

# Agenda

## FEMFAT USER MEETING WORKSHOP 2005

### ***Newcomer***

09:00	<i>Welcome at the reception of ECS</i>
<b>09:00-10:00</b>	<b>FEMFAT BASICs</b>
<b>10:00-10:30</b>	<b>FEMFAT PLAST and BREAK</b>
10:30-10:45	<i>Coffee Break</i>
<b>10:45-11:45</b>	<b>FEMFAT MultiAXial Fatigue</b>
<b>11:45-12:30</b>	<b>FEMFAT joining methods WELD and SPOT</b>
12:30-13:30	<i>Lunch Break</i>
13:30-14:20	<i>Facility Tour</i>
<b>14:20-15:30</b>	<b>Examples to Fatigue Analysis of a swivel hub with FEMFAT BASIC, FEMFAT MAX and considering the Secondary Dendrite ArmSpacing</b>
15:30-16:00	<i>Discussion</i>

Lecturer:

Ing. Marco Fahrner  
DI Axel Werkhausen

**The example is planned to be shown with FEMFAT v. 4.6**

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# *Chassis*

- 09:00            *Welcome at the reception of ECS*
- 09:00-10:30**   **Eurocode 3 / BS 7608**  
**Automatic Stress Correction for welding end/start**
- 10:30-10:45    *Coffee Break*
- 10:45-11:30**   **Weld Database**  
**(laser welds, aluminum welds, ....)**
- 11:30-12:30**   **Spot joint – Force Based Concept**  
**(CBEAM, CWELD, CHEXA)**  
**Example spot joint with CBEAM-forces**
- 12:30-13:30    *Lunch Break*
- 13:30-14:20    *Facility Tour*
- 14:20-15:30**   **Example welding seam**
- 15:30-16:00    *Discussion*

Lecturer:

Ing. Eberhard Dutzler  
DI Klaus Hofwimmer

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## FEMFAT USER MEETING WORKSHOP 2005

# *Engine*

09:00	<i>Welcome</i>
<b>09:00-09:30</b>	<b>FEMFAT NVH</b>
<b>09:30-10:30</b>	<b>FEMFAT HEAT</b>
10:30-10:45	<i>Coffee Break</i>
<b>10:45-11:15</b>	<b>Boundary Layer Model</b>
<b>11:15-12:30</b>	<b>Fatigue Analysis of a Crankshaft</b>
12:30-13:30	<i>Lunch Break</i>
13:30-14:30	<i>Facility Tour</i>
<b>14:30-15:30</b>	<b>Example: Fatigue Analysis of a Crankshaft</b>
15:30-16:00	<i>Discussion</i>

Lecturer:

DI Michael **Fischer**  
DI Csaba **Halaszi**  
DI Manfred **Engelbrechtsmüller**

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FEMFAT USER MEETING WORKSHOP 2005

## *Optimization*

09:00	<i>Welcome</i>
<b>09:00-09:15</b>	<b>Introduction</b>
<b>09:15-09:45</b>	<b>TOSCA.shape</b>
<b>09:45-10:45</b>	<b>Stress based Shape Optimization</b>
10:45-11:00	<i>Coffee Break</i>
<b>11:00-12:30</b>	<b>Damage based Shape Optimization</b>
12:30-13:30	<i>Lunch Break</i>
13:30-14:20	<i>Facility Tour</i>
<b>14:20-14:35</b>	<b>TOSCA.topology</b>
<b>14:35-15:45</b>	<b>Damage based Topology Optimization</b>
15:45-16:00	<i>Discussion</i>

Lecturer:

DI Klaus **Puchner**  
DI(FH) Frank **Fischer**  
DI Boris **Lauber** (FE-Design)