


Global Motor Systems Network








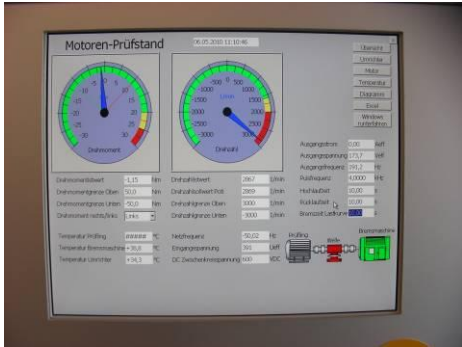



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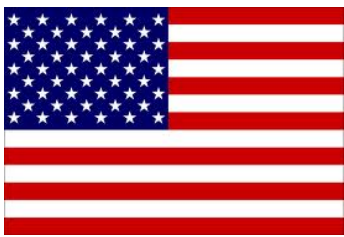



Zurich February 2011:


See you all at the EEMODS'11 in Washington DC in September 2011!

<p>1 This is the latest edition of the Electric Motor Systems Annex (EMSA) Newsletter. Our subscription has grown now to 2'000 people from 65 countries. Global Motor Systems Network is the outreach project of EMSA in the International Energy Agency's Implementation Program 4E: Efficient Electrical End-Use Equipment.</p> <p>If you would like to know more about 4E subscribe to Bright Spark at: www.iea-4e.org/bright-spark-newsletter</p>	 <p>Issue 2: August 2010</p>
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Events	
<p>2 The Motor Summit was held from 26 to 28 October 2010 in Zurich, Switzerland. 160 participants from 20 countries discussed new motor policy and technological developments.</p> <p>Presentations, proceedings and photos:</p>	 <p>MOTOR SUMMIT 2010 www.motorsummit.ch</p>
<p>3 EEMODS'11 will be held on 12 - 14 September 2011 in Alexandria VA (near Washington DC). Abstracts have to be submitted by 17 February 2011. Call for papers and registration:</p>	 <p>ee mods '11 conference energy efficiency in motor driven systems www.eemods.org</p>
<p>4 The Asian Clean Energy Forum ACEF hosted by ADB will be held in Manila on 20 - 24 June 2011.</p>	<p>More information: www.cleanenergyasia.net</p>
<p>5 The Motor, Drive & Automation Systems conference will take place on 1 – 2 March 2011 in San Antonio, Texas. Program and registration: www.e-driveonline.com</p>	 <p>Motor, Drive & Automation Systems 2011 Advancements in Motion Control and Power Electronic Technology March 1-2 • San Antonio, Texas</p>
<p>6 The Austrian Energy Agency is organizing a second set of trainings for energy efficient production in April 2011 in Graz, Austria. The training includes pump, fan and compressor system optimization. For more information visit the related klima:aktiv website or contact Marcus Hoffmann.</p>	 <p>klima:aktiv www.klimaaktiv.at marcus.hofmann@energyagency.at</p>

EMSA	
<p>7</p> <p>EMSA works at present according to the seven Tasks shown to the right.</p> <p>If you would like to reach one of the Task Leaders go directly to: www.motorsystems.org/contact</p>	<p>A Implementation support & outreach B Technical guide for motor systems C Testing centers D Coherent motor policy E Training & capacity building F Energy management in industry G New motor technologies</p>
<p>8</p> <p>EMSA participation: UK has left by the end of 2010, Sweden has joined early 2011. Welcome!</p> <p>The contact person for Sweden is Glenn Widerström: glenn.widerstrom@energimyndigheten.se</p>	
<p>9</p> <p>Testing Centres Network Australia (Department of Climate Change and Energy Efficiency) has built up the Testing Centres Network of EMSA. The third meeting will be held at EEMODS'11 in Alexandria, USA. The proceedings of the last meeting from 26 October 2010 in Zurich, Switzerland are available online.</p> <p>If you would like to join, please contact directly Sarah Hatch by e-mail: sarah.hatch@climatechange.gov.au</p>	
<p>10</p> <p>New Motor Technology The work is focused on building up a group of international experts to advise on new motor technology, particularly their standardization needs and their chances to become minimum energy performance standards (MEPS) eventually. The proceedings of the expert group meeting from 28 October 2010 in Zurich, Switzerland are available online. If you are interested to join contact Rita Werle rw@abinternational.ch.</p>	
News	
<p>11</p> <p>The China Motor Systems Challenge project aims to establish a national information platform for Chinese motor system users, energy-saving service companies (ESCOs), electric motor manufacturers and energy-saving administrations. The project is co-funded under the SWITCH-Asia Programme of the European Commission.</p>	 <p>www.motorsystem.org.cn</p>
<p>12</p> <p>IMS Research expects China to become the leading producer and consumer of permanent magnet motors. The country has significant short and medium term advantages in the rare earth mineral market.</p> <p>For permanent magnet motors Neodym is the most suited magnetic material among all rare earth materials.</p>	 <p>Source: Leroy Somer</p>

13	<p>The European Commission (EC) has mandated CEN, CENELEC and ETSI on expanded scopes of motor testing and performance standards: 200 W to 500 kW, all types of electrical motors, variable speed drives, efficiency classes IE4 and IE5, standard template for test report.</p> <p>Work will be shared by IEC and Cenelec.</p>	
14	<p>IEC has advanced work on testing standards for electric motors fed by converters. A Commission Draft for Voting IEC 60034-2-3 will be published shortly.</p>	<p>If you would like to have a copy send an e-mail to cub@cub.ch</p>
15	<p>European motor regulations are starting to get tough. Only IE2 motors from 0.75 – 375 kW can be sold in the European Union from 16 June 2011.</p>	<p>Commission Regulation 640/2009</p>
16	<p>A new EC regulation for fans has been decided. Fans from 125 W - 500 kW have mandatory MEPS from 2012 (first phase) and 2015 (second phase).</p> <p>If you are interested and would like to receive a copy of the draft regulation send an e-mail to cub@cub.ch</p>	
17	<p>MEPS in the USA, Mexico and Canada are synchronized now: today only IE3 Premium Efficiency motors can be sold for output power ratings of 0.75 - 150 kW:</p>	
<p>USA MEPS by December 2010 according to the Energy Independence and Security Act (EISA) of 2007: NEMA Premium Efficiency (IE3) for motors of 1 - 200 horsepower (0.75 – 150 kW). Energy Efficient (IE2) level for 201 - 500 horsepower (151 – 375 kW).</p>		
<p>The Canadian legislation had minimum energy performance standards for motors since 1995. Now Natural Resources Canada proposed to modify the Energy Efficiency Regulations to synchronize with MEPS in the USA.</p>		
<p>In Mexico MEPS for motors from 0.75 - 373 kW according to the revised Energy Efficient Mandatory Standard NOM-016-ENER are in effect since 19 December 2010.</p>		
18	<p>NEMA has published the updated MG 1-2009 Motors and Generators with revised motor efficiency tables for 50 Hz products to include the latest efficiency classes as per IEC 60034-30.</p>	

19	The findings of the IEC Round Robin motor testing program will be summarised in a paper by Axel Möhle at EEMODS'11. Work has started in TC2 to include these findings and other improvements of accuracy and repeatability in the revision of IEC 60034-2-1. A preferred testing method for 3-phase motors has been adopted: Summation of losses with load test, stray load losses determined from residual loss.	www.eemods.org
20	The Joint Research Centre of the European Commission has published a report on the evaluation of the European Motor Challenge Programme and a catalogue of projects implemented by Motor Challenge Partners.	

If you have any questions please feel free to ask. If you are running a national motor efficiency program: Tell us!

Best regards from Zurich Switzerland,

Conrad U. Brunner & Rita Werle

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EMSA is the Electric Motor Systems Annex of the International Energy Agency IEA Implementation Agreement on Efficient Electrical End-Use Equipment 4E. Currently Australia, Austria, Denmark, Netherlands, Sweden and Switzerland participate actively in EMSA together with Canada, France, Korea, United Kingdom and USA in 4E.

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