

16th International LS-DYNA Conference Virtual Event





Times are in EDT

			KEYNOTE AND PLENARY
Date	Time	Paper #	Session and Presenter
	9:00 am		What to Expect in the Future, A. Hancq, Ansys
	9:15 am		The LS-Dyna Journey, Dr. John Hallquist, LSTC
	9:20 AM		Isogeometric Analysis: New Directions and Recent Progress, Prof T.J.R. Hughes, The University of Texas at Austin
	10:00 am		Honda Keynote Presentation, K.Takada, Honda
	10:10 AM		The Long and Winding Road Towards a Predictive Material and Failure Model for Aluminum 2024-T351 Undergoing Impact, D.
			Cordasco, FAA Aircraft Catastrophic Failure Prevention Program
June 10	10:10 AM		The Sagrada Familia Basilica, Barcelona: LS-DYNA®'s role in a 140-year journey, R. Sturt, Arup
Julie 10	10:10 AM		Recent Advances in Linear Algebra for LS-DYNA Applications, R. Grimes, Ansys
	10:10 AM		Achieving the Medtronic Mission with Modeling and Simulation, M.Palmer, Medtronic and D. Benson, Ansys, Medtronic and Ansys
	10:50 am		Intel Sponsor Keynote, K.Devi, Intel
	11:00 am		Beta CAE Systems Sponsor Keynote, L. Rorris, BETA CAE Systems
	11:20 am		TotalCAE Sponsor Keynote, R. Mach, TotalCAE
	11:30 am		Dynamore Sponsor Keynote, U. Göhner, Dynamore

AEROSPACE

Date	Time	Paper #	Session and Presenter
	10:50 AM	186	On Composite Model Calibration for extreme Impact Loading exemplified on Aerospace Structures, A. Haufe, DYNAmore
	11:15 AM	004	Enhancement of Deformation sub-model in an Orthotropic Material Model, L. Shyamsunder, Arizona State University
June 10	11:40 AM	017	Ballistic Impact Simulations of an Aluminum 2024 Panel using *MAT_224 in LS-DYNA Considering Oblique and Attitude Angles of a
Julie 10			Rectangular Projectile, CK. Park , George Mason University
	12:05 PM	041	Investigation of Mesh Regularization in MAT_224 for Subsequent Use in Impact Simulations, T. Lyons, The Ohio State University
	12:30 PM	005	Using *MAT_213 and *MAT_187 to Predict Failure in Unidirectional Composites, Bilal Khaled, Arizona State University
	10:45 AM	136	On accuracy and stability of implicit time integration schemes for rotating structures, T. Borrvall , DYNAmore Nordic
	11:10 AM	148	Belt modelling in LS-DYNA, K. Engstrand , DYNAmore Nordic
June 11	12:00 PM	182	Use of prepreg carbon and aluminium in satellite shielding submitted to high velocity impacts, T. Legaud , DynaS+
June II	12:25 PM	208	Experimental Design for Negative Triaxialities: Ductile Fracture Under Combined Uniaxial Tension and Hydrostatic Pressure, R. Lowe,
			University of Dayton
	12:50 PM	212	ES2/2re model validation for aircraft side impact with LS-DYNA, A. Schif , Dynamore

			AUTOMOTIVE
Date	Time	Paper #	Session and Presenter
	10:50 AM	011	Automatic analysis of crash simulations with dimensionality reduction algorithms such as PCA and t-SNE, D. Kracker , Porsche
	11:15 AM	215	Side Curtain Airbag Folding Methodology, P. Calzada , Ford Motor Company
June 10	11:40 AM	031	An Approach for Modeling Shock Propagation through a Bolted Joint Structure under Impact Loading, P. Shojaei, University of Nevada
	12:05 PM	040	An engineering approach of an X-Ray Car Crash under reverse Small Overlap configuration, Y. Leost , Fraunhofer EMI
	12:30 PM	072	A Path Towards Including Batteries in Electric or Hybrid Car Crash Simulations with LS-DYNA, P. L'Eplattenier, Ansys
	12:55 PM	078	Modeling Plastic Clips in LS-DYNA® for Low-Energy Impact Analyses, K. Freeman, DYNAmore Corporation
	10:45 AM	104	A Methodology to Model the Statistical Fracture Behavior of Acrylic Glasses for Stochastic Simulation, M. Berlinger, TH Mittelhessen
June 11	11:10 AM	112	Introducing the Arup-Cellbond MPDB Shell Model, L. Rovira-Crespo, Arup
	11:35 AM	147	MPDB Pre- and postprocessing in Animator4 and Generator4, L. B. Cia, GNS mbH

			BIOMEDICAL
Date	Time	Paper #	Session and Presenter
	10:50 AM	067	On the Performance and Accuracy of Enhanced Particle Finite Element Method in the Solution of Biomedical Benchmarks, CJ. Huang, Ansys
June 10	11:15 AM	073	Cardiac electrophysiology using LS-DYNA, P. L'Eplattenier, Ansys
	11:40 AM	153	Further Validation and Improvements to a 50th Percentile Male Pedestrian Finite Element Model, D. Grindle, Virginia Tech
June 11	11:35 AM	145	Coupled Fluid-Structure Interaction Simulation of Prosthetic Heart Valves, F. Del Pin, Ansys
			BLAST & SPH
Date	Time	Paper #	Session and Presenter
	12:55 PM	201	Driving Through Flooded Road, P. Bijoy , GM

	11:15 AM	094	A Simple Ejection Mitigation Device to Increase Survival of Standing Gunner, M.S. Hamid , Advanced Computational Systems
lune 10	12:05 PM	119	Development of a regression model for blast pressure prediction in urban street configurations, S. Lee , Michigan Engineering Service
	12:30 PM	058	Adaptive SPH Method and Higher Order Kernel Function in Ls-Dyna, J. Xu, Ansys
			CESE
Date	Time	Paper #	Session and Presenter
	10:45 AM 11:10 AM	025 036	Electrochemical-Thermal-Mechanical coupling of Lithium-Ion Battery Model in LS-DYNA, K. Im, Ansys Overview of the CESE compressible fluid and FSI solvers, G. Cook, Ansys
une 11	11:35 AM	037	Multiphase flow CESE solver in LS-DYNA, Z. Zhang, Ansys
	12:00 PM	038	Using the CESE Immersed Boundary FSI solver to simulate the FSI of the front portion of a turbofan, including damage, G. Cook, Ansy
	12:25 PM	039	FSI Based on CESE Compressible Flow Solver with Detailed Finite Rate Chemistry, K. Im, Ansys
			COMPOSITES
Date	Time	Paper #	Session and Presenter
	10:50 AM	023	
	201007.001	020	Simulating Prepreg Platelet Molding Compound Flexure Coupons in LS-DYNA Using MAT54, R. Cutting, Purdue University
	11:15 AM	024	Stacked Shell Modeling for Evaluation of Composite Delamination in Full Vehicle Simulations, O. Hartmann , ARRK Engineering
lune 10	11:40 AM	034	Strength Assessment of an Electronic Plastic Component considering local Fiber Orientation and Weld Lines, S. Pazour, PART
			Engineering
	12:05 PM	055	Thermoforming Process Simulation in LS-DYNA® to Predict Tool Pressure Distribution as a Result of Thickness Changes in UHMWPE Unidirectional Cross-Plies, K. White, University of Massachusetts Lowell
	12:30 PM	088	Intelligent multiscale simulation based on process-guided composite database, Z. Liu, Ansys
			COMPOSITES & OPTIMIZATION
Date	Time	Paper #	Session and Presenter
une 10	12:55 PM	100	Modeling and Validation of Failure Behaviors of Composite Laminate Components using MAT_262 and User Defined Cohesive Mode
	10:45 414	101	M. Nishi , JSOL
	10:45 AM 11:10 AM	101 109	J-Composites/Compression Molding - Introducing New Simulation System for FRP Composites, S. Hayashi, JSOL
			An adaptive thick shell element for crashworthiness assessment of laminated composites, J. Främby , DYNAmore Nordic
lune 11	11:35 AM	131	Development and Implementation of a Composite Material Shell-Element Model, T. Achstetter , George Mason University
	12:00 PM	195	Application of a Composite Material Shell-Element Model in Ballistic Impact and Crush Simulations, T. Achstetter , George Mason
	12:25 PM	178	University Modified Dynamic Time Warping for utilizing partial curve data to calibrate material models, N. Stander, Ansys
	12:50 PM	189	Sequential Optimization & Probabilistic Analysis Using Adaptively Refined Constraints in LS-OPT [®] , A. Basudhar, Ansys
			CONSTITUTIVE MODELING
Date	Time	Paper #	CONSTITUTIVE MODELING Session and Presenter
Date	<i>Time</i> 10:50 AM	<i>Paper #</i> 074	Session and Presenter
Date	<i>Time</i> 10:50 AM 11:15 AM	Paper # 074 102	
	10:50 AM 11:15 AM 11:40 AM	074 102 106	Session and Presenter New Design Considerations for the Calibration of Rubber-like Materials, Y. Lev , Technion Institute of Technology Simulation of Compression Behavior of Paper Product using *MAT_PAPER, S. Tokura , Tokura Simulation Research Incremental damage model for fatigue life assessment in complete machinery simulation, M. Lilja , DYNAmore Nordic
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une 10 une 11	10:50 AM 11:15 AM 11:40 AM 12:05 PM 12:30 PM 12:55 PM 11:10 AM 11:35 AM 12:00 PM	074 102 106 115 127 141 152 193 016	Session and Presenter New Design Considerations for the Calibration of Rubber-like Materials, Y. Lev , Technion Institute of Technology Simulation of Compression Behavior of Paper Product using *MAT_PAPER, S. Tokura , Tokura Simulation Research Incremental damage model for fatigue life assessment in complete machinery simulation, M. Lilja , DYNAmore Nordic Parameters identification for wood material (*MAT_143) and its application on the modeling of a typical timber Nuki joint, F. Lance Arup The Use of User Defined Elements and Extra Degrees of Freedom, K. Carney , Forming Simulation Technology Workflow based Material Calibration in d3VIEW - Learnings and New Development, S. Bala , d3VIEW Application of *MAT_258 in bending and crushing of extruded aluminum profiles using shell elements, J. K. Holmen , NTNU Characterization and material card generation for thermoplastics, M. Helbig , DYNAmore A Study on the Transfer of GISSMO Material Card Parameters from 2D- to 3D-Discretization, D. Sommer , University of Stuttgart Calibration and application of GISSMO and *MAT_258 for simulations using large shell elements, J. Johnsen, Enodo
lune 10 lune 11	10:50 AM 11:15 AM 11:40 AM 12:05 PM 12:30 PM 12:55 PM 11:10 AM 11:35 AM 12:00 PM 12:25 PM	074 102 106 115 127 141 152 193 016 079	Session and Presenter New Design Considerations for the Calibration of Rubber-like Materials, Y. Lev , Technion Institute of Technology Simulation of Compression Behavior of Paper Product using *MAT_PAPER, S. Tokura , Tokura Simulation Research Incremental damage model for fatigue life assessment in complete machinery simulation, M. Lilja , DYNAmore Nordic Parameters identification for wood material (*MAT_143) and its application on the modeling of a typical timber Nuki joint, F. Lance Arup The Use of User Defined Elements and Extra Degrees of Freedom, K. Carney , Forming Simulation Technology Workflow based Material Calibration in d3VIEW - Learnings and New Development, S. Bala , d3VIEW Application of *MAT_258 in bending and crushing of extruded aluminum profiles using shell elements, J. K. Holmen , NTNU Characterization and material card generation for thermoplastics, M. Helbig , DYNAmore A Study on the Transfer of GISSMO Material Card Parameters from 2D- to 3D-Discretization, D. Sommer , University of Stuttgart Calibration and application of GISSMO and *MAT_258 for simulations using large shell elements, J. Johnsen, Enodo
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lune 10 lune 11 Date	10:50 AM 11:15 AM 11:40 AM 12:05 PM 12:05 PM 12:55 PM 11:10 AM 11:35 AM 12:00 PM 12:25 PM 12:25 PM	074 102 106 115 127 141 152 193 016 079 <i>Paper #</i> 044 047 057	Session and Presenter New Design Considerations for the Calibration of Rubber-like Materials, Y. Lev , Technion Institute of Technology Simulation of Compression Behavior of Paper Product using *MAT_PAPER, S. Tokura , Tokura Simulation Research Incremental damage model for fatigue life assessment in complete machinery simulation, M. Lilja , DYNAmore Nordic Parameters identification for wood material (*MAT_143) and its application on the modeling of a typical timber Nuki joint, F. Lance Arup The Use of User Defined Elements and Extra Degrees of Freedom, K. Carney , Forming Simulation Technology Workflow based Material Calibration in d3VIEW - Learnings and New Development, S. Bala , d3VIEW Application of *MAT_258 in bending and crushing of extruded aluminum profiles using shell elements, J. K. Holmen , NTNU Characterization and material card generation for thermoplastics, M. Helbig , DYNAmore A Study on the Transfer of GISSMO Material Card Parameters from 2D- to 3D-Discretization, D. Sommer , University of Stuttgart Calibration and application of GISSMO and *MAT_258 for simulations using large shell elements, J. Johnsen, Enodo ELECTROMAGNETICS & SPG Session and Presenter Electrostatics and EM-ICFD coupling in LS-DYNA, a glimpse of things to come, I. Çaldichoury, Ansys Resistance Spot Welding in LS-DYNA*: an overview of current capabilities, I. Çaldichoury, Ansys Lithium-ion battery safety simulations using LS-DYNA, J. Deng, Ford Motor Co
Date June 10 Date June 11	10:50 AM 11:15 AM 11:40 AM 12:05 PM 12:35 PM 12:55 PM 11:10 AM 12:00 PM 12:25 PM 12:25 PM 12:25 PM 12:25 PM	074 102 106 115 127 141 152 193 016 079 <i>Paper #</i> 044 047	Session and Presenter New Design Considerations for the Calibration of Rubber-like Materials, Y. Lev , Technion Institute of Technology Simulation of Compression Behavior of Paper Product using *MAT_PAPER, S. Tokura , Tokura Simulation Research Incremental damage model for fatigue life assessment in complete machinery simulation, M. Lilja , DYNAmore Nordic Parameters identification for wood material (*MAT_143) and its application on the modeling of a typical timber Nuki joint, F. Lancel Arup The Use of User Defined Elements and Extra Degrees of Freedom, K. Carney , Forming Simulation Technology Workflow based Material Calibration in d3VIEW - Learnings and New Development, S. Bala , d3VIEW Application of *MAT_258 in bending and crushing of extruded aluminum profiles using shell elements, J. K. Holmen , NTNU Characterization and material card generation for thermoplastics, M. Helbig , DYNAmore A Study on the Transfer of GISSMO Material Card Parameters from 2D- to 3D-Discretization, D. Sommer , University of Stuttgart Calibration and application of GISSMO and *MAT_258 for simulations using large shell elements, J. Johnsen, Enodo ELECTROMAGNETICS & SPG Session and Presenter Electrostatics and EM-ICFD coupling in LS-DYNA, a glimpse of things to come, I. Çaldichoury, Ansys Resistance Spot Welding in LS-DYNA*: an overview of current capabilities, I. Çaldichoury, Ansys

FSI/ALE COMPUTE

Date	Time	Paper #	Session and Presenter
	11:15 AM	081	*ALE_STRUCTURED_FSI: The New S-ALE FSI Solver, H. Chen, Ansys
	11:40 AM	082	Recent Developments in LS-DYNA S-ALE, H. Chen, Ansys
une 10	12:05 PM	006	Using The Latest Cloud Technology to Accelerate LS-DYNA: Examples and Case Studies, R. Mach , TotalCAE
	12:55 PM	188	A study of LS-DYNA® Implicit running the Rolls-Royce® Large Representative Engine model with Intel® Optane™ memory technology, I
	10:45 AM	083	Meng, Intel LS-DYNA Structured ALE Solver with large models, H. Chen, Ansys
lune 11	11:10 AM	143	Fuel-tank sloshing using SPH capability in LS-DYNA, T. Phule, FCA
	11:35 AM	171	Semi-implicit ISPG method for incompressible free-surface fluid flow analysis, X. Pan, Ansys
			ICFD
Date	Time	Paper #	Session and Presenter
June 10	12:05 PM 10:45 AM	144 116	Transient Fluid Structure Simulation of Ground Vehicles, F. Del Pin, Ansys Visualising Vehicle Platoon Aerodynamics Using ICFD in LS-DYNA, Edward Pettitt, Arup
	11:10 AM	168	Drag Coefficient Optimization for a Sports Car using the coupling between LS-DYNA ICFD solver, LS-OPT and DEP MeshWorks software
June 11	- · · ·		M. Seulin , Dynas+
	12:00 PM	046	Introduction of sliding and overset capabilities in the ICFD LS-DYNA solver, I. Çaldichoury, Ansys
			ICFD
Date	Time	Paper #	Session and Presenter
	10:45 AM	043	Analysis and Optimization of Aluminum Automobile Side Door Design using LS-DYNA Implicit and LS-OPT, A. Kulkarni, Novelis
June 11			
	11:35 AM 12:00 PM	063 080	Random Vibration Fatigue Analysis Model Development from Explicit to Implicit in DYNA, H. Lee , General Motors
	12.00 PIVI	080	New generation iterative solvers in LS-DYNA, F. H. Rouet, Ansys
			ISOGEOMETRIC ANALYSIS, TOPOLOGY & OPTIMIZATION
Date	Time	Paper #	Session and Presenter
	12:55 AM	169	Multi-material Topology Optimization in LS-TaSC using Ordered SIMP Interpolation, S. Ramnath , Ohio State University
	10:50 AM	123	THE LATEST DEVELOPMENTS OF THE ANSA PRE-PROCESSOR FOR IGA APPLICATIONS OF LS-DYNA., L. Rorris, BETA CAE Systems
1		050	
June 10	11:15 AM 11:40 AM	053 085	Constrained Multidisciplinary Topology Optimization using LS-TaSC™, W. Roux, Ansys The Effect of InfiniBand and In-Network Computing on LS-DYNA Simulations, O. Maor, HPC-AI Advisory Council
	12:05 PM	151	Simultaneous Exploration of Geometric Features and Performance in Design Optimization, N. Dommaraju , Honda Research Institute
			Europe)
			METAL FORMING
Date	Time	Paper #	Session and Presenter
	10:50 AM	045	Conjugate heat transfer in LS-DYNA: an update of the ICFD-structure coupling capabilities for hot stamping, I. Caldichoury, Ansys
		05.0	
	11:15 AM 11:40 AM	056 059	LS-DYNA material model 263 and its application to earing predictions in cup-drawing, J. Zheng, Ansys
June 10	11.40 AIVI	033	A new keyword to apply moving temperature boundary conditions and its application in fused filament fabrication, J.Zheng, Ansys
	12:05 PM	068	Recent Updates on One-step Forming Method in LS-DYNA, H. Fan, Ansys
	12:30 PM	069	Performance Study of In Core Adaptivity in LS-DYNA, H. Fan, Ansys
	11:40 PM	059	A new keyword to apply moving temperature boundary conditions and its application in fused filament fabrication, J. Zheng, Ansys
	10:45 AM	138	Demonstrating LS-DYNA's capabilities in welding simulations by experiments, M. Rikken, Arup
	11:10 AM	190	Investigation on Transversal Anisotropy of an Aluminum Sheet for Crash Applications, F. Andrade, Dynamore
June 11	11:35 AM	207	Optimising Run Times for Sheet Metal Forming Simulation, T. Dutton , Dutton Simulation
	12:00 PM	076	A Dedicated Forming Package LS-FORM for Stamping Simulation with LS-DYNA®, Y. Xiao, Ansys
	12:25 PM	077	New Metal Forming Keywords in LS-DYNA®, X. Zhu, Ansys
			MODELING
Date	Time	Paper #	Session and Presenter
	10:50 AM	158	New implementation of a weakly thermal-mechanical coupling scheme in LS-DYNA, T. Klöppel , DYNAmore
	11:15 AM	009	Modelling Adhesively Bonded Interfaces Using Cohesive Zone Modelling: The Effect of Adherend Geometry, Element Selection, and
	11.40 ANA	063	Loading Condition, D. Hartlen, University of Stuttgart
June 10	11:40 AM	062	An Investigation of Maple Wood Baseball Bat Durability as a Function of Bat Profile using LS-DYNA®, B. Campshure, University of Massachusetts Lowell
	12:05 PM	132	Messachusetts Lowen Mesomechanical Modeling of the Mechanical Behavior of Parachute Suspension Lines using LS-DYNA®, C. Barry, University of
			Massachusetts Lowell

12:30 PM 150 Bolt modelling in LS-DYNA, J. Forsberg , DYNAmore Nordic
NVH/SIMULATION

 Date
 Time
 Paper #
 Session and Presenter

 10:50 AM
 089
 Modeling fatigue damage evolution and fatigue failure with LS-DYNA®, Z. Cui, Ansys

June 10	11:15 AM 12:05 PM 12:30 PM 12:55 PM 11:40 AM	091 099 028 070 092	Acoustic radiated power and radiation efficiency calculation with LS-DYNA®, Y. Huang, Ansys Multiaxial fatigue analysis with LS-DYNA®, Y. Huang, Ansys A unified SPH-DEM-FEM approach for modeling of debris flow impacts on protective structures, Q. Wang, Shanghai Fangkun Software Technology Recent Developments of LS_DYNA XFEM Shells for Dynamic Ductile Failure Analysis, Y. Guo, Ansys Recent updates in response spectrum analysis with LS-DYNA®, Y. Huang, Ansys
			OCCUPANT MODELING
Date	Time	Paper #	Session and Presenter
June 10	10:50 AM 11:15 AM 11:40 AM	027 103 120	Hybrid III 95th Large Male Finite Element Model Neck Alteration, Eric Day, Ansys Advanced Pedestrian Leg Impactor (aPLI), K. Stielau (CDH), D. Blauth (ATD), CDH Simplifying the pre-simulation set up of airbag folding in LS-DYNA using ANSA, T. Fokylidis , BETA CAE Systems
			OCCUPANT PROTECTION
Date	Time	Paper #	Session and Presenter
	10:45 AM 11:10 AM	030 032	Finite element modeling of reconstructed vehicle rear seats with adult male ATDs, K. Yates , Virginia Tech Injury Risk Assessment during a Car–to-End Terminal Crash based on Occupant Flail-Space Model and Finite Element simulations, Y. Meng , Virginia Tech
June 11	11:35 AM	137	A Model for the Stochastic Fracture Behaviour of Glass, C. Brokmann, TH Mittelhessen
	12:00 PM	183	Performing DOE Studies in Occupant Protection using BETA CAE tools, N. Tzolas, BETA CAE Systems
	12:25 PM	194	Coupled Crash Live Deployment Simulation using LS-DYNA Functional Mock-up Interface, K. Dong , General Motors
			SIMULATION
Date	Time	Paper #	Simulation Session and Presenter
Date	<i>Time</i> 10:45 AM 11:10 AM	<i>Paper #</i> 105 200	
	10:45 AM 11:10 AM 11:35 AM	105 200 214	Session and Presenter Automatic Evaluation of LS-DYNA Simulation Results using Statistical Database and Python, D. Wu, ARRK Engineering Simulation Data Management from CAD to Results with LoCo and CAVIT for Large Scale LS-DYNA® LEGO® Crash Models, M. Thiele, SCALE Cross-Platform Co-Simulation for Vehicle Safety Analysis, X. Tong, Ansys
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