

9/15/03

SAE Fatigue Design & Evaluation Committee Meeting  
October 6-8, 2003 Iowa Memorial Union, Iowa City, Iowa, 52240  
Host: Professor Ralph Stephens and the University of Iowa

SAE FDE will meet at the U of Iowa  
October 6 7, 8, 2003

in the Iowa Memorial Union, IMU, Iowa City, Iowa 52240.  
The IMU is located on the campus in downtown Iowa City right near  
Old Capital, the hub of the university. IMU is on the west  
side of Madison Avenue with a parking ramp on the east side of  
Madison Avenue. Parking is free for people staying at the IMU  
hotel, but validation is needed.

Rooms at the IMU Hotel that is located in the west end of the IMU have  
been reserved and are still available until September 15, 2003 (cutoff  
date). This includes 10 rooms beginning Sunday evening and 35 rooms for  
Monday and Tuesday nights. The group room fees per night will be single  
normal \$74, single river view side \$79, double normal \$84 and double  
river view side \$89. Additional tax will be just 5%. Check-in is at  
3:00 pm and check-out is at noon.  
For phone reservations use 319-335-3513  
For FAX reservations use 319-335-0497  
For email reservations use iowahouse@uiowa.edu

Please RSVP by email to jmhakala@aol.com with name, company, and a phone  
#  
if you are  
planning to attend.

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

Please prepare all presentations in Powerpoint format, and send a note  
with your  
"permission to post" to John Hakala at jmhakala@aol.com, so we can post  
them on our  
website [www.fatigue.org](http://www.fatigue.org) after the meeting. See note below.

Monday Oct 6, 2003

12 Noon - 6:00 pm - Surface Enhancement Group Meeting - Kirkwood Room  
(Room 257)

6:30 pm-11:00 pm Executive Committee Meeting - Kirkwood Room (Room 257)

Tuesday Morning, April 15, 2003

All technical meetings will be held in the Terrace Room (Room 171)

7:30 Registration - Coffee, Juice and Donuts

8:00 Main Committee Meeting  
Announcements - John Hakala

Welcome  
Local arrangements - Professor Ralph Stephens

8:15 Henry O Fuchs Travel Award and Presentations

"Relaxation of Welding Residual Stresses and their Effect  
on Variable Amplitude Fatigue Life,"  
Chris Sanger,  
Dept. of Mechanical Engineering  
University of Illinois Urbana-Champaign. (30 min.)

8:45 Mike Weaver, Weaver Engineering/Northwest Numerics,  
"Fatigue Estimation of Welds with FEA,"

9:15 Pingsha Dong, Battelle, "Fatigue Life of Welded Structures"

9:45-10:00 Refreshment Break

10:00 Al Lewis, LMS, "Durability Prediction of a Production  
Sport Motorcycle Aluminum Frame."

10:30 Al Conle - Status report on ATV Publication

10:40 Adilla Afzal and Pravardhan Shenoy, Un. of Toledo,  
"Dynamic Load Analysis and Fatigue Behavior of Forged  
Steel vs. Powder Metal Connecting Rods"

11:10 Vladimir Ogarovic -nCode International Inc., "Thermal Mechanical  
Fatigue"

11:40am - 1:00pm Lunch Break

Tuesday Afternoon, April 16, 2002

1:00 Husheng Gao - Un. Illinois, "Deformation and Fracture of  
Thick Thermal Barrier Coatings"

1:30 Jenifer Ratner, University of Iowa, "Damage Tolerant  
Methodologies for Aerospace Structures"

2:00 Nate Horn, Un. of Iowa, "Bolt Test Program"

2:30 Profesor Ralph Stephens, Un. of Iowa, "Bolt Test Program"

2:40 Professor Sharif Rahman, Mechanical and Industrial Engineering  
Dept.,  
Un. of Iowa, "Durability and Reliability of Microelectronics"

3:10 Refreshment Break

3:30 Tsung-Yu Pan, "Spot Friction Welding for Aluminum Sheet Joining"  
4:00 Mike Santella, Oak Ridge National Labs, "Friction Stir Processing  
of Cast  
Aluminum."

5:00 pm National Advanced Driving Simulator (NADS) Facility Tour -  
Oakdale Campus  
( 5 miles from the IMU )

6:00 pm Social hour at LMS

Wednesday Morning, April 16, 2003  
Terrace Room (Room 171)

7:30 Coffee and Donuts

8:00 Ted E. Fine, Entela "HALT and FMVT" (Wed. am)

8:30 Josh Horn - John Deere, "HALT Testing"

9:00 Mohamad El-Zein, John Deere, "Fatigue after Impact of Composite  
Materials"

9:30 Possibly John Bonnen, Ford Motor Co., Fatigue Response of  
Friction Butt Welded AA6061-T6511 Plates"

9:30 Refreshment Break

9:45- 12 noon:

Planning Sessions to be scheduled following input from Executive  
Committee.

Shot Peened Welds? Reformulate the "Divisions?"  
Aluminum Welds?  
Laser Welds?  
Friction Stir Welds?  
Rivets?  
Adhesive Joints?  
Bolted Joints?  
Others?

12:00 Lunch

12:00 Executive Committee Wrap-up Meeting at Lunch

1:00 End of Meeting

September 12, 2003

Speakers,

The SAE Fatigue Design and Evaluation Committee would like to say "thank  
you very much"

for participating in our October 2003 meeting in Iowa City, Iowa, with your presentations.

We would like to post your presentation on our website at [www.fatigue.org](http://www.fatigue.org).

The materials presented here are NOT SAE official documents, and are only meant as working documents, with the usual working document errors. The material should not be used for any other purposes except Fatigue Design and Evaluation committee work.

If this is acceptable please reply with a note with your permission to post.

If this is for some reason not acceptable, please send a "please do not post" note.

Thanks again for your participation!

John Hakala

Chairman, SAE Fatigue Design and Evaluation Committee