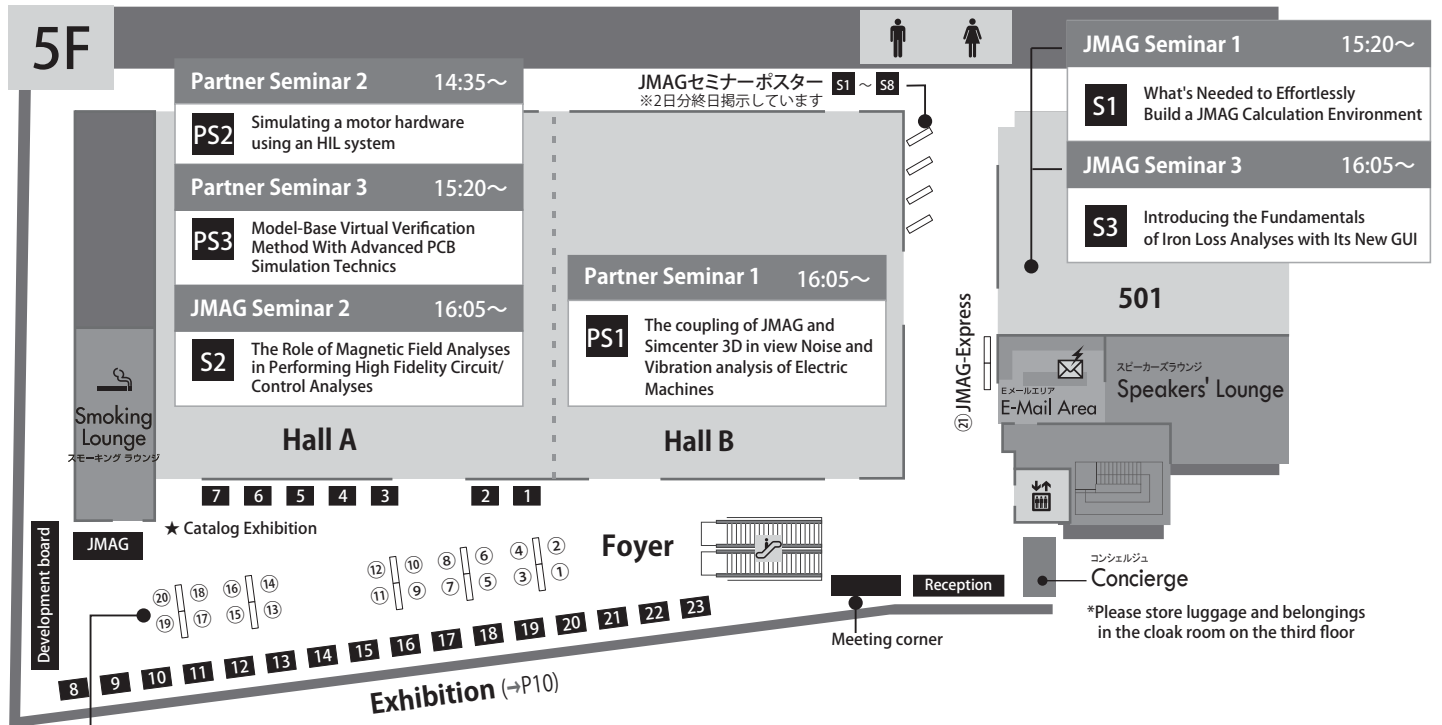


Program  
Exhibition

9:30	Registration			
	Hall B	Hall A		
10:00	Opening remarks 			
10:10	Development planning / Keynote Speech / Special Speech 1 			
	<b>1</b>	Development planning of JMAG Takashi Yamada, JSOL Corp.		
11:00	<b>2</b>	Retrospective of Electric Machines for EV and HEV Traction Applications at General Motors Dr. Sinisa Jurkovic, Engineering Manager, Global Propulsion System, GENERAL MOTORS COMPANY	Keynote Speech	
12:00	<b>3</b>	Model-Based Design Meets FEA Simulation -Improving Motor Control Development using High Fidelity Motor Models Mr. Tony Lennon, Application Manager - Motor and Power Control, Technical Marketing, The MathWorks, Inc.	Special Speech	
12:50	Lunch / Exhibitor 5minutes Presentation	13:05 NewtonWorks Corporation 13:15 CD-adapco Co., Ltd. 13:25 Nihon Synopsys G.K.	13:35 Hewlett-Packard Japan, Ltd. / SCSK Corporation 13:45 Cybernet Systems Co., Ltd.	Foyer
14:05	<b>Multiphysics</b> 		<b>MBD</b>	
	<b>4</b>	Prediction of Solenoid Valve Motion by Magnetic Field - Fluid Two-Way Coupled Analysis Hitachi Automotive Systems, Ltd	<b>7</b>	Review of Model Based Design using JMAG JSOL Corp.
14:35	<b>5</b>	Proposal of Electromagnetic Noise-generating Mechanism on Carrier Harmonics Toshiba Corporation	<b>PS2</b>	[Partner Seminar 2] Simulating a motor hardware using an HIL system National Instruments Japan Corporation
15:05	Movement			
15:20	<b>6</b>	COMPARATIVE STUDY OF INDUCTION MACHINE AND PERMANENT MAGNET ASSISTED SYNCHRONOUS RELUCTANCE MACHINE VALEO EEM	<b>PS3</b>	[Partner Seminar 3] Model-Base Virtual Verification Method With Advanced PCB Simulation Technics Mentor Graphics Japan Co., Ltd.
15:50	Movement			
16:05	<b>PS1</b>	[Partner Seminar 1] The coupling of JMAG and Simcenter 3D in view Noise and Vibration analysis of Electric Machines SIEMENS PLM Software	<b>S2</b>	[JMAG Seminar 2] The Role of Magnetic Field Analyses in Performing High Fidelity Circuit/Control Analyses
16:35	Movement			
16:50	<b>Optimization</b> 		<b>Transformer</b>	
	<b>8</b>	Study on robust optimization method for cogging torque reduction accounting for manufacturing errors of the motor Mitsubishi Electric Corporation	<b>11</b>	Miniaturization and low noise Design of the transformer for train ICHIKAWA ELECTRIC CO., LTD
17:20	<b>9</b>	Improvement of analysis operation using multi-case parallel calculation Kawasaki Heavy Industries, Ltd.	<b>12</b>	Magnetic Field Analysis of a Transformer Using JMAG and Modeling Improvements TABUCHI ELECTRIC CO.,LTD.
17:50	<b>10</b>	Cooperation analysis of optimization and quality engineering by modeFRONTIER and JMAG Aisin Seiki Co., Ltd.	<b>13</b>	Detailed Evaluation of High-frequency Transformers/Reactors JSOL Corp.
18:20	Movement			
18:30	Reception		Foyer	
20:00	Close			

Communication

Communication

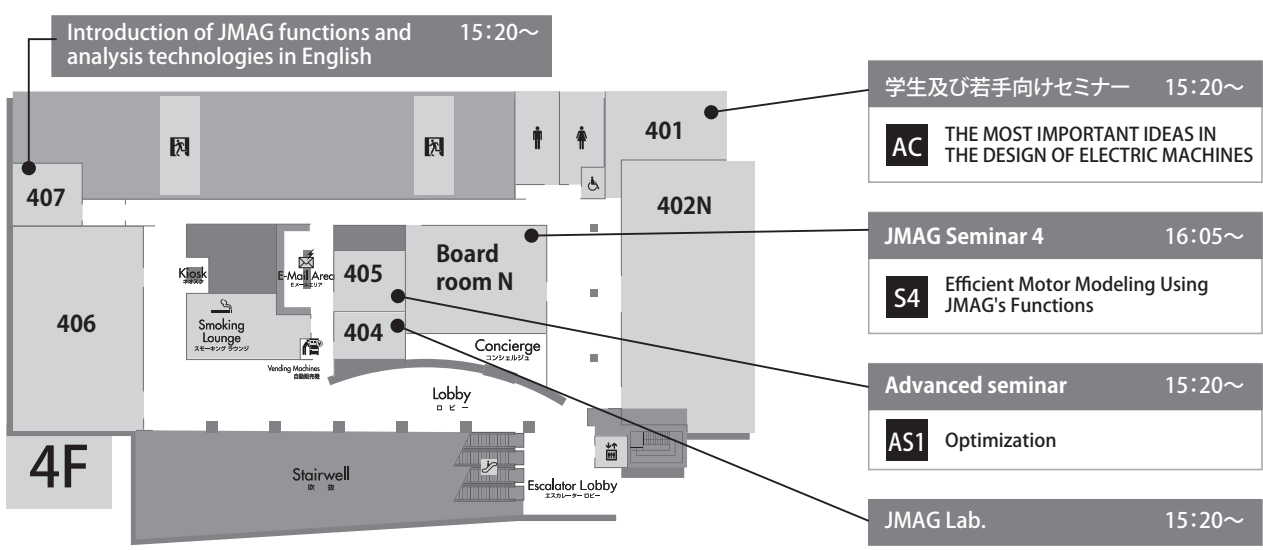


Program

Exhibition

**JMAG Poster 15:05~16:50**

① 13: JMAG's Solutions for Model Based Design (MBD)	⑪ 23: JMAG-RT Application Examples in Control Design
② 14: How to Create Efficiency Maps Using JMAG	⑫ 26: JMAG-Designer Ver.16.0
③ 15: Improving the System Design Process With JMAG	⑬ 33: Comparison Evaluation of Synchronous Impedance Seen in 2D/3D Models
④ 16: Gaining Insight Using JMAG-RT Spatial Harmonic Models	⑭ 34: Loss Analysis of a Solenoid Using Direct Coupling
⑤ 17: Introducing Generic JMAG-RT Models	⑮ 35: JMAG-RT Model Application Example / Accounting for Skew
⑥ 18: Linking Directly With Control / Circuit Simulations	⑯ 36: JMAG-RT Model Application Example / IGBT Failure
⑦ 19: How to Make the Most of the JMAG-RT Model Library	⑰ 38: Performing an Analysis To Determine the Degree Stray Loss Affects Power Transformers
⑧ 20: JMAG-Simulink Coupling / Introducing Functions	⑱ 47: JMAG-Express
⑨ 21: Optimization Calculations Using JMAG-Matlab	
⑩ 22: Automating JMAG Using Matlab	

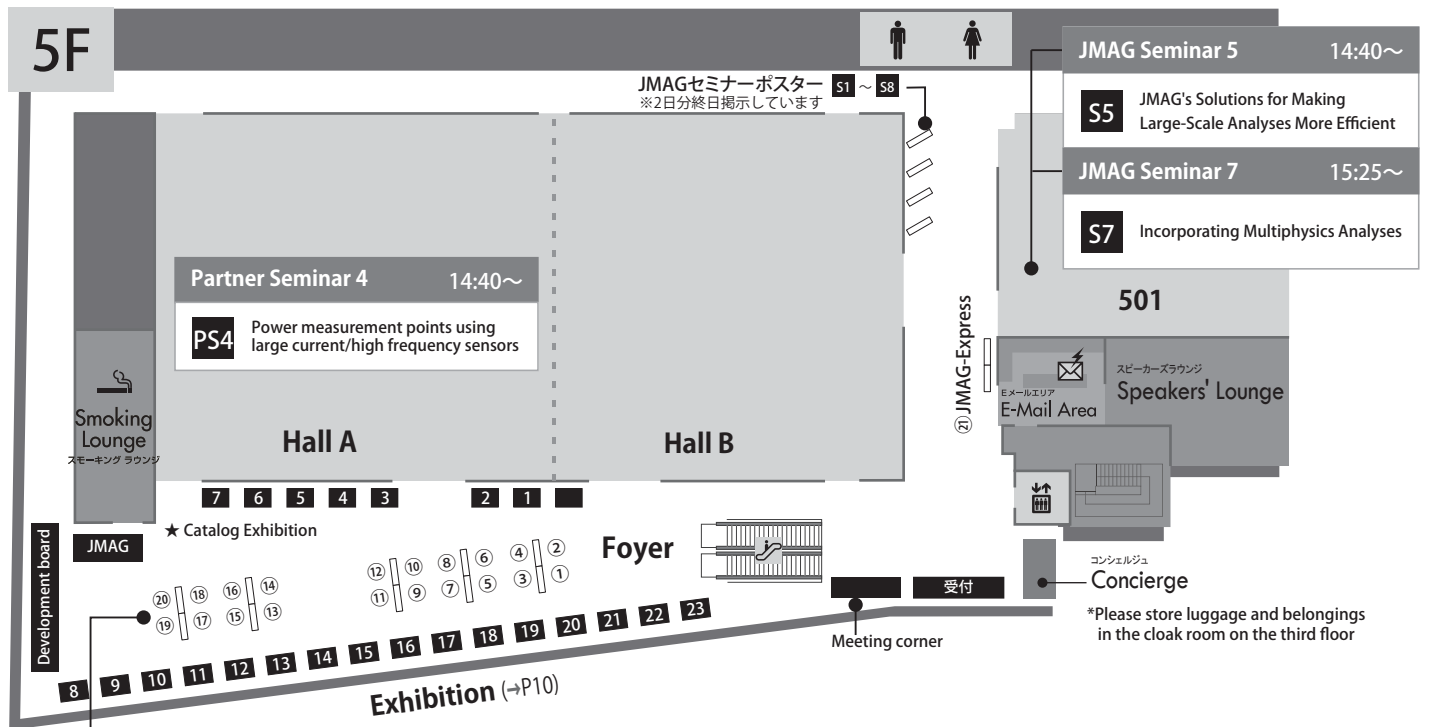


Program  
Exhibition

8:30	<b>Registration</b>		
	Hall B	Hall A	
	<b>Morning / Special Speech2</b> 		
9:00	<b>14</b> Tips and Suggestions for Using JMAG	JSOL Corp.	
9:30	<b>15</b> Potential of FEM Analysis	Mr. Fumihiko Goto, Division Manager, Consulting Engineering Div., Hitachi Power Solutions Co., Ltd.	<b>Special Speech</b>
10:30	<b>Break</b>		
	<b>Advanced Technology</b> 	<b>Large Machine</b>	
10:40	<b>16</b> Examination to Enhance Efficiency of Axial Gap Motors	Hokkaido University	<b>18</b> Verification by impedance measurement and analysis of large capacity synchronous motor
			TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION
11:10	<b>17</b> Research on an integration motor to achieve high efficiency and high torque density	Shibaura Institute of Technology	<b>19</b> Magnetic field analysis of Rectifier
			FUJI ELECTRIC CO., LTD.
11:40	<b>Lunch / Exhibitor 5minutes Presentation</b>		<b>Foyer</b>
	11:55 Unipulse Corporation	12:15 MSC Software Ltd.,	
	12:05 JFE Techno-Research Corporation	12:25 DSP Technology Co.,Ltd.	
	<b>Large-scal</b> 	<b>Electric Power</b>	
12:55	<b>20</b> JMAG implementation on K-computer and accelerating computational speed of electromagnetic field analysis	Japan Automobile Manufacturers Association, Inc.	<b>23</b> Studies about condition based maintenance of drive unit for metal clad switch gear using the electromagnetic field analysis
			FUJI ELECTRIC CO., LTD.
13:25	<b>21</b> STRAY FIELD ANALYSIS FOR HIGH COMPLEX 3D MODELS USING MASSIVELY PARALLEL PROCESSING FUNCTIONALITY ON HPC1 SYSTEMS	Robert Bosch GmbH	<b>24</b> Electric field analysis of the Tape Lapped Joint for power cable
			Tokyo Electric Power Company Holdings, Inc.
13:55	<b>22</b> Design and Development of Hyperloop Propulsion System Using JMAG	Hyperloop One	<b>25</b> Analysis of transformer circuit considered the mutual inductance
			Toshiba industrial products and systems corporation.
14:25	<b>Movement</b>		
14:40		<b>PS4</b> [Partner Seminar 4] Power measurement points using large current/high frequency sensors	Yokogawa Meters & Instruments Corporation
15:10	<b>Movement</b>		
15:55	<b>Movement</b>		
	<b>Motor</b> 		
16:10	<b>26</b> Analysis of stray fields in electric motors for automotive applications	IAV GmbH	
16:40	<b>27</b> Simulation based design validation and optimisation of Electrical machines for automotive applications	Lucas-TVS	
17:10	<b>28</b> Development of Motors for SPORT HYBRID SH-AWD for New NSX	Honda R&D Co., Ltd.	
	<b>Open forum</b> 		
17:40	<b>29</b> JMAG's responses to user proposals	JSOL Corp.	
18:00	<b>Close</b>		

Communication

Communication



Program

Exhibition

JMAG Poster 14:25~16:10

- |   |  |
|---|--|
| ① 01: Iron Loss Analysis Case Study of a Motor Using a Play Model and the 1D Method               | ⑪ 11: Introduction to JMAG-Explorer, a Data Management Tool                                    |
| ② 02: Evaluating Material Modeling Accounting for the Effects of Residual Strain                  | ⑫ 12: Connection to Cluster System SSH Interface   |
| ③ 03: How to Isolate Abnormal Eddy Current Losses in Non-Directional Electromagnetic Steel Sheets | ⑬ 24: Design Optimization Using JMAG   |
| ④ 04: A Look into Improving High Parallel Processing Speeds                                       | ⑭ 25: A Look at the Present and Future of Optimization Calculations                            |
| ⑤ 05: Improving Convergence for GPU Solver Iterative Calculations                                 | ⑮ 28: Copper Loss Analysis of a Motor Accounting for Eddy Current Distribution Inside of Wires |
| ⑥ 06: Vibration Analysis Modeling Method for Permanent Magnet Motors                              | ⑯ 29: Iron Loss Analysis Accounting for Stress Due to Frame Press Fitting                      |
| ⑦ 07: Calculating Losses for Rotating Machines Using a Zooming Analysis                           | ⑰ 30: Iron Loss Analysis of a PM Motor Accounting for the Effects of Residual Strain           |
| ⑧ 08: Electromagnetic Field Analyses and the Homogenization Method                                | ⑱ 31: Copper Loss Analysis of a Square Wire Coil Accounting for the Coil Ends of a Motor       |
| ⑨ 09: Large-Scale Calculations Using Cloud Computing  | ⑲ 32: Analysis of a Toroidal Coil Accounting for Magnetic Hysteresis                           |
| ⑩ 10: Introduction to the Power Simulation License (PSL)  | ⑳ 37: Multi-Objective Optimization Case Study of an IPM Motor                                  |
|   | ㉑ 47: JMAG-Express   |

