

AGENDA

SAE Fatigue Design and Evaluation Committee
April 3-4, 2001 in Detroit Michigan
(Local Sponsor: Zhengxian Bai General Motors)

General Information:

The meetings will be held at the Doubletree-Airport. If you have not made reservations you should do so as soon as possible. The Doubletree has a shuttle to and from the Detroit Airport.

Doubletree-Airport
Romulus, Michigan
734-467-8000

Zhengxian Bai
General Motors

Monday Night April 2, 2001

7:00 PM Executive Committee Meeting (Huron Room)

TUESDAY MORNING, (APRIL 3, 2001)

7:30 AM Registration and Coffee, Juice & Donuts

8:00 Main Committee Meeting - Room: Huron
Announcements - Phil Dindinger
Local Arrangements -Zhengxian Bai
Education
Next Meeting -

8:15 Henry O. Fuchs Student Travel Award & Presentation

"Direct Measurements of Dynamic Shear Transfer Lengths in a
Model Laminated System" - Mark Brandi - University of Illinois

Surface Enhancement Division Meeting will run concurrent to the other meetings in Salon 3.

9:00 Structural Analysis Division - Zhengxian Bai

- Review and approve minutes from last meeting
- ATV Project Update
- Technical Presentations
- "Integrated Durability System for CAE based Vehicle Development"

by Mark Pompetzki, Vivek Sandell, and Zhengxian Bai

- "Fatigue Based Channel Sensitivity Study for SUV Frames"
by David Zhang

10:00 Break: Coffee & Juice

10:30 Divisional Progress Meetings Cont. û Room: Huron

Surface Enhancement Division Meeting will run concurrent to the other meetings in Salon 3.

10:30 Component Testing Division - Paul Lubinski

- Approval of October 2000 meeting minutes.
- Call for volunteer for division vice-chair
- Progress Report of ATV - Ric Mousseau
- Call/plea for attendance at the division planning session to generate ideas for new activities in the division
- Technical Presentations
- "Effects of Fatigue Calculation Parameters on the Resulting Tests Generated from Fatigue based Editing with Emphasis on the Fatigue Property scatter/statistics issue"
By Paul Lubinski

11:45 Lunch -- Local Restaurants

TUESDAY AFTERNOON, (APRIL 3, 2001)

1:00 Divisional Progress Meetings (Continued) û Huron Room

Surface Enhancement Division Meeting will run concurrent to the other meetings in Salon 3

1:00 Fatigue Life Prediction Division - Chin-Chan Chu

- Approval of October 2000 meeting minutes.
- Damage Tolerance Task Group - Ric Leist
- Technical Presentations:
- "Influence of High R-Ratio on Fatigue of 1045 Steels with Three Hardness Ranges," by R. Stephens, U. of Iowa.
- "Computer Simulation of Stiffness and Fatigue Behavior of Spot Welds in Automotive Structures," by H. Dannbauer,

J. Gumpinger, and D. Peiskammer, Magna Steyr

2:00 Road Load Data Acquisition Division - Christoph Leser

- Approval of October 2000 meeting minutes.
- ATV Related Activities
- Technical Presentations
- "Effects of Varying End Constraints Observed in Finite Element Analysis and Empirical Analysis of a Transducer", by Jodi Sommerfeld, MTS Systems
- "Update on Empirical Dynamics Modeling Activities of the ATV Shock Absorber" by Christoph Leser, MTS Systems

3:00 Break: Coffee & Soft Drinks

3:30 Materials Properties Division - John Bonnen

- Approval of October 2000 meeting minutes.
- Status of Current Activities
- LCF properties of ATV frame - Phil Dindinger
- Open Discussion: Fatigue Properties Database, A Proposal. Hosted by Ron Landgraf. Discussion concerning open fatigue data, common data formats, and data sharing

5:00 PM Social Hour Sponsored by ncode

WEDNESDAY MORNING, (APRIL 4, 2001)

7:30 AM Coffee, Juice and Donuts

8:00 Technology Session û Room: Huron

8:00 - 8:40 "Application of Damage Tolerance Principles in the Aviation Industry" - Terry Ercolani - Cessna

8:40 - 9:20 "Damage Tolerance Analysis of a Business Jet"
by Claire Stroede - Raytheon

9:20 - 10:00 - TBD

10:00 - 10:30 BREAK

10:30 - 11:10 - TBD

11:10 - 11:30 - TBD

11:30 - Noon - TBD

12:00 Lunch -- Local Restaurants

WEDNESDAY AFTERNOON (APRIL 4, 2001)

1:15 Divisional Planning Sessions (Concurrent Sessions)

Room: Huron

Room: Concierge

1:15 Road Load Data Acquisition Division Structural
Analysis Division

1:45 Fatigue Life Prediction Division Component
Testing Division

2:30 Material Properties Division

3:30 End of Meeting

Tuesday April 3, 2001

9:00 Surface Enhancement Division - Jack Champaigne

Room: Salon 3

Review and Approval of April 2000 meeting minutes.

Topics for Discussion:

1. Report on J2277 Shot Peening Coverage by Dave Francis
2. Report on HS-84 Handbook on Shot Peening by Jack Champaigne
3. Report on Computer Generated Almen Saturation Curves by Dale Lombardo

4. Report on Shot Peening Center at Purdue University by Christine Corum

5. Report on AMEC committee AMS 2430 Shot Peening by Jack Champaigne

6. Report on J2441 Shot Peening by Dave Hale

End of Meeting

WEDNESDAY APRIL 11, 2001

Surface Enhancement Division Meeting Agenda - Room: Salon C

Topics for Discussion

Update on J2441 Shot Peening - Dave Hale

Update on J2277 Shot Peening Coverage - Dave Francis

Update on HS-84 Manual on Shot Peening - Jack Champaigne

Update on AMS 2430 - Shot Peening - Jack Champaigne

Update on Purdue Shot Peening Center - Jack Champaigne

Update on SAE electronic ballots and Web pages - Jack Champaigne

Update on Almen saturation curve generation programs - Jack Champaigne