


# Global Motor Systems Network


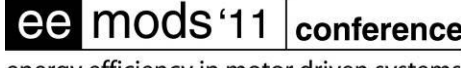





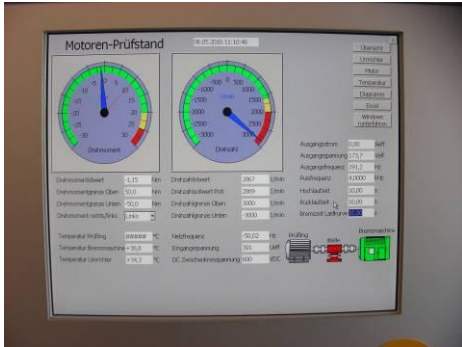



EMSA Newsletter no. 1/2011



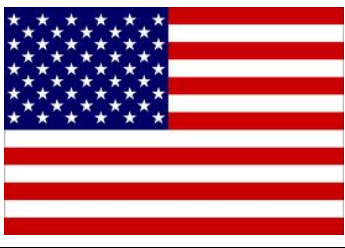



Zurich February 2011:


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: <a href="#">Efficient Electrical End-Use Equipment</a>.</p> <p>If you would like to know more about 4E subscribe to <b>Bright Spark</b> at: <a href="http://www.iea-4e.org/bright-spark-newsletter">www.iea-4e.org/bright-spark-newsletter</a></p>	 <p>Issue 2: August 2010</p>
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Events	
<p>2 The <b>Motor Summit</b> 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><a href="http://www.motorsummit.ch">www.motorsummit.ch</a></p>
<p>3 <b>EEMODS'11</b> will be held on 12 - 14 September 2011 in Alexandria VA (near Washington DC). <b>Abstracts</b> have to be submitted <b>by 17 February</b> 2011. Call for papers and registration:</p>	 <p>energy efficiency in motor driven systems <a href="http://www.eemods.org">www.eemods.org</a></p>
<p>4 The Asian Clean Energy Forum <b>ACEF</b> hosted by ADB will be held in <b>Manila</b> on 20 - 24 June 2011.</p>	<p>More information: <a href="http://www.cleanenergyasia.net">www.cleanenergyasia.net</a></p>
<p>5 The <b>Motor, Drive &amp; Automation Systems</b> conference will take place on 1 – 2 March 2011 in San Antonio, Texas. Program and registration: <a href="http://www.e-driveonline.com">www.e-driveonline.com</a></p>	 <p>Advancements in Motion Control and Power Electronic Technology March 1-2 • San Antonio, Texas</p>
<p>6 The <b>Austrian Energy Agency</b> is organizing a second set of <a href="#">trainings for energy efficient production</a> 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><a href="http://www.klimaaktiv.at">www.klimaaktiv.at</a> <a href="mailto:marcus.hofmann@energyagency.at">marcus.hofmann@energyagency.at</a></p>

EMSA	
<p>7</p> <p><b>EMSA</b> works at present according to the seven <b>Tasks shown to the right</b>.</p> <p>If you would like to reach one of the Task Leaders go directly to: <a href="http://www.motorsystems.org/contact">www.motorsystems.org/contact</a></p>	<p><b>A</b> Implementation support &amp; outreach  <b>B</b> Technical guide for motor systems  <b>C</b> Testing centers  <b>D</b> Coherent motor policy  <b>E</b> Training &amp; capacity building  <b>F</b> Energy management in industry  <b>G</b> New motor technologies</p>
<p>8</p> <p><b>EMSA participation:</b> UK has left by the end of 2010, Sweden has joined early 2011. Welcome!</p> <p>The contact person for Sweden is Glenn Widerström: <a href="mailto:glenn.widerstrom@energimyndigheten.se">glenn.widerstrom@energimyndigheten.se</a></p>	
<p>9</p> <p><b>Testing Centres Network</b>  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 <a href="#">online</a>.</p> <p>If you would like to join, please contact directly Sarah Hatch by e-mail: <a href="mailto:sarah.hatch@climatechange.gov.au">sarah.hatch@climatechange.gov.au</a></p>	
<p>10</p> <p><b>New Motor Technology</b>  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 <a href="#">online</a>.  If you are interested to join contact Rita Werle <a href="mailto:rw@abinternational.ch">rw@abinternational.ch</a>.</p>	
News	
<p>11</p> <p>The <b>China Motor Systems Challenge</b> 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>12</p> <p><b>IMS Research</b> expects <b>China</b> to become the leading producer and consumer of <b>permanent magnet motors</b>. The country has significant short and medium term advantages in the rare earth mineral market.  For permanent magnet motors Neodym is the most suited magnetic material among all rare earth materials.</p>	 <p style="text-align: center;">Source: Leroy Somer</p>

13	<p>The European Commission (EC) <b>has mandated</b> CEN, CENELEC and ETSI on <b>expanded scopes of motor testing and performance standards</b>: 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 <b>electric motors fed by converters</b>. 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 <a href="mailto:cub@cub.ch">cub@cub.ch</a></p>
15	<p>European motor regulations are starting to get tough. <b>Only IE2</b> motors from 0.75 – 375 kW can be sold in the European Union <b>from 16 June 2011</b>.</p>	<p><a href="#">Commission Regulation 640/2009</a></p>
16	<p>A new <b>EC regulation</b> for <b>fans</b> 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 <a href="mailto:cub@cub.ch">cub@cub.ch</a></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><b>USA MEPS</b> by December 2010 according to the <a href="#">Energy Independence and Security Act (EISA) of 2007</a>: 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 <b>Natural Resources Canada</b> <a href="#">proposed</a> to modify the Energy Efficiency Regulations to synchronize with MEPS in the USA.</p>		
<p>In <b>Mexico</b> MEPS for motors from 0.75 - 373 kW according to the revised Energy Efficient Mandatory Standard <a href="#">NOM-016-ENER</a> are in effect since 19 December 2010.</p>		
18	<p>NEMA has published the updated <a href="#">MG 1-2009 Motors and Generators</a> 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 <b>Round Robin</b> 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.	<a href="http://www.eemods.org">www.eemods.org</a>
20	The Joint Research Centre of the European Commission has published a <a href="#">report</a> on the evaluation of the European <b>Motor Challenge Programme</b> and a <a href="#">catalogue</a> 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

EMSA (Operating Agent)  
Gessnerallee 38a, 8001 Zurich Switzerland  
Tel +41 (0)44 226 30 70 [cub@cub.ch](mailto:cub@cub.ch), [rita.werle@abinternational.ch](mailto:rita.werle@abinternational.ch)

**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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