

Time	ID	Title	Chairs, Authors
8:40~9:20		Opening Ceremony	Yasushi Miyano (Kanazawa Institute of Technology), Stephen W. Tsai (Stanford University), Isao Kimpara (Kanazawa Institute of Technology)
9:20~10:00		Session 1 - Composites Structural Design	Masayuki Nakada (Kanazawa Institute of Technology)
		Two Steps for Simultaneous Weight and Cost Reduction for Composite Structures	Stephen W. Tsai (Stanford University)
		Failure Criteria for Isotropic and Anisotropic Materials	Richard M. Christensen (Stanford University)
		Session 2 - Accelerated Testing Methodology	Yasushi Miyano (Kanazawa Institute of Technology)
		Long-term Life Prediction of CFRP Structures based on MMF/ATM Method	Yasushi Miyano, Masayuki Nakada (Kanazawa Institute of Technology) and Hongning Cai (Xi'an Jiaotong University)
10:15~11:15		Advanced Accelerated Testing Methodology for Long-term Life Prediction of CFRP	Masayuki Nakada and Yasushi Miyano (Kanazawa Institute of Technology)
		Modified Time-temperature Superposition Principle for Viscoelasticity of Thermosetting Resins	Hongning Cai (Xi'an Jiaotong University), Masayuki Nakada and Yasushi Miyano (Kanazawa Institute of Technology)
		Session 3 - Micromechanics of Failure	Sung Kyu Ha (Hanyang University)
		A Micro-Mechanics of Failure (MMF) applied to Fatigue Life Prediction for Composite Structures	Kyo Kook Jin, Hayat Khazar, Xu Lei and Sung Kyu Ha (Hanyang University)
11:30~12:30		Strength Prediction of Multi-Axially Loaded Composite Laminate Using a Micromechanics of Failure (MMF) Based Damage Model	Yuanchen Huang, Kyo Kook Jin and Sung Kyu Ha (Hanyang University)
		Fatigue Life Analysis of Multicell Structures made of Composite Materials	Ghulam Mustafa and Sung Kyu Ha (Hanyang University)
12:30~13:50		Lunch and Poster	
		Session 4 - Progressive Failure, Damage and Fracture	T. E. Tay (National University of Singapore)
		The Role of Multiple Crack and Delamination Interactions in the Modeling of CAI Behavior of Composites	C. Li, M. Richa and T. E. Tay (National University of Singapore)
13:50~14:50		A Combined Experimental-Numerical Technique for Determining Mixed Mode Strain Energy Release Rates	Sonya A Brown and Liyong Tong (The University of Sydney)
		Damage Initiation and Evolution in Composite Laminates	Ramesh Taleja (Texas A&M University)
		Session 5 - Damage Tolerance	Isao Kimpara (Kanazawa Institute of Technology)
		Comparative Discussion about Impact Damage of CFRP Laminates with Two Types of Different Ply-Thickness	Hiroshi Saito, Mitsunori Morita (Kanazawa Institute of Technology), Hiroki Takeuchi (Sakai Oves Co. Ltd.), Motosugu Tanaka and Isao Kimpara (Kanazawa Institute of Technology)
15:05~16:05		A Simulation on Impact Damage Process in Thin-ply FRP Laminates Based on In-situ Observation	Kanetsuki Tanaka, Yasushi Ohnishi, Takuma Ikemoto, Manat Kanetsuki (Kanazawa Institute of Technology), Hiroki Takeuchi (Sakai Oves Co. Ltd.), Hiroshi Saito and Isao Kimpara (Kanazawa Institute of Technology)
		Suppression of Crack Initiation for Foam Core Sandwich Panel Joint	Yasuo Hirose (Kanazawa Institute of Technology)
		Session 6 - Reliability	Nobuo Takada (The University of Tokyo)
16:05~17:40		Dynamic FEM Analysis of Damage Initiation, Progress and Perforation Behavior in CFRP Fan Blades Subjected to a Bird-Strike Impact	Sang Chul Park (The University of Tokyo), Masaaki Nishikawa (Tohoku University), Akitori Yoshimura (Japan Aerospace Exploration Agency) and Nobuo Takada (The University of Tokyo)
		Unit Cell Simulation of Fatigue Damage in Short Fiber Reinforced Plastic Composites	Tomonaga Okabe, Masaaki Nishikawa (Tohoku University), Masahiro Hashimoto (Toray Industries, Inc.) and Hiroya Imamura (Tohoku University)
		Numerical Analysis of Impact Response and Damage for Composite Structures	In Lee and Eun-Ho Kim (KAIST)
		Static Failure Prediction for Composite Tensile Specimen Using Strain Amplification Factor	Jungsoo Park (Korea Aerospace University), Myoung-jun Kim (Korea Aerospace University), Hye-kyu Hur and Min-sung Kim (Agency for Defense Development)
17:40~18:30		Poster	
19:00~20:30		Welcome Dinner	

Time	ID	Title	Chairs, Authors
		Session 7 - Time Dependent Materials	Igor Emri (University of Ljubljana)
		Algorithm for Automated Time-Temperature and Time-Pressure Shifting	Marina Gergesova, Ivan Saprunov and Igor Emri (University of Ljubljana)
8:40~10:00		Durability Criterion Based on Strain Accumulation Analysis	Barbara Zupanec and Igor Emri (University of Ljubljana)
		Initial Kinetics Influence on Durability and Temperature Stability of Polyamide 6 Materials	Galina Kubyshkina (Elektromaterial Lendava o.d.), Barbara Zupanec and Igor Emri (University of Ljubljana)
		Viscoelastic Behavior of IM7/5250-4 Composites Before and After Thermal Aging	Hongbing Lu, Huiyang Luo, Fang Wang (The University of Texas at Dallas), Samit Roy (University of Alabama in Tuscaloosa)
		Session 8 - Creep and Relaxation	José Daniel D. Malo (Universidade Federal do Rio Grande do Norte)
		Sub-Scale Testing for the Evaluation of Long-Term Creep-Rupture of Polymers	José Daniel D. Malo and Antonio M. de Medeiros (Universidade Federal do Rio Grande do Norte)
10:15~11:15		Flexure Creep of GFRP Composite Orthodontic Archwires	E. A. Ferreira (Vita Yalta University Center), C. A. Umimi Jr. (State University of Campinas), J. D. Malo (Federal University of Rio Grande do Norte) and E. B. Las Casas (Federal University of Minas Gerais)
		Stress Relaxation Behaviour of Fiber Reinforced Plastics with Damage	Masanori Okano, Masahiro Mito, Hiroyuki Nishimura (Kyoto Institute of Technology) and Yoshimichi Fujii (Osaka Prefectural College of Technology)
		Session 9 - Improvements	Woo Il Lee (Seoul National University)
		Effect of Nano Particles on the Crystallization Kinetics of PLA	Woo Il Lee, Sang Hyeuk Yum and Si Hwan Kim (Seoul National University)
11:30~12:30		Structural Integrity of 3-D Carbon Nanostructures	Sangwook Shim (Air Force Research Laboratory and University of Dayton Research Institute), Vikas Varshney (Air Force Research Laboratory and Universal Technology Corporation), Ailt K. Roy, and Georges Verchery (ISMANS)
12:30~13:50		Lunch and Poster	
		Session 10 - Structures for Aeronautics	Toshio Ogasawara (Japan Aerospace Exploration Agency)
		Fatigue Behavior of Impact-Damaged Carbon Fiber / Toughened Epoxy Composites under Compressive Loading	Toshio Ogasawara, Hisaya Katoh and Takashi Ishikawa (Japan Aerospace Exploration Agency)
13:50~15:10		Durability of Carbon Fiber / Epoxy Composite under the Elevated Temperatures	Hisaya Katoh, Toshio Ogasawara and Takashi Ishikawa (Japan Aerospace Exploration Agency)
		Durability and Damage Tolerance Evaluation of VaRTM Wing Structures	Yuichiro Aoki, Yutaka Iwahori, Sunao Sugimoto, Yosuke Nagao and Takashi Ohnuki (Japan Aerospace Exploration Agency)
		Durability of Aircraft Structural Composites Processed by VaRTM	Kenichi Yoshioka, Masahito Mohiyama and Akihiko Kilano (Toray Industries, Inc.)
		Session 11 - Developments	Jun Takahashi (The University of Tokyo)
		Development of CFRTM for Mass Produced Automobile	Jun Takahashi, Kyoshi Uzawa and Tsuyoshi Matsuo (The University of Tokyo)
15:25~16:45		Research into Multi-Axial Carbon Fiber Prepreg Material for Vehicle Body - Void Rate Reducing Study-	Naoyuki Takahashi, Yuji Kaegayama and Nobuya Kawamura (TOYOTA MOTOR CORPORATION)
		High Temperature Polyimide Matrix Composites	Isayoshi Ozaki (Composites R&D), Koji Mouriuchi, Shinichi Sakane (IST Corporation), Satoshi Uehara and Takashi Yokoyama (Super Resin Inc.)
		Composite Materials - Past and Future -	Junichi Maisu (Kanazawa Institute of Technology)
16:45~16:50		Closing Ceremony	
19:00~19:30		Reception	
19:30~21:30		Banquet	