ASME India Gas Turbine Seminar 2018

ASME GT INDIA STUDENT SEMINAR

The **American Society of Mechanical Engineers (ASME)** is a professional association that promotes the art, science, and practice of multidisciplinary engineering and allied sciences around the globe via continuing education, training and professional development, codes and standards, research, conferences and publications, government relations, and other forms of outreach.

The **International Gas Turbine Institute (IGTI)** is dedicated to supporting the international exchange and development of information to improve the design, application, manufacture, operation and maintenance, and environmental impact of all types of gas turbines, turbo-machinery and related equipment. They aim "to be the world's foremost vehicle for the development and dissemination of all gas turbine related educational and technological information."

Gas Turbine Student Seminar is an initiative of ASME Gas Turbine India Group.

ASME GT India Panel will be conducting this seminar covering topics like basics of gas turbines and turbo machinery, applications and emerging GT technologies in aerospace and other industries. Reputed speakers from industry, academia and national labs shall be sharing their knowledge and expertise.

The seminar will be a one day event hosted by **Jadavpur University**

KEYNOTE SPEAKERS

- **Mr. Hiteshkumar Mistry,** External Engagement Leader, GE Global Research, Bangalore

  Hiteshkumar Mistry works as an External Engagement Leader at GE Global Research-Bangalore. He has 15+ years of industrial research experience in product development using flow-thermal and turbomachinery CFD. Currently, he is also the Chair for Student Seminars in ASME GT India and organizes student seminars across India with 500+ students' participation annually.

  Before joining GE, Hitesh worked as a Scientist with DRDO-Hyderabad for a year and as a Lecturer with NIT-Surat, for two years. Hitesh has an undergraduate degree in Mechanical Engineering from NIT-Surat and a M. Tech. degree in Thermal from IIT-Kharagpur. Hitesh holds 7 international patent filings and 40 publications which includes 29 GE Internal and 11 external journal/conference publications. He is certified 6σ Black Belt and has mentored 7 Green Belt projects to this date. Hitesh serves as a session chair in ASME IGTI and GT India conferences regularly.

- **Mr. Joseph Machnaim**, Principal Engineer, GE Global Research, Bangalore
  Mr. Joseph Machnaim has 17 years of industry experience, with both leadership and technical design experience of turbo machinery for Aviation, Power, wind and Oil & Gas. He is currently working as a Principal Engineer in the Aero Thermal team at GE Global Research in Bangalore. He has been providing futuristic turbo machinery design solutions for application in Power, Aviation, Wind, Oil & Gas and Biosciences and has led external research collaborations with Universities outside of India and initiated projects with both GE and international funding. He has also initiated 2 local engineering technical forums between Research and engineering teams, leading to faster resolution of challenges by leveraging and applying technologies through the GE Store. He has facilitated business bridge assignments for team members to accelerate technical career growth and product design exposure. Moreover, he is developing physics based Digital Kernels to provide innovative fast paced design solution for futuristic product designs. He has led product design for Aviation LPTs and TCFs for next gen engines like PP20, LEAP1A, 1B&9X and established Start-Of-Art methods for predicting blade tip deflection within 10% of blade response data for synchronous and non-synchronous blade excitation. He has also developed modeling methods for centrifugal compressors with particle erosion.
  He holds a diploma (Lakshmi Ammal Polytechnic), B.E (Bharathiyar University) and M.E(University of Madras) in mechanical engineering.
  He holds 4 Patents in the Area of Turbine Design to enhance performance. He has co Authored 2 AIAA papers and 1 conference paper at ASME TURBOEXPO. He has won 6 technical and 7 management GE internal awards. He was the chair (2015-17) of ASME GT India Group; He led and coordinated the yearly Gas Turbine conference from 2012 - 2015. He leads Student GT seminars across India

- **Prof. Amitava Datta**, Professor, Power Engineering Department, Jadavpur University
  Dr. Amitava Datta is a professor in the Department of Power Engineering of Jadavpur University. He completed his graduate education in Mechanical Engineering from Jadavpur University and his PhD from IIT Kharagpur. Dr. Datta is a recipient of Alexander von Humboldt Fellowship In Germany in the year 2000 and worked at Lehrstuehl fuer Technische Thermodynamik in the University of Erlangen Nuernberg. His research interests include the areas of combustion, atomization, energy, thermodynamic modeling and application of CFD in reacting flows, microfluidics and biological flows.
  Dr. Datta is instrumental in setting up the Combustion Laboratory in his department. He is an active researcher and has completed guidance of 14 PhD theses and several Masters theses. He has published 85 peer reviewed research papers in various

International Journals and also presented and published several papers in National and International conferences. He also has authored one text book on Combustion.
Dr. Datta has undertaken several sponsored research projects and has received awards and recognitions from different national and international bodies. He is also involved in various administrative responsibilities in his University. Presently Dr. Datta is serving his second term as Head of Power Engineering Department.

- **Mr. Abdul Nassar**, Managing Director, SoftInWay Turbomachinery Solutions Pvt. Ltd., Bangalore
  Mr. Abdul Nassar has 22 years of Industrial and academic experience. He began his career as a steam turbine maintenance engineer and prior to joining SoftInWay was an Asst. Professor at MSRSAS. He has published more than 23 technical articles in journals and conference and has one patent on aspirated compressors. He is currently responsible for the operations of SoftInWay Inc. in Asia and Middle-east.

- **Mr. Veera Sesha Kumar**, Senior Scientist, NAL, Bangalore
  C. Veera Sesha Kumar is currently working as Senior Scientist at CSIR-National Aerospace Laboratories, Bangalore. He did his B.Tech in Mechanical Engineering from JNTU, Hyderabad and obtained his master's degree in Aerospace Engineering - Structures from Indian Institute of Technology Bombay. He heads Design Office of Propulsion Division and is responsible for all mechanical design activities in the Division. His areas of expertise include structural analysis of turbo machinery components, mechanical design of small gas turbine engine components, detailed design of high speed test rigs, rotor dynamic analysis of high speed rotating machinery, structural qualification of aircraft components and structural design of wind turbine structures including composite blades. He has nearly 50 publications to his credit including NAL internal reports, journals and conferences.

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SCHEDULE

Start Time	End Time	Topic	Speaker
10.00 AM	10.15 AM	Welcome Speech	Prof. Sudipta De
10.15 AM	10.30 AM	ASME GT India Overview	Mr. Hiteshkumar Mistry
10.30 AM	11.45 AM	Basics of Turbomachinery & Role of GT in Power & Oil & Gas Industry	Mr. Hiteshkumar Mistry
11.45 AM	12.00 PM	Tea Break	
12.00 PM	1.00 PM	Turbo machinery Blade Design	Mr. Abdul Nassar
1.00 PM	2.00 PM	Mechanical design aspects in a GT	Mr. Veera Sesha Kumar
2.00 PM	2.45 PM	Lunch Break	
2.45 PM	3.45 PM	Flow and Combustion in Gas Turbine Combustors	Prof. Amitava Datta
3.45 PM	4.30 PM	Numerical Methods in Turbomachinery	Mr. Abdul Nassar
4.30 PM	5.15 PM	Industrial Internet & Digital Twin	Mr. Joseph Machnaim
5.15 PM	6.15 PM	Panel discussion	

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REGISTRATION

The seminar is aimed at undergraduate students **(3rd and 4th years only)**, postgraduate students and research scholars.

Fees: ₹200/- (excluding service charges)

The registration fees includes lunch and snacks

All participants will be given participation certificate

Register here:

Online Payment - https://in.explara.com/e/asme-gt-india-seminar

NEFT Payment - https://goo.gl/forms/TS6aB0Gjeodblr0J3

The last date for registration is **26 Nov, 2018**

CONTACT US

FACULTY CO-ORDINATOR - **Prof. Sudipta De** (**9831245561**), Mechanical Engineering Department, Jadavpur University

JOINT FACULTY CO-ORDINATOR - **Prof. Abhijit Chanda** (**7595891193**), Mechanical Engineering Department, Jadavpur University

STUDENT CO-ORDINATOR - **Raghav Mundhra** (**8820844932**), Mechanical Engineering Department, Jadavpur University

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