

	Broadway	Weidler	Halsey
<b>Tuesday Morning</b>	<b>Uncertainty Quantification 1 - Chair: Mark Iadicola</b>	<b>Industrial 1 - Chair: Alessandro Vieira</b>	<b>Civil - Chair: Devin Harris</b>
<b>10:40 AM</b>	Acceptance and Verification of DIC Systems with Reference to VDI/VDE Guidelines Witzel, Oliver	Utilizing Three-Dimensional Digital Image Correlation (3-D DIC) on Space Flight Hardware Gardner, Nathaniel	Full-Field Correlated Mechanics of Cross-Laminated Timber Buck, Dietrich
<b>11:00 AM</b>	Design and Application of a Reference Standard for the Calibration of Full-field Optical Strain Measurements in Full-scale Test Applications Backman, David	Dynamic Deformation of Cover Glass in Mock Phone for Different Orientations of Drop Singh, Charandeep	Mixed Finite Element-DIC Technique to Detect Unseen Abnormalities of a Structure Using an Inverse Approach Harris, Devin
<b>11:20 AM</b>	Development of Laboratory Experiments Utilizing StereoDIC for Accurate Measurement of In-Plane and Out-of-Plane Deformations Sutton, Michael	Leveraging Emerging Technology at the Speed of Change in Human Space Flight Shannon, Ryan	Evaluation of The Cement Bond Integrity by Using Digital Image Correlation (DIC) Technique Wu, Yuxing
<b>11:40 AM</b>	DIC Challenge on Huge Strain Measurement Blaysat, Benoit	An overview of DIC technology applications at Boeing Vieira, Alessandro	Performance Evaluation of Three-Tab Shingles With Dual Sealant Strips Subjected to Wind Gusts Up To 150 Mph Using Stereo Digital Image Correlation Rajan Kattil, Sreehari
<b>12:00 PM</b>	<b>(Pacific Northwest Ballroom) Lunch</b>		
<b>Tuesday Afternoon</b>	<b>(Mt. Hood) Committee: Standards &amp; Good Practices</b>	<b>(Mt. St. Helens) Committee: Education</b>	
<b>1:00 PM</b>	Chair: Mark Iadicola	Chair: Mark Pankow	
<b>3:00 PM</b>	<b>Coffee Break in Vendor Exposition</b>		
<b>Tuesday Late Afternoon</b>	<b>(Mt. Hood) Committee: Training &amp; Certification</b>	<b>(Mt. St. Helens) Committee: Applications</b>	
<b>3:30 PM</b>	Chair: Tim Schmidt	Chair: Alessandro Vieira	
<b>5:30 PM</b>	<b>(Hotel Lobby) Walking Tour and (TBD) Pub Night</b>		

	Broadway	Weidler	Halsey
<b>Wednesday Morning</b>	<b>UQ 2 - Chair: Phillip Reu</b>	<b>Industrial 2 - Chair: TBD</b>	<b>Material 1 - Chair: TBD</b>
<b>10:40 AM</b>	On the Pattern Induced Bias in DIC Blaysat, Benoit	Application of a Three-Dimensional Digital Image Correlation for Measurement of Clad Tube Deformation under Transient Heating and Pressurization KIM, Dong-Hyun	DIC Analysis to Investigate the Post-Overload Fatigue Crack Growth Behavior Gonzales, Giancarlo
<b>11:00 AM</b>	Minimizing Pattern Induced Bias in Digital Image Correlation Fayad, Samuel	3D Micro Stereo Sensor for Digital Image Correlation Pulju, Hendrik	A Model-Free Analysis of Small Scale Yielding to Generalized Plasticity Transition during Mixed-Mode Fatigue Crack Propagation Langlois, Raphaël
<b>11:20 AM</b>	New Method for DIC Uncertainty Quantification in Industrial Environments Siebert, Thorsten	Comprehensive Layer Monitoring during Selective Laser Melting with Stereo-DIC Powder Surface Profiling Bay, Brian	Determining Fracture Toughness of Composite Joints: A New Matlab Software and Methods Comparison Caltagirone, Peter
<b>11:40 AM</b>	Experimental Configuration Calculator for 3-D Image Correlation McNeill, Stephen	Fluid Mechanics Application of DIC: Liquid Sloshing Chao, Bill Yuh	Effect of Adhesive Thickness and Strain Rate on Mode I Fracture Toughness of Polymer Modified Bitumen - An Experimental Investigation Using StereoDIC Rajan Kattil, Sreehari
<b>12:00 PM</b>	<b>(Pacific Northwest Ballroom) Lunch</b>		
<b>Wednesday Afternoon</b>	<b>Modal DIC 1 - Chair: TBD</b>	<b>Algorithms 1 - Chair: TBD</b>	<b>Automotive - Chair: TBD</b>
<b>1:00 PM</b>	Application of Stereo 3D Digital Image Correlation in Mach 2, 4, and 6 Wind-tunnels Ehrhardt, David	DICe: An Open Source DIC Platform for DIC-related Research Turner, Daniel	Characterization of Sheet Formability using Hydraulic Bulge Tests with DIC Song, Yang
<b>1:20 PM</b>	ODS Detection in Modern DIC Software Environment Weikert, Thorsten	Digital Image Correlation: Practical Implementation of a 2D Digital Image Correlation Framework as a MATLAB Code Atkinson, Devan	Determination of the Forming Limit Curve and Bi-Axial Yield Curve using Digital Image Correlation up to 1200°C Grube, André
<b>1:40 PM</b>	Vibration Modes Measurement of a Thin Plate using Single High Speed Camera with FE Model Liang, Zhonghan	The Utility of Open Source 2D-DIC Engine Ncorr for Large Compressional Inhomogeneous Deformations in Solid Mechanics Xing, Xiao Cheng	Sheet Metal Formability Characterization under Hot Stamping Conditions DiCecco, Sante
<b>2:00 PM</b>	Vibration Based Stitching Technique to Obtain Deflection Shapes using DIC Baqersad, Javad	Robust Heuristics-Enabled, Vision-Based Sensing for Road Traffic Artifacts Manimala, James	Combination of Scans and Measured 3D Data for the Calculation of Virtual Geometry Elements Acun, Burak
<b>2:20 PM</b>	<b>Coffee Break in Vendor Exposition</b>		

Wednesday Late Afternoon	Modal DIC 2 - Chair: TBD	Algorithms 2 - Chair: Elizabeth Jones	Material 2 - Chair: Dan Turner
3:00 PM	An Approach for Dynamic Model Calibration Using Error Localization Algorithms: Demonstration Using Two Practical Examples Horta, Lucas	Studying Feasibility of Applying Digital Image Correlation Algorithms on Infrared Images Pappalettera, Giovanni	Quantifying Surface Deformation around Small-Scale Indents by Digital Image Correlation Liu, Mengying
3:20 PM	Eliminating Mass Effects of Multi-transducers in Vibration Test Zhu, Rui	Using Finite Elements as a Means to Interpolate and Extrapolate Local Mechanical Fields from Discrete Experimental Data Roucou, David	In-Situ Full Field out of Plane Displacement and Strain Measurements at the Micro-Scale in Single Reinforcement Composites under Transverse Loading Tabiai, Ilyass
3:40 PM	Damper Experimental and Numerical Correlation Cook, Jason	The Virtual Image Correlation Method: Principle and Uncertainty Francois, Marc	Concurrent, in Situ HR EBSD and DIC on a Three-point Bend IN718 Specimen Hochhalter, Jacob
4:00 PM	Meta-model Assisted Structural Optimization Under Uncertainty with Model Order Reduction Chatterjee, Tanmoy	Discontinuity detection using pixel-wise DIC Couty, Victor	Nanoimprint Lithography Speckle Patterns for Optical Microscopy DIC Kursun, Elif Cansu
4:20 PM	<b>Coffee Break in Vendor Exposition</b>		
Wednesday Evening	Modal DIC 3 - Chair: TBD	Model Validation - Chair: TBD	Material 3 - Chair: TBD
4:40 PM	Sensor Nodes for Continuous Monitoring of Structures through Accelerometric Measurement Tarsitano, Davide	DIC and Digital Twin: An Inescapable Combo for an Efficient Model Validation Swiergiel, Nicolas	Simultaneous IR/DIC Measurements for Thermomechanical Modeling Jones, Amanda
5:00 PM	Validation Testing of DIC Frequency Domain Tools for Modal Analysis Schmidt, Tim	Extraction of Test Parameters from DIC Data and User Provided Image Data for FEA Correlation Improvement Clark, Elton	Simultaneous Surface Deformation and Temperature Measurements Using Digital Image Correlation and Thermographic Phosphors Jones, Elizabeth
5:20 PM	Investigation of Bolt Loosening in Super-alloy Thermal Protection System Panel using High-speed Digital Image Correlation Goo, Nam Seo	Benefits of Virtual Testing for Test Validation with Blender Baudoin, Pierre	Elevated Temperature Optical Microscopy DIC Connolly, Kevin
5:40 PM		DIC Uncertainty Quantification in Practice Lava, Pascal	
6:30 PM	<b>(Mt. Hood) DIC Challenge Meeting</b>		

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<b>Thursday Morning</b>	<b>High Speed 1 - Chair: TBD</b>	<b>Bio 1 - Chair: TBD</b>	<b>Material 4 - Chair: TBD</b>
<b>10:40 AM</b>	The Crack-wave Interaction Mechanism in Defected Material Under Impact Loads Guo, Yang	3D DIC Evaluation of Musculoskeletal Soft Tissue: Advantages and Challenges Hooke, Alexander	A New Approach to Experimental Fracture Analysis of High-toughness Films Furmanski, Jevan
<b>11:00 AM</b>	Application of High-Speed Digital Image Correlation to Taylor Impact Testing Jannotti, Phillip	Portable DIC for Dolphin Skin in-Vivo Measurement under Vacuum Loading Yang, Dory	Optimized Stereo Digital Image Correlation Setup for Miniature Round Specimen Rahman, Farhan
<b>11:20 AM</b>	Enhanced Digital Image Correlation with Enforced Traction Continuity Across Interfaces Tal, Yuval	Digital Image Correlation Analysis of Dental Implant Insertion yang, baixuan	Identification and Validation of 3D Viscoelastic Parameters of Polymer Using Digital Image Correlation Yue, Lingyu
<b>11:40 AM</b>	Measuring Back Face Deformation of Viscoelastic Composite Materials using High-speed DIC Cline, Julia	Fracture Mechanisms of Human Femoral Cortical Bone as a Function of Loading Rate Weerasooriya, Tusit	Investigation of Shear and Fracture Properties of Fiber reinforced Composite Laminates using DIC Merzkirch, Matthias
<b>12:00 PM</b>	<b>(Pacific Northwest Ballroom) Lunch - End of Vendor Exposition</b>		

Thursday Afternoon	High Speed 2 - Chair: Alessandro Vieira	Bio 2 - Chair: TBD	Material 5 - Chair: TBD
1:00 PM	Toward Quantitative High Resolution Ultra-High Speed Imaging Vinell, Adrien	Combination of Point- And Surface-Based DIC Measurements with Computed Tomography Data Acun, Burak	Global Stereo-DIC based on Finite Elements for the Identification of the Parameters of a Constitutive Law Colantonio, Guillaume
1:20 PM	Image-Based Stress Reconstruction: A Step Toward a Contactless Dynamic Probing Test Seghir, Rian	Hybrid Experimental-Modeling-Computational (HEMC) Methods: Validation of Microstructurally Inspired Deformation and Failure Models of Human Skull Weerasooriya, Tusit	Stereo Digital Image Correlation on Vibrating Materials for Damage Detection Lorenzo, Nicholas
1:40 PM	Simultaneous Comparison of High Speed Digital Image Correlation and Polarization Imaging Shannon, Ryan		Non-Parametric Correction to History Dependent Material Constitutive Laws from Displacement Field Measurements Réthoré, Julien
2:00 PM			
2:20 PM	<b>Afternoon Coffee</b>		
Thursday Late Afternoon	Volumetric - Chair: Brian Bay		Petroleum - Chair: Mehdi Mokhtarim
3:00 PM	A Fast GPU-Based FFT Interpolant Algorithm for Synthetic Image and Volume Deformation Fayad, Samuel		Evaluation of Tensile Properties of Transversely Isotropic Rocks Using Brazilian Disc Test and Digital Image Correlation Naik Parrikar, Prathmesh
3:20 PM	Fast Adaptive Augmented Lagrangian Digital Volume Correlation Yang, Jin		Estimation of Geo-material Deformation and Strain using Finite Element Based DIC and Smooth Particle Hydrodynamics (SPH) Reddy, Chamanth
3:40 PM	Internal Full Field Strain Measurement of Composites Material using X-ray Digital Radiography and Digital Image Correlation Techniques Palliyaguru, Upul		Evaluation of Fracture Toughness of Laminated Rocks using Digital Image Correlation Naik Parrikar, Prathmesh
4:00 PM	A Rotating Specimen Load Frame for CT Scanner and DVC Arzoumanidis, Alex		