



# Indo-German Workshop on Advanced Automotive Steels (IGWAAS-2021)

web based; March 4 – 5, 2021

Supported by the INDO-GERMAN SCIENCE AND TECHNOLOGY CENTRE

## Final Program

*Time slots according to India Standard Time & Central European Time in large & small font size respectively.*

**Date: March 4, 2021**

<b>14:00</b> (9:30)	Inaugural Address <b>Prof. Robert Brandt, University of Siegen, Germany</b>
<b>14:10</b> (9:40)	Welcome address <b>Mr. Ulf Richter, Chancellor, University of Siegen, Germany</b>
<b>14:15</b> (9:45)	Overview of University of Hyderabad <b>Prof. P. Appa Rao, Vice-chancellor, University of Hyderabad, India</b>
<b>14:20</b> (9:50)	Overview of SEST, University of Hyderabad <b>Prof. Dibakar Das, Dean of SEST, University of Hyderabad, India</b>
<b>14:25</b> (9:55)	Vote of Thanks <b>Prof. Koteswararao V. Rajulapti, University of Hyderabad, India</b>

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## Session 1: Steel Making & Hot Forming

**14:30** (10:00) Steel Mill Processing of the Advanced High Strength steels  
**Dr. G. Balachandran, JSW Steel, Vijayanagar works, India**

**15:10** (10:40) High Strength Lightweight Steels: Challenges in Steel Making and Casting  
**Dr. S. Manjini, JSW Steel Salem works, India**

**15:50** (11:20) Hot Forming of High Strength Steels  
**Prof. K. Narasimhan, Indian Institute of Technology Bombay, India**

**16:30** (12:00)  Short Break

## Session 2: Fatigue Behaviour

**17:00** (12:30) Specific Aspects of the Fatigue Behaviour of Steels  
**Prof. H. J. Christ, University of Siegen, Germany**

**17:40** (13:10) A review on the fatigue behavior of additively manufactured metals with a special focus on the austenitic stainless CrNi steel AISI 316L  
**Prof. Tilmann Beck, Technische Universität Kaiserslautern, Germany**

**18:20** (13:50) Corrosion, fatigue and corrosion fatigue behavior of graded high strength steels, focusing on suspension coil springs  
**Mr. Alexander Tump, Mubea Fahrwerksfedern GmbH, Germany**

## Demo Presentation: ZwickRoell, Ulm, Germany

**19:00** (14:30) Dynamic Testing Solutions from ZwickRoell  
**Mr. Philipp Mayer, ZwickRoell Ulm, Germany**

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14:30 (10:00) Welcome Message  
**Mr. R. Madhan, Director, Indo-German Science and Technology Centre (IGSTC), India**

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## Session 3: Low Temperature Creep

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14:35 (10:05) Low temperature creep in a high strength roller bearing steel  
**Prof. Bo Alfredsson, Royal Institute of Technology, KTH Sweden**


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15:15 (10:45) A Verification of Mechanism Based Theories for Low Temperature Creep of High Strength Steel  
**Mr. Mathias Münch, Mubea Motorkomponenten GmbH, Germany**

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15:55 (11:25) An Insight into the Low Temperature Creep Mechanism in High Strength Steel  
**Mr. Nagarjuna Remalli, University of Siegen, Germany**

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16:35 (12:05)  Short Break

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## Session 4: Characterization

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17:00 (12:30) Evolution of microstructure and texture in twinning induced plasticity (TWIP) steels  
**Prof. Satyam Suwas, Indian Institute of Science Bengaluru, India**

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17:40 (13:10) Optimization of Mechanical Properties in SAE 9254 Using Heat Treatments  
**Prof. Koteswararao V. Rajulapati, University of Hyderabad, India**

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18:20 (13:50) Microstructural evolution and partition mechanisms in advanced high strength quench and partition steels  
**Prof. S. Sankaran, Indian Institute of Technology Madras, India**

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## Demo Presentation: Industron Nanotechnology, India

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19:00 (14:30) Correlative Microscopy and High Speed Nanoindentation Mapping of High Strength Steel  
**Dr. S. A. Syed Asif, Industron Nanotechnology, India**

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