

PLEASE COMPLETE AND FAX TO FAX-NO. +49 (0)711 - 45 96 00 - 29

Address for window envelope

DYNAmore GmbH  
 Industriestr. 2  
 D-70565 Stuttgart  
 Germany

I hereby register for the following seminar/information day/support day:

**Introduction**

- Introduction LS-DYNA  
 Optional:  only 1<sup>st</sup> and 2<sup>nd</sup> day (basics)  
                    only 3<sup>rd</sup> day (further topics)
- Introduction LS-PrePost
- Introduction Nonlinear Implicit Analyses
- Introduction to Simulation Technology
- Introduction to Isogeometric Analysis
- Info:** New LS-DYNA Features
- Info:** Cloud Solutions

**Basics/Theory**

- Element Types and Nonlinear Aspects
- User Interfaces in LS-DYNA

**Crash/Short-Term Dynamics**

- Crashworthiness Simulation
- Contact Definitions
- Joining Techniques for Crash Analysis
- Failure of Fiber Reinforced Polymer
- Info:** Drop Tests

**Passive Safety**

- Introduction to Passive Safety Simulation
- CPM for Airbag Modeling
- Dummy/Pedestrian Impactor Modeling
- Info:** Human Modeling and Biomechanics
- Info:** Certification EuroNCAP TB024

**Metal Forming/Process Simulation**

- Metal Forming with LS-DYNA  
 Optional:  only 1<sup>st</sup> and 2<sup>nd</sup> day  
                    only 3<sup>rd</sup> day
- Forming Simulation with eta/DYNAFORM
- Hot Forming with LS-DYNA

- Welding Simulation with LS-DYNA
- Sheet Metal Forming with OpenForm
- Introduction to Draping Simulation
- Info:** Welding/Heat Treatment
- Info:** Forming Trends

**Materials**

- Material Modeling for Metals
- Damage and Failure Modeling
- Adv. Damage Modeling: Orthotropic Materials
- Parameter Identification with LS-OPT
- Modeling Polymers and Elastomers
- Short Fiber Reinforced Polymers
- Continuous Fiber Reinforced Polymers
- Concrete and Geomaterial Modeling
- Simulation of Thermoplastics
- User Materials
- Info:** Composite Analysis
- Info:** Material Characterizations/Measurement
- Info:** Simulation of Plastics

**Implicit**

- Implicit Analysis
- NVH, Frequency Domain Analysis and Fatigue

**Particle Methods**

- Smoothed Particle Hydrodynamics (SPH)
- SPG - Manufacturing/Material-Failure
- Discrete Element Method (DEM)

**Multiphysics**

- ALE and Fluid-Structure Interaction
- ICFD - Incompressible Fluid Solver  
 Optional:  only 1<sup>st</sup> day    only 2<sup>nd</sup> day
- CESE - Compressible Fluid Solver

- Resistive Heating and Battery Modeling
- Electromagnetism
- Info:** Multiphysics

**High Energy Events**

- Short Duration Events
- Blast Modeling
- Penetration Modeling
- Explosives Modeling for Engineers

**Optimization**

- LS-OPT - Optimization/Robustness  
 Optional:  only 1<sup>st</sup> and 2<sup>nd</sup> day  
                    only 3<sup>rd</sup> day
- Basics of Structure Optimization
- Structural Optimization with GENESIS
- Info:** Optimization

**Pre- and Postprocessing**

- Introduction to PRIMER for LS-DYNA
- ANSA and METApost for LS-DYNA

**Support/Webinars**

- Support day: LS-DYNA
- Support day: Occupant Safety
- Webinar
  - ENVYO (3 June)
  - LS-DYNA New Features (23 Sept.)
  - Composite Analysis (11 Nov.)

**CAE Processes/SDM/IT**

- SDM and Process Management LoCo  
 Optional:  only 1<sup>st</sup> day    only 2<sup>nd</sup> day
- Info:** Process Autom./SDM

Date (please specify): \_\_\_\_\_

- I will cancel my registration if the course will be held in German language.

**Sender**

Company / University: \_\_\_\_\_

Dept. / Institute: \_\_\_\_\_

Title, first/last name: \_\_\_\_\_

Street: \_\_\_\_\_

ZIP code, town/city: \_\_\_\_\_

Tel.: \_\_\_\_\_

E-Mail: \_\_\_\_\_

- I agree that DYNAmore will send me information about LS-DYNA and upcoming events.  
 You may, at any time, revoke your consent by contacting DYNAmore GmbH via phone or in writing.

Date, Signature: \_\_\_\_\_

Declaration of consent to the use of personal data:  
 With your registration you allow us the use and the processing of your data for seminar organization.