Union Bank of India, A/C No. : 480102050000259
IFSC: UBIN0548014, A/C type: SB Flexi, PAN: AAATT3439Q
Branch: Shyamali Colony, Doranda, Ranchi

GST No: 20AAATT3439Q2Z7

NATIONAL ADVISORY COMMITTEE

Chairman : **Er. Sisir Kumar Banerjee**, President, IE(I)

Co-Chairman : **Padmashree Prof. R. M. Vasagam**, Chairman, ASDB, IE(I)

Members

Mr. Kamal Kumar Ghosh, Member, ASDB, IEI	
Dr. Tessy Thomas, ASL	Shri. S. Pandian, IPRC-ISRO
Shri T. Mookiah, VSSC	Dr. G. Balu, DRDL
Shri Lazar T. Chitilappilly, VSSC	Dr. K. P. J. Reddy, IISc
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Dr. L. Venkatakrishnan, NAL	Dr. Dasharath Ram, DRDL
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Dr. M. M. Patil, VSSC	Dr. Abhijit Kushari, IITK
Dr. Debopam Das, IITK	Dr. J. Chattopadhyay, DRDO
Shri A.K. Agrawal, MECON	Dr. Krishnendu Sinha, IITB
Dr. P. Theerthamalai, DRDL	Dr. T.K. Nandi, IITKgp
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Dr. Rajesh G, IITM	Dr. Anshuman Awasthi, Mercedes-Benz
Dr. D. Sivakumar, IISc	Dr. S. Ramachandra, GTRE
Dr. Rajeev Jain, GTRE	Dr. K. Ashirvadam, GTRE
Shri Debabrota Koner, ADA	

ORGANISING COMMITTEE

Patron	Prof. M. K. Mishra, Vice Chancellor, BIT Mesra
Organising Chairman	Er. Sanjay Sen, FIE, Chairman IEI JSC
Convenor	Dr. Sudip Das, FIE, Professor, BIT Mesra
Organising Secretary	Dr. Priyank Kumar, MIE, Asst. Professor, BIT Mesra
Honorary Secretary	Er. M. R. Kumar, FIE, IEI, JSC

Members :

Dr. P. Padmanabhan	Dr. Mahesh Chandra
Dr. Sandeep Dutta	Dr. Utpal Baul
Dr. A. P. Krishna	Dr. Mohan Varma
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Dr. Rajeev Agrawal, MIE	Dr. A. K. Chatterjee, FIE
Er. M.T. Pandian, FIE	Er. Shivanand Roy, FIE

TECHNICAL COMMITTEE

Chairman: **Dr. S. Konar**, Dean Faculty Affairs & Sponsored Research, BIT Mesra, Co-Chairman: **Dr. D. K. Mohanta**, Professor, BIT Mesra, Ranchi

Members:

Dr. Rajiv Kumar	Dr. Shelly Biswas
Dr. Partha Mondal	Dr. Swarup Y. Jejurkar

ADDRESS FOR COMMUNICATION

Dr. Sudip Das & **Er. M.R. Kumar**
(Convenor) NCAE 2018 (Honorary Sec.) IEI JSC

DEPARTMENT OF SPACE ENGINEERING & ROCKETRY
BIRLA INSTITUTE OF TECHNOLOGY, MESRA

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THIRTY SECOND NATIONAL CONVENTION OF AEROSPACE ENGINEERS

&
NATIONAL SEMINAR
ON

**Advances in
Aerospace Sciences and
Technologies**

October 27 - 28, 2018

Organised by



The Institution of Engineers (India)
Jharkhand State Centre
(<http://www.ieijsc.org/>)

**Under the aegis of
Aerospace Engineering Division Board, IEI**

In association with



BIRLA INSTITUTE OF TECHNOLOGY
Mesra, Ranchi - 835215, Jharkhand
(www.bitmesra.ac.in)

THIRTY SECOND NATIONAL CONVENTION OF AEROSPACE ENGINEERS

National Seminar

on

Advances in Aerospace Sciences and Technologies

October 27 — 28, 2018

The Thirty Second National Convention of Aerospace Engineers is being organized by The Institution of Engineers (India), Jharkhand State Centre in association with Birla Institute of Technology, Mesra, Ranchi at the Department of Space Engineering & Rocketry during October 27 — 28, 2018 with a Focal Theme:

ADVANCES IN AEROSPACE SCIENCES AND TECHNOLOGIES

Recent developments made towards the development of Indigenous Launch vehicles, Aircrafts, Missiles, Weapon Systems, Platforms and Allied Equipment for our Defence Services at leading organisations such as Aeronautical Development Agency (ADA), Hindustan Aeronautics Limited (HAL), National Aerospace Laboratories (NAL), Defence Research and Development Organisation (DRDO) and Indian Space Research Organisation (ISRO) calls for more active participation of Industries and Academic Institutions. The expertise available in our country is being utilized by several other nations as well.

The progress in these areas can be well recognized by the successful flight tests of Tejas, GSLV, PSLV, NAG, Agni-V, SRE, RLV, micro aerial vehicles, Scramjet engine tests, etc.

SCOPE

The National Convention provides a forum for Engineers, Technologists, Scientists and Academicians to come together and discuss State-of-Art technologies on topics of Aerospace Engineering for possible collaboration and information sharing.

Focussed discussion on the advances in the Aerospace Sciences and Technologies will be made. This is expected to motivate the young participants to assess the future perspective and contribute towards the technological challenges ahead.

Key Note Address, Vikram Sarabhai Memorial Lecture, State-of-Art Lectures and Invited Talks will be delivered by eminent engineers / scientists.

ABOUT THE INSTITUTION OF ENGINEERS(INDIA)

The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform from which to share professional interest. IEI has membership strength of above 0.8 million. Established in 1920, with its HQrs at 8 Gokhale Road, Kolkata 700020, IEI has served the engineering fraternity for over nine decades. In this period of time it has been inextricably linked with the history of modern-day engineering.

In 1935, IEI was incorporated by Royal Charter and remains the only professional body in India to be accorded this honour. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. IEI functions among professional engineers, academicians and research workers. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating from over 121 Centres located across the country. The Institution has established R&D centres at various locations in the country and also provides grant-in-aid to its members to conduct research and development on engineering subjects.

IEI conducts Section A & B Examinations in different Engineering disciplines, the successful completion of which is recognized as equivalent to Degree in appropriate field of Engineering of recognized Universities of India by the Ministry of Human Resources Development, Government of India. Every year as many as 90000 candidates appear for these exams. For details, please see: www.ieindia.org.

TOPICS

Technical Sessions during the Convention will give the opportunity to the delegates to exchange and disseminate their ideas on the following broad areas :

- Aerodynamics
- Aerospace Structures and Materials

- Aircraft and Rocket Propulsion
- Space Missions
- Ground testing Facilities
- Flight Dynamics. Guidance and Control
- Fuels and Propellants
- Quality, Safety and Reliability
- Reusable Launch Vehicles and Reentry Capsules
- Trajectory and Orbit determination
- Hypersonic Research areas
- Related Aerospace & Rocket Technologies

WEBSITE

All the current updates and details of the conference could be obtained through our Institution webpage in the following link.
www.bitmesra.ac.in/ser/nae
www.ieijsc.org

CALL FOR PAPERS

Authors are invited to submit the Abstracts / Technical Paper through the following link,

<https://easychair.org/conferences/?conf=nae2018>.

IMPORTANT DATES

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| • Last date for abstracts submission | May 15, 2018 |
| • Abstract acceptance | June 15, 2018 |
| • Receipt of Full length Paper | August 30, 2018 |
| • Acceptance of Full Paper | September 25, 2018 |
| • Registration | September 30, 2018 |

PROCEEDINGS

The Invited Lectures and Technical Papers will be published in Proceedings, which will be made available to the registered delegates. Papers will be included in the Proceedings, only when it is presented and the Registration Fee is paid in time.

SOUVENIR

A Souvenir containing the Abstracts of the Key Note Address, Vikram Sarabhai Memorial Lecture. State-of-Art Lectures, Invited Lectures and Technical Papers will be published. Tariff for advertisements in limited pages is as follows:

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|-----------------------------|---------------------|
| • Back cover (Colour) | ₹ 50,000/- + 5% GST |
| • Inside cover (Colour) | ₹ 30,000/- + 5% GST |
| • Inside full page (Colour) | ₹ 20,000/- + 5% GST |
| • Inside full page (B&W) | ₹ 10,000/- +5% GST |