Time		Monday, October 6				
7:30	8:00	Breakfast				
8:00	9:00	Dr. Dennis Butcher: Composites Additive Manufacturing: A Path to Affordable Mass				
9:00	9:15	Coffee Break				
9:15	9:40	Micromechanics and Multiscale Modeling 1	Impact & Dynamic Response 1	Sustainability of Composites 1	Architected Composites 1	Manufacturing and Process Modeling 1
9:40	10:05					
10:05	10:30					
10:30	10:45	Coffee Break				
10:45	11:10	Micromechanics and Multiscale Modeling 2	Impact & Dynamic Response 2	Sustainability of Composites 2	Architected Composites 2	Manufacturing and Process Modeling 2
11:10	11:35					
11:35	12:00					
12:00	1:15	Lunch - Ohio's Strategic Investments in Composite Technology - Joe Zeis, Senior Advisor for Aerospace and Defense, Office of the Governor of Ohio				
1:15	1:40	Micromechanics and Multiscale Modeling 3	Impact & Dynamic Response 3	Syensqo Student Paper Award	Composite Repair + Effects of Defects	Manufacturing and Process Modeling 3
1:40	2:05					
2:05	2:30					
2:30	2:45	Coffee Break				
2:45	3:10		Impact & Dynamic Response 4	Durability & Damage Tolerance 1	Multifunctional Composites 1	Manufacturing and Process Modeling 4
3:10	3:35					
3:35	4:00					
4:00	4:25					
4:30	5:30	Division Meeting 1	Division Meeting 2	Division Meeting 3	Division Meeting 4	
5:30	7:30	Welcome Reception				

Time		Tuesday, October 7				
7:30	8:00	Breakfast				
8:00	9:00	Mr. Joe Brennan: Advanced composite manufacturing for high rate demand				
9:00	9:15	Coffee Break				
9:15	9:40	Micromechanics and Multiscale Modeling 4	NASA HiCAM Special Session 1	Keynote + Nanocomposites 1	NDE of Composites	AI and ML in Composites 1
9:40	10:05					
10:05	10:30					
10:30	10:45	Coffee Break				
10:45	11:10	Analysis, Testing, and Material Characterization 1	NASA HiCAM Special Session 2	Nanocomposites 2	Thermoplastic Matrix Composites 1	AI and ML in Composites 2
11:10	11:35					
11:35	12:00					
12:00	1:15	Lunch				
1:15	1:40	Analysis, Testing, and Material Characterization 2	Fatigue in Composites 1	Nanocomposites 3	Thermoplastic Matrix Composites 2	
1:40	2:05					
2:05	2:30					
2:30	2:45	Coffee Break				
2:45	3:10	Analysis, Testing, and Material Characterization 3	Fatigue in Composites 2	Durability & Damage Tolerance 2	Multifunctional Composites 2	Additive Manufacturing 1
3:10	3:35					
3:35	4:00					
4:00	4:25					
4:30	5:15	ASC General Membership Meeting				
5:15	6:00	Transportation to AF Museum				
6:00	10:00	ASC Awards Dinner & Banquet				

Time		Wednesday, October 8			
7:30	8:00	Breakfast			
8:00	9:00	Dr. Uday Vaidya: 10 years of IACMI -The Composites Institute – Enabling US Competitiveness in Advanced Composites Technologies			
9:00	9:15	Coffee Break			
9:15	9:40	AI and ML in Composites 3	Composites In Extreme Environments 1	Additive Manufacturing 2	Best Practices and Lessons Learned for Applying Continuum Damage Mechanics to Aerospace Structures
9:40	10:05				
10:05	10:30				
10:30	10:45	Coffee Break			
10:45	11:10	AI and ML in Composites 4	Composites In Extreme Environments 2	Additive Manufacturing 3	Best Practices and Lessons Learned for Applying Continuum Damage Mechanics to Aerospace Structures
11:10	11:35				
11:35	12:00				
12:00	12:25				
12:30	1:30	Lunch			AIAA Structures & Materials TC Technical Meeting

Time	Monday, October 6				
7:30	Breakfast				
8:00	**Dr. Dennis Butcher: Composites Additive Manufacturing: A Path to Affordable Mass**				
9:00	Coffee Break				
	Micromechanics and Multiscale Modeling 1	**Impact & Dynamic Response 1**	**Sustainability of Composites 1**	**Architected Composites 1**	**Manufacturing and Process Modeling 1**
9:15	Utilizing Molecular Dynamics to Assess Adhesion behaviors of GNP/Nickel Interface for Nickel-coated Carbon Fiber Reinforced Aluminum Matrix Composites Aluko, O., Aboelkassem, Y.	Data-Driven Approach for Impactor Shape Classification in Composite Laminates Using Image Analysis Mirza, F., Mack, J., Duan, Z., Hasebe, S., Higuchi, R., Yokozeki, T., Tan, K.	Mechanical Recycling of Carbon FIber Reinforced Composites for a Circular Economy Through a Reduction of 3D Printed Waste Frankowski, A., Tan, K.	Machine learning-assisted multiscale modeling for exploring the structure-property relationships of I-beam lattice metamaterials Kothari, T., Liu, X.	Development and Manufacturing of Composite C-Channel Structures for Aerospace Application using Liquid Composite Molding (LCM) Aldhahri, K., Macchia, A., Young, H., Klosterman, D., Whitney, T.
9:40	Macroscale Shell Element for Adhesively Bonded Joint Design Stapleton, S.	Prediction of Compression After Impact Strength Using Deep Learning on C-Scan Images of Composite Materials Mack, J., Mirza, F., Duan, Z., Hasebe, S., Higuchi, R., Yokozeki, T., Tan, K.	Recycled graphene-polypropylene nanocomposites for automotive application Witkowski, G., Rodriguez, C., Dattilo, V., Yazici, D., Suzuki, R., Makeev, A., Bozlar, M.	Energy Dissipation in Composite Kerf Structures Mantri, K., Crawford, S., Kordick, K., Cooper, M., Kalantar, N., Muliana, A.	Cpupled Thermo-Chemo-Mechanical Analysis of Composite Plate Curing Processing Higher-Order 1D Theories Santori, M., Zappino, E., Zobeiry, N., Petrolo, M.
10:05	Informed Filament Winding Process Tuning Via Parametric Analysis of Filament Wound Repeating Unit Cells (RUCs) Using the NASA Multiscale Analysis Tool (NASMAT) Welsh, M., Jois, K., Bednarcyk, B., Ricks, T., Schuster, J.	Quantification of Damage using micro-CT Images to Inform Numerical Modeling of Low Velocity Impact on Laminates Valdez Loya, O., Davidson, P., Ranatunga, V., Demille, K.	Design and Manufacturing of Hemp-based Insulated Panels for Retrofit Siding Walczyk, D.	Comparative Study of Deformation Behavior in Auxetic Textile-Reinforced Thermoplastic Composites Turbot, B., Rault, F., Boussu, F.	Topology Optimization Suite for Design of Highly Tailored Composites for AFP Manufacturing Prince, J., Jrad, M., Saha, S., Baker, M.
10:30	Coffee Break				
	Micromechanics and Multiscale Modeling 2	**Impact & Dynamic Response 2**	**Sustainability of Composites 2**	**Architected Composites 2**	**Manufacturing and Process Modeling 2**
10:45	Structure-Property-Processing Correlation in Cyanate Ester Using Molecular Dynamics Patil, S., Evers, C., Liang, Z., Odegard, G.	Influence of Cohesive Element Properties on the Impact Response of Hybrid Sandwich Composites Mridha, R., Tan, K.	Targeted thermoplastic-driven repair of delamination cracks in self-healing carbon fiber thermoset composites Suratkar, A.	Additive Manufacturing of Topology Optimized Continuous Carbon Fiber Composites for Aerospace Engine Metal Bracket Replacement Khan, M., Islam, M., Deng, K., Khan, I., Liu, L., Fu, K.	High-Temperature Resin Infusion of Thick Preforms using Heated Mold Z-Flow Aided Resin Transfer Molding Saha, S.
11:10	Fatigue Life Prediction of Short Fiber-Reinforced Thermoplastics using Reduced Order Modeling Pathak, P., Gururaja, S.	Surface Deformations vs Internal Damage From Low Velocity Impacts in AS4/8552 and T1100/LMPAEK Composite Laminates Delaney, M., Kim, H.	Design and Integration of a Hydrogen Fuel Cell Propulsion System in a Composite UAV Platform SAVCI, Z., baskavak, E., baskose, F.	Useful definition for designing 3D woven architecture as fiber reinforcement for composites ABTEW, M., CRISTIAN, I., NAUMAN, S., Boussu, F.	Thermo-Chemical Crack Evolution in IM7/SMP-10 Ceramic Matrix Composites During Pyrolysis via XFEM Modeling Carrillo, C., Castellanos, A.
11:35	Thermal Stress Analysis in Composite Materials with an Anisotropic Inclusion Nomura, S., Chen, L.	PHFGMC-ANN: A Surrogate Modeling Approach for Predicting Impact and Post-Impact Behavior of Hybrid Laminates Hochster, H., Offir, R., Shor, O., Shemesh, N., Ranatunga, V., Haj-Ali, R.			Vibration assisted impregnation of thermoplastic composites in a double belt press Brecher, C., Greive, S., Fischer, K., Emonts, M.
12:00	Lunch - Ohio's Strategic Investments in Composite Technology - Joe Zeis, Senior Advisor for Aerospace and Defense, Office of the Governor of Ohio				
	Micromechanics and Multiscale Modeling 3	**Impact & Dynamic Response 3**	**Syensqo Student Paper Award**	**Composite Repair + Effects of Defects**	**Manufacturing and Process Modeling 3**
1:15	A computational study of interfacial shear failure in fiber-reinforced composites Watson, K., Guven, I.	Computational Modeling of Low Velocity Impact on Hat Stiffened Hybrid Laminated Panels Rahman, M., Ranatunga, V., Waas, A.	Finite Element Modeling of Heat Transfer and Crystallization Kinetics during Automated Fiber Placement of a Flat Thermoplastic Composite Plate Koohi Esfahani, A., Tehrani, M., Chen, J.	Topological approach to model analytically damage initiation mechanisms on fiber reinforced composites Consarnau, R., Statham, P., Whisler, D.	An Advanced Optimization Framework for Enhanced Autoclave Processing Sun, Y., Enos, R., Zhang, D., Li, L.
1:40	Modeling of Hyperfoam Laminates Under Tensile Load Pagliocca, N., Trkov, M., Koohbor, B.	Double-Double laminates for improved impact and post-impact resistance: Preliminary design and analysis Lee, D., Zulqernine, M., Lin, S., Ambika Vijayachandran, A.	Novel Weaving Technique for Robust Tapered Composites: Enhancing Performance and Durability Derbyshire, L., Rauh, M., Prabhakar, P.	Effect of Automated Fiber Placement Manufacturing Signatures on Fatigue Performance Bristy, K., Manoharan, N., Smeets, M., Davidson, P., Gururaja, S.	Thermal Process Modeling of Xenon-arc Flash Lamp based Automated Fiber Placement System Ganesan, V., Smeets, M., Tashakori, A., Amgai, S., Jain, A., Davidson, P.
2:05	Hierarchical PHFGMC Nonlinear Mechanical Models of Automated Fiber Placement Composites Hochster, H., Cochavi, A., Haj-Ali, R.	Optimizing Curvilinear Fiber Paths in Composite Laminates: A Two-Stage Surrogate-Based Approach for Enhanced Vibration Performance Wang, X., Honda, S., Sasaki, K., Takeda, R.	Engineered Gaps in Thermoplastic Composite AFP Layups for Improved VBO Consolidation Khaleghi, S., Tehrani, M.	Rapid repair of composites using radical-induced cationic frontal polymerization Chowdhury, S., Mangwiro, M., Tudoreanu, S., Haque, T., Papon, E.	Investigating the Process of Fuzzball Formation in Automated Fiber Placement Matsubara, G., Pedigo, S., Harmon, K., Salviato, M.
2:30	Coffee Break				
		Impact & Dynamic Response 4	**Durability & Damage Tolerance 1**	**Multifunctional Composites 1**	**Manufacturing and Process Modeling 4**
2:45		A Comparative Study of the High-Rate Response in Unidirectional CFRP and UHMWPE Using Kolsky Bar and Image-Based Inertial Impact Methods Cunliffe-Owen, H., Westra, A., Morton, J., Shelley, C., Lamberson, L.	Impact Damage Analysis Tool for Composite Structural Certification Molitor, M., Carpenter, B., Cutting, R., Henson, L., Ranatunga, V.	Investigating the manufacturing challenges of structural supercapacitors Kakarelidis, O., Shaffer, M., Greenhalgh, E., Nguyen, S.	Investigation of Defect Formation in AFP using a tabletop AFP simulator Pederson, R., Bakhshi, N., Clare, A., Poursartip, A.
3:10		Simulation of Projectile Impact on Wind Turbine Blades Haluza, R., Cheung, L., Anderson, E., Blaylock, M., Seeley, C., et al.	Accurate Predictions of Residual Strength of Structural Elements Subjected to Low Velocity Impact Carpenter, B., Molitor, M., Henson, L., Ranatunga, V.	High Thermal Conductivity Polyolefin Thermoset Resin Incorporating Pitch Carbon Fibers Kamble, M.	Thermal Analysis of Automated Fiber Placement (AFP) Processing Using Computational Fluid Dynamics (CFD) Simulation Zhan, T., Sun, Y., Zhang, D., Li, L.
3:35		Investigating the Effects of Thermal Modification on the Low-Velocity Impact Performance of Western Hemlock Chen, J., Yelve, N., Poulin, E., Stynoski, P., Salviato, M.	Multi-Scale Testing of Composite Damage Tolerance via Residual Compression After Impact Cutting, R., Molitor, M., Ranatunga, V.	Dimensional Stability of Composites: A Key Factor for Advanced Applications Nakhla, S.	In-situ measurement of void formation during CFRP molding using optical fiber shape sensor Nakaya, H., Minakuchi, S.
4:00		Natural Frequency Dependence of Laminated Composites to Temperature Increase Sözen, M., Kadıoglu, F.	Failure of adhesively bonded joints – strength or fracture controlled? Wisnom, M., Xu, X.	Sustained Self-sensing and Autonomous Self-healing via Electro-thermal Coupling in Fiber-reinforced Composites Turicek, J., Phillips, Z., Patrick, J.	
4:30	**Division Meeting 1**	**Division Meeting 2**	**Division Meeting 3**	**Division Meeting 4**	
5:30	**Welcome Reception**				

Time	Tuesday, October 7				
7:30	Breakfast				
8:00	**Mr. Joe Brennan: Advanced composite manufacturing for high rate demand**				
9:00	Coffee Break				
	Micromechanics and Multiscale Modeling 4	**NASA HiCAM Special Session 1**	**Nanocomposites 1**	**NDE of Composites**	**AI and ML in Composites 1**
9:15	Theory of arbitrary shaped thin-walled composite beams Bagla, A., Camarena, E., Yu, W.	Thermal Modeling of High-Rate Automatic Fiber Placement of Thermoplastic Composites Sreekantamurthy, T., Hudson, T., Grimsley, B., Ledesma, R.	Keynote: Predicting Fracture Toughness in Amorphous Carbon Materials Using Atomistic Simulations	In-situ On-demand Digital Image Correlation for Versatile Damage Characterization of Composites Mogilisetti, R., Das, P., Raihan, M., Lin, S.	A Multiscale Uncertainty Quantification Framework for Failure of Composites Using Stochastic Simulations and Machine Learning Eskandariyun, A., Fu, H., Zobeiry, N.
9:40	A Multiscale Framework for Simulating Structural Assemblies Using a Discrete Mesoscale Model for Composites (DM4C) Approach Flores, M., Phenisee, S., Deleo, A., Pelessone, D., Salviato, M.	Interlaminar Fracture Studies on IM7/PEKK Continuous Fiber Laminated Thermoplastic Composite under Quasi-static to Intermediate Loading Rates Buenrostro, J., Ricks, T., Miller, S., Christy, A.	Samit Roy	A high-fidelity numerical micromechanical approach to investigate mesoscale variabilities on ultrasonic wave propagation in composites Tetteh, O., Hamza, M., Chattopadhyay, A.	Atomistic Modelling of sub-stoichiometric transition metal carbide Lee, J., Roy, A.
10:05	Unified Micromechanics Theory of Composites2 Buryachenko, V.	Analysis of Composites Coupled with Generic Defect/Feature Mapping Jamora, V., Noevere, A.	Interpretation of Plant Cell Wall Transitional Behavior in Designing the tunable Nanocomposite Jamal, M., Saeedian, K., Prasad, A.		Non-Contact Inference of Anisotropic Thermal Conduc-tivity Using the W-SINDy Hassan, S., Vashisth, A.
10:30	Coffee Break				
	Analysis, Testing, and Material Characterization 1	**NASA HiCAM Special Session 2**	**Nanocomposites 2**	**Thermoplastic Matrix Composites 1**	**AI and ML in Composites 2**
10:45	Verification, Validation, and Uncertainty Quantification of a Parametric Model for the Structural Response of Bonded 3D Textile Pi-Preform Joints Kirby, M., DeCarlo, E., Stanfield, M., Popelar, C., Riha, D.	Vacuum Bag Oven Consolidation of Polyaryletherketone Thermoplastic Composites following High-rate Automated Fiber Placement Grimsley, B., Cano, R., Hudson, T., Sreekantamurthy, T., Ledesma, R., Nancarrow, J.	Predicting Fracture Toughness in Amorphous Carbon Materials using Atomistic Simulations Roy, S., Aditya, S.	Progressive Failure Modeling of Tailored Universal Feedstock for Forming (TuFF) Discontinuous Long Fiber Composites Bednarcyk, B., Pineda, E., Buenrostro, J., Stuckner, J., Mosto, A., Husseini, J., Stapleton, S., Miller, S.	Performance Evaluation of Deep Learning U-Net and FC-DenseNet Architectures for Image Segmentation of CMC Minicomposites Chen, M., Hilmas, A., Zhupanska, O.
11:10	The applicability of time temperature superposition principle to characterize the Mode I tack response of uncured thermoset carbon/ epoxy thermoset prepreg Chakraborty, D., Sockalingam, S., Whealton, C., Cender, T., Kodagali, K., Sutton, M., Rajan Kattil, S.	Failure analysis of stitched composites under interlaminar tension and shear Larson, R., Drake, D., Simmons, L., Revolinsky, P., Anderson, E., Cardona, A.	Design of Nanocellulose/Pectin Bio-Composites Using Integrated Experiments and Molecular Dynamics Simulation Wu, X., Saeedian, K., Prasad, A.	Measurement of Percent Crystallinity of Polyaryletherketone Composites using Fourier Transform Infrared Spectroscopy Ledesma, R., Kang, J., Grimsley, B., Cano, R., Hudson, T., Sreekantamurthy, T.	Toward Perfect Fit: Mitigating Assembly Defects in Aerospace Composites with Machine Learning and Targeted Testing Johnson, K., Fu, H., Zobeiry, N.
11:35	Aperiodic Cellular Cores for Impact-Resistant Sandwich Structures: Exploring Near-Zero Poisson's Ratio Configurations Dalto, L., Napolitano, J., Avila, A., Ranatunga, V.	Progressive Damage and Failure Analysis of Thermoplastic Open Hole Tension Specimens with Different Layup Configurations Virakthi, A., Seshadri, B., Stricklin, J., Jackson, W., Rao, P., Rose, C.	Improvement of the mechanical properties of paper by adding photocurable resin and cellulose nanofibers Katagiri, K., Onji, T., Kawakita, S.	Multiscale Modeling of the Effect of Cooling Rate on the Thermomechanical Properties of Semi-crystalline Thermoplastic Composites Pineda, E., Husseini, J., Mosto, A., Bednarcyk, B., Miller, S., Heimann, P., Mulhearn, W., Stapleton, S.	Agglomeration in 2 phase composites: conserved Ising model, cluster morphology, and machine learning Reinhard, G., Mendez, D., Grasinger, M.
12:00	Lunch				
	Analysis, Testing, and Material Characterization 2	**Fatigue in Composites 1**	**Nanocomposites 3**	**Thermoplastic Matrix Composites 2**	
1:15	Evaluation of Thin Grade Stacking Sequence and Size Effects for Quasi-Isotropic Tension and Compression McDonald, J., Lee, D.	Influence of Numerical Modeling Approaches on Damped Behavior of Flexible Beams Porter, J., Slaughter, D., Vijayakumar, G., Murray, R.	Tailoring Mechanical and Thermal Properties of Epoxy via Graphene Quantum Dots: A Molecular Dynamics Study Bamane, S., Keles, O.	Degree of Intimate Contact of Thermoplastic Composites for Improved Automated Fiber Placement Ledesma, R., Widener, B., Kang, J., Grimsley, B., Cano, R., Hudson, T., Sreekantamurthy, T.	
1:40	Experimental Evaluation of Degree of Cure in Frontally Cured Composites Price, T., Cramblitt, A., Christopherson, P., Cooper, J., Moore, J., Sottos, N.	A Mixed-Mode Cohesive Fatigue Model for the Analysis of Delamination Initiation and Propagation of Composite Materials Finlay, J., Clay, S.	Computational Investigation of Agglomeration in PLA/Glass Nanocomposites Pisani, W., Wedgeworth, D., Burroughs, J., Thornell, T., Newman, K., Shukla, M.	Flexural Loaded Joints with Co-cured Thermoplastic Adherends Kadioglu, F.	
2:05	Experimental and Computational Modeling of DFCs: Effect of Platelet Morphology Davis, C., Nakagawa, T., Avery, W., Salviato, M.	Intralaminar Fatigue Modeling of Continuous Fiber-reinforced Plastics with Digimat: From Material Parameter Identification to Structural Applications Malgioglio, F., Lavertu, P., Ghosh, G., El Ghezal, M.	NanoMembranes for Noise Attenuation: Urban noise assessment in Brazilian hospitals Avila, A., Napolitano, J., Dalto, L.		
2:30	Coffee Break				
	Analysis, Testing, and Material Characterization 3	**Fatigue in Composites 2**	**Durability & Damage Tolerance 2**	**Multifunctional Composites 2**	**Additive Manufacturing 1**
2:45	Compressive and Flexural Behavior of Sugarcane Bagasse-Reinforced Vitrimer Composites Dobreh, S., Sumaila, A., Jahan, M., Mensah, P., Li, G.	Rapid fatigue life prediction of bolted woven FRP composite joints via infrared thermography Manoharan, N., Gururaja, S.	Unveiling the Hidden Influence of Crack-Parallel Tension on Interlaminar Fracture Toughness in Quasibrittle Composites Matsubara, G., Vemparala, A., Salviato, M.	Composition-property relationship of 3D-printed multifunctional wood Rahman, M., Thakur, M., Hossain, M.	Programmable Mechanical Behavior of 3D Printed Multi-Material Composites Kammara, N., Okor, K., Muliana, A.
3:10	Method of in-Situ Material Strength Characterization in Thick-Wall Composite Tubes Gurvich, M., Clavette, P.	Characterization and discrete damage simulation of the fatigue behaviour of notched composite laminates Quaresimin, M., Carraro, P., Maragoni, L.	Computational Modeling of Impact Behavior and Experimental Compression After Impact Response of VACNT-Reinforced Unidirectional Laminates Vielma, E., Morales, L., Ranatunga, V., Castellanos, A.	Glass Fiber Composite With Embedded Carbon Nanotube Patch Antenna for Wireless Communications and Strain Sensing Applications Kurilich, M., Park, J.	Adhesion of elastomers in multi-material 3D printing Diaz Armas, N., Kadiyala Bhavani, D., Mead, J., Amirkhizi, A.
3:35	Novel Application of Maritime Composites for Transport Category Aircraft Primary Structure Nadel, A., Peck, M., Rennick, J.	Development of a Cohesive Model for Prediction of Fatigue Crack Growth in Polymer Matrix Composites (PMCs) using Abaqus and the Extended Finite Element Method Sponton, L., Seon, G., Makeev, A.	Composites Damage Modeling from Electrical Perspective: Physics-informed Neural Networks and Computational Approaches Das, P., Vadlamudi, V., Oni, T., Raihan, M.	Mechanical and Flexoelectric Responses of Cast and 3D Printed Soft Elastomers Saha, M., Gautam, O., Saha, M., Maity, K.	Development of Modular Mandrels for Manufacturing 3D Laminates Using Automated Fiber Placement Korayem, A., Haq, M.
4:00	A comparison of Modified and Conventional Single Lap Joints under Tensile Loading Kalkan, A., Kadioglu, F.	Investigation of Non-Linear Effects in Stress-Life Fatigue of PA6 Woven GFRP Ebrahimi, E., Sajjad, M., Ravangard, A., Chapparo-Chavez, E., Pedrazzoli, D., Zhang, M., Kravchenko, O.	Damage Modelling for Assessing the Residual Strength of the F/A-18 Inner-Wing Step-Lap Joint Li, G., Renaud, G.	In-Situ Damage Detection and Indentation Response of Graphene-based Multifunctional Composites Alahmed, N., Umer, R., Cantwell, W., Khan, K.	Predicting Mechanical Degradation in 3D-Printed Nylon-Based CFRP from Environmental Factors Sluder, I., Tan, K.
4:30	**ASC General Membership Meeting**				
5:15	**Transportation to AF Museum**				
6:00	**ASC Awards Dinner & Banquet**				

Time	Wednesday, October 8			
7:30	Breakfast			
8:00	**Dr. Uday Vaidya: 10 years of IACMI -The Composites Institute – Enabling US Competitiveness in Advanced Composites Technologies**			
9:00	Coffee Break			
	AI and ML in Composites 3	**Composites In Extreme Environments 1**	**Additive Manufacturing 2**	**Workshop - Session 1**
9:15	Data-Driven Model of Process–Structure–Property Relationships in Buckypaper Using Machine Learning Hwang, H., Tetteh, O., Hamza, M., Chattopadhyay, A.	Investigating the Role of Weave Architecture and Fiber Hybridization on the Cryogenic Performance of Hybrid Woven Composites Tewani, H., Rauh, M., Golin, T., Fairbanks, M., Prabhakar, P.	Localized Porosity Analysis for Uncertainty Quantification in 3D Printed Continuous Fiber Composites Teker, A., Hernandez, M., Pochiraju, K.	
9:40	Accelerating machine learning-assisted multiscale modeling by physics-based microstructure encoding Nandy Mazumder, A., Liu, X.	Mechanical Testing of PMC composites at LN2 Temperature Using Novel Cryostat Design Tandon, G., McGill, R., Lotz, J., Rice, B., Marawi, H.	Foldable continuous carbon fiber lattice structure based on additive manufacturing Chen, Y., Dong, X.	Best Practices and Lessons Learned for Applying Continuum Damage Mechanics to Aerospace Structures
10:05	AI/ML Assisted Qualification of New Materials Shelley, D., Deleo, A., Phenisee, S., Falkowski, A., Sparks, T.	Synthesis of ALD fiber sizing for ceramic matrix composites Sharp, K., Naghi, R., Abdul Latheef, M., Olima, M., Ramsurn, H., Keller, M., LePage, W.	Fabrication of Ceria-Stabilized Zirconia and Polymer-Derived Ceramic Reinforced AA7075 Composites using Friction Stir Additive Manufacturing Process Khan, N., Kumar, A.	Frank Leone & Brian Justusson
10:30	Coffee Break			
	AI and ML in Composites 4	**Composites In Extreme Environments 2**	**Additive Manufacturing 3**	**Workshop - Session 2**
10:45	Machine Learning-Assisted Optimization of Composite Panel Ply Orientation Using Surrogate Models and Particle Swarm Optimization White, B., Mulani, S., Goyal, V.	Oxidation Behavior of SiC/BN/SiC PIP Ceramic Matrix Composites in Air Mohamed, M., Hamza, M., Chattopadhyay, A.	3D Printing and Mechanical Characterization of Non-Planar Carbon Fiber Reinforced Composite Structures Eckstein, S., Benkirane, S., Youssef, G.	
11:10	Thermal Property Prediction of 2D Woven Composites Using an LLM-Integrated Neural Network Framework Rao, A., Yu, W., Liu, X.	Finite Element Analysis of Reinforced Pyrolytic Graphite Sheet Composite Laminates for Space Radiator Panels Nielsen, D., Ricks, T., Lee, J.	Cellulose-based All-3D Printed Pyroelectric Nanogenerator Saha, M., Maity, K., Saha, M., Mondal, A.	Best Practices and Lessons Learned for Applying Continuum Damage Mechanics to Aerospace Structures
11:35	Rethinking Simulation for Composites: A Framework for the Development of Novel AI/ML-FEM Methods Ballard, K., Cattanneo, A., Whitehead, R., Shankar, V., Kirby, M., Mollenhauer, D.	A Composite Structures Approach to Enhancing the Burst Resistance of PWR Fuel Rods Golin, T., DeMo, T., Schaefer, M., Luong, L., Pocquette, N., Lahoda, E., Sridharan, K., Prabhakar, P.	Distortion in Additively Printed Continuous-Fiber Thermosetting Thin Laminates Baur, J., Shahzad, A., Rahman, M., Lee, H.	
12:00			Continuous Carbon Fiber Printing for Composite Repair Huang, J., Gulley, J., Thale, S., Williams, C., Koene, B.	Frank Leone & Brian Justusson
12:30	Lunch			
				AIAA Structures & Materials TC Technical Meeting