

# Press Release



*Helping you build a better machine, **faster.***

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## Danaher Motion & The MathWorks to Host Free Advanced Mechatronics Seminar for Motion Control Engineers

*Attendees will learn how to create custom algorithms with advanced vibration control and analysis to build better machines, faster – and with significant cost savings*

SANTA BARBARA, CALIF., September 19, 2008 — Danaher Motion Performance Controls (MEI), in partnership with The MathWorks and sponsored by Design World magazine, is hosting a free half-day seminar on *Advanced Mechatronics for High Performance Motion Control* on Wednesday, October 22, 2008, at the [Boston Marriott® Newton](#) hotel. Persons interested in attending can learn more and register online at <http://www.motioneng.com/mechatronicseminarOct>.

This seminar is geared toward engineers who are unfamiliar with MechaWare™, but have at least some familiarity with MATLAB® and Simulink®, including electrical and mechanical engineers developing mechatronic systems, embedded control system engineers, real-time software developers, and control system analysts and developers. There is no cost for the seminar, but attendees are responsible for their own travel arrangements and related expenses. Attendees will receive an introduction to model-based motion control design with MATLAB and Simulink, and through live demonstrations, will learn how to simulate and design smaller, faster, lighter and more precise machines with reduced weight and stiffness using MechaWare 3.0 — the industry's only mechatronic toolkit.

“Advanced mechatronics is an increasingly significant discipline for our readers who use high performance motion control,” says Mike Emich, CEO, Design World Magazine. Design World, in conjunction with Electronic Products, champion Project Mechatronics and technologies in the mechatronic space.

“System resonance and vibration control are serious issues in more complex motion systems, and anyone who's been designing and implementing these systems for any amount of time knows that standard PIV and PID control algorithms may not provide a sufficient level of performance,” says Director



of Global Application Engineers for Danaher Motion, Bill West. “That’s why we’re very excited to be working with The Mathworks to demonstrate a solution that will provide measureable benefits to the user.”

The solutions presented by Danaher Motion and The MathWorks are found in their MechaWare 3.0 and MATLAB and Simulink tools, respectively. MechaWare 3.0 is the industry’s only mechatronic “toolkit” that enables the seamless integration of mechanical systems with control software design, while delivering a streamlined workflow between control model development and real-time machine testing. “Through simple integration with MATLAB and Simulink, Mechaware delivers direct download of run-time code, and test and measurement of real-time machine performance,” says West. “The bottom line is, results for the user are faster design iteration cycles leading to superior motion system performance, faster time to market, and reduced machine costs” he continues.

“MechaWare enables the use of Model-Based Design by engineers, who already realize the time- and cost-saving value of employing Simulink for mechatronic system design,” says Tony Lennon, The MathWorks Industry Manager for Industrial Automation. “As a result, we expect this seminar to be of significant value to software and mechanical engineers who need to work together to make high performance mechatronics work, seamlessly.”

### **About Danaher Motion**

For over 60 years, Danaher Motions innovative technologies have been revolutionizing the motion control industry through trusted brand names such as MEI, Kollmorgen, Thomson, Dover and Portescap. As the industry’s leading global manufacturer of electromagnetic and mechanical motion control solutions, Danaher Motion products help OEM’s build a better machine, faster in industries such as aviation, medical, robotics, semiconductor, electric vehicles and packaging. For additional information visit [www.danahermotion.com](http://www.danahermotion.com), email [info@motioneng.com](mailto:info@motioneng.com), or call 805-681-3300.

### **About The MathWorks**

The MathWorks is the world's leading developer of technical computing and Model-Based Design software for engineers and scientists in industry, government, and education. With an extensive product set based on MATLAB® and Simulink®, The MathWorks provides software and services to solve challenging problems and accelerate innovation in automotive, aerospace, communications, financial services, biotechnology, electronics, instrumentation, process, and other industries. The MathWorks was founded in 1984 and employs more than 1,900 people worldwide, with headquarters in Natick, Massachusetts. For additional information, visit [www.mathworks.com](http://www.mathworks.com).



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