

AGENDA

SAE Fatigue Design & Evaluation Committee Meeting
April 14-16, 2003 Peoria, Ill.
Host: Caterpillar, Inc.

A thirty room block has been held at the Americinn, Peoria. Room rates are \$50.00 per night with continental breakfast included. Please make reservations before March 15, 2003 (the earlier the better) and be sure to mention SAE FD&E --
Americinn, Peoria (Phone: 309-692-9200 Toll Free: 800-634-3444.)
9106 N. Lindbergh Dr.
Peoria, IL, 61615. 5 miles from the Tech Center.

Since the meeting is being held at a Caterpillar Technical Center, Building A, please RSVP by email to Nash_Jeff_P@CAT.com with name, company, and a phone # if you are planning to attend. Currently we have received responses from 25 people. We need advance notifications to prepare security badges. Please note that no cameras are allowed. Attire at the Caterpillar Technical Center is business casual.

There will be a \$20.00 registration fee for coffee, donut, pop, etc.

Please prepare all presentations in Powerpoint format!!!! It would be helpful if the presenters could send their presentations to Jeff prior to the meeting (by Friday before). That way he could put them on the FD&E website prior to the meeting. Also, if the presenters could write a short abstract on their topic, we could circulate that to the committee as well as others to see if it generates interest for more attendance.

Please advise if you want to attend remotely and we will make accommodations if there is interest.

Monday Evening, April 14, 2003 -----

6:00 pm Executive Committee Meeting
Americinn (meal payment dutch treat)

Tuesday Morning, April 15, 2003 -----

All technical meetings will be held at the Caterpillar Technical Center. Parking? (See attached map). Dan will be sending maps.

7:30 Registration Coffee, Juice and Donuts Technical Center, Bldg. A - Auditorium

8:00 Main Committee Meeting - Technical Center, Bldg. A - Auditorium
Announcements John Hakala

Welcome Mr. Robert Sutton, TSD Director, Lab-Based Systems and Components Development
Local arrangements Dr. Mary Wickham, Dan Lingenfelser, and Jeff Nash

8:20 Henry O Fuchs Travel Award and Presentations
"Correlation and Prediction of Fatigue Crack
Growth Data for Different R-ratios,"
Sudip Dinda, Western Michigan Un. (30 min.)

8:50 "Characterization of Small Cracks Using Single Crystal Plasticity"
Gabriel Potirniche, Ph.D. Student, Mech. Eng'ng Dept.,
Miss. State Un. (30 min.)

9:20 "Integrated Steel Casting Simulation with Durability Analysis,"
Prof . Beckermamm/Dr. Richard Harding Un. of Iowa (30 min.)

9:50-10:10 Break

10:10 "Fatigue testing and Modeling of Axially Loaded Cast Steel,"
Kyl Sigl (15 min.)

10:25 "Update on High Mean Stress Axial Loaded Bolt Program,"
Ralph Stephens (10 min.)

10:35 "OEM Data Management Practice Example," Ray Thompson, John Deere
(20 min.)

10:55 "Streamlining the Road Load Data Process," Kevin Knill, nCode (20 min.)

11:15 "Engineering Data Management," Mike Englerth, MTS Systems (20 min.)

11:35 "Problem of Residual Stresses in Weldments," Eric Johnson/Jim Wong
(30 min.)

12:05 1:00 Lunch Break

Tuesday Afternoon, April 16, 2002 -----

1:00 Surface Enhancement Division Meeting Jack Champaigne - will run
concurrently
to the other meeting - Technical Center Bldg. A Room 202

1:00 Presentations on Virtual Product Development, Dr. Ric Mousseau,
Un. of Toledo (30 min.)

1:30 "Progress Report on ATV Book," Al Conle, Ford Motor Co, (10min.)

1:40 "Development of Modeling and Simulation Process for Durability Analysis

of a Military Vehicle," K.K.Choi, Un. of Iowa CCAD (30min.)

2:40-3:00 Break Pop and cookies

3:00 Title(?) Dick Kading (30 min.)

3:00 Introduction to the Weld Project - Mohamad El-Zein, John Deere (5 min)

3:05 "Weld Assessments," Jin Qian/GregGlinka (30 min.)

3:50 "Weld Assessment Methodology of FEMFAT," Helmut Dannbauer/Dietmar Peiskammer, FEMFAT (30 min.)

4:20 "Fatigue Behavior and life Prediction of Riveted Joints" Bing Li, U.of Toledo (30 min)

Wednesday Morning, April 16, 2003 -----

7:30 Coffee and Donuts

8:00 Weld Fatigue Discussions (15 min. each)

Peter Kurath, Un. Illinois

Steve Tipton. Un. Of Tulsa

Al Conle, Ford Moter Co.

Mark Pompetski,

Yung-Li Lee

Momahamad El-Zein (The Real Answer!)

9:30 Planning Sessions to be scheduled following input from Executive Committee.

Shot Peened Welds?

Aluminum Welds?

Laser Welds?

Friction Stir Welds?

Rivets?

Adhesive Joints?

Current Topics: Weld Fatigue

Future planning for Short Course in Fatigue Design

Virtual Prototype

Discuss Direction and Goals of SAE FD&E

Material Properties Division Planning Meeting

12:15 Lunch (may switch to 11:30, we have to check cafeteria hours)

2:00 End of Meeting