

AeSI

FOUNDED on November 17,1948.

Pandit Jawaharlal Nehru, the First Prime Minister of independent India becomes the First Chief Patron of the Society.

To promote the advancement and dissemination of knowledge of Aeronautical and Aerospace Sciences / Technologies. To strive for the elevation of Aeronautical and Aerospace profession.

Over the years, the Society has grown into a major Professional body in the field of Aeronautics, Aviation & Aerospace. The Society has 17 branches at all the important centers of aviation in the counter viz. Agra, Bangalore, Kolkata, Chandigarh, Chennai, Goa, Hyderabad, Kanpur, Kochi, Mumbai, Nasik, Nagpur, Pune, New Delhi, Sunabeda, Trivuvananthapuram & Kanyakumari. Society also has Journal Division and two special interest groups CFD Division and Design Division at Bangalore.

Its membership of more than 13,000 is drawn from all major Aeronautical establishments such as Hindustan Aeronautics Ltd. D.G.C.A., Defence Research and Development Establishments, Academic Institutions, Aeronautical Development Agency, Indian Air Force, Indian Space Research Organization, Vikram Sarabhai Space Centre, National Airports Authority of India, Air India, Jet airways, Pawan Hans, Aero Industry in Private Sector. Private Airlines, Defence Res. & Dev. Laboratory, Army Aviation Corps etc.

Conference Secretariat

Patron : Prof. P.P. Chakrabarti,

Director,IIT Kharagpur

Chair : Prof. D. K. Maiti,

Head,Department of Aerospace Engineering,
IIT Kharagpur,

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Gp Capt T. K. Ray (Retd),

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Mr. Athrey Ranjith Krishnanunni,

Jt. Secretary,Aero-society, Department of Aero-
space Engineering, IIT Kharagpur ;

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ACCOMMODATION FOR PARTICIPANTS

Accommodation will be arranged in the guest houses on request located within the Institute campus on single/sharing basis.

Major attractions of conference:

Best Paper Awards (Students, Preferably undergraduate).The Best Paper Awards will be selected from the papers those are presented at the conference and submitted in the written paper format for the conference proceeding publications, and that are recommended or nominated for Best Paper award consideration by one of the Conference paper technical reviewers and session chair.



ONE DAY INTERNATIONAL CONFERENCE ON USE OF MODERN TECHNOLOGY FOR AERONAUTICS AND AEROSPACE FIELDS



**AERONAUTICAL SOCIETY OF INDIA,
KOLKATA BRANCH**

IN COLLABORATION WITH



**AEROSOCIETY OF
DEPT. OF AEROSPACE ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR, INDIA**

DATE : FEBRUARY 9TH,2019

VENUE : DEPT. OF AEROSPACE ENGINEERING ,
IIT KHARAGPUR

THEMES

I.I.T.Campus

The campus is located in the city of Kharagpur in an idyllic and green environment. I.I.T. Kharagpur is the oldest amongst all I.I.T.s and the campus is spread over a large area. Kharagpur is well connected to all major cities in India by road and rail. The International Airport at Kolkata is about 130 km away. Kharagpur and Kolkata are well connected and the total journey takes about two and a half hours.

All basic facilities like hospital, medicine stores, banks, post and telegraph offices, internet, telecom centres with ISD/STD/FAX, grocery stores, food stalls/canteens, swimming pools, lawn tennis courts, etc. are available within the Institute campus. The State Bank of India located within the campus provides foreign exchange facilities.



The conference will focus on research trends in Modern Technology in all disciplines of related to Aeronautical and Aerospace Fields including interdisciplinary areas. The topics will include (but not limited to):

• Fluid & Solid mechanics

Experimental and Computational Aerodynamics, Experimental and Computational Fluid Mechanics, Seepage Flow, Computational Mechanics, Computational Methods, Shock-Boundary Layer Interactions, Active and Passive Flow Controls, Fluid-structure interaction, High Enthalpy Flows and Hypersonic Aerodynamics, biomechanics, Bio inspired mechanics, Aeroacoustics, Hydrodynamics, Turbulence, LES etc.

AI and Expert Systems, Classical Mechanics, Composite Materials and Structure, Computational Mechanics, Computational Methods, Damage Mechanics, Fracture Mechanics, Functionally Graded Materials, Fuzzy Logic, Genetic Algorithms and Neural Networks, Modelling and Simulation, Nano mechanics, Nonlinear Mechanics, Optimization, Smart Materials, Structures and Systems, Structural Dynamics, Aeroelasticity, Terra mechanics, Uncertainty Quantification etc.

• **Flight mechanics, Flight Control Systems and Avionics**
Space/Orbital Mechanics, UAV, MAV, AI and Expert Systems, Fuzzy Logic, Genetic Algorithms and Neural Networks, Satellite-Based Navigation Systems, etc.

• Propulsion and Power Plant

Turbomachinery, Aerodynamics of gas turbine components, Development and Testing of Gas Turbine Systems, Heat transfer, Gas turbine blade cooling, rotor dynamics, Performance Analysis and Advanced Cycles, Droplet and spray combustion, Laser ignition, Combustion spectroscopy, LES of combustion, Alternative fuels, Non-conventional energy, Nano-fuels, Technology Development in Solid/Liquid/Hybrid Rockets, etc Statistical Thermodynamics, Uncertainty Quantification.



CALL FOR PAPERS

Students are invited to submit extended abstract (maximum two pages) of their papers indicating clearly the summary of the aims, methods of analysis, results and conclusions. The official language for the conference is English. The final acceptance of a paper will be based on the review of the extended abstract. Instructions for preparation of extended abstract are available as separate file.

IMPORTANT DATES

1. Deadline for Submission of Extended Abstract: January 24, 2019.
2. Extended Abstract Acceptance Notification: January 27, 2019
3. Registration Deadline: February 2, 2019.
4. Conference dates: February 9, 2019.

Note: Limited Number of Accommodation

REGISTRATION INFORMATION

1. Conference Registration Form should be sent through email (dkmaiti@gmail.com) for particular details.

REGISTRATION FEES

The registration fees for the Conference are as follows

Delegates from SAARC Countries:

Educational Institutions : Rs.1000/-
Research Organisations/Industries : Rs.1000/
Students : FREE

Delegates from Other Countries:
Educational/research Institutes US\$50
Students : FREE

The fee will cover a copy of the conference proceedings, inaugural reception, lunch and tea/coffee services during session breaks.

MODE OF PAYMENT

Payment of registration fees is to be made through online transaction "AeSI, Kolkata", A/C No. 11094856299, Bank - STATE BANK OF INDIA, Calcutta Airport, IFSC : SBIN0003029.

