

Introductory Course: Developing Compute-efficient, Quality Models with LS-PrePost® 3 on the TRACC Cluster October 21-22, 2010 West Chicago, Illinois

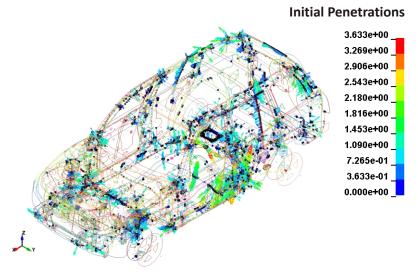
The US Department of Transportation funded
Transportation Research and Analysis Computing Center
(TRACC) at Argonne National Laboratory will hold a training
course on (1) LS-PrePost – a tool for pre- and postprocessing of LS-DYNA simulations – and (2) on how to use
the software on the TRACC High Performance Cluster.

LS-PrePost was developed by Livermore Software Technology Corporation (LSTC) and is used with their LS-DYNA and LS-OPT codes. The recently released LS-PrePost 3 allows user to build the geometry, create the mesh, manage the LS-DYNA model and post-process the results within a new, modern interface. The software provides new CAD capabilities including geometry fixing tools, new application tools, and improved and reorganized tools known to users of earlier versions.

The LS-PrePost Introductory Course is intended primarily for finite element analysts who have prior basic knowledge of the LS-DYNA software package. The class will provide the analyst with the introduction to the LS-PrePost; thus, prior software experience is not required.

The course will focus on the early stage of the model development process within LS-PrePost including geometry cleanup and mesh quality control tasks. The primary goal of the course is to introduce the capabilities of the software. The secondary goal is to show how to apply these capabilities to build computationally efficient models. All introduced techniques and tools will be illustrated through simple hands-on examples. Presentation material, including tutorial files, will be available to attendees for prior download to ease the interaction during the course.

The course will also present specifics of running and tracking the LS-DYNA jobs on the TRACC cluster in our newly developed graphical mode.



Instructors

The course will be given entirely by TRACC staff.

The workshops will be led by Dr. Cezary Bojanowski,

Computational Structural Mechanics Engineer. Organization
and support to the participants will be provided by Dr. Ron
Kulak, Senior Computational Structural Mechanics Leader
at TRACC.

Location

The training course will be held at the DuPage Airport Flight Center in West Chicago where Argonne's TRACC offices are located. The training sessions will be held in TRACC's Collaboratory, which is on the third floor of the flight center. The training sessions will also be broadcast over the Internet. The link to the Adobe Connect session will be provided to registered participants.

Registration

Participation in the training course is free. For onsite attendees travel, lodging, and other expenses are the responsibility of the participant. Please contact us at the number or E-mail address shown below if you would like to attend the training sessions either by Internet or in person.

Contact Information

Dr. Ronald F. Kulak Argonne TRACC 2700 International Drive, Suite 201 West Chicago, IL 60185 630.578.4245 CSM_TRACC@anl.gov www.tracc.anl.gov







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Administrative Introductions

- Training for use of LS-PrePost on the TRACC Cluster will be presented over two days.
- Sessions will start at 9:30 AM (CST) and end at 4:30 PM. Lunch break will be from 12:30 PM till 1:30 PM.
- The course is primarily based on hands-on tutorial problems; thus, a priori installation of software is needed. Please go to www.lstc.com/lspp/

Day 1 - October 21, 2010 9:30 AM-4:30 PM (CST)

- 1. Welcome Remarks by Dr. Hubert Ley, Director
- 2. Computational Structural Mechanics by Dr. Ronald F. Kulak
- 3. Overview of LS-PrePost 3 New Interface
- 4. Creating and Editing Geometry, Geometry Cleanup
- 5. Creating and Editing Meshes, Selected Meshing Rules
- 6. Introduction to Block Mesher

Day 2 - October 22, 2010 9:30 AM-4:30 PM (CST)

- 1. Dummy Positioning and Seatbelt Fitting Tools
- 2. Model Checking:
 - Mesh Quality Checking
 - Model Checking Tools
 - Initial Penetration Checking
- 3. Tools for Submitting and Tracking LS-DYNA Jobs on TRACC's Cluster

Hotel: Pheasant Run Resort

www.pheasantrun.com

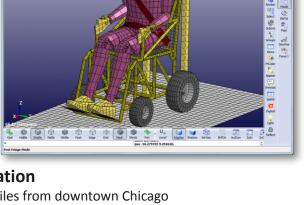
4051 E Main Street, St. Charles, IL 60174

Reservations: 1.800.474.3272 Direct Telephone: 630.524.5042

Fax: 630.584.9831

Email: jfreeman@pheasantrun.com

Rate: \$109/night



Location

42 miles from downtown Chicago 8 miles from Interstate 88 (East/West) 13 miles from Interstate 90 (East/West) 14 miles from Interstate 355 (North/South)

Directions

From I-88 Tollway (Coming from the East or West)

To Farnsworth/Kirk Rd: Going North (toll exit) To 38/Roosevelt Rd/State St: Going East

To Kautz Rd: Turn Left

To International Drive: Turn Right

From I-90/ Northwest Tollway (Coming from either direction)

To Route 59: Going South To 64/ North Ave: Going West

To Kautz Rd: Turn Left

To International Drive: Turn Left

From I-355/ North-South Tollway (Coming from the South)

To 38/ Roosevelt Rd: Going West

To Kautz Rd: Turn Right

To International Drive: Turn Right

From I-355/ North-South Tollway (Coming from the North)

To 64/ North Ave: Going West

To Kautz Rd: Turn Left

Hotel: Comfort Inn & Suites

www.comfortinngeneva.com

Reservations: 1.877.424.6423

Fax: 630.208.7844

Direct Telephone: 630.208.8811

1555 E Fabyan Parkway, Geneva, IL 60134

Email: sales@ComfortInnGeneva.com

Rate: \$104(\$89 advance booking)/night

To International Drive: Turn Left

Hotel: Country Inn & Suites

www.countryinns.com/stcharlesil

155 38th Avenue, St. Charles IL 60174

Reservations: 1.800.596.2375 Direct Telephone: 630.587.6564

Fax: 630.587.6568

Email: cx schl@countryinns.com

Rate: \$92(\$62 advance booking)/night

