

Keynote Speakers

Monday: 14th November 2016

Keynote Session 1



0915-1000 hrs.

***Gas Turbine Technology Enabling
Global Transformation?***

Prof. Reza Abhari, ETH Zurich



1000-1045 hrs.

***C919/LEAP-1C Aircraft Engine
Development***

Dr. Xiaoyue Liu, GE Aviation, Shanghai

Tuesday: 15th November 2016

Keynote Session 2



0915-1000 hrs.

***Evolving technology reliably and
systematically***

Mr. Vinod Philip, Siemens AG



1000-1045 hrs.

***Heat Transfer Behavior in Combustors:
Challenges and Opportunities***

Prof. Srinath Ekkad, Virginia Tech.

Forum Sessions

Tuesday: 15th November 2016

Forum 1

1400-1530 hrs.

Energy Strategies of China, India, Japan and Korea

Session Chair: Prof. Shantanu Bandyopadhyay, Department of Energy Sciences and Engineering, IIT Bombay

Panelists:

1. Korea: **Prof. Jintaek CHUNG**, Dean, Korea University, and President-Elect, KSFM
2. Japan: **Mr. Yoshiaki Tsukuda**, Executive Corporate Advisor, Mitsubishi Heavy Industries, Japan
3. China: **Dr. Weiguang Huang**, SARI, Sanghai, China
4. India: **Mr. Jitendra Bijlani**, Director, LM Turbines-Canada (India Division), Bangalore

Wednesday: 16th November 2016

Forum 2

0900-1030 hrs.

Aero-engine developments of China, India, Japan and Korea

Session Chair: Dr. Mani Subramanian, Quest Global, USA

Panelists:

1. Korea: **Dr. Chan Sun Lim**, Director, Hanwha Techwin, Korea
2. Japan: **Mr. Hisao Futamura**, Director, Propulsion Research Unit, Aeronautical Technology Directorate of JAXA (Japan Aerospace Exploration Agency)
3. China: **Prof. Lin Feng**, Chinese Academy of Sciences, Beijing
4. India: **Mr. M Z Siddique**, Director, Gas Turbine Research Establishment, GTRE, Bangalore, India

ACGT2016
14-16th November 2016
Indian Institute of Technology Bombay

Detailed Technical Program

<p align="center">Monday, 14th November 2016 VMCC MAIN AUDITORIUM 0900-1045 hrs.</p>		<p>Opening Remarks: Prof. Bhaskar Roy, Chairman ACGT 2016 (0900-0915 hrs.)</p>		
		<p>Keynote Session 1: Session Chair: Prof. Seung Jin Song, Seoul National University, Korea 0915-1000 hrs.: Prof. Reza Abhari, ETH Zurich 1000-1045 hrs.: Dr. Xiaoyue Liu, GE Aviation, Shanghai</p>		
<p>Tea/coffee break: 1045-1100hrs., VMCC Foyer, 2nd Floor</p>				
<p>Monday</p>		<p>1100-1300 hrs.</p>		
	<p>Turbomachinery 1: Axial Flow Compressors</p>	<p>Combustion 1:</p>	<p>Special Topics 1:</p>	<p>Computational Methods in Turbomachines</p>
	<p>Room No: 21</p>	<p>Room No: 22</p>	<p>Room No: 23</p>	<p>Room No: 31</p>
	<p>Session Chair: <i>Q H Nagpurwala</i></p>	<p>Session Chair: <i>Feng Lin</i></p>	<p>Session Chair: <i>Ichiro Miyoshi</i></p>	<p>Session Chair: <i>Joseph Mathew</i></p>
1100	<p>ACGT2016-2 Numerical Studies to Understand an Effect of Rotor-Stator Axial Gap on the Performance of Transonic Axial Flow Compressor Stage Coupled with Circumferential Grooved Casing Treatment <i>Anand P Darji, Dilipkumar B Alone and Chetan S Mistry</i></p>	<p>ACGT2016-11 Investigations of Lean Turbulent Premixed Flame Combustor <i>Utsav Rao, Pramod Kuntikana, Sreedhara Sheshadri and Siddini Venkatesh Prabhu</i></p>	<p>ACGT2016-62 The development of mandrel-free hot spinning <i>Yoshihide Imamura, Hayato Iwasaki, Yuto Sakane, Ken Ikawa, Toshirou Tsuji, Takeo Hirakawa and Hideyuki Ogishi</i></p>	<p>ACGT2016-10 Basic validation on high resolution scheme for turbine cascade with laminar-turbulence transition <i>Naoki Tani</i></p>
1120	<p>ACGT2016-3 Flow Behaviour in a Single Stage Transonic Axial Flow Compressor with Diminishing to Large Rotor Tip Clearances in the Presence of Axisymmetric Circumferential Grooved Casing Treatment <i>Mitesh K Goswami, Dilipkumar Bhanudasji Alone</i></p>	<p>ACGT2016-26 Numerical Study of Small Scale Combustor with Wall Heat Recirculation <i>Jitendra Chaudhari and Salim Channiwala</i></p>	<p>ACGT2016-63 Steady State and Dynamic Simulation of Helium Compression Test Loop <i>Zhu Yubo and Zhang Jingxuan</i></p>	<p>ACGT2016-12 LES Investigation of the Wake Passing Effects on Low Pressure Turbine Cascade <i>Kotaro Matsui, Naoki Tani and Mizuho Aotsuka</i></p>

1140	<p>ACGT2016-9 Effects of Inlet Distortion on Axial Compressor Stability and Stall Margin Enhancement with SPS Casing Treatment</p> <p><i>Xu Dong, Fanyu Li, Dakun Sun and Xiaofeng Sun</i></p>	<p>ACGT2016-29 Swirl Flow Characteristics In A Can Type Combustion Chamber Of Gas Turbine</p> <p><i>Chetan Chawane, Msn Murthy, Nitin Gulhane, S. V. Prabhu, S. Sreedhara</i></p>	<p>ACGT2016-72 A Comparative Design Of Closed Brayton Cycle For A 100mw (Th) Thorium-Based Molten-Salt Reactor</p> <p><i>Jingxuan Zhang and Tingfeng Ke</i></p>	<p>ACGT2016-19 Application of a High Order LES Model to Study Unsteady Flow Separation Control in Low-Pressure Turbine</p> <p><i>Debasish Biswas and Tomohiko Jimbo</i></p>
1200	<p>ACGT2016-40 Flow Studies on Diverse Radial Skewed Angle of a Slotted Casing Treatment Coupled to a Transonic Axial Flow Compressor Stage</p> <p><i>Darshan Ajudia, Dilipkumar Bhanudasji Alone and Harish Choksi</i></p>	<p>ACGT2016-32 Combustion and Emission Characteristics In Upward Swirl Can Type Gas Turbine Combustor With Different Fuel Injector Configurations</p> <p><i>Parag Rajpara, Rupesh Shah, Jyotirmay Banerjee and Ankit Dekhatawala</i></p>	<p>ACGT2016-95 Parametric Analysis Of A Hydrokinetic Helical Turbine Through Numerical Simulation</p> <p><i>Parag K. Talukdar, Dhanjita Medhi, Vinayak Kulkarni and Ujjwal K. Saha</i></p>	<p>ACGT2016-41 Development of a Compressible Large-Eddy Simulation Code with Overset Mesh Methodology</p> <p><i>Atsushi Tateishi, Toshinori Watanabe and Takehiro Himeno</i></p>
1220	<p>ACGT2016-57 Numerical Investigation Of Transonic Tandem Stator Cascades</p> <p><i>Kirubakaran P, Joseph Mathew</i></p>	<p>ACGT2016-39 Experimentation Of Flame Stabilization Using Porous Material For Afterburner Application</p> <p><i>Parammasivam K M, Abdul Basidh, Suganya G and Devanathan D</i></p>	<p>ACGT2016-104 Gas Turbine Power Generation System firing Ammonia-Methane Mixture</p> <p><i>Norihiko Iki, Osamu Kurata, Takayuki Matsunuma, Takahiro Inoue, Taku Tsujimura, Hirohide Furutani, Hideaki Kobayashi and Akihiro Hayakawa</i></p>	<p>ACGT2016-121 Performance of a Compressor Blade at low Reynolds Number by LES</p> <p><i>Subrata Sarkar</i></p>
1240	<p>ACGT2016-134 Effects Of Surface Roughness On Downstream Evolution Of Loss And Deviation In A Linear Compressor Cascade</p> <p><i>Dongjae Kong, Heechan Jeong, Seung Jin Song</i></p>	<p>ACGT2016-117 Characterization of Pressure Swirl Atomization Using Optical Diagnostics</p> <p><i>Ashish Gautam, Hrishikesh Gadgil</i></p>	<p>ACGT2016-106 Configuration And Performance Studies On Smart Squeeze Film Dampers</p> <p><i>Soujanya Jadhav, Sadanand Kulkarni, Ashok Hulagabali and Manikandan L P</i></p>	<p>ACGT2016-124 LES: Effects Of Migrating Wake And Reynolds Number On A High-Lift LPT Blade</p> <p><i>Subrata Sarkar</i></p>

Lunch: 1300-1400 hrs., VMCC Foyer, 1st Floor

Monday

1400 – 1520 hrs.

	Turbomachinery 2 Axial Flow Compressors	Turbomachinery 3: Turbines	Heat Transfer 1:	Computational Methods: Combustion
	Room No: 21	Room No: 22	Room No: 23	Room No: 31
	Session Chair: <i>Toshinori Watanabe</i>	Session Chair: <i>U K Saha</i>	Session Chair: <i>BVSSS Prasad</i>	Session Chair: <i>Subrata Sarkar</i>
1400	ACGT2016-4 Performance Enhancement of a Transonic Axial Compressor Stage with Gurney Flaps at Rotor Blade Trailing End <i>Mudassir Ahmed M. Rafeeq and Quamber H. Nagpurwala</i>	ACGT2016-14 Effects of Radiation, Inlet Swirl, and Inlet Temperature Distortion on the Conjugate Heat Transfer Simulation of a 1st Stage Turbine Vane <i>Zhongran Chi, Haiqing Liu, Bing Ge and Shusheng Zang</i>	ACGT2016-21 Geometric Effect of Airfoil Heat Exchanger on Heat Transfer <i>Yu Ito, Kosuke Fukazawa, Hitoshi Nakanishi and Takao Nagasaki</i>	ACGT2016-30 Numerical Analysis of the effect of gravity on a laminar diffusion flame using OpenFOAM <i>T.S Arul, Sankar Raju, Naveen Yesudian and S. Soma Sundaram</i>
1420	ACGT2016-5 Investigations on the Performance Degradation of a Transonic Axial Flow Compressor Stage due to Blade Surface Roughness <i>Ravi J Chotalia, Dilipkumar Bhanudasji Alone and Harish S Choksi</i>	ACGT2016-25 Optimization of Fillet to Reduce Secondary Flow Loss of Turbine Cascade <i>Kakeru Kusano, Keisuke Sakata, Hiroharu Ooyama, Yutaka Kawata</i>	ACGT2016-36 Experimental Study Of Heat Transfer Using Hexagonal Shaped Pin Fins With Different Materials <i>Vijaya Kumar Reddy K, Sudheer Prem Kumar Bellam, Ravi Gugulothu and Narsing Rao P</i>	ACGT2016-37 Modeling Soot Formation Using Method Of Moments In Turbulent Natural Gas/Air Flame <i>Rohit Saini, Ashoke De, Rakesh Yadav</i>
1440	ACGT2016-6 Performance Characterisations of a High Speed Axial Flow Compressor Stage Implemented With Diverse Porosities of Axial Slotted Casing Treatment	ACGT2016-48 Influences of Deteriorations of Stators and Rotors of a Gas Turbine <i>Koichi Yonezawa, Genki Nakai, Tomoki Kagayama, Kazuyasu Sugiyama, Katsuhiko Sugita and Shuichi Umezawa</i>	ACGT2016-42 Experimental Studies On Endwall Film Cooling In A Gas Turbine Cascade With Cylindrical Holes <i>Parammasivam K M, Ramkumar S, Gowtham M and Devanathan D</i>	ACGT2016-38 Prediction Of No Emission In Sandia Flame Series (D-F) Using Eddy Dissipation Concept Model <i>Rohit Saini and Ashoke De</i>

	<i>Jeffrey Savio Joseph, Dilipkumar Bhanudasji Alone, Chetan S Mistry</i>			
1500	ACGT2016-7 Performance Analysis of Single Stage Transonic Axial Flow Compressor Subjected to Different Axial Extensions of Lower Porosity Axial Skewed Casing Treatment <i>Revanth Rallapalli, Dilipkumar Bhanudasji Alone and Harish S Choksi</i>	ACGT2016-50 Numerical Simulation of Cooling Flow in a High Pressure Turbine Using Source Term Method <i>Prathapanayaka Rajeevalochanam, Agnimitra Sunkara S N</i>	ACGT2016-70 Effect Of Hole Angle On Effusion Cooling Effectiveness Over Combustion Chamber Liner Flat Plate <i>Arjun Ck, Giridhara Babu Yepuri, Felix Jesuraj, Jayakumar J. S.</i>	ACGT2016-46 Combustion in thermally and compositionally stratified mixture: A 2D DNS study <i>Jagmohan S. Rao, Kedar G. Bhide and S. Sreedhara</i>
Tea/coffee break: 1520-1540 hrs., VMCC Foyer, 2ndFloor				
Monday				1540-1740 hrs.
	Turbomachinery 4: Centrifugal/mixed flow	Intakes and Nozzles 1:	Heat Transfer 2:	Design and Development:
	Room No: 21	Room No: 22	Room No: 23	Room No: 31
	Session Chair: <i>Joseph Machnaim</i>	Session Chair: <i>Aniruddha Sinha</i>	Session Chair: <i>Jae Su Kwak</i>	Session Chair: <i>Vilas Kalamkar</i>
1540	ACGT2016-8 Design and Numerical Analysis of Mixed flow Compressor Impeller for Small Gas Turbine Engine <i>Venkatesh Kaki, Salim Channiwala</i>	ACGT2016-60 Study on Reduction of Boundary Layer Separation at Exhaust Diffuser Wall <i>Naonori Nagai and Daigo Fujimura</i>	ACGT2016-47 Experimentation Of Flame Stabilization Using Porous Materials By Image Processing Technique For Afterburner Applications <i>Parammasivam K M, Suganya Gunasekar, Devanathan Devarasu and Abdul Basidh N</i>	ACGT2016-1 Development of A Hot-Gas Generator System For Versatile Turbine Test Rig <i>Prathapanayaka R, Vinod Kumar Nanjundaiah, Agnimitra Sunkara S N, Narendra Sharma, Santosh Kumar Sahadevan, Kishor Kumar and Krishnamurthy Settisara Janney</i>
1600	ACGT2016-17 Effect of Relative Velocity Ratio on the Performance of	ACGT2016-65 Fluidic Thrust Vectoring in a Shallow Single Serpentine Nozzle with Elliptic Exit and Aft-Deck	ACGT2016-52 Conjugate Heat Transfer Analysis on Surface Air Cooled Oil Cooler	ACGT2016-18 Development of Bell Mouth for Low Speed Axial flow Compressor Testing Facility

	Centrifugal Impeller Operating with Supercritical CO2 <i>Haiqing Liu, Zhongran Chi, Jingxuan Zhang</i>	<i>P. Rajkumar, T. Chandra Sekar, Abhijit Kushari, Bhavik Mody, Biju Uthup</i>	<i>Hiroto Saito, Toshinori Watanabe, Takehiro Himeno, Chihiro Inoue, Susumu Tomida and Norio Takahashi</i>	<i>Chetan Mistry, Sahil Patel, Arpit Lad, Apurva Tiwari</i>
1620	ACGT2016-22 A Three-Dimensional Computational Study of Flow inside a Single and Double Entry Turbine Volute <i>Samip Shah, Digvijay Kulshreshtha and S. A. Channiwala</i>	ACGT2016-66 Three Axis Nozzle Thrust Measurement Facility <i>Rajat Arora, Ramraj H Sundararaj, T. Chandra Sekar, M. C. Keerthi and Abhijit Kushari</i>	ACGT2016-55 An Experimental Study of Mist/Air Cooling On a Flat Plate With Combined Impingement and Film Cooling <i>Kapil Somani, Mallikarjuna Rao P and B.V.S.S.S Prasad</i>	ACGT2016-24 Effect of Blade Design on Counter Rotating Axial Fan <i>Masaaki Onaka, Akiyoshi Morita and Yutaka Kawata</i>
1640	ACGT2016-33 Numerical Studies on Improving the Stable Operating Range of a Centrifugal Compressor <i>S. M. Gunadal and M. Govardhan</i>	ACGT2016-97 Characterization of an Underexpanded Jet Issuing from a Serpentine Elliptic Nozzle <i>Nageswara Rao and Abhijit Kushari</i>	ACGT2016-61 Simultaneous Enhancement of Internal Heat Transfer and Film Cooling with Combination of Densely Arranged Rib Turbulator and Cooling Extraction <i>Katsuhiko Ishida and Tomoko Tsuru</i>	ACGT2016-67 Design and characterization of an annular cascade tunnel <i>M. C. Keerthi, Ramraj H. Sundararaj, T. Chandra Sekar, Rajat Arora, Abhijit Kushari</i>
1700	ACGT2016-77 Influences of blade backface clearance and scallop size on aerodynamic performance of a deeply scalloped high pressure ratio radial turbine <i>Kang Yang, Chuang Gao, Tianhua Zheng and Haosen Yang</i>	ACGT2016-13 A Review on Design of Baffles for Shell and Tube Heat Exchangers <i>Ravi Gugulothu, Naga Sarada Somanchi and Vijaya Kumar Reddy K</i>	ACGT2016-69 Effect of turbulence intensity on Adiabatic film cooling effectiveness over effusion cooled flat plate <i>Shalini Lath, Felix Jesuraj, Giridhara Babu Yepuri and Vinod Kumar Kattimani</i>	ACGT2016-81 Mechanical Design and Analysis of Ceramic blades for an Axial Turbine Rotor <i>Prathapanayaka R, Jai Maruthi Revanna and Manjunatha Byrappa</i>
1720	ACGT2016-133 Effect of Tip Leakage and Secondary Flow Interaction on the Performance and Stability of a Transonic Axial Compressor Stage	ACGT2016-35 Experimental Investigation Of Heat Transfer Augmentation In A Circular Tube Using Rotating Twisted Tape Insert	ACGT2016-145 Heat transfer augmentation in a 2:1 ribbed cannel using non-uniform inlet flow <i>Young Jun Kang, Han Na Jang, Jung Shin Park, Jae Su Kwak</i>	ACGT2016-80 The Design and Modification of a MW Scale Small Gas Turbine Combustor <i>Weihao Wang, Chuang Gao, Weiguang Huang</i>

S. Subbaramu, H. K. Narahari, Mahesh K. Varpe, Quamber H. Nagpurwala	Naga Sarada Somanchi, Ravi Gugulothu and Jayakrishna P		
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Tuesday, 15th November 2016 VMCC MAIN AUDITORIUM 0915-1045 hrs.	Keynote Session 2: Session Chair: Prof. Toshinori Watanabe, University of Tokyo, Japan 0915-1000 hrs.: Mr. Vinod Philip, Siemens AG 1000-1045 hrs.: Prof. Srinath Ekkad, Virginia Tech, USA
Tea/coffee break: 1045-1100hrs., VMCC Foyer, 2nd Floor	

Tuesday		1100-1300 hrs.		
	Turbomachinery 5: Axial Flow Compressors	Combustion 2:	Special Topics 2:	Heat Transfer 3:
	Room No: 21	Room No: 22	Room No: 23	Room No: 31
	Session Chair: <i>Chetan Mistry</i>	Session Chair: <i>Salim A Channiwala</i>	Session Chair: <i>Yu Ito</i>	Session Chair: <i>Chiyuki Nakamata</i>
1100	ACGT2016-68 Numerical Study of Effect of Adjacent Blades Oscillation in a Compressor Cascade <i>Shubham, M. C. Keerthi, Abhijit Kushari</i>	ACGT2016-23 Numerical Investigation of Effect of Reynolds Number on Noise from Turbulent Non-Premixed Hydrogen Jet Flames <i>Abhishek L. Pillai, Masaya Muto, Ryoichi Kurose</i>	ACGT2016-108 Numerical investigation to improve off-deign efficiency of Automotive Micro-Gas Turbine <i>Rohit Thakran, M. Govardhan</i>	ACGT2016-84 Numerical investigation of heat transfer across a staggered array of noble short pin fins <i>Abhilash Maiti, B.V.S.S.S Prasad</i>
1120	ACGT2016-74 An Experimental Study Of The Flow Instability Characteristics In A Multistage Helium Compressor <i>Su Yang, Zhang Jingxuan, Huang Weiguang, Zhu Yubo</i>	ACGT2016-51 Effect of base plate flow field on combustion noise in gas turbine combustor <i>Srihari Dinesh Kumar Juvva, Sathesh Mariappan and Abhijit Kushari</i>	ACGT2016-113 Numerical Optimization of Semicircular-bladed Savonius Rotor using Vent Augmenters <i>Nur Alom and Ujjwal K. Saha</i>	ACGT2016-86 Secondary Flow Visualization on Leading Edge of a Combined Impingement and Film Cooled High Pressure Gas Turbine Nozzle Guide Vane <i>Pol Reddy Kukutla, Shafeer Ambat, Prasad B.V.S.S.S</i>

1140	ACGT2016-76 Experimental and Numerical Investigation of Low-Speed Three-Stage Axial Compressor <i>Yasunori Sakuma, Toshinori Watanabe, Takehiro Himeno</i>	ACGT2016-56 Thermal Design of Cooling Configuration for an Aero engine Afterburner Corrugated Liner <i>Batchu Suresh, Kishore Kumar S, Kesavan V, Kishore Prasad D</i>	ACGT2016-120 Application of 3D Printing Measurement Blades for High Speed Axial Compressor Test Rig <i>Satoshi Yamashita, Masamitsu Okuzono and Ryosuke Mito</i>	ACGT2016-127 Flow and Heat Transfer Characteristics on a Surface of Mounting Single Row of Inclined Pins in Rectangular Channel <i>Pathomporn Narato, Makatar Wae-Hayee, Passakorn Vessakosol and Chayut Nuntadusit</i>
1200	ACGT2016-82 Effect of Axial-spacing of Vortex Generators over the Operating Range of a Transonic Axial Compressor Stage <i>Rohit Sankaran, Shobhavathy M.T and Ajith Kumar R</i>	ACGT2016-31 Role of entropy waves in the stability of thermoacoustic interactions <i>Balasubramanian Singaravelu, Sathesh Mariappan and Avijit Saha</i>	ACGT2016-142 Performance Variation Of A Micro Gas Turbine Due To Internal Leakage <i>Min Jae Kim, Jeon g Ho Kim and Tong Seop Kim</i>	ACGT2016-91 Numerical Investigations On Combustor Liner Heat Transfer In A Gas Turbine Aero Engine <i>Narayana Rao K V L, B V S S S Prasad, Ch Kanna Babu and Girish K Degaonkar</i>
1220	ACGT2016-87 Design and Analysis of load Compressor for Aircraft Auxiliary Power Unit <i>Meha Setiya, Beena Baloni and Salim Channiwala</i>	ACGT2016-90 Adaptive Control of Longitudinal Instabilities in Combustors <i>Tarun Ashutosh, Salil Harris, Aniruddha Sinha</i>	ACGT2016-143 A Performance Diagnostic Logic For Gas Turbines and Its Validation Using Virtual Operating Data <i>Jae Hong Lee, Do Won Kang, Tong Seop Kim</i>	ACGT2016-98 Experimentation Of Flame Stabilization Using Strong Swirl For Afterburner Application <i>Parammasivam K M, Devanathan D, Suganya G, Abdul Basidh N</i>
1240	ACGT2016-96 Surge Margin Improvement Of Axial Flow Compressor Using Circumferential Groove Casing Treatment <i>Kirubakaran P, Ajay Pratap</i>	ACGT2016-92 Control of Thermoacoustic Instabilities in Annular Combustors <i>Ishan Rakshit and Aniruddha Sinha</i>		ACGT2016-146 Numerical Simulations Of Flow And Heat Transfer In Blade Passage With And Without Leading Edge Fillets <i>Seok Min Choi, Ho-Seong Sohn, Minho Bang, Eui Yeop Jung, Hyung Hee Cho</i>
Lunch: 1300-1400 hrs., VMCC Foyer, 1st Floor				

Tuesday, 15th November 2016 VMCC MAIN AUDITORIUM 1400-1530 hrs.	Forum Session 1: <i>Energy Strategies of China, India, Japan and Korea</i> Session Chair: Prof. Shantanu Bandyopadhyay, Energy Sciences and Engineering, IIT Bombay
Tea/coffee break: 1530-1600 hrs., VMCC Foyer, 2nd Floor	

Tuesday		1600-1800 hrs.	
	Turbomachinery 6: Centrifugal/mixed flow Room No: 21 Session Chair: <i>Ajay Rao</i>	Turbomachinery 7: Turbines Room No: 22 Session Chair: <i>Prathapanayaka R</i>	Heat Transfer 4: Room No: 23 Session Chair: <i>Takashi Yamane</i>
1600	ACGT2016-53 Effect of Vortex Generators On The Flow Over The Stator Blade Surface Of An Axial Flow Compressor <i>Shrinidhi Gulvadi and Deepti Rajguru</i>	ACGT2016-54 Effect Of Lean And End-Wall Contouring On The Performance Of A Typical High Pressure Turbine <i>David John, Bharathan R D, Sharad Kapil</i>	ACGT2016-123 Improvement of flat-plate film cooling performance by double flow control devices under high density ratio <i>Funazaki Ken-Ichi, Takisawa Hayato, Sasaki Hirokazu, Kawamura Tomohiro, Tagawa Hisato, Nakano Susumu</i>
1620	ACGT2016-89 Study of Effect of Tip Clearance on highly loaded Mixed Flow Compressor <i>Gourav Mithare, Sanjeev Palekar, Logesh N, Rajesh Emandi</i>	ACGT2016-73 Aerodynamic Design And Secondary Loss Control Of A Multistage Small Helium Turbine <i>Tingfeng Ke, Jingxuan Zhang</i>	ACGT2016-126 Flow characteristic on a low heat transfer region behind pitched and skewed jets exit <i>Ni-Oh Puzu, Suteera Prasertsan and Chayut Nuntadusit</i>
1640	ACGT2016-94 Flow studies in a Mixed Flow Compressor Stage For Small Gas Turbine Applications <i>Logesh N, Rajesh Emandi, Rajendran R</i>	ACGT2016-112 Reduction of Secondary Flow Losses in a Linear Turbine Cascade by Variable End wall Contouring- A CFD Study <i>Kiran K. N, Sushanlal Babu, Deepak Narayanan, Anish S</i>	ACGT2016-88 CFD Analysis And Prediction Of High Pressure Turbine Nozzle Guide Vane Film Cooling Effectiveness <i>Anand Francis, Batchu Suresh, Jayakumar J. S.</i>

1700	ACGT2016-119 Influences of Steam Injection on the Stability of a Centrifugal Compressor with Vaned Diffuser <i>Chuang Gao and Weiguang Huang</i>	ACGT2016-129 Numerical Investigations of Flow Structure in a Rotating Labyrinth Gas Turbine Seal with Centrifugal Growth <i>Sivakumar Subramanian, A. S. Sekhar and Prasad Bvsss</i>	ACGT2016-139 Parametric Study Of Heat Recovery Steam Generator <i>Yamini Sajja, A V S S K S Gupta, Ravi Gugulothu and B Srinidhi</i>
1720	ACGT2016-128 Combined influence of vaneless diffuser and width ratio on the loss mechanism and flow characteristic of a centrifugal blower parallel wall volute <i>Hariharan C, Govardhan M</i>	ACGT2016-79 Turbine Blade-Vane Interaction and Creep Analysis of ZK2000 All Radial Gas Turbine <i>Zhengjun Gu, Kang Yang, Chuang Gao and Weiguang Huang</i>	ACGT2016-147 Experimental Investigation of Rotating Rib Roughened Two- Pass Duct (AR 1:2) Featuring Non-Uniform Spatial Distribution of V-shaped Rib Turbulators <i>Prashant Singh, Srinath Ekkad</i>
1740	ACGT2016-148 Aero-Mechanical Design And Analysis Of Mixed-Flow Compressor Impeller Of 6:1 Pressure Ratio For Specific Speed And Geometrical Constraint <i>Vishal Doshi, Emandi Rajesh</i>	ACGT2016-131 Evaluation of metal temperature of High Pressure Turbine - Nozzle Guide Vane <i>Vimala Narayanan, Ritesh Gaur and D Kishore Prasad</i>	ACGT2016-132 CFD-CHT Studies for evaluating the influence of conducting metal surface temperature <i>Vimala Narayanan, Yogesh TV, Sethumanavalan V and D Kishore Prasad</i>

Wednesday, 16th November 2016 VMCC MAIN AUDITORIUM 0900-1030 hrs.	Forum Session 2: Aero-engine developments of China, India, Japan and Korea Session Chair: Dr. Mani Subramaniam, Quest Global, USA
Tea/coffee break: 1030-1100 hrs., VMCC Foyer, 2nd Floor	

Wednesday		1030-1300 hrs.	
	Turbomachinery 8: Axial Flow Compressors	Combustion 3:	Special topics 3:
	Room No: 21	Room No: 22	Room No: 23
	Session Chair: <i>Seung Jin Song</i>	Session Chair: <i>Norihiko Iki</i>	Session Chair: <i>Xiaoyue Liu</i>
1100	ACGT2016-102 Study of Controlled Diffusion Airfoil effect on NASA Stage 35 compressor performance <i>Prathapanayaka Rajeevalochanam, Yashas C R, Antonio Davis</i>	ACGT2016-116 Parametric CFD studies on a gas turbine slinger combustor <i>Pankaj Alase, Rampada Rana, Sivaramakrishna Gullapalli and Thundil Karuppa Raj R</i>	ACGT2016-58 Expanding Fuel flexibility of MHPS' Dry Low NOx Combustor <i>Kei Inoue, Tomo Kawakami, Katsuyoshi Tada, Keiji Saitoh, Satoshi Tanimura</i>
1120	ACGT2016-109 Numerical Investigation Of Variable Tip Clearance Effect On Stability Of A Transonic Axial Flow Compressor <i>Agarwal Ruchika, Goswami Shraman</i>	ACGT2016-122 Numerical Performance Study of Prediffuser Downstream of a Transonic Axial Flow Compressor <i>A T Sriram, Manjunath D C</i>	ACGT2016-64 Development of Copper Slug Calorimeter <i>C Jayaprakash, P Pratheesh Kumar, J Srinivas and P Manjunath</i>
1140	ACGT2016-114 Design Of Transonic Axial Flow Compressor Using Genetic Algorithm Method <i>Nitin Balsaraf and S. Kishore Kumar</i>	ACGT2016-140 Comparison of Spray Characteristics of Kerosene, Ethanol and 20 % Ethanol Blended Kerosene using a Hybrid Atomize <i>Amlan Garaj, Shinjan Ghosh, Swarnendu Sen and Achintya Mukhopadhyay</i>	ACGT2016-78 Modelling Of LUBRICATION SYSTEM OF A Small GAS TURBINE <i>Haosen Yang, Yufang Liu, Chuang Gao, Weiguang Huang</i>
1200	ACGT2016-136 Stall Evolution and Propagation of Low Speed Contra Rotating Axial Flow Fan <i>Tegegn Dejene Toge, Pradeep A M</i>	ACGT2016-141 Extinction Condition Of Nitrogen-Diluted Lpg-Air Non-Premixed Counterflow Flame <i>Sourav Sarkar, Subham Tibriwala, Soudeep Dhar, Swarnendu Sen and Achintya Mukhopadhyay</i>	ACGT2016-144 Thermodynamic performance analysis of hybrid gas turbine combined power plant using s-CO2 power cycle <i>Seon Ho Kim, Hokyu Moon, Kyung Min Kim, Hyung Hee Cho</i>
Conference Closure: VMCC Main Auditorium: 1220-1240 hrs.			
Lunch: 1240-1400 hrs., VMCC Foyer, 1st Floor			