

Programme Schedule FFIA 2021

DAY 1: 9 Nov 2021

9:00 - 9:55am	Inaugural Function	
Technical Session 1		Chaired By: K.K. Ray
10:00-10:45am	Fatigue & Fracture Behaviour of Improved High-Temperature Materials for the Indian Fast Breeder Reactor and Advanced Ultra Super Critical Power Plant Programmes	Dr. A. K. Badhuri <i>Formerly-Director, Indira Gandhi Center for Atomic Research, Kalpakkam, India</i>
11:00-11:45am	Structural Integrity of Defence Platforms — An Integrated Approach	Dr. Vikas Kumar Saxena <i>Formerly -Director, Defence Metallurgical Research Laboratory, Hyderabad, India</i>
12:00 - 2:00 pm	Lunch Break	
Technical Session 2		Chaired By: C.M. Manjunatha
2:00-2:45pm	TBC	Dr. N. Eswara Prasad <i>Director, Defence Materials and Stores R&D Establishment, Kanpur, India</i>
3:00 - 3:45pm	TBC	Prof. Raghu V Prakash <i>Indian Institute of Technology-Madras, Chennai, India</i>
4:00-6:00pm	Tea Break	
Technical Session 3		Chaired By: S.Tarafder
6:00-6:45pm	Failure Mechanisms of Printed Circuit Heat Exchangers under High-Temperature Loading of Generation IV Nuclear Power Plants	Prof. Tasnim Hassan <i>North Carolina State University, USA</i>
7:00-7:45pm	Structural Integrity Issues in Designing Pressure Vessels for Storing Gaseous Hydrogen at Ultra-high Pressures	Prof Ashok Saxena <i>University of Arkansas, USA</i>
8:00-8:45pm	A New Two-Parameter Fatigue Crack Driving Force and its Application to FCG Analysis	Prof. Daniel Kujawski <i>Western Michigan University, USA</i>
End of Day 1 Programme		

DAY 2: 10 Nov 2021

Technical Session 4		Chaired By: Banu Sankara Rao
9:30-10:15am	TBC	Prof. K. Balasubramanian <i>Indian Institute of Technology- Madras, Chennai, India</i>
10:30-11:15am	An Improved Indentation Algorithm to Characterize Materials	Dr. J. Chattopadhyay <i>Bhabha Atomic Research Centre, Mumbai, India</i>
11:30-11:45am	Tea Break	
Technical Session 5		Chaired by : B.K. Dutta
11:45 - 12:30 pm	Unraveling the Cause of an Aircraft Accident	Dr. Subir Bhaumik <i>National Aerospace Laboratories, Bengaluru, India</i>
12:45-1:30pm	TBC	Dr. S. Tarafder <i>National Metallurgical Laboratory, Jamshedpur, India</i>
1:45-2:30pm	Lunch Break	
Technical Session 6		Chaired By: Subir Bhaumik
2:30-3:15pm	Structural Integrity of 3D Printed Metals	Prof. U. Ramamurthy <i>Nanyang Technological University, Singapore</i>
3:30 - 4:15pm	Fracture and Fatigue issues with High Entropy and Allied Alloys	Prof. K.K. Ray <i>Formerly -Prof, Indian Institute of Technology, Kharagpur, India</i>
4:30 - 5:30pm	Tea Break	
Technical Session 7		Chaired By: J. Chattopadhyay
5:30 - 6:15pm	Evaluating Failure Mechanisms in Aeroengine and Turbine Blade and Disc Materials: Effects of Service Environment	Prof. Philippa Reed <i>University of Southampton, UK</i>
6:30 -7:15pm	Towards a New Fatigue Crack Growth Testing Practice That Accounts for Load History Effects	Dr. R. Sunder <i>Instron-BiSS, Moscow, Russian Federation</i>
7:30 - 8:15pm	Aging Aircraft Systems and Components: Physics of Damage and Failure	Dr. A. Kumar <i>Tecsis Corporation, Ontario, Canada</i>
End of Day 2 Programme		

DAY 3: 11 Nov 2021

Technical Session 8		Chaired By: Raghu V Prakash
9:30-10:15am	TBC	Dr. Banu Sankara Rao <i>University of Hyderabad, India</i>
10:30-11:15am	Advances in Small-Punch-Test Methodology	Dr. B. K. Dutta <i>Bhabha Atomic Research Center, Mumbai, India</i>
11:30-11:45am	Tea Break	
11:45 - 12:30 pm	Fatigue and Damage Tolerance Evaluation of Airframe Materials	Dr. C. M. Manjunatha <i>National Aerospace Laboratories, Bengaluru, India</i>
12:45-1:30pm	Characterisation of Fracture Toughness of 20mnmoni55 Steel in DBT Region Through Experiment and FE Simulation	Prof. Sanjib Acharyya <i>Jadavpur University, Kolkata, India</i>
1:45-4:00pm	Lunch Break	
		Chaired by: I. Chatteraj
4:00-5:00pm	Panel Discussion and Valedictory Session	
5:00 - 5:15pm	Vote of Thanks	