April 24, 2024

09:00	Registration
Opening Session *Mod.: Andreas Pichler*	
10:00 – 10:20	Welcome and Introduction *Robert Mark Taylor, TEMA AG* *A broad view of Electrification (pending)* *ZVEI*
10:20 – 10:40	Electrical Steel (GO & NGO) Market Overview *Wolfgang Lipp, SMR GmbH*
10:40 – 11:10	Standardization for Electrical Steels *Sigrid Jacobs, ArcelorMittal*
Session I: Steel Grades *Mod.: Andreas Pichler*	
11:10 – 11:35	Ultra-Thin Electrical Steel Strips *Christoph Dahlmann, C.D. Waelzholz GmbH & Co. KG*
11:35 – 12:00	Exploring High-Performance Non-Oriented Electrical Steels for Increased Electric Traction Motor Torque and Power Density *Ahmed Abouelyazied, ArcelorMittal*
Lunch in the Exhibition Area	
Session II: Steel Grades cont.	
13:00 – 13:25	Analysis of Hot and Cold Rolling Reduction on the Magnetic and Mechanical Properties of 3.3%Si Non-Grain Oriented Electrical Steels *Sergio Vasconcellos and José Rogério de Oliveira Júnior, Aperam South America*
13:25 – 13:50	Steel Material Development and Characterization for E-mobility Traction Drives *Daniel Eggers, thyssenkrupp Steel Europe AG*
13:50 – 14:05	Studies on Application Technology of Various Electrical Steels in High-Performance Traction Motors *Ruilin Pei, Suzhou InnMag New Energy Ltd.*
14:05 – 14:30	Enhancing Electrical Drive Efficiency through full consideration of Mechanical Sheet Material Properties in the Design Phase *Barbara Hartl, Linz Center of Mechatronics GmbH*
Coffee/Tea-Break in the Exhibition Area	
Session III: Steel Grades cont. *Mod.: Sigrid Jacobs*	
14:55 – 15:20	Fully developed (001) [100] or (110) [001] Goss Texture in Electrical Steels *Seonghyeon Yoo, Hyundai steel R&D Center*
15:20 – 15:45	Effect of Antimony Addition on the Microstructure, Texture and Magnetic Properties of Non-Oriented 2.6% Si Electrical Steels *Yogendra Reddy, JSW Steel Ltd.*
15:45 – 16:10	The Potential of Microalloying to Simultaneously Improving the Magnetic and Mechanical Properties of NGO Electrical Steel *Marc Bernard, Steel Institute, RWTH Aachen University*
Coffee/Tea-Break in the Exhibition Area	
Session IV: Production of ES - Sheets *Mod.:Norbert Brachthäuser*	
16:35 – 17:00	Advanced Downstream Technologies to Produce New Generations of Thin-Gauge High-Permeability Electrical Steel *Konrad Krimpelstätter, Primetals Technologies Japan*
17:00 – 17:25	Cutting Edge Technology to Reach the Electromobility Market *Stanislas Mauuary, CLECIM*
Networking Cocktail & Evening Event	

April 25, 2024

Session V: Production of ES - Sheets *Mod.: Norbert Brachthäuser*	
09:00 – 09:25	Characteristics of NGO Electrical Steel Strips Produced by Twin Roll Casting *Max Müller, Institut für Bildsame Formgebung RWTH Aachen*
09:25 – 09:50	Advantages of Horizontal Single Belt Casting (HSBC) in the Casting of Electrical Steels *Daniel Gonzalez Morales, McGill University*
09:50 – 10:15	Quality Assurance as a must to reach out the Efficiency Requirements in Green Energy *Christian Reidler, Dr. Schenk GmbH Industriemesstechnik*
10:15 – 10:40	EMG SOLID® DFT – Inline and Online Measurement of Insulating Varnish on Electrical Steel *Mark Kreso, EMG Automation GmbH*
Coffee/Tea-Break in the Exhibition Area	
Session VI: Processing Technologies *Mod.: Norbert Brachthäuser*	
11:05 – 11:30	Development of a Universal Bonding Varnish for both Fast Cure and Standard Cure Applications *Franck Burtin*
11:30 – 11:55	Pulsed Laser Beam Welding in Vacuum of Non-Grain Oriented Electrical Sheet *Thomas Krichel, Welding and Joining Institute, RWTH Aachen University*
Networking Lunch in the Exhibition Area	
Session VII: Modelling, Simulation and Testing *Mod.: Stefan Siebert*	
13:00 – 13:25	Manufacturing-Oriented Magnetic Analysis of Segmented Stator Teeth *Dr. Hannes Weiss, Kaisermatt Technologie - Lifa AG*
13:25 – 13:50	Rapid Testing Method to assess the effect of Cutting on the Fatigue Resistance of Electrical Steels *Sergi Parareda, Eurecat, Centre Tecnològic de Catalunya*
13:50 – 14:15	Mechanical and Functional Fatigue of Electrical Steels *Constanze Backes, RPTU Kaiserslautern-Landau*
14:15 – 14:40	Fracture Toughness Evaluation of Electrical Sheet Steels *David Frómeta, Eurecat, Centre Tecnoloògic de Catalunya*
Coffee/Tea-Break in the Exhibition Area	
Session VIII: Modelling, Simulation and Testing cont. *Mod.: Stefan Siebert*	
15:05 – 15:30	Annealing Simulation of High-Si Electrical Steel Grades in Surtec Research Hot Dip Process Simulator *Mehmet Bulut Özyiğit, EREGLI IRON AND STEEL WORKS CO. (ERDEMIR)*
15:30 – 15:55	A Pragmatic Approach for Condition Monitoring of Magnetic Cores with Predominant Focus on Axial off-set between the Fault Points *Hamed Bahmani, Durham University*
15:55 – 16:20	Effect of Increased Strain Rate by High-Speed Blanking of Non-Grain-Oriented Silicon Steel *Dr. Luke Jones, University of Sheffield*
16:20	Closing Remarks *Univ.-Prof. Ulrich Krupp, Institute IEHK, RWTH Aachen*
End of Conference	