

UPDATE

INVITATION – CONFERENCE PROGRAM

11th GERMAN LS-DYNA FORUM 2012

OCTOBER 9 - 10, 2012, ULM, GERMANY



By Courtesy of Dr. Ing. h.c. F. Porsche AG

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Conference hotel

Maritim Hotel Ulm
Basteistraße 40, 89073 Ulm, Germany
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www.maritim.de

Accommodation

A restricted number of reduced-price rooms have been reserved for Forum guests at the Maritim Hotel until September 14, 2012. Please book your hotel room by using the keyword "LS-DYNA".

Participant fees

540,- Euro / participant
University: 380,- Euro / participant

Fee includes: conference attendance, conference proceedings plus CD, gala dinner, two lunches, coffee breaks, and attendance of the informal welcome reception on October 8, 2012.

All prices plus VAT if applicable.

Hardware and software exhibition

Please request further information.

Conference language

German and English

Registration

Please use the attached registration form or register online at www.dynamore.de/forum12.

Contact

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More information

www.dynamore.de/forum12



Ulm Minster

Travel information

The Maritim Hotel Ulm with its impressive architecture, lies directly on the green banks of the Danube, not far from the picturesque old city with the famous Ulm Minster, which is the highest church tower in the world. The main railway station and the trade fair premises are just a few minutes walk away.

Distance to Ulm main railway station: 2,4 km
Distance to motorway (Autobahn A8): 6 km
Distance to Stuttgart airport: 82 km

- Train
ICE train: Railway line Munich-Stuttgart
- Plane
Airport Munich and Stuttgart
- Taxi fares
from Stuttgart airport: approx. 120 Euro
from Ulm main railway station: approx. 9-12 Euro
- Buses from Ulm main railway station
Bus line no. 6 to stop „Congress Centrum“

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Monday, October 8, 2012

06:00 - 9:00 pm
06:00 pm

Registration
Informal Welcome



By Courtesy of Daimler AG

Tuesday, October 9, 2012

Exhibition	08:00 am	
	09:00 - 09:10 am	Plenary Session
	09:10 - 10:10 am	Plenary Session
	10:40 - 12:20 am	Plenary Session
	12:20 - 01:50 pm	Lunch
	01:50 - 03:10 pm	Parallel Sessions
	03:40 - 05:00 pm	Parallel Sessions
	05:20 - 06:40 pm	Parallel Sessions
08:00 pm		

Registration			
Welcome			
Keynote Presentations			
Keynote Presentations			
Crash I (Mat./Elements)	Forming I (Composites)	Materials I (Validation)	
Crash II (Composites)	Forming II (Metals)	Materials II (Validation)	IT/Hardware I
Crash III	Forming III	Materials III (FRP)	Passive Safety I
Gala Dinner			

Wednesday, October 10, 2012

Exhibition	08:20 - 09:20 am	Parallel Sessions
	09:50 - 10:50 am	Parallel Sessions
	11:20 - 12:20 am	Parallel Sessions
	00:20 - 01:50 pm	Lunch
	01:50 - 02:50 pm	Parallel Sessions
	03:20 - 05:00 pm	Plenary Session
05:00 pm		

Passive Safety II	Optimization I/ LS-OPT Live Demo	eta/DYNAFORM Live Demo	CAE Processes I
Passive Safety III	Optimization II	Materials IV (Inelast./Failure)	IT/Hardware II
Multiphysics I / Development	Optimization III (Topology)	Materials V (Composites)	CAE Processes II/ LS-PrePost
Multiphysics II	Crash IV (Connections)	Materials VI (Composites)	CAE Processes III
Keynote Presentations			
Farewell			

PLENARY

09:00 - 09:10 am

WELCOME / KEYNOTE PRESENTATIONS

Welcome

U. Franz (DYNAmore GmbH)

09:10 - 09:40 am

Recent Developments in LS-DYNA – Part I

I. Yeh, J. Wang, C. Maurath, P. L'Éplatténier, F. Del Pin, J. O. Hallquist (LSTC)

09:40 - 10:10 am

Simulation Technology Applied to Coupled Problems in Continuum Mechanics

Prof. W. Ehlers (Universität Stuttgart, SimTech Cluster of Excellence)

10:10 - 10:40 am

Coffee Break

10:40 - 10:50 am

Fujitsu & Intel: 1000x Faster – What would you do with it?

E. Kehl (Fujitsu Technology Solutions GmbH); M. Widmer (Intel GmbH)

10:50 - 11:20 am

Challenges for the Structural Analysis of Composite Structures in Automotive Applications

M. Kögl, D. Moncayo (Daimler AG)

11:20 - 11:50 am

Activities of a Material Supplier to Support the Virtual Manufacturing Process with Respect to Robust Forming Simulations

L. Kessler, J. Gerlach (ThyssenKrupp Steel Europe AG)

11:50 - 12:20 am

Simulationsunterstützte Produktentwicklung in einem internationalen Entwicklungsumfeld – Status bei Brose

T. Resch (Brose Fahrzeugteile GmbH & Co. KG)

12:20 - 01:50 pm

Lunch Break

PARALLEL

CRASH I – MATERIALS/ELEMENTS

01:50 - 02:10 pm

Das neue Material-Modell *MAT_251 und seine potentielle Anwendung für Materialien mit lokal unterschiedlichen Eigenschaften infolge partiellen Warmumformens (Tailored-Tempering) oder vordehnungsabhängigen Bake-Hardening-Effects
R. Müller, M. Stillger (Adam Opel AG); P. Du Bois (Consultant)

02:10 - 02:30 pm

Hybride Trefftz-Elemente in der Crashesimulation

J. Hartmann, K. Kunter, T. Heubrandtner (Das virtuelle Fahrzeug Forschungs-GmbH); B. Fellner (Magna Steyr Fahrzeugtechnik AG & Co KG); H. Schluder (Audi AG)

02:30 - 02:50 pm

Erweiterte Untersuchungen zur Ersatzmodellierung von mechanisch gefügten Verbindungen für die Crashesimulation
M. Bier, S. Sommer (Fraunhofer IWM)

02:50 - 03:10 pm

An Approach to Simulate the Residual Strength of Initially Damaged Laminated Safety Glass with LS-DYNA

A. Hirth (Daimler AG); H. Klamser (Dr. Ing. h.c. F. Porsche AG); R. Kirchner (Friedmann & Kirchner GmbH); A. Haufe, C. Liebold (DYNAmore GmbH)

03:10 - 03:40 pm

Coffee Break

PARALLEL

CRASH II – COMPOSITES

03:40 - 04:00 pm

CAE of Thermoplastic Woven Glass Composites (Organo-Sheet)

J. Coulton (Hyundai Motor Europe Technical Center GmbH)

04:00 - 04:20 pm

Modellierungsansätze für Stahl-Polymer-Verbundbleche in der automobilen Crashesimulation

D. Pieronek, T. Böger, R. P. Röttger (ThyssenKrupp Steel Europe AG)

04:20 - 04:40 pm

Simulation of PMMA-TPU-Laminates under Impact Loading

Prof. S. Kolling, A. Rühl (THM Gießen); S. Mönnich (DKI Darmstadt); W. Höss (Evonik Degussa GmbH)

04:40 - 05:00 pm

Simulating Failure with LS-DYNA in Glass Reinforced, Polypropylene-based Components

M. Nutini, M. Vitali (Basell Poliolefine Italia srl)

05:00 - 05:20 pm

Coffee Break

PARALLEL

CRASH III

05:20 - 05:40 pm

Use of *INTERFACE_SPRINGBACK to Precondition Beams for Impact Analyses

C. A. Jones (AMEC plc)

05:40 - 06:00 pm

Implicit – Explicit – Implicit: An Investigation of a Ship Impact on an Off-Shore Installation

A. S. Duvall (AMEC plc)

06:00 - 06:20 pm

Unified Parametric Car Model – A Simplified Model for Frontal Crash Safety

M. Stein, P. Schwanz (TU Berlin); H. Sankarasubramanian (IIT Delhi/TU Berlin)

06:20 - 06:40 pm

„Intelligent Car Body“: A Design Approach for Construction of a Virtual Car Body for Small Sized Vehicle Batch Production based on LS-DYNA Simulations

A. Nagle (Fachhochschule Aachen); Prof. T. Roeth (Imperia GmbH)

08:00 pm

GALA DINNER

FORMING I – COMPOSITES

Numerical Simulation of Composite Materials: Systematical Approach and Comparison of Composite Material Models

F. Köster, M. Basaran, D. Moncayo, M. Feucht (Daimler AG); R. Bjekovic (Hochschule Ravensburg-Weingarten); F. Henning (KIT)

Faserverbundbauteile bei der BMW Group – Verfahren und Herausforderungen bei der simulativen Abbildung

T. Senner, S. Kreissl, A. Lipp (BMW Group); M. Merklein (Universität Erlangen-Nürnberg)

Modeling Resin Transfer Molding (RTM) using LS-DYNA

A. Shapiro (LSTC)

Integrative Simulation am Beispiel Cimeria – ein tiefziehfähiges Sandwichmaterial

B. Jilka, P. Reithofer, T. Wimmer (4a engineering GmbH); M. Pichler (4a manufacturing GmbH)

FORMING II – METALS

Numerische Simulation von Sandwichblechen in Umformprozessen

S. P. Li, H. Kurz, H. Verhoeven, P. Weigert (Volkswagen AG); A. Erman Tekkaya (IUL Dortmund)

Aktuelle Entwicklungen in der FE-Simulation des indirekten Presshärteprozesses bei der BMW Group

P. Hippchen, A. Lipp, M. Fleischer (BMW Group); M. Merklein (Universität Erlangen-Nürnberg)

An Efficient Method to Predict Frictional Heating of Metal Forming Tools over Numerous Press Strokes

A. Emrich (Adam Opel AG); D. Lorenz (DYNAmore GmbH)

New Technique to Model the Effect of Intermediate Induction Heat Treatment (IIHT) in Pre-Strained Aluminium Sheets

R. Govindarajan, M. Zubeil, C. Ageorges (Daimler AG); T. Borrval (DYNAmore Nordic AB)

FORMING III

Inverse Parameteridentifikation mittels Wechselbiegeversuch zur Ermittlung der nicht isotropen Verfestigung von Blechwerkstoffen

M. Merklein, M. Kaupper, M. Biasutti, M. Wieland (Universität Erlangen-Nürnberg)

Optimization Platform Module for DYNAFORM using LS-OPT

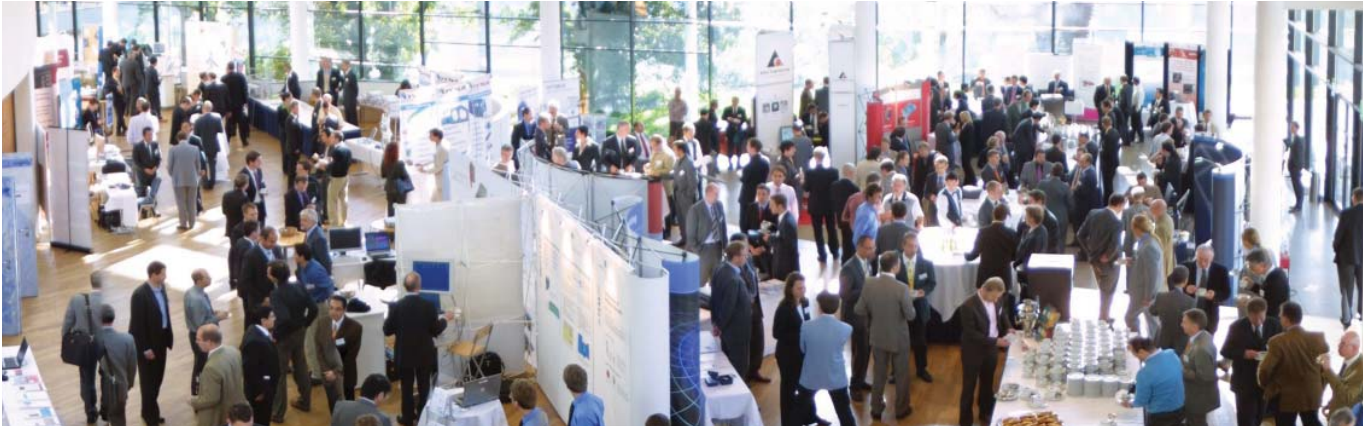
J. He, A. Tang (Engineering Technology Associates Inc.)

OpenForm - A New Intuitive Graphical User Interface for Industrial Forming Simulation

C. Kaulich, M. Wenzlaff (GNS mbH)

Materialabtrag beim Polieren

– Finite Elemente Simulation und Versuch
M. Speich, W. Rimkus, R. Börret (Hochschule Aalen); D. Harrison (University of Glasgow)



MATERIALS I – VALIDATION

A Simple Shear Test to Evaluate Material Ductility based on Specimens Cut from Thin-Walled Sections
Prof. T. Tryland, T. Berstad (Benteler Aluminium)

PARALLEL

01:50 - 02:10 pm

Validierung und Optimierung numerischer Simulationen von Werkzeugen und Bauteilen mittels optischer Messtechnik
H. Friebe, T. Müller, S. Adolf (GOM mbH)

02:10 - 02:30 pm

Erstellung von Kunststoff-Materialkarten für die Crashberechnung auf der Basis der optischen Dehnungsmessung
S. Engel, A. Theobald, J. Förster (EDAG GmbH & Co. KGaA); R. Paßmann (Beratender Ingenieur)

02:30 - 02:50 pm

Parameteridentifikation für das GISSMO Schädigungsmodell

M. Feucht, F. Neukamm (Daimler AG); P. Du Bois (Consultant); J. Effelsberg, A. Haufe (DYNAmore GmbH)

02:50 - 03:10 pm

MATERIALS II – VALIDATION

Dynamische Materialcharakterisierung von Composites mit 4a Impetus
A. Dietrich, M. Fritz, B. Jilka, P. Reithofer (4a engineering GmbH)

03:10 - 03:40 pm

Material Characterization for Crash Simulation of Plastics with 4a Impetus
M. Roth, N. Sygusch, Prof. S. Kolling (THM Gießen); B. Lauterbach (Adam Opel AG)

PARALLEL

03:40 - 04:00 pm

Characterization and Modeling of Polymer Interlayers for Laminated Glass
A. Rühl, Prof. S. Kolling (THM Gießen); J. Kuntsche, Prof. J. Schneider (TU Darmstadt); S. Mönlich (DKI Darmstadt)

IT / HARDWARE I

Fujitsu Products for High Performance Computing
E. Kehl (Fujitsu Technology Solutions GmbH)

04:00 - 04:20 pm

Neueste Entwicklungen im Bereich High Performance Computing
O. Tennert (transtec AG)

HPC Environments for LS-DYNA, Private Clusters and on Demand Clusters
M. L. Quiroga Teixeira (Gompute GmbH)

04:20 - 04:40 pm

Head Impact on Windscreens – Modeling, Validation and Verification
C. Alter, Prof. S. Kolling (THM Gießen); Prof. J. Schneider (TU Darmstadt)

Usage of GPU in LS-DYNA
Prof. U. Göhner (DYNAmore GmbH/Hochschule Kempten)

04:40 - 05:00 pm

MATERIALS III – FIBER-REINFORCED PLASTICS

Short Fiber Reinforced Plastics in Explicit Simulations: State of the Art Approaches for Efficient Modeling
J. Seyfarth, R. Assaker (e-Xstream engineering SA)

05:00 - 05:20 pm

PASSIVE SAFETY I

Robustness Methods in Safety Simulations
Y. Kolokythas, L. Rorris (BETA CAE Systems SA)

05:20 - 05:40 pm

4a micromec für die integrative Simulation faserverstärkter Kunststoffe
B. Jilka, P. Reithofer, A. Fertschej (4a engineering GmbH)

Modeling and Validation of Guided Impact Test Rig with Friction
Y. Ahmad (TGGS/MIROS); S. Ganesan (ACTS GmbH & Co. KG); P. Bland (TGGS); R. Schmidt (RWTH Aachen); W. Voon (MIROS)

05:40 - 06:00 pm

Short Fiber Reinforced Polymers: Part I – Experimental Characterization and Simulation with LS-DYNA
Prof. S. Kolling (THM Gießen); S. Mönlich, R. Glöckner (DKI Darmstadt); M. Vogler (Consulting Engineer); J. Schöpfer (Dr. Ing. h.c. F. Porsche AG)

Prinzipielle Analyse des Jackenaufbaus des Hybrid-III-05% am Beispiel des ATD-H305
P. Schuster, D. Blauth, J. Noack (ATD-Models GmbH); L. Quarg (Daimler AG); C. Gehre (PDB); A. Heym, H. Hofmann (Takata AG)

06:00 - 06:20 pm

Short Fiber Reinforced Polymers: Part II – Anisotropic Extensions of the SAMP-Model
M. Vogler (Consulting Engineer); J. Schöpfer (Dr. Ing. h.c. F. Porsche AG); Prof. S. Kolling (THM Gießen); S. Mönlich, R. Glöckner (DKI Darmstadt)

Development of an LS-DYNA Model of a Bicycle Helmet by Reverse Engineering
K. Zhou (Universität München/TU München); A. Wagner, K. Bauer, F. Rösler, S. Wu (Universität München); S. Peldschus (Hochschule Furtwangen); F. Duddeck (TU München)

06:20 - 06:40 pm

PARALLEL

PASSIVE SAFETY II – DUMMIES

- 08:20 - 08:40 am **Untersuchung zur Optimierung von Fahrzeugfrontkonstruktionen hinsichtlich der Einführung des neuen Beinprüfkörpers „FlexPLI“**
P. Greb (EDAG GmbH & Co. KGaA)
- 08:40 - 09:00 am **Status Report of Dummy Developments in Preparation of Euro NCAP 2015**
K. Koschdon, C. Kleessen, A. Lakshminarayana, A. Gupta, R. Kant (Humanetics Europe GmbH)
- 09:00 - 09:20 am **Development of a Special FAT ES-2 / ES-2re Version for Rapid Prototyping**
R. D'Souza, Y. Huang, S. Stahlschmidt (DYNAmore GmbH)
- 09:20 - 09:50 am Coffee Break

PARALLEL

PASSIVE SAFETY III

- 09:50 - 10:10 am **Detailed Passenger Airbag modeling for Early Stage Events**
A. Christ, J. Büttner (TRW Automotive GmbH)
- 10:10 - 10:30 am **Vehicle Safety using the Human Model THUMS**
D. Fressmann (DYNAmore GmbH)
- 10:30 - 10:50 am **Pulley Mechanism for Muscle or Tendon Movements along Bones and around Joints**
T. Erhart (DYNAmore GmbH)
- 10:50 - 11:20 am Coffee Break

PARALLEL

MULTIPHYSICS I / DEVELOPMENT

- 11:20 - 11:40 am **BEM Methods For Acoustic and Vibroacoustic Problems in LS-DYNA**
Prof. M. Souli (University of Lille/LSTC); Y. Huang (LSTC)
- 11:40 - 12:00 am **Particles as Discrete Elements in LS-DYNA: Interaction with themselves as well as Deformable or Rigid Structures**
N. Karajan (DYNAmore GmbH)
- 00:00 - 00:20 pm **Mortar Contact for Implicit Analysis – Recent Developments**
T. Borrvall (DYNAmore Nordic AB)
- 00:20 - 01:50 pm Lunch Break

MULTIPHYSICS II

- 01:50 - 02:10 pm **Meshless Methods in LS-DYNA**
Y. Guo, C. T. Wu (LSTC)
- 02:10 - 02:30 pm **Blast and Penetration: Simple Applications of Some New Keywords**
L. Schwer (Schwer Engineering & Consulting Services)
- 02:30 - 02:50 pm **ALE Incompressible Fluids in LS-DYNA**
Prof. M. Souli (University of Lille/LSTC); N. Aquelet (LSTC)
- 02:50 - 03:20 pm Coffee Break/Drawing

PLENARY

KEYNOTE PRESENTATIONS

- 03:20 - 03:45 pm **Automation of Multidisciplinary Model Build using Primer Integrated with TeamCenter**
T. Zeguer (Jaguar/Landrover); R. Sturt (Arup)
- 03:45 - 04:10 pm **Increasing Predictability in Crashworthiness Simulation: Pushing the Limits**
P. du Bois (Consultant); M. Feucht (Daimler AG)
- 04:10 - 04:35 pm **LS-OPT Version 5: A New Flowchart-Based Interface for Process Simulation and Optimization**
N. Stander, T. Eggleston (LSTC); D. Bjorkevik, C. Belestam (DYNAmore Nordic AB); K. Witowski (DYNAmore GmbH)
- 04:35 - 05:00 pm **Recent Developments in LS-DYNA – Part II**
I. Yeh, J. Wang, C. Maurath, P. L'Eplattenier, F. Del Pin, J. O. Hallquist (LSTC)
- 05:00 pm **Farewell**
Prof. K. Schweizerhof (DYNAmore GmbH / KIT)

OPTIMIZATION I / LS-OPT LIVE DEMO

- Introduction and Live Demonstration of LS-OPT Version 5**
- Presentation of the new Graphical User Interface
 - Definition of an Optimization Problem using an Example
 - Visualization of Results
 - Demonstration of Design / Parametric Studies
- K. Witowski (DYNAmore GmbH)
- Efficient Detection of Permissible Design Spaces in an Early Design Stage**
M. Götz, W. Graf (TU Dresden); M. Liebscher (DYNAmore GmbH)

OPTIMIZATION II

- Cross Car Beam Multi Optimization**
F. Volart, S. Faria (Barcelona R&D Center)
- Efficient Optimization of Structures using Global Sensitivity Analysis with Reduced Meta-models**
Z. Mehmood, U. Reuter (TU Dresden)
- Anwendung stochastischer und geometrischer Analysen zur systematischen Robustheitsbewertung im Strukturcrash**
D. Weigert, F. Duddeck (TU München); S. Brack, H. Schluder (Audi AG); G. Geißler (DYNAmore GmbH)

OPTIMIZATION III – TOPOLOGY

- A Topology Optimization Interface for LS-DYNA**
N. Aulig (Honda Research Institute Europe GmbH); I. Lepenies (DYNAmore GmbH)
- Topologie Optimierung mit LS-TaSC und GENESIS/ESL für Crash-Lastfälle**
A. Erhart, P. Schumacher, H. Müllerschön (DYNAmore GmbH)
- Topology Optimization of Crash Structures – Creativity Versus Computer-Based Algorithms**
Prof. A. Schumacher, C. Ortmann (HAW Hamburg)

CRASH IV – CONNECTIONS

- Charakterisierung und Modellierung des Bruchverhaltens von Punktschweißverbindungen in pressgehärteten Stählen (FOSTA Arbeitskreis in Kooperation mit der Automobilindustrie)**
- Part I - Charakterisierung des Verbindungsverhaltens**
D. Hein, F. Klokkes (Universität Paderborn)
- Part II - Simulation des Schweißprozesses**
H.-J. Wink, D. Krätschmer (Universität Stuttgart)
- Part III - Simulation des Verbindungsverhaltens**
S. Burget, S. Sommer (Fraunhofer IWM)

ETA/DYNAFORM LIVE DEMO		CAE PROCESSES I	PARALLEL
eta/DYNAFORM Live Demonstration – Experience the new Features by means of Practical Examples <ul style="list-style-type: none"> ■ Presentation of the new Graphical User Interface ■ Definition of Multi-Step Forming Processes ■ Optimization in Metal Forming ■ Visualization of Results J. He (Engineering Technology Associates Inc.)		Aufbau und Kontrolle von LS-DYNA Modellen in HyperCrash C. Alscher (Altair Engineering GmbH)	08:20 - 08:40 am
		Automatic Barrier Positioning for Various Regulations Enhancing CAE Productivity E. Sommer (ESI GmbH); G. Kini, M. Palaniswami (ESI Software India)	08:40 - 09:00 am
		Nutzen von LS-DYNA in der Cabriovertdeckentwicklung M. Rupp (in2p GmbH)	09:00 - 09:20 am
			09:20 - 09:50 am
MATERIALS IV – INELASTICITY/FAILURE		IT / HARDWARE II	PARALLEL
Modellierung viskoelastischer Werkstoffe mit LS-DYNA V. Effinger (DYNAmore GmbH)		Diskussionsrunde: Was würden Sie mit einer 1000x schnelleren Workstation tun? E. Kehl (Fujitsu Technology Solutions GmbH); M. Widmer (Intel GmbH); Prof. U. Göhner (DYNAmore GmbH/Hochschule Kempten)	09:50 - 10:10 am
Implementation and Application of a new Plasticity Model in LS-DYNA Including Lode Angle Dependency F. J. P. Reis (University of Porto); F. X. C. Andrade (DYNAmore GmbH)		Continued	10:10 - 10:30 am
Charakterisierung und Modellierung der Anisotropie und des Versagens von dickwandigen Aluminiumprofilen für die Crashsimulation A. Schley, G. Falkinger, D.-Z. Sun (Fraunhofer IWM)		Continued	10:30 - 10:50 am
			10:50 - 11:20 am
MATERIALS V – COMPOSITES		CAE PROCESSES II / LS-PREPOST LIVE DEMO	PARALLEL
Composite Materials 261 and 262 S. Hartmann (DYNAmore GmbH); D. Moncayo (Daimler AG)		New Features in LS-PrePost P. Ho (LSTC)	11:20 - 11:40 am
The Influence of Ondulation in Fabric Reinforced Composites on Dynamic Properties in a Mesoscopic Scale P. Ottawa, Prof. M. Wagner, M. Romano, Prof. I. Ehrlich (University of Applied Sciences Regensburg)		Getting Started with LS-PrePost! Live Demonstration on the Use of LS-PrePost Version 4.0 as a Pre-and Postprocessor <ul style="list-style-type: none"> ■ Application-specific Extensions and new Features ■ Performance of new 3-D Graphics Engine ■ Support of new Possibilities in LS-DYNA ■ and much more... P. Ho (LSTC)	11:40 - 12:00 am
Anisotropic Extensions of the SAMP-Model for the Simulation of UD-Composites and Organic Sheets M. Vogler (Matthias Vogler Engineering & Consulting Services); J. Schöpfer (Dr. Ing. h.c. F. Porsche AG); Prof. R. Rolfes (Universität Hannover)			00:00 - 00:20 pm
			00:20 - 01:50 pm
MATERIALS VI – COMPOSITES		CAE PROCESSES III	
Vorschlag einer Versagensfläche für unidirektionale Faserverbunde unter mehrachsiger Belastung P. Starke, H. Altenbach, F. Mayer (EADS)		Virtuelles Benchmarking TEC BENCH: Erfahrungen mit der Korrelation von Simulationsmodellen M. H. Müller-Bechtel (Tecsim Technische Simulation GmbH)	01:50 - 02:10 pm
Computational Simulations of Unidirectional Cellular Material UniPore Subjected to Dynamic Loading Prof. M. Vesenjak, Prof. Z. Ren (University of Maribor); K. Hokamoto (Kumamoto University)		Automated Post-Processing and Report-Generation for Standard Crash & Safety Tests Simulation N. Tzolas (BETA CAE Systems SA)	02:10 - 02:30 pm
Comparative Study of Induced Hydrodynamic Pressure During the Seismic in the Water Tank A. Gazerzadeh (University of Liege)		Erfahrungen beim Produktiveinsatz eines Prozess- und Datenmanagementsystems für Berechnungsingenieure bei AUDI M. Thiele (DYNAmore GmbH); S. Brack (Audi AG)	02:30 - 02:50 pm

HARDWARE AND SOFTWARE EXHIBITION

4a engineering GmbH	Fujitsu Technology Solutions GmbH	Kompetenzzentrum Virtuelles Fahrzeug
Altair Engineering GmbH	Fundación CIDAUT	Lasso Ingenieurges. mbH
Arup	GNS Systems GmbH	LSTC
DYNAmore GmbH	GNS mbH	NAFEMS GmbH
e-Xstream engineering SA	Gompute GmbH	transtec AG
Engineering System International GmbH	Intel GmbH	Panasas Inc.
Engineering Technology Associates Inc.	Inprosim GmbH	

August 2012



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