



17. TECHNISCHER TAG

status 2019-07-12

Conference programme for the 17th Technical Conference of VEM

18 and 19 September 2019

Wednesday, 18 September 2019

09.00 a.m.	Opening of the 17th Technical Conference	Dipl.-Ing. Jens Proske, VEM Sachsenwerk GmbH, Dresden
09:15 a.m.	Comparison of the synchronous reluctance machine with and without ferrite magnets in the flux barriers	M.Sc. Sascha Neusüs, Technische Universität Darmstadt
09:45 a.m.	Ironless permanent magnet axial flux machine with ceramic winding carrier for a flywheel drive	Univ.-Prof. Dr.-Ing. Wilfried Hofmann, Technische Universität Dresden
10:15 a.m.	Efficiency measurement of permanent magnet synchronous machines - an overview under the aspect of measurement uncertainty	Dr.-Ing. Christian Lehrmann, Physikalisch-Technische Bundesanstalt Braunschweig
<i>10:45 a.m.</i>	<i>Coffee break</i>	
11:15 a.m.	IE5 - Smart electric motors for achieving efficiency classes	Dipl.-Ing. Sylvia Blankenhagen, VEM motors Thurm GmbH, Zwickau
11:45 a.m.	VEMoDiAC and motor monitoring as part of the Industry 4.0 strategy at VEM	Dr.-Ing. Henri Arnold, VEM Sachsenwerk GmbH, Dresden
12:15 p.m.	VEMoDiAC - the new IoT device in practice	Ronny Tschannerl, g-foxx GmbH, Chemnitz
<i>12:45 p.m.</i>	<i>Lunch</i>	
2:15 p.m.	Fault diagnosis for frequency converter drives with space vector recognition	Prof. Dr.-Ing. Rudolf Mecke, Hochschule Harz, Wernigerode
2:45 p.m.	Electric motors with exceptionally high torque densities	Prof. Dr. Ing. Bernd Ponick, M. Sc. Constantin Wohlers, Leibniz-Universität Hannover
3:15 p.m.	Traction machines for EVs	Steven Jennings, Pierburg GmbH, Neuss
<i>3:45 p.m.</i>	<i>Coffee break</i>	
4:15 p.m.	ISCAD – 48 V high performance drive. Design and vehicle integration	Dr.-Ing Oleg Moros, volabo GmbH, Ottobrunn
4:45 p.m.	The way to energy transition – opportunities and handicaps	Dipl.-Ing. Stefan Fassbinder, Deutsches Kupferinstitut Berufsverband e. V., Düsseldorf
5:15 p.m.	End of the 1st conference day	
<i>6:45 p.m.</i>	<i>Admission to the evening event from 7p.m.in the HKK hotel</i>	

Thursday, 19 September 2019

09.00 a.m.	Welcome to the 2nd conference day	N.N. VEM motors GmbH, Wernigerode
09:15 a.m.	Advanced design tools for electric machine design	Dr. Melanie Michon, Dr. Mircea Popescu, Dr. James Goss, Motor Design Ltd., Wrexham, UK
09:45 a.m.	Thermal calculation of standard and transnormal motors with high speed and good accuracy	Dipl.-Ing. Stefan Ulbrich, VEM Sachsenwerk GmbH, Dresden
<i>10:15 a.m.</i>	<i>Coffee break</i>	
10:45 a.m.	Structural mechanical requirements in the development of motor series	Dr.-Ing. Christian Klotz, VEM Sachsenwerk GmbH, Dresden
11:15 a.m.	New EU regulation on energy efficiency in electric motors	Dipl.-Ing. Lutz Schube, VEM motors GmbH, Wernigerode
11:45 a.m.	Non-grain oriented electrical sheet metal packages for rotating electrical machines	Dipl.-Ing. Ralf Pliquett, Getriebebau NORD GmbH & Co. KG, Bargteheide (angefragt)
12:15 p.m.	Investigations on cold-rolled, non-grain oriented electrical steel	Matthias Bär, Elektromaschinen-Service Klähr, Frankfurt / Oder
<i>12:45 p.m.</i>	<i>Lunch</i>	
2:15 p.m.	Minimising the porosity of die-cast copper rotors	Dipl.-Ing. David Schmitz, breuckmann emobility GmbH, Heiligenhaus
2:45 p.m.	Redundant temperature sensors to achieve higher functional reliability	Dr.-Ing Mario Gauer, EPHY-MESS GmbH, Wiesbaden
3:15 p.m.	Trends in insulating materials and winding wires	Holger Tschentscher, SynFlex Elektro GmbH, Blomberg
3:45 p.m.	Final discussion and farewell of participants	
4 p.m.	End of the 2nd conference day	
5 p.m.	Factory tour at VEM motors GmbH, Wernigerode	Meeting point: entrance to the factory Carl-Friedrich-Gauß-Str. 1, Wernigerode Please register in advance. Self-organized travel to the factory.

If you have any questions please contact:

Kerstin Margila, VEM motors GmbH
Carl-Friedrich-Gauß-Straße 1, 38855 Wernigerode
Tel.: +49 3943 68-3297
Kerstin.margila@vem-group.com

Lutz Schube, VEM motors GmbH
Carl-Friedrich-Gauß-Straße 1, 38855 Wernigerode
Tel.: +49 3943 68-3244
Lutz.schube@vem-group.com