

JMAG Users Conference 2014



December 3-4, 2014

Tokyo Conference Center - Shinagawa

AREA Shinagawa 1-9-36 Konan, Minato-ku, Tokyo, JAPAN

- Users cases
- JMAG product updates
- Partners' product exhibition
- Forums for future JMAG
- Seminars on simulation techniques
- Clinic and more...

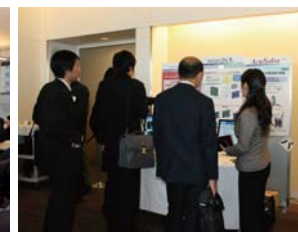
Keynote Speech

**Application-oriented motor design
by using the electromagnetic field analysis in TOYOTA**

Dr. Ryoji Mizutani, TOYOTA MOTOR CORPORATION

Expected number of participants: 400

Registration Fees: JMAG Users: Free
General Admission: ¥50,000
(without tax, lunch included)




Premium Sponsor  **SCSK** SCSK株式会社

Exhibition (Updated November 27th Order of application received)

Motion System Tech,
Inc.



 株式会社 NEAT

 株式会社 エーアンド・デー

 **TDK**  **dSPACE**

YOKOGAWA 
横河メータ&インスツルメンツ株式会社

 **SIMULIA**

 **DSP**
technology

 **Myway**
it's a passion way

 **NewtonWorks**

 **東陽テクニカ**

つくる情熱を、支える情熱。
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 **MSC Software**
Simulating Reality, Delivering Certainty™

 **IDAJ**
integrated digital advanced solutions

 **Shikoku
Rare Earth Magnets**

SIEMENS  **Mentor
Graphics**

IBM

 **CD-adapco**

SYNOPSYS
Accelerating Innovation


FUJITSU










 **aperam**

 **NATIONAL
INSTRUMENTS**









<http://www.jmag-international.com/event/conference2014/>

JMAG Users Conference 2014 Program

DAY1: Wednesday, December 3 9:50 - 20:00 (Registration 9:30 -)  : Seminars with this mark offer simultaneous Japanese-English interpretation.

AM		 Opening remarks Mr. Mitsutaka Nakamura, JSOL Corp.			
	Development planning	 Development planning of JMAG Dr. Takashi Yamada, JSOL Corp.			
	Keynote Speech	 Application-oriented motor design by using the electromagnetic field analysis in TOYOTA Dr. Ryoji Mizutani, TOYOTA MOTOR CORPORATION			
Break (Lunch) / Exhibition					
PM	User Examples 1	Motor 1	Electric Power	Induction Heating	
		 Influence of the manufacturing process on the behaviour of a claw-pole generator Valeo Equipement Electrique Moteur FRANCE	Electromagnetic force as a noise source generated by leakage flux in transformer tank MEIDENSHA CORPORATION	Applied cases to production technology development using magnetic field - thermal coupling analysis OMRON Corporation	
		 JMAG case examples for developing electric components for motorcycle engines YAMAHA MOTOR ELECTRONICS CO.,LTD	Vibration analysis of transformer core with magnetostriction by using JMAG Hitachi, Ltd.	Computer simulation of high-frequency induction heating using a coupling of JMAG, FLUENT and ANSYS. KOYO THERMO SYSTEMS CO.,LTD.	
	 Magnetic feedback sensor positioning and determination of harmonic distortion SL Montevideo Technology, Inc.	Practical application of stress analysis of stator coil-end portion of turbine generator Fuji Electric Co.,Ltd.	Electromagnetic and heat transfer analysis of HFW steel pipe JFE Techno-Research Corporation		
	Communication 1	Introduction of JMAG functions and analysis technologies in English: JMAG V14 Introduction			
	User Examples 2	Multiphysics	Industry Applications	Solenoid	JMAG-Express
		 Thermal simulation of an oil-cooled permanent magnet synchronous motor CHINA FAW CORPORATION LIMITED R&D CENTER	JMAG analysis for litz wire JSOL Corp.	Attraction force analysis of a solenoid valve and system control simulation JSOL Corp.	Study of SPM,IPM,IPM vernior motor using JMAG-Express Electric Motor Consulting
		 Temperature analysis of the outer rotor type AC generator using JMAG-Designer and STAR-CCM+ Mitsubishi Electric Engineering Company	Development of a rail brake for railway vehicles derived from linear motor technology Railway Technical Research Institute	Magnetic field analysis of solenoid using JMAG-Designer Mitsubishi Electric Corp.	A case of benchmarking of brushless motor using JMAG-Express NSK Ltd.
	 Development plan of co-simulation framework of Star-CCM+ and JMAG CD-adapco / JSOL Corp.	Large-scale numerical analysis of induction motors Toshiba Corporation	Analysis of responsiveness of air pressure solenoid valves using JMAG-Designer CKD Corporation		
	Introduction of JMAG-Designer V14				
Reception / Exhibition					

DAY2: Thursday, December 4 9:00 - 17:10 (Registration 8:30 -)

AM	Communication2	Introduction of JMAG functions and analysis technologies in English: Advanced topics		
	User Examples 3	RT / Material	HPC	
		 JMAG-RT as a tool in the development of EV/HEV powertrain components DENSO International Europe	Multi-objective optimization with wide-range shape parametric design space for IPM motor AISIN AW Co., Ltd.	
		 Introducing magnetic field design support systems using JMAG Aisin Seiki Co., Ltd.	GPU computing research initiatives of Japan Automobile Manufacturers Association, Inc. Japan Automobile Manufacturers Association, Inc.	
 Design of switched reluctance motors considering manufacture impact CHINA STEEL CORPORATION / Electric Motor Technology Research Center	Large scale 3D electromagnetic field analysis for electric machine design YASKAWA ELECTRIC CORPORATION			
 Demagnetization analysis of IPM motor with Dy diffused magnet using JMAG-Designer Ver.13.1 Hitachi Metals, Ltd.	Fast numerical simulation of 3D electromagnetic analysis using HPC DENSO CORPORATION Engineering Research & Development Center			
Break (Lunch) / Exhibition				
PM	Communication3	Introduction of JMAG functions and analysis technologies in English: Untranslated User Examples (HPC, Industrial Applications, and JMAG-Express)		
	User Examples 4	Motor 2	Converter	
		 Analysis of brush motors by JMAG Nidec corporation	High-precision iron loss analysis using JMAG TABUCHI ELECTRIC CO.,LTD.	
		 Measurement of magnetic flux density on permanent magnet surfaces for IPM motor SOKEN INC.	Gap loss analysis of cut core inductor DENSO CORPORATION	
	 Development of the new motor for SPORT HYBRID i-DCD system for the Fit3 Hybrid Honda R&D Co., Ltd.	Accuracy evaluation of litz wire resistance by using transformer analysis module Toyota Industries Corporation		
Open forum	 JMAG's responses to user proposals JSOL Corp.			
Close				

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