



## EFFECT OF WELDING RESIDUAL STRESSES ON STRUCTURAL INTEGRITY OF COMPONENTS

10–11 MARCH 2020 at FRAUNHOFER INSTITUTE FOR MECHANICS OF MATERIALS IWM, WÖHLERSTRASSE 11, 79108 FREIBURG, GERMANY

### PROVISIONAL PROGRAMME

(START AND END AROUND NOON)

SPEAKER	TITLE OF PRESENTATION	INSTITUTION	COUNTRY
<b>Topic 1. FFS Assessment of Cracked Components with Residual Stresses</b>			
Uwe Zerbst	<i>Welding residual stresses and structural integrity from the point of view of fracture mechanics</i>	BAM, Berlin	Germany
Isabel Hadley	<i>Development of BS 7910 and R6 procedures, effects of residual stress on fracture, residual stress, probabilistic treatment of residual stress</i>	The Welding Institute (TWI), Cambridge	UK
Nikolai Kashaev	<i>Laser shock peening as residual stress engineering approach to improve the fatigue resistance of safety critical components</i>	Helmholtz-Zentrum, Geesthacht	Germany
Aleksandar Sedmak	<i>The effect of residual stresses on structural integrity assessment of pressure vessels</i>	University of Belgrade	Republic of Serbia
<b>Topic 2. Welding Residual Stresses: Measurement, Estimation, Consideration in FFS Codes</b>			
Yanhui Zhang	<i>Residual stress distribution in weldments and its effect on fatigue, large-scale fatigue testing</i>	The Welding Institute (TWI), Cambridge	UK
Jazeel Chukkan	<i>Residual stress redistribution in welded structures during elastic shakedown, residual stress measurement</i>	The Welding Institute (TWI), Cambridge	UK
Jonas Hensel	<i>Evaluation of welding residual stresses at different positions of the weld</i>	Technische Universität Braunschweig	Germany
Mike Smith	<i>Avoiding plausible rubbish: the challenges of validated multi-scale modelling of the welding process</i>	University of Manchester	UK
Florian Dittmann	<i>Estimation of welding residual stresses in austenitic pipe butt welds by means of ANN</i>	Fraunhofer IWM, Freiburg	Germany
<b>Topic 3. Round Table Discussion</b>			

## HOTELS IN FREIBURG OFFERING DISCOUNTS FOR FRAUNHOFER VISITORS

EZ = single room, DZ = double room.

(Please check internet prices which can be lower.)

### Best Western Premier Hotel Victoria

Eisenbahnstrasse 54  
79098 Freiburg  
Tel.: +49 (0) 761 20734-0  
Fax: +49 (0) 761 20734-444  
[info@victoria.bestwestern.de](mailto:info@victoria.bestwestern.de)  
[www.hotel-victoria.de/](http://www.hotel-victoria.de/)

106,00 € per night / incl. breakfast

### Hotel & Restaurant Oberkirch

Münsterplatz 22  
79098 Freiburg  
Tel.: +49 (0) 761 20268-68  
Fax: +49 (0) 761 20268-69  
[info@hotel-oberkirch.de](mailto:info@hotel-oberkirch.de)  
[www.hotel-oberkirch.de](http://www.hotel-oberkirch.de)

96,00 € per night / incl. breakfast

### Central Hotel Freiburg

Waserstrasse 6  
79098 Freiburg  
Tel.: +49 (0) 761 3197-0  
Fax: +49 (0) 761 3197-100  
[info@central-freiburg.de](mailto:info@central-freiburg.de)  
[www.central-freiburg.de/](http://www.central-freiburg.de/)

89,00 € per night / incl. breakfast

### City Hotel Freiburg

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79098 Freiburg  
Tel.: +49 (0) 761 3880-70  
Fax: +49 (0) 761 3880-765  
[info@cityhotelfreiburg.de](mailto:info@cityhotelfreiburg.de)  
[www.cityhotel-freiburg.de](http://www.cityhotel-freiburg.de)

76,00 € per night / incl. breakfast

### Hotel Schiller

Hildastrasse 2  
79102 Freiburg  
Tel.: +49 (0) 761 7033-70  
Fax: +49 (0) 761 70337-77  
[reception@schiller-hotel.de](mailto:reception@schiller-hotel.de)  
[www.schiller-hotel.de](http://www.schiller-hotel.de)

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### Hotel Bischofslinde

Am Bischofskreuz 15  
791114 Freiburg  
Tel.: +49 (0) 761 82688  
Fax: +49 (0) 761 808345  
[info@hotel-bischofslinde.de](mailto:info@hotel-bischofslinde.de)  
[www.hotel-bischofslinde.de](http://www.hotel-bischofslinde.de)

EZ 65,00 € per night / incl. breakfast  
DZ 90,00 € per night / incl. breakfast  
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### Park Hotel Post Freiburg

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79098 Freiburg  
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Fax: +49 (0) 761 31680  
[info@park-hotel-post.de](mailto:info@park-hotel-post.de)  
[www.park-hotel-post.de](http://www.park-hotel-post.de)

99,00 € per night / incl. breakfast

### Hotel Barbara Freiburg

Poststrasse 4  
79098 Freiburg  
Tel.: +49 (0) 761 296250  
[mail@hotel-barbara.de](mailto:mail@hotel-barbara.de)  
[www.hotel-barbara.de](http://www.hotel-barbara.de)

EZ 80,00 € per night / incl. breakfast  
DZ 110,00 € per night / incl. breakfast

### Hotel Minerva

Poststrasse 8  
79098 Freiburg  
Tel.: +49 (0) 761 38649-0  
Fax: +49 (0) 761 38649-44  
[info@minerva-freiburg.de](mailto:info@minerva-freiburg.de)  
[www.minerva-freiburg.de](http://www.minerva-freiburg.de)

EZ 79,00 € per night / incl. breakfast  
DZ 110,00 € per night / incl. breakfast

### Hotel am Rathaus

Rathausgasse 4-8  
79098 Freiburg  
Tel.: +49 (0) 761 29616-0  
Fax: +49 (0) 761 29616-66  
[hotel@am-rathaus.de](mailto:hotel@am-rathaus.de)  
[www.am-rathaus.de](http://www.am-rathaus.de)

89,00 € per night / incl. breakfast

### InterCity Hotel Freiburg

Bismarckallee 3  
79098 Freiburg  
Tel.: +49 (0) 761 3800-0  
Fax: +49 (0) 761 3800-999  
[freiburg@intercityhotel.de](mailto:freiburg@intercityhotel.de)  
[www.intercityhotel.com/Freiburg/](http://www.intercityhotel.com/Freiburg/)

EZ 80,00 € per night / incl. breakfast  
DZ 119,00 € per night / incl. breakfast  
(booking code: CINOQZ)

### Novotel Freiburg am Konzerthaus

Konrad-Adenauer-Platz 2  
79098 Freiburg  
Tel.: +49 (0) 761 3889-0  
Fax: +49 (0) 761 3889-100  
[h5383@accor.com](mailto:h5383@accor.com)  
[www.accorhotels.com/de/hotel-5383-novotel-freiburg-am-konzerthaus/index.shtml](http://www.accorhotels.com/de/hotel-5383-novotel-freiburg-am-konzerthaus/index.shtml)

118,60 € per night / incl. breakfast