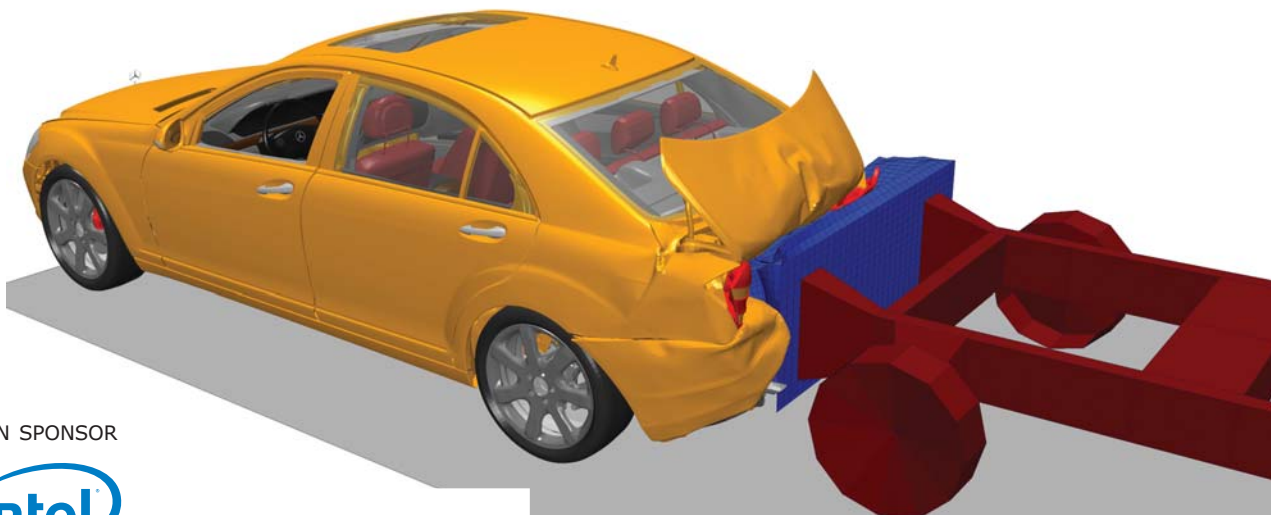


UPDATE

INVITATION – AGENDA

6th GERMAN LS-DYNA FORUM 2007

OCTOBER 11 - 12, 2007, FRANKENTHAL, GERMANY



MAIN SPONSOR



PRE-/POST CONFERENCE SEMINARS / EVENTS

LS-DYNA Modeling of Blast & Penetration: Applications to Protective Structures, Vehicles and Homeland Security Threats

Typ Seminar
Lecturers Paul Du Bois (Consultant);
Dr. Len Schwer (Engineering & Consulting Services)
Date/Time October 9 - 10, 2007, each 9:00am - 5:00pm
Language English
Venue CongressForum Frankenthal
Costs 980,- Euro *, 780,- Euro * for attendees of the 6th LS-DYNA Forum

Corpuscularmethod for Airbag Deployment Simulation in LS-DYNA

Typ Seminar
Lecturer Dr. Lars Olovsson (Impetus Afea AB)
Date/Time October 10, 2007, 9:00am - 5:00pm
Language English
Venue DYNAmore headquarters Stuttgart
Costs 490,- Euro *, 390,- Euro * for attendees of the 6th LS-DYNA Forum

Solutions for Structural Optimization and Design Exploration

Typ Infoday
Lecturers J. P. Leiva (VR&D, Inc.); N. Stander, T. Goel (LSTC);
M. Thiele (DYNAmore GmbH)
Date/Time October 15, 2007, 1:00pm - 5:00pm
Language English
Venue DYNAmore headquarters Stuttgart
Costs free of charge

Introduction to GENESIS

Typ Seminar
Lecturer J. P. Leiva (VR&D, Inc.)
Date/Time October 16 - 17, 2007, 9:00am - 5:00pm
Language English
Venue DYNAmore headquarters Stuttgart
Costs 700,- Euro *

Advanced Structural Optimization with GENESIS

Typ Seminar
Lecturer J. P. Leiva (VR&D, Inc.)
Date/Time October 18, 2007, 9:00am - 5:00pm
Language English
Venue DYNAmore headquarters Stuttgart
Costs 350,- Euro *

* + VAT if applicable

Please find more information:

www.dynamore.de
DYNA
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ORGANISATION

Venue

CongressForum Frankenthal
Stephan-Cosacchi-Platz 5
D-67227 Frankenthal, Germany
Tel. +49 (0) 62 33 - 4 99 - 0
Fax +49 (0) 62 33 - 4 99 - 1 05
www.congressforum.de

Accommodation

The hotels close to the venue offer reduced room rates for the attendees (70,- to 85,- Euro). Please find a list at:
<http://www.dynamore.de/hotel.php>.
Please book your accommodation by yourself using the keyword „DYNAmore“.

Registration fees

Industry participant:
520,- Euro * / delegate
Academic (university employees):
360,- Euro * / delegate
Fee includes: conference attendance, conference proceedings plus CD, gala dinner, lunch (11th/12th), coffee breaks, welcome reception at October 10, 2007.

Tour through BASF AG

Delegates of the LS-DYNA Forum have the opportunity to attend a tour through BASF AG in the afternoon of October 10 (free of charge). Please use attached registration form (page 10/11) or register online at www.dynamore.de. The tour will only take place if sufficient delegates register.

Hardware and software exhibition

Please request further information.

Conference Language

German and English

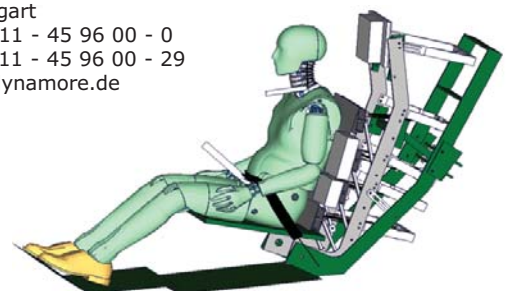
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Registration / Confirmation

Please use attached registration form (page 10/11) or register online at <http://www.dynamore.de/forum.php> an.

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e-mail: info@dynamore.de



Tuesday, Oct. 9 - Wednesday, Oct. 10, 2007

Pre-Conference Seminars

Wednesday, October 10, 2007

2:00pm - 5.00pm

Factory visit BASF AG
(presuming sufficient registrations)

06:00 - 09:00 pm

Registration

from 06:00 pm

Informal welcome
with beverages and snacks



By Courtesy of Adam Opel GmbH

Thursday, October 11, 2007

from 08:00 am

Registration

09:00 - 09:10 am

Plenary

Welcome

09:10 - 10:15 am

Plenary

Keynote presentations

10:15 - 10:45 am

Coffee break

10:45 - 12:15 am

Plenary

Keynote presentations

12:15 - 01:50 pm

Lunch

01:50 - 03:10 pm

Parallel

Crash I

Metal forming I

Fibers/Polymers (Material I)

IT / CAE Processes I

03:10 - 03:40 pm

Coffee break

03:40 - 05:00 pm

Parallel

Damage Modeling (Crash II)

Metal forming II

Impact

IT / CAE Processes II

05:00 - 05:20 pm

Coffee break

05:20 - 06:40 pm

Parallel

Crash III

Metal forming III

Passive Safety I

IT / CAE Processes III

from 08:00 pm

Gala dinner

Exhibition

Friday, October 12, 2007

08:20 - 09:20 am

Parallel

Pedestrian, Head Impact (P. Safety II)

Forming to Crash I

Civil Engineering

09:20 - 09:50 am

Coffee break

09:50 - 10:50 am

Parallel

OoP Load Cases (Passive Safety III)

Forming to Crash II

Optimization

10:50 - 11:20 am

Coffee break

11:20 - 12:20 am

Parallel

Dummy Modeling (Passive Safety IV)

Anisotropy (Material II)

Meta models

12:20 - 02:00 pm

Lunch

02:00 - 03:30 pm

Plenary

Keynote presentations

03:30 - 03:45 pm

Coffee break

03:45 - 05:00 pm

Plenary

Keynote presentations

05:00 pm

Farewell

Exhibition

PLENARY

09:00 - 09:10 am

WELCOME / KEYNOTE PRESENTATIONS

Welcome

U. Franz (DYNAmore GmbH)

09:10 - 09:45 am

Recent Developments in LS-DYNA – I (E)

J. O. Hallquist (Livermore Software Technology Corporation - LSTC)

09:45 - 10:15 am

Kleberverbindungen – Versuch und Simulation

Prof. M. Schlimmer (Universität Kassel)

10:15 - 10:45 am

Coffee break

10:45 - 11:15 am

Modeling of Adhesive Bonding in Crash Simulation

M. Feucht (DaimlerChrysler AG)

11:15 - 11:45 am

Chances and Challenges by Detailed Occupant Crash Simulation Models

A. Heym (Takata-Petri AG); L. Quarg (DaimlerChrysler AG)

11:45 - 12:15 am

Airbag Simulation with LS-DYNA: Past – Present – Future

A. Hirth (DaimlerChrysler AG); A. Haufe (DYNAmore GmbH); L. Olovsson (Impetus Afea AB)

12:15 - 01:50 pm

Lunch

PARALLEL

CRASH I

01:50 - 02:10 pm

Test Based Modeling Approaches for Vehicle Cooling Modules

R. Visinescu, M. Weil, B. Gosolits (Adam Opel GmbH)

02:10 - 02:30 pm

Rupture Modeling of Spot Welds under Dynamic Loading for Crash FE Analysis (E)

K. Kumagai, S. Hayashi, T. Ohno (Toyota Motor Corporation)

02:30 - 02:50 pm

Advanced Simulation Techniques for Low Speed Vehicle Impacts (E)

L. R. Villalonga, T. Enderich (Adam Opel GmbH)

02:50 - 03:10 pm

Crash Performance Increase with Structural BETAFOAM (E)

A. Droste, J. Röttger (DOW Automotive)

03:10 - 03:40 pm

Coffee break

PARALLEL

DAMAGE MODELING (CRASH II)

03:40 - 04:00 pm

Development of Material Model for Crack Propagation of Casted Aluminum (E)

H. Yamasaki (Toyota Motor Corporation); R. Nishimura (Toyota Technical Development Corporation)

04:00 - 04:20 pm

An Overview of Ductile Damage Models in LS-DYNA (E)

P. Du Bois (Consultant); M. Feucht, S. Kolling (DaimlerChrysler AG); A. Haufe (DYNAmore GmbH)

04:20 - 04:40 pm

A Constitutive Model for Plastics with Piecewise Linear Yield Surface and Damage (E)

M. Vogler, S. Kolling (DaimlerChrysler AG); A. Haufe (DYNAmore GmbH)

04:40 - 05:00 pm

An Elastic Damage Model for the Simulation of Recoverable Polymeric Foams (E)

S. Kolling (DaimlerChrysler AG); A. Werner (University of Boston); T. Erhart (DYNAmore GmbH); P. Du Bois (Consultant)

05:00 - 05:20 pm

Coffee break

PARALLEL

CRASH III

05:20 - 05:40 pm

Development of ECE Side Impact MDB Model Using Shell Elements (E)

Y. Takahira, S. Kojima (Toyota Technical Development Corporation); T. Yasuki, S. Taki (Toyota Motor Corporation)

05:40 - 06:00 pm

Computational Simulations of Road Safety Barriers Using LS-DYNA (E)

M. Vesenjak, M. Borovinsek, Prof. Z. Ren (University Maribor)

06:00 - 06:20 pm

Verstärkung geschlossener Profile zur Verbesserung der Crasheigenschaften von Karosseriestrukturen

C. Brüggemann, U. Eilert, Prof. P. Horst (Universität Braunschweig)

06:20 - 06:40 pm

Analyse und Bewertung von Tragwerksprozessen – Detektion von Verzweigungspunkten

M. Liebscher (DYNAmore GmbH); M. Beer (National University of Singapore); Prof. W. Graf (Technische Universität Dresden)

from 08:00 pm

GALA DINNER

METAL FORMING I

Verkürzung der Try-Out-Phase durch Prozessfenster-Ermittlung und Ziehsickenoptimierung

M. Schneider (Salzgitter Mannesmann Forschung GmbH)

Incremental Sheet Forming – Process Simulation with LS-DYNA

J. Zettler, H. Rezai (EADS Deutschland GmbH); B. Taleb-Araghi, M. Bambach, G. Hirt (RWTH Aachen)

Materialmodellierung von höchstfesten Stählen

B. Hochholding (ETH Zürich)

Accurate Hardening Modeling as Basis for the Realistic Simulation of Sheet Forming Processes with Complex Strain-path Changes

V. Levkovitch, B. Svendsen (Universität Dortmund); L. Kessler, M. Aydin (ThyssenKrupp Steel AG)

METAL FORMING II (THERMAL)

Numerische Simulation des Presshärtprozesses unter Berücksichtigung der Gefügeumwandlung

Prof. B.-A. Behrens, P. Ollé (Universität Hannover)

Using LS-DYNA for Hot Forming (E)

A. Shapiro (Livermore Software Technology Corporation - LSTC)

Thermo-mechanisch gekoppelte Prozesssimulation zur gleichzeitigen Warm-/Kaltumformung einer Flanschelle

Prof. A. Matzenmiller, C. Bröcker, S. Gerlach (Universität Kassel)

Prozessnahe Umformsimulation des Presshärtens mit LS-DYNA

C. Klimmek (Simuform GmbH); H. Karbasian, A. Brosius, A. E. Tekkaya (Universität Dortmund)

METAL FORMING III

Reliability Based Design Optimization with LS-OPT for a Metal Forming Application (E)

H. Müllerschön, D. Lorenz (DYNAmore GmbH); Prof. K. Roll (DaimlerChrysler AG)

Newly Developed DYNAFORM 5.6 – Features and Functions (E)

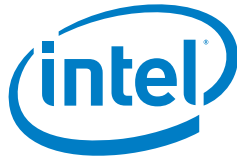
A. Tang, J. He (Engineering Technology Associates, Inc.)

Vision and Development of DAS

– a LS-DYNA based Die System Analysis (E)

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

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FIBERS / POLYMERS (MATERIAL I)

Kunststoffcharakterisierung mit Impetus II – Der effiziente Weg zu validierten dynamischen Materialdaten
M. Fritz, P. Reithofer (4a engineering GmbH);
S. Neumair (Audi AG); U. Franz (DYNAmore GmbH)

Benchmarks for Composite Delamination Using LS-DYNA 971
D. Moncayo (DYNAmore GmbH);
H. Wagner, Prof. K. Drechsler (Universität Stuttgart)

Numerische Nachbildung der Crashfront von faserverstärkten Strukturen mit Hilfe von Mehrschalenmodellen *
M. Holzapfel, G. Kopp (DLR e.V.); P. Adamski, H. Elsenhans
(Dr. Ing. h.c. F. Porsche AG); J. Christlein, T. Hambrecht (Audi AG)

Determination of the Mechanical Properties of Oriented Short Fibre Reinforced Thermoplastics under Different Stress States
F. Becker, A. Kraatz, M. Moneke (Deutsches Kunststoff-Institut)

IMPACT

Optional Strain-Rate Forms for the Johnson Cook Constitutive Model and the Role of the Parameter Epsilon_0 (E)
L. Schwer (Schwer Engineering & Consulting Services)

Simulation of the Drop Impact Behaviour of Metallic Hollow Sphere Structure
W. Rimkus, Prof. M. Merkel (HTW Aalen);
Prof. A. Öchsner (Technical University of Malaysia)

Energieabsorbierende Sandwichstrukturen unter Impact-Belastung (E)
J. Schmidt, W. Winter, Prof. G. Kuhn
(Universität Erlangen-Nürnberg)

Kollisionsfolgenabschätzung bei der Mensch-Roboter-Kooperation mit einem Seitenaufprall Dummy (E)
S. Oberer, C. Meyer (Fraunhofer-Institut IPA)

PASSIVE SAFETY I

Simulation of Curtain Airbag Development with Arbitrary Eulerian Lagrangian Method in LS-DYNA
D. Fokin, E. Dessarud (Altair Engineering GmbH);
C. Ljungqvist (Saab Automobile AB)

Recent Developments in Oasys Software and Barrier Models (E)
R. Sturt, C. Bell (Arup)

Development of Detailed Finite Element Dummy Models (E)
P. Mohan, D. Marzougui, R. Van De Velde, Prof. S. Kan
(George Washington University, NHTSA)

FE Human Modeling in Crash – Aspects of the Numerical Modeling and Current Applications in the Automotive Industry (E)
D. Fressmann, T. Münz, O. Graf (DYNAmore GmbH);
Prof. K. Schweizerhof (DYNAmore GmbH / Universität Karlsruhe)

IT / CAE PROCESSES I

MpCCI – The General Code Coupling Interface (E)
K. Wolf (Fraunhofer-Institut SCAI)

Shape and Parameter Optimization with ANSA and LS-OPT Using a New Flexible Interface (E)
G. Korbetis (BETA CAE Systems S.A.)

LS-DYNA Data Management Using Visual-Environment
S. H. Shetty, V. Ganesan, S. C. Sivalingam, E. De Pommery,
J. L. Duval, M. Sommer (ESI Group)

Windows Compute Cluster Server von Transtec
J. Heichler (Transtec AG)

IT / CAE PROCESSES II

Recent Developments in LS-PREPOST (E)
P. Ho (Livermore Software Technology Corporation - LSTC)

Template Driven LS-DYNA Model Build-up with ANSA Task Manager (E)
I. Makropoulou (BETA CAE Systems S.A.)

Microsoft CCS im Simulationsumfeld
W. Dreyer (Microsoft GmbH)

Unterstützung modul-basierter Arbeitsweise mit MEDINA/SDM
M. Sattler (T-Systems GmbH);
T. Gerlinger (Kube GmbH Ingenieurbüro)

IT / CAE PROCESSES III

Model Sizes in Implicit and Explicit Calculations
U. Jankowski, N. Nösner, M. Sans (Tecsim GmbH)

Towards Highly Scalable Clusters for Crash
A. Bömelburg (IBM Deutschland GmbH)

Automated Assembly of LS-DYNA Models (E)
M. Eick, C. Alscher (Altair Engineering GmbH)

PARALLEL

01:50 - 02:10 pm

02:10 - 02:30 pm

02:30 - 02:50 pm

02:50 - 03:10 pm

03:10 - 03:40 pm

PARALLEL

03:40 - 04:00 pm

04:00 - 04:20 pm

04:20 - 04:40 pm

04:40 - 05:00 pm

05:00 - 05:20 pm

PARALLEL

05:20 - 05:40 pm

05:40 - 06:00 pm

06:00 - 06:20 pm

06:20 - 06:40 pm

AGENDA – FRIDAY, OCTOBER 12, 2007

PARALLEL

PEDESTRIAN, HEAD IMPACT (PASSIVE SAFETY II)

- 08:20 - 08:40 am **LS-DYNA Study of the Innovative Concepts of Engine Bonnets to Improve the Passive Safety of Head Impact**
S. Edelmann, C. Gross, H. Chladek (Inprosim GmbH)
- 08:40 - 09:00 am **Wirkketten der Energieabsorption**
L. Berger, C. Sahr (RWTH Aachen)
- 09:00 - 09:20 am **A CAE Tool for Process Optimisation According to FMVSS201U (E)**
P. Williamson (P+Z Engineering GmbH);
L. Rorris (BETA CAE Systems S.A.)

09:20 - 09:50 am Coffee break

PARALLEL

OOP LOAD CASES (PASSIVE SAFETY III)

- 09:50 - 10:10 am **Corpuscular Method for OoP Simulations – Difficulty Dealing with Small Vent Holes (E)**
L. Olovsson (Impetus Afea AB)
- 10:10 - 10:30 am **Application of Gas Dynamic Method in Development of Airbag Modules**
B. Feng (Jaguar & Land Rover); S. Al-Samarae (Takata-Petri AG)
- 10:30 - 10:50 am **Investigation of the Early Inflation Characteristics of a Complex Folded Knee Airbag with the New Corpuscular Method in LS-DYNA**
M. Freisinger, J. Hoffmann (Toyota Gosei Europe NV);
S. Stahlschmidt (DYNAmore GmbH)

10:50 - 11:20 am Coffee break

PARALLEL

DUMMY MODELING (PASSIVE SAFETY IV)

- 11:20 - 11:40 am **The SID-IIs Dummy Model – Current Status, Model Improvement and Future Development (E)**
Y. Liu, R. Kant, F. Zhu, J. Rasico (FTSS, Inc.)
- 11:40 - 12:00 am **A Full Suite of Hybrid III 50th Dummy Models with the Latest Upgrades – from Runtime Savor, High Quality Performer, to the More Detailed Model (E)**
Z. Zhou, M. Li, J. Rasico, F. Zhu, R. Kant (FTSS, Inc.)
- 12:00 - 12:20 am **Considerations on Detailing Dummy Models Adequately**
S. Stahlschmidt, U. Franz, A. Gromer (DYNAmore GmbH);
A. Hirth (DaimlerChrysler AG)

12:20 - 02:00 pm Lunch

PLENARY

KEYNOTE PRESENTATIONS

- 02:00 - 02:30 pm **Aspekte der Simulation Blechumformung im industriellen Umfeld**
J. Meinhardt, A. Lipp, M. Ganser, M. Fleischer (BMW Group)
- 02:30 - 03:00 pm **Weiterentwicklung der Umformsimulation für Stahlwerkstoffe – Konsequenzen für den Anwender (E)**
J. Gerlach, L. Kessler, H. Rösen (ThyssenKrupp Steel AG)
- 03:00 - 03:30 pm **Methoden und Prozesse zur Kostensenkung – Ein Status der Wandlungen im Fahrzeugentwicklungsprozess durch CAE-Methoden**
N. Schulte-Frankenfeld, M. Brass, A. Pieck (Wilhelm Karmann GmbH)
- 03:30 - 03:45 pm Coffee break
- 03:45 - 04:00 pm **Intel High-Performance Computing Technologies for Engineering (E)**
H. Cornelius (Intel GmbH)
- 04:00 - 04:30 pm **CAE-Entwicklung und Absicherung**
B. Fachbach, M. Wifling (Magna Steyr Fahrzeugtechnik AG & Co KG)
- 04:30 - 05:00 pm **Recent Developments in LS-DYNA – II (E)**
J. Hallquist (Livermore Software Technology Corporation - LSTC)
- 05:00 pm **Farewell**
Prof. K. Schweizerhof (DYNAmore GmbH / Universität Karlsruhe)

FORMING TO CRASH I

- Forming and Crash Induced Damage Evolution and Failure Prediction – Part 1: Extension of the Gurson Model to Forming Simulations (E)**
F. Schmeing (Technische Universität Dresden); M. Feucht (DaimlerChrysler AG); A. Haufe (DYNAmore GmbH)
- Forming and Crash Induced Damage Evolution and Failure Prediction – Part 2: A Comparison of Damage Models (E)**
F. Neukamm (Universität Stuttgart); M. Feucht (DaimlerChrysler AG); A. Haufe (DYNAmore GmbH)
- A Shape-Matching Algorithm for Deep Drawing Applications (E)**
U. Göhner, M. Brühle (University of Applied Sciences Kempten)

FORMING TO CRASH II

- SCAIMapper – Kopplung von Umform- und Crashsimulation**
U. Scholl (Fraunhofer-Institut SCAI)
- From Rolling to Crash – Some Aspects of Process Chain Simulations (E)**
O. Benevolenski, F. Diesch, T. Rist, W. Schmitt (Fraunhofer-Institut IWM)
- Consistent Modelling of Plasticity and Failure in the Process Chain of Deep Drawing and Crash with User Material Model MF-GenYld + CrachFEM for LS-DYNA**
H. Gese, G. Oberhofer, H. Dell (Matferm Partnerschaft Dr. Gese & Oberhofer)

ANISOTROPY (MATERIAL II)

- Phenomenological and Micromechanical Modeling of Anisotropic Effects in Hyperelastic Materials (E)**
M. Timmel, S. Kolling (DaimlerChrysler AG);
Prof. M. Kaliske (Technische Universität Dresden)
- An Anisotropic Material Model for Finite Rubber Viscoelasticity (E)**
D. Liefelth, S. Kolling (DaimlerChrysler AG)
- Transversely Isotropic Plasticity with Application to Fiber-Reinforced Plastics (E)**
M. Vogler, Prof. R. Rolfes (Universität Hannover);
S. Kolling (DaimlerChrysler AG)

CIVIL ENGINEERING

Controlled Building Collapse – Analysis and Validation (E)

G. Blankenhorn, S. Matern (Universität Karlsruhe);
Prof. K. Schweizerhof (DYNAmore GmbH / Universität Karlsruhe)

Simulation of Sloshing Effects in Cylindrical Containers Under Seismic Loading (E)

Prof. S. Kilic, Z. Ozdemir (Bogazici University)

Zur Versagensvorhersage von Silikon-Glas-Klebeverbindung mit LS-DYNA: Identifizierung von geeigneten Materialmodellen und -parametern

S. Brendler (Regierungspräsidium Tübingen);
A. Haufe (DYNAmore GmbH)

OPTIMIZATION

An Overview of New Features in LS-OPT Version 3.3 (E)

N. Stander, T. Goel (Livermore Software Technology Corporation - LSTC); David Björkevik (Engineering Research Nordic AB)

Multi-Objective Optimization with LS-OPT (E)

T. Goel, N. Stander (Livermore Software Technology Corporation - LSTC)

A Comparative Study of Topology and Topometry Structural Optimization Methods Within the Genesis Software (E)

J. P. Leiva, B. C. Watson, I. Kosaka
(Vanderplaats Research and Development, Inc.)

META MODELS

New Features in D-SPEX with Application

K. Witowski, M. Thiele (DYNAmore GmbH);
G. Seer, W. Mühlhuber, M. van den Hove (Audi AG)

Response Surface Simulation – Patchwork Application

S. Pannier, Prof. W. Graf, M. Liebscher (Technische Universität Dresden);
M. Beer (National University of Singapore);

Anwendung und Grenzen von neuronalen Netzen als Metamodell am Beispiel von Polyamiden

P. Reithofer, M. Fritz, (4a engineering GmbH);
P. Fuchs (Polymer Competence Center)

PARALLEL

08:20 - 08:40 am

08:40 - 09:00 am

09:00 - 09:20 am

09:20 - 09:50 am

PARALLEL

09:50 - 10:10 am

10:10 - 10:30 am

10:30 - 10:50 am

10:50 - 11:20 am

PARALLEL

11:20 - 11:40 am

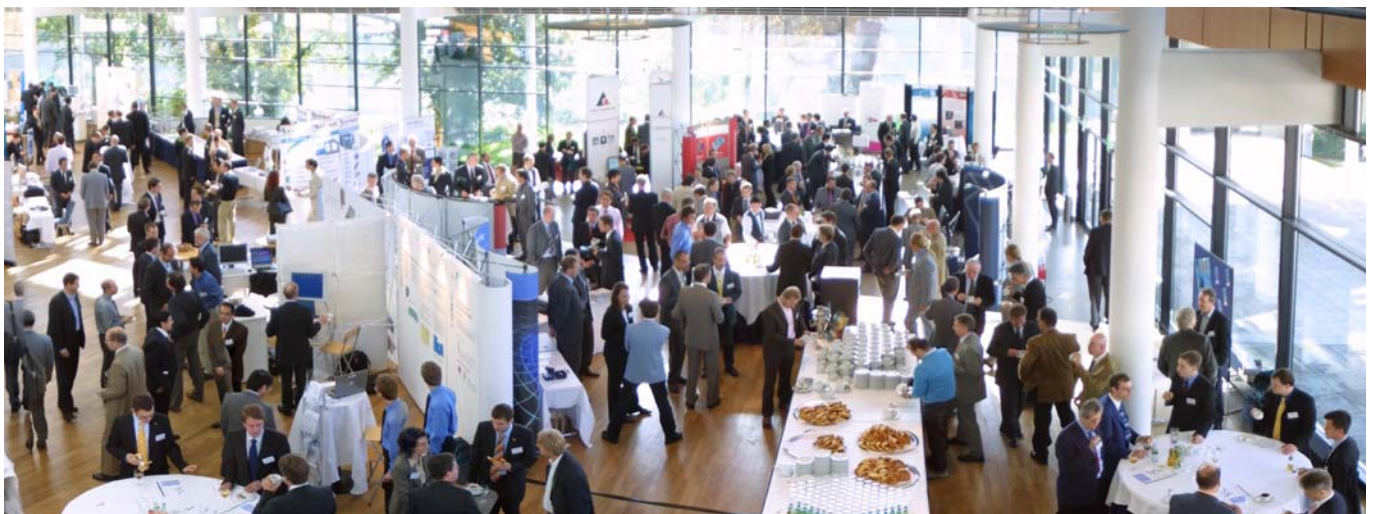
11:40 - 12:00 am

12:00 - 12:20 am

EXHIBITORS

(July 2007)

4a engineering GmbH
Altair Engineering GmbH
Arup
Carhs GmbH
DYNAmore GmbH
Engineering Technology Associates, Inc.
ESI GmbH
FE-Design GmbH
Fraunhofer Institut SCAI
GNS Systems GmbH
GNS mbH
Hewlett-Packard GmbH
IBM Deutschland GmbH
Intel GmbH
Inprosim GmbH
JRI Solutions, Limited
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Nafems
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Sun Microsystems GmbH
T-Systems Enterprise Services GmbH
Tecosim GmbH
transtec AG
VR&D, Inc. ...



Exhibition area of the 5th LS-DYNA Forum in Ulm, 2006



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