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Acquisitions

Siemens PLM Software Purchases Rulestream Engineer-To-Order (ETO) Software Technology and Brand Assets

6 October 2009

[Siemens PLM Software](#) announced the purchase of the Rulestream® software technology and brand assets, a leading engineer-to-order (ETO) software application for streamlining the business processes associated with custom-built products. Siemens PLM Software will offer the solution to its customers

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under the Rulestream brand name and assume full responsibility for ongoing software development and support.

“For more than eight years, Rulestream software has employed effective knowledge capture and reuse to help companies rapidly engineer products to customer specification. They have achieved greater engineering throughput, higher sales win rates, better margin security, shorter lead times and lower costs,” said Chuck Grindstaff, executive vice president of Products and chief technology officer of Siemens PLM Software. “The Rulestream technology’s ability to assist in simultaneously increasing revenues and lowering operating expenses makes it a compelling solution for the marketplace. As the newest member of our product family, it will serve as an ideal complement to our comprehensive suite of product development and lifecycle offerings.”

A comprehensive approach

ETO business processes are employed by a large and growing number of manufacturing industry segments, including power generation, HVAC, fluid flow technologies, heavy equipment, machinery, and the automotive and aerospace supply base. The increasing demand for customized or customer-specific product configurations creates a common set of challenges for these companies. There is constant competitive pressure for ETO manufacturers to increase the number, accuracy and win rate of their bids, while reducing order engineering lead time and optimizing resource utilization in manufacturing.

Rulestream addresses the unique challenges faced by ETO manufacturers with a comprehensive solution spanning sales, engineering and manufacturing. By capturing engineering knowledge and using it to automate key business processes across the enterprise, Rulestream streamlines the “inquiry to quote” and “order to release” processes for even the most complex products, so manufacturers can sell according to their engineering and manufacturing capabilities.

“We need to come close to a final design quickly to develop proposals and capture new business while estimating our costs accurately,” said Kip Alexander, senior technology manager, The Babcock and Wilcox Company. “With Rulestream we are able to do this, reducing proposal development from weeks to days. It allows our engineers to address design constraints in an automated fashion and prepare final designs in one-tenth of the time.”

Building customer value

Through ongoing software enhancements and support, Siemens PLM Software will continue to build business value for both current and future Rulestream customers. The company also plans to tightly integrate Rulestream with [NX™ software](#), its digital product development offering, and [Teamcenter® software](#), its digital lifecycle management portfolio. The addition of Rulestream to the Siemens PLM Software product line will reinforce and augment the investments made in Rules Based Design and Knowledge Based Engineering through the NX and Teamcenter application suites.

“Today’s announcement is good news for companies employing ETO business practices and/or building custom products,” said Ed Miller, president, CIMdata. “Siemens PLM Software’s high quality reputation for product development along with its open approach to doing business should help enhance the market status of Rulestream. The solution fits nicely into the Siemens PLM Software product mix and should enable a unique value proposition for its customers.”

Terms of the transaction announced today were not disclosed. Rulestream is available immediately from Siemens PLM Software. For more information, please visit

http://www.plm.automation.siemens.com/en_us/products/open/rulestream/index.shtml, or contact your local Siemens PLM Software sales office.

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Company News

ANSYS Accelerates Student Team to Finish Line

8 October 2009

ANSYS, Inc. announced that the University of Waterloo Formula Motorsports team leveraged software from ANSYS in developing an award-winning air intake restrictor for a race car engine. The student team used a design of experiments procedure within ANSYS® software to identify the best design candidates without building a prototype. The final result was improved air intake, enhanced overall engine performance and reduced exhaust emissions — along with a shortened development time and lower costs. For its efforts in developing the process, the Waterloo team received the Formula SAE® (FSAE) CFdesign® Computational Fluid Dynamics (CFD) Award, which recognizes the best implementation of CFD as a design tool.

The Formula SAE competition, organized by the automotive engineering society SAE International, promotes careers and excellence in engineering to college students worldwide. Teams build scaled-down formula-style autocross vehicles throughout the school year and test them at annual competitions, which judge static (such as design and cost analysis) and dynamic (including acceleration and endurance) components. The University of Waterloo team, hailing from one of Canada's premier engineering schools, has participated in the FSAE competition for 21 consecutive years.

The competition rules limit engine power by requiring air for engine combustion to pass through a hole (or restrictor) of 20 millimeters. Optimizing the flow of air through the intake geometry is crucial in providing the desired engine performance. The University of Waterloo team saw the opportunity for innovation and set out to modify the wall geometry to maximize pressure recovery through the restrictor. Using software from ANSYS to perform a fluid dynamics study, the team developed a design that helped improve the overall performance of the engine by boosting the flow of air, therefore increasing combustion efficiency while reducing emissions. The final design, culled from a design of experiments process that automatically obtains solutions based on a range of input parameters, improved pressure recovery by 4 percent.

“Fluid flow simulation is a vital tool for engine system developers,” stated intake system designer Anish Ganesh, an engineering student at the University of Waterloo. “Formula Motorsport teams do not have the time or resources to construct full-size prototypes restrictors, test them and make revisions to their designs. Other than performing expensive and time-consuming physical flow-bench tests, engineering simulation is the most useful tool for intake designers. The team’s partnership with ANSYS is invaluable in our quest to develop a winning car.”

[ANSYS](#) has partnered with FSAE by providing its engineering simulation software to students who participate in the competition. Currently, nearly 50 university teams use software from ANSYS to design their formula cars.

"ANSYS is committed to working with universities in many ways," said Paul Lethbridge, academic product strategy and planning manager at ANSYS, Inc. "Extending the use of ANSYS products for

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research and teaching has been an important part of the Company's history. In addition, there are a number of exciting projects, such as Formula SAE, that take students out of the classroom and allow them to apply textbook theories to real work experiences. These activities give them a great foundation in using Smart Engineering Simulation™ tools that they will employ throughout their careers.”

About University of Waterloo Formula Motorsports

The Formula SAE team, representing University of Waterloo, one of Canada's premier engineering schools, is an educational engineering project undertaken by over 40 student members on an annual basis. As a part of the learning experience, the team is challenged by the University to raise its own funding for the entire year through corporate sponsors and donors. Fully sanctioned by the University of Waterloo, the team is supervised by both the Department of Mechanical & Mechatronics Engineering and the Faculty of Engineering. For more information, visit <http://fsae.uwaterloo.ca/>.

About Formula SAE and SAE International

Formula SAE is a student design competition organized by SAE International (formerly Society of Automotive Engineers). Each student team designs, builds and tests a prototype based on a series of rules whose purpose is both to ensure onsite event operations and promote clever problem solving. The competition is staged by SAE International, a global society of more than 121,000 engineers and related technical experts in the automotive, aerospace and commercial-vehicle industries. SAE International's core competencies are life-long learning and standards development.

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ASCENT- Center for Technical Knowledge® Releases Updated Autodesk® Inventor® 2010 Sheet Metal Design & AutoCAD® Electrical® 2010 Fundamentals Training Guides

6 October 2009

RAND Worldwide® announced that its courseware division, ASCENT– Center for Technical Knowledge®, has released the updated Autodesk® Inventor® 2010 Sheet Metal Design and AutoCAD® Electrical® 2010 Fundamentals training guides.

ASCENT's Autodesk Inventor 2010 Sheet Metal Design training guide introduces the concepts and techniques of sheet metal modeling with Autodesk Inventor. The structure of the course follow the typical stages of modeling using Autodesk Inventor – creating sheet metal parts, editing them, generating flat patterns, and documenting the designs in drawings. All existing material has been updated for use in the new Ribbon interface, as well as the introduction of the new sheet metal features. New features added to the software that are now addressed within the training manual include lofted flange, contour roll, rip, and unfold and refold features.

“ASCENT's Autodesk Inventor 2010 Sheet Metal Design focuses on features specific to the process of sheet metal part creation,” said Joe Oswald, Executive Vice-President PLM Operations, RAND Worldwide. “Incorporating software enhancements and a host of new features, the training guide is designed to ensure that users will maximize their application of this new release.”

ASCENT has also released an updated AutoCAD Electrical 2010 Fundamentals training guide. The training guide covers the indispensable core topics for working with AutoCAD Electrical. Students are taught to create schematic drawings, panel drawings, and PLC-I/O circuits using automated commands for symbol insertion, component tagging, wire numbering, drawing modification, and reports. In addition, students are introduced to methods of customizing AutoCAD Electrical symbols, circuits, and

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databases. The changes made to the AutoCAD Electrical interface have been integrated throughout the training guide.

ASCENT is an Authorized Author, Publisher, and Developer of Autodesk® curriculum. All of the courses authored by ASCENT for Autodesk software are available to educational institutions, individuals, and corporations.

ASCENT will also be releasing AutoCAD Architecture 2010 Advanced and Civil 3D 2010 Update in October. To see the company's complete courseware lineup for Autodesk, Dassault Systèmes, and PTC software solutions, please visit <http://www.ASCENTed.com>.

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AspenTech Opens Middle East Office in Bahrain

6 October 2009

[Aspen Technology, Inc.](#) announced it has opened a Middle East office in Bahrain. The Middle East is a key region in AspenTech's growth strategy for expanding its leadership position in the process optimization market.

- Many Middle East-based process manufacturers already use AspenTech solutions across the globe.
- To lead AspenTech's expanded efforts in the Middle East, the Company has hired Jay Manouchehri as General Manager, Middle East Operations. Manouchehri brings to AspenTech extensive Middle East market experience, having worked in managerial positions at Honeywell, ABB and most recently in a Bahrain-based process industry consulting company.
- AspenTech also announced that effective today, AspenTech Middle East W.L.L. is no longer a reseller of AspenTech solutions. All Middle East sales, marketing and business development will be handled out of the Company's new Bahrain office.

Supporting Quotes

Antonio Pietri, Executive Vice President of Field Operations, AspenTech

“Growing our strong base of operations in the Middle East is an important strategic initiative for AspenTech in FY10 and beyond. Hiring Jay Manouchehri and centralizing our operations in the new Bahrain office is a major step forward in executing AspenTech's growth plan for this vital region.”

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Dassault Systèmes Implements Web 2.0 Solution for Global Knowledge Sharing

6 October 2009

Dassault Systèmes (DS) announced the successful deployment of BlueKiwi business-to-business community development platform, resulting in the offer DSX-Eco Pulse. This Web 2.0 platform will enable DS sales communities located anywhere in the world to speed up knowledge sharing and improve their performance by providing customers and partners in all industries with the most up-to-date information, such as best practices, industry trends, case studies and business processes.

DSX-Eco Pulse was initially rolled out internally in April 2009 and is now being deployed to all knowledge communities worldwide. With this new Web 2.0 infrastructure for dedicated business communities, conversations between experts are focused on critical business needs and the speed of interaction is improved as compared to traditional office collaboration tools. Dassault Systèmes Social Innovation solutions for content and conversation centric social networking aim to expand its V6 collaborative intelligence solutions. Further details on DS Social Innovation solutions will be forthcoming in the following months.

“The development of global business, markets and supply chains has created a new reality. No longer bound by timezones or geographic borders, the ability to access and share real-time information in an online, collaborative environment can be a serious game changer for our partners and customers,” says Etienne Droit, executive vice president, PLM Value Selling, Dassault Systèmes. “This is a new step in our channel development strategy. Unlike traditional approaches to channel management, Dassault Systèmes is promoting collaboration among partners through business communities to deliver real time value to all of our customers and partners in the broader global business environment.”

“[Dassault Systèmes](#) and Adaptive Corporation frequently evangelize the idea of collaboration to our customers. This is what Product Lifecycle Management is really about. With DSX-Eco Pulse Dassault Systèmes is not only talking the talk but walking the walk,” says Frank Thomas, president, Adaptive Corporation, DS’s 2008 Business Partner of the Year. “By embracing the power of Web 2.0 and blueKiwi for Social Innovation, DS and its partners are expediting collaboration, sharing experiences, and better assisting our customers to ‘Emerge With Advantage.’”

“The speed of information dissemination, knowledge sharing and best practices, are the keys to identify and win new markets. Making information available to the wider Dassault Systèmes community to stimulate trade, increase productivity and respond to new customer needs are concrete examples of our Social Innovation approach,” declares Carlos Diaz, president and CEO, blueKiwi Software, a Dassault Systèmes Social Innovation partner.

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FISHER/UNITECH is Named Michigan Proprietary School by Department of Labor and Economic Growth

5 October 2009

FISHER/UNITECH announced its status as a Michigan Proprietary School, licensed by the Department of Labor and Economic Growth. This new status will allow the company to provide 3D mechanical design software and training to displaced engineers and other eligible workers. Schools in Michigan that teach a trade, occupation or vocation, usually to individuals beyond the high school level, are required to be licensed by State law. To that end, the state created the designation “Michigan Proprietary School.”

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Having completed a thorough evaluation process, FISHER/UNITECH's education centers in Grand Rapids and Troy were granted this status.

FISHER/UNITECH offers individuals looking to enhance their current skill set or learn a new technology the tools to do so with no out-of-pocket expenses when authorized by their local MichiganWorks! agency office. MichiganWorks! offices serve as the one-stop service centers of Michigan's Workforce Investment Board. These service centers distribute funds made available from federal programs such as the Workforce Investment Act and the Trade Adjustment and Assistance Act. Candidates who qualify to receive MichiganWorks! benefits may now take training at FISHER/UNITECH that is funded by these programs. Candidates must visit their local Michigan Works! Agency (MWA) to determine eligibility. Candidates may qualify if they are unemployed, have received a termination or layoff notice, or are employed with a combined family income of less than \$40,000 per year. There are over 25 MWA's covering every county in Michigan. Visit the Michigan Works! Association website for a list of offices at <http://www.michiganworks.org>. Qualified applicants can receive up to \$6,000 to apply towards continuing education and training.

FISHER/UNITECH is the only reseller in the state authorized to provide SolidWorks 3D CAD software and training funded by MichiganWorks! The company's training curriculum includes 27 SolidWorks, Simulation, Collaboration, and Product Data Management courses that can be taken online or in one of two branch locations in Troy, or Grand Rapids, Michigan. FISHER/UNITECH has developed four comprehensive software and training bundles to facilitate the skill enhancement of displaced designers and engineers. Admission requirements for each bundle include practical work experience and experience with the Microsoft Windows™ operating system. Specifics on each bundle can be obtained through any MichiganWorks! office or from a FISHER/UNITECH branch office.

“Our appointment as a Michigan Proprietary School enables us to enhance our ability to assist displaced engineers in this community,” said Charles Hess, president of FISHER/UNITECH. “Coupled with our No Engineer Left Behind Virtual Job Fair, we hope to have a very positive impact on the prospects for re-employment of engineers in this area.”

More information on this announcement can be found at the company's website or at the Virtual Job Fair for Engineers at <http://funtech.veplatform.com>.

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IMAGINiT Technologies Now Authorized to Offer Autodesk's Moldflow Suite of Products

8 October 2009

RAND Worldwide® announced that its IMAGINiT Technologies division has been authorized to sell, support and train customers on Autodesk's suite of Moldflow products (link: rand.com/imaginit/moldflow). The Autodesk Moldflow products simulate the plastics injection molding process and include Autodesk Moldflow Adviser (AMA) and Autodesk Moldflow Insight (AMI).

IMAGINiT is authorized to sell the Moldflow product suite and deliver services in support of the products, from more than 35 locations throughout North America including IMAGINiT's Canadian division which was named Autodesk's 2009 Reseller of the Year. In addition to this broad geographical coverage, IMAGINiT employs several former Moldflow employees who are veterans in the plastics industry and are well versed in the technology that drives the simulation capabilities contained in the Autodesk Moldflow suite of products.

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Marc Dulude, president and CEO of Rand Worldwide, was the president and CEO of Moldflow from 1996 – 2002 and was instrumental in advancing the technology to the level of sophistication that makes it the premier solution in the plastics injection molding simulation arena. Moldflow was acquired by Autodesk in 2008. Excited by the opportunity to once again be involved with the Moldflow products, Dulude stated “Throughout my tenure at Moldflow, I was committed to the success of the product suite and the resulting success that the technology created for our clients. I am thrilled to be re-engaged with a customer base that our management, sales and technical teams have known over the course of many years, as well as the opportunity to deliver a best in class solution to clients not yet familiar with the benefits of simulation.”

“We are pleased to have IMAGINiT representing our Autodesk Moldflow suite of products,” states Steve Blum, Autodesk’s senior vice president, Americas sales. “The combined years of Moldflow experience on the IMAGINiT team made them an ideal partner to help Autodesk promote, support and train clients on the Moldflow products. They have put an impressive team together that possesses the right depth of technical and industry expertise to help customers fully realize the benefits of the industry-leading software suite for plastics injection molding simulation.”

For more information on the Moldflow products and IMAGINiT’s services for those products, please visit rand.com/imaginit/moldflow or contact: moldflowinfo@rand.com

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MicroStrain Wins Omnify Software 2009 Customer Innovation Award

6 October 2009

Omnify Software announced that Michael Jewett, production manager for [MicroStrain](#), was the recipient of the 2009 Omnify Software Customer Innovation Award presented during Omnify's 2009 customer conference. MicroStrain produces smart, wireless, microminiature displacement, orientation and strain sensors.

The [Omnify Software](#) Customer Innovation Award honors a customer that has demonstrated an innovative use of the Omnify PLM system. Mr. Jewett was instrumental in implementing the Omnify solution to enhance and enforce business processes as well as develop advanced integrations with MicroStrain's engineering design environments, Altium® and Autocad®, and their Made 2 Manage® ERP system. The integrated process established by Mr. Jewett with the implementation of Omnify Empower PLM has resulted in a decrease of MicroStrain's Bill of Material (BOM) processing time from two to three days to just minutes. MicroStrain engineers can access approved parts stored in Omnify directly from Altium and/or Autocad. The BOMs generated from the engineering systems are imported into Omnify for approval and the released BOM data is sent directly to Made2Manage for a completely automated and streamlined process.

"The implementation of Omnify has resulted in a completely integrated product development and production process," said Michael Jewett, production manager for MicroStrain. "Omnify enforced our business rules much more consistently than was possible with the previous manual process."

"We feel that customers should be recognized for their ability to go above and beyond in utilizing Omnify to improve their product development processes," stated Jack Rowntree, chief operating officer for Omnify Software. "Mr. Jewett has certainly earned this recognition due to his in-depth product knowledge and ability to maximize the use of Omnify PLM at MicroStrain."

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PCO Innovation Extends Operations in the United States

5 October 2009

PCO Innovation this week announced the consolidation of its brand in the United States with the creation of local agencies.

[PCO Innovation](#), based in Montreal, has been operating throughout the United States for more than eight years, establishing a higher profile and building its confidence level with its clients.

"The expansion of PCO Innovation in the United States is an exciting and important step in the growth of our company," said Olivier Letard, Co-President of PCO Innovation. "Our 2007 merger with a French company represented phase one of our growth plan. After a period of consolidation, we are now prepared to extend operations in the largest PLM market in the world - the United States - with a 'one company' approach that will best serve our customers."

"The United States launch represents a sizeable investment on the part of PCO Innovation," Mr. Letard noted. With this consolidation in North America and other expansion projects around the world, he anticipates that the company's work force - currently at 500 - may double within several years. Organic growth is a key part of the company's growth plan, he added, and the company also has an active merger and acquisition strategy in place that applies to all territories.

"Excellence, commitment and pro-activity on behalf of customers are the key principles of PCO Innovation," said Mr. Letard.

PCO Innovation provides a full-range of services for CAD and PLM to more than 120 customer organizations in the automotive, aeronautics, defense, electronics, energy, pharmaceuticals, and food and beverage industries, among others. He added that PCO professionals offer both business and technical consulting services; specializing in solutions developed uniquely to respond to each customer's business environment, challenges and goals.

The company's software partnerships include Dassault Systemes, Siemens PLM, Oracle, PTC and SAP.

"This is a seminal moment in the growth of our organization," Mr. Letard concluded, "and the United States market offers significant and promising opportunities for the future."

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Tata Technologies Announces 'Accelerate PLM' Deployment Solutions

6 October 2009

[Tata Technologies](#) announced "Accelerate PLM," a structured product lifecycle management deployment solution that guarantees a successful PLM implementation.

"In order for companies to thrive, they must have both the best technology and the best processes supporting their product design," said Kevin Power, Tata Technologies PLM Practice Manager.

"Accelerate PLM solutions target key business issues faced by companies that design, engineer and manufacture products. We understand these issues and have put together this structured PLM deployment that guarantees a successful implementation."

Accelerate PLM is not simply a deployment solution for hardware, software, or a combination of the

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two; it is a rigorous, scalable approach to PLM deployment that is tailored to the needs of each client company, Power noted.

“We have the experience, the booster packages and the pre-defined solutions that ensure an efficient – and painless – client experience,” he added.

Accelerate PLM is for organizations with existing PLM systems as well, that may no longer be supporting increasing production demands; or for companies seeking to improve their bottom line by increasing the efficiency of the PLM implementation.

Highlights include:

- Quick PLM deployment
- Carefully phased introduction of important PLM solution elements
- Standard processes and tools for implementation
- Pre-designed configurations for rapid deployment
- User training via i GET IT®
- Full lifecycle report via i SUPPORT IT

“Accelerate PLM is a completely client-focused deployment solution,” Power added. “The solution elements are independent of any PLM software OEM; but they are effective with all of the leading PLM software solutions.”

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TECOSIM Establishes RADIOSS Competence Center in Cologne, Germany

6 October 2009

[Altair Engineering, Inc.](#) announced that TECOSIM Technische Simulation GmbH, an engineering company with specialist expertise in computer-aided engineering (CAE), has established a new RADIOSS Competence Center at its Cologne branch office.

Since the company's founding in 1992, TECOSIM has trusted RADIOSS, the Altair HyperWorks suite solver solution, for explicit and implicit analysis. TECOSIM's engineers around the world appreciate the easy-to-handle RADIOSS solver technology. By setting up a Competence Center, the company now has bundled its many years of RADIOSS expertise under a single roof to provide engineering services to all of its key automotive tier one and OEM customers.

"RADIOSS is a robust, effective and predictive solver, providing highly paralleled and linearly scalable solutions," said Dr. Torben Birker, director, TECOSIM Technische Simulation GmbH. "The RADIOSS Competence Center not only allows for continuing enhancement of various full vehicle and component crash and safety simulations, but it also pushes advanced modeling techniques, e.g. composite simulation and laminated glass, in deep cooperation with OEMs. RADIOSS is a world-class solver technology for today's most complex CAE-problems."

TECOSIM's experience, combined with the productiveness of RADIOSS, enables it to implement future-driven technologies, such as multidiscipline optimization, leading to weight- optimized components, lighter vehicles and hence material and CO2 reduction in the production and use of a new product. TECOSIM's automotive customers will benefit from this newly established Competence

Center.

"I am very happy about TECOSIM's decision to set up a RADIOSS Competence Center," said Dr. Detlef Schneider, managing director, Altair, Germany. "It shows the faith they have in RADIOSS and our products and sets new standards in engineering services. TECOSIM engineers have the know-how and use the state-of-the-art products needed to offer high-class services to their automotive customers."

About RADIOSS

RADIOSS is a next-generation finite element solver for linear and non-linear simulations. It can be used to simulate structures, fluids, fluid-structure interaction, sheet metal stamping and mechanical systems. This multidisciplinary solution allows manufacturers to maximize durability, noise and vibration performance, crashworthiness, safety, and manufacturability of designs to bring innovative products to market faster.

About TECOSIM

[TECOSIM Technische Simulation GmbH](#) is an engineering company with specialist expertise in Computer-Aided Engineering (CAE). Founded in 1992, TECOSIM today employs more than 240 engineers around the world.

The company is based in Ruesselsheim, Germany, with branches in Cologne, Munich, Stuttgart and Wolfsburg and is a wholly owned subsidiary of TECOSIM Venture GmbH. With three further subsidiaries, TECOSIM Engineering Services P Ltd., Bangalore, India; TECOSIM Technical Simulation Ltd., Basildon, U.K.; and TECOSIM Technical Simulation Ltd., Tokyo, Japan, the TECOSIM Group is known as a worldwide supplier of complete solutions for computation and simulation, handling structural and flow-mechanical issues in the areas of crash, CFD, safety, statics and dynamics.

TECOSIM's client base includes automotive suppliers and manufacturers around the world, as well as leading aerospace companies.

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Events News

Autodesk Manufacturing Academy Provides California Engineers with Training on Digital Prototyping Software, Management Skills and Career Advancement

7 October 2009

[Autodesk, Inc.](#) is partnering with KETIV Technologies, an Autodesk Premier Solutions Provider, to host the KETIV Autodesk Manufacturing Academy, a training event for mechanical design and engineering professionals. KETIV AMA|2009 will be held in Cerritos, California on October 15 and at the Autodesk Gallery in San Francisco, California on October 22. Attendees will be given the opportunity to acquire new skills, explore the newest solutions, and network with peers--all close to home. The instructors have selected classes that reflect the top needs of designers and engineers today.

"Autodesk is committed to helping customers become savvy in all aspects of their business," said Tom Cameron, vice president of manufacturing sales, Autodesk. "Events such as the KETIV manufacturing academy, that focus on the benefits of Digital Prototyping as a business driver and competitive differentiator, are what help to keep customers on the cutting edge and will position them for growth when the economy turns around."

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"The Autodesk Manufacturing Academy is an effective way for our many California users to get the most out of their Autodesk tools," said Kanwar Anand, president and CEO, KETIV Technologies. "The Academy's focus allows participants to learn and leverage the latest best practices that increase productivity and competitiveness and its location allows people to spend less time and money on travel."

Participants can choose sessions from any of the tracks, which include Design and Automation, System Configuration and CAD Management, and Management and Career Advancement, in addition to many opportunities to network and share best practices with peers.

"KETIV's Inventor experts demonstrated utilization of Inventor's design tools to expedite design creation, changes, and assembly fabrication to quickly implement improved manufacturing processes," explained John Parsons, Xerox Corporation's Senior Mechanical Engineer for Special Information Systems and a past AMA attendee. "Their demonstration of Inventor Professional expertise, technical support, and unequalled service convinced us to join their team."

Sensitive to the strains of the economy, KETIV is offering three ways to save on tuition including a two-for-one early bird special. For details including courses, instructors, and registration information visit <http://www.ama.ketivtech.com> or contact Kathy Ortega at 866.465.3848.

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Bentley Announces Winners of 2009 Be Inspired Special Recognition Awards

8 October 2009

Bentley Systems, Incorporated will announce the winners of its 2009 Be Inspired Awards next week during its Be Inspired: Infrastructure Best Practices Symposium and Awards in Charlotte, N.C. The awards honor outstanding achievements in infrastructure and are judged by an independent panel of industry experts.

Today, Bentley announced the winners of a new set of awards called Be Inspired Special Recognition Awards. The winners of these awards are innovative and visionary infrastructure projects and organizations that were placed into nomination by the Be Inspired jurors for achievements embracing multiple Be Inspired Awards categories. The nominees were then reviewed by a panel consisting of Bentley Systems CEO Greg Bentley, CTO and founder Keith Bentley, COO Malcolm Walter, SVP Bhupinder Singh, SVP Buddy Cleveland, and Jay McGraw, Group Publisher, McGraw-Hill Construction. The achievements being recognized include: Attaining Return on Innovation, Sustaining Our Society, Sustaining Our Environment, and Sustaining the Professions.

Greg Bentley said, "In reviewing this year's Be Inspired Awards, the jurors recognized that select nominations had distinguished themselves across a number of Be Inspired categories and, therefore, deserved to be placed in a special awards category. This new category acknowledges innovations in employing technology and implementing practices that best exemplify Bentley's mission of Sustaining Infrastructure. On behalf of all my colleagues at Bentley, I offer my hearty congratulations to these winners for their distinctive accomplishments in improving the quality of life for us all."

The winners of the 2009 Be Inspired Special Recognition Awards are as follows:

- **Attaining Return on Innovation** – KBR/EOS Oil & Gas Services Joint Venture, the North Rankin Redevelopment Project. This project best represents innovation in the use of technology and creative workflows to create value and deliver better-performing infrastructure with quantifiable results. Its goal is the recovery of low-pressure gas from the North Rankin and Perseus fields off Karratha, Western

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Australia. The project scope includes the design and construction of a second platform with gas compression facilities, low-pressure separators, utilities, and accommodations. The project team's use of Bentley's ProjectWise Lifecycle Server provided all stakeholders with access to real-time information via a portal dashboard, allowing enhanced decision-making and transparency between client and contractor. For additional information, visit www.bentley.com/Return-on-Innovation.

- **Sustaining Our Society** – Hatch Associates Pty Ltd, Adelaide Desalination Project. This project best demonstrates the power of infrastructure to benefit society by improving quality of life, promoting economic development, and increasing resilience against natural disasters or climate change. Its primary objective is the design and development of a 100-gigaliter-capacity desalination plant urgently commissioned by South Australia Water following a long drought. The new plant will help the region supplement its fresh water supply, relieve the current burden on the existing rain-water catchment system, and allow water levels to regenerate. The project team employed Bentley's advanced 3D modeling applications to achieve an optimal and highly accurate plant layout and material take-off, as well as to visualize the plant's impact on the environment and local communities. For additional information, visit www.bentley.com/Sustaining-Our-Society.

- **Sustaining Our Environment** – Olsson Associates, Antelope Valley. This project best illustrates how an infrastructure project can help reduce ecological footprint, increase biocapacity, and facilitate the wise use of nonrenewable resources. The City of Lincoln, Nebraska, the University of Nebraska, and the Lower Platte South Natural Resources District had identified three goals for Antelope Valley: community revitalization, storm water management, and transportation improvements. The project has created new and improved housing, parks, and recreation facilities; storm sewer improvements; and a roadway system designed for 2025 traffic volumes. In addition, by removing 50 acres of the university campus from the 100-year flood plain, a flood event will be contained to the banks of the new channel. Moreover, various low-impact development concepts were used throughout the project. The innovative use of Bentley's interoperable software resulted in enhanced data sharing and increased workflow efficiencies among design teams, clients, and other stakeholders. For additional information, visit www.bentley.com/Sustaining-Our-Environment.

- **Sustaining the Professions** – Parsons Brinckerhoff (PB). This organization has demonstrated an exemplary commitment to sustaining the infrastructure professions through continuous learning, professional development, mentoring the next generation of infrastructure professionals, and providing an exceptional environment for learning. Its Professional Growth Network – an industry first – allows the firm's emerging professionals to directly shape the future of PB by enabling direct communication among peers and senior management. To date, it has yielded recommendations for PB's corporate strategy as well as improvements to the mentoring and new employee programs. PB also maximizes the value it creates from its Bentley training subscription by earning 50 percent of its Bentley Institute learning units online and using a virtual classroom for more than 80 percent of its live training. For additional information, visit www.bentley.com/Sustaining-the-Professions.

About Be Inspired: Infrastructure Best Practices Symposium and Awards

The Be Inspired: Infrastructure Best Practices Symposium and Awards, taking place Oct. 12-14 in Charlotte, N.C., is Bentley's premier thought leadership and networking event for 2009. During this invitation-only symposium, the finalists of the 2009 Be Inspired Awards will present the best practices behind the successful realization of their projects. In addition, all of the leading practitioners who have gathered for this event will have an opportunity to participate in interactive roundtable discussions on the key issues driving the business and design of infrastructure. For additional information about the Be

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Inspired: Infrastructure Best Practices Symposium and Awards, visit

<http://www.bentley.com/BeInspired>.

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Dassault Systèmes Customer Conference 2009 Opens With “Emerge With Advantage” Theme; Keynotes, Technology Tracks and Customer Testimonials Reinforce Conference Focus

6 October 2009

Dassault Systèmes (DS) announced that its Customer Conference in Orlando, Florida will open today with several hundred executives expected to attend. Over the next two days the event will provide North American attendees with expanded access to key customer executives and success stories from all of its PLM brands, including CATIA, DELMIA, ENOVIA, SIMULIA, and 3DVIA.

The conference’s theme, “Emerge with Advantage,” is focused on helping customers examine ways to weather the current economic downturn and emerge with a stronger innovation pipeline, improve their product development processes, and maximize their future potential.

Encapsulated within the theme of “Emerge with Advantage” attendees will hear how some of the world’s leading companies, including Guess and Honda, are using Dassault Systèmes’ PLM solutions to support business and product innovation. In addition, Dassault Systèmes CEO Bernard Charlès will outline the company’s vision around sustainable innovation and how companies, by leveraging communities in shaping collaboration and global knowledge sharing, deliver better products and services.

Attendees will also learn how DS customers and partners are successfully transforming new product innovation at companies of every size and in a variety of vertical markets, including A&D, automotive, consumer goods (including consumer packaged goods and retail, footwear & apparel), energy, high tech, industrial equipment and life sciences.

“A number of key market indicators appear to show that the economic decline has slowed, with even some signs of a conservative recovery on the horizon. Those companies that strengthen themselves during the downturn will be able to take full advantage of the business opportunities that will emerge over the coming months,” said Tom Emmrich, President, Americas, Dassault Systèmes. “DSCC09 provides a great forum to interact directly with our customers and partners in order to demonstrate how DS PLM solutions can facilitate the conception and introduction of new products to deliver sustainable growth.”

DSCC09 highlights include:

- Keynote addresses from market-leading companies, including Honda and Guess;
- Nine industry-specific tracks featuring customers, such as Barilla and Johnson & Johnson Consumer in CPG, Pfizer and Beckman Coulter in Life Sciences; GE Energy and Oceaneering in Energy; Guess and Jockey in retail, footwear and apparel;
- A presentation by Bernard Charlès, president and CEO, Dassault Systèmes entitled “Sustainable Innovation = Sustainable Company”;
- A Tech Showcase featuring all of the latest offerings from DS’s five PLM brands;
- Day Two, entitled “PLM Technology Day,” will include a roundtable featuring all five DS brand

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CEOs. This will be followed by separate brand tracks for CATIA, DELMIA, ENOVIA, SIMULIA, and 3DVIA focusing on a variety of topics, including PLM 2.0, digital manufacturing and production; communicating in 3D to enhance competitiveness, and achieving maximum ROI from high performance computing and data center resources;

•Key sponsors for the event include the Platinum Sponsors (IBM and Microsoft); Gold Sponsors (CSC, Dell and HP); Gold Industry Sponsors (Cadence, Esko, Integware, L&T InfoTech, Prostep, SBS and Technia) and Silver Sponsors (Geometric, Inova, Kalypso, PCO, Rand, TetraTech, Theorem Solutions and Vistagy).

The latest updates from DSCC09 are also available via the following social networking tools:

•Twitter

www.twitter.com/dscustomerslive

•YouTube

www.youtube.com/user/NewsDSCC09

•The DS Corporate blog - 3D Perspectives

<http://perspectives.3ds.com/>

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Delcam Announces More than 35 Partner Stands at EMO

1 October 2009

Delcam will be working with more manufacturing partners than any other software supplier at the EMO exhibition to be held in Milan from 5th to 9th October. The company will be promoting its CAM and inspection software in association with more than 35 partners, including many of the world's leading providers of machine tools, cutting tools and inspection equipment.

The current list of partners is as follows: -

Acsys	Hall 1, Stand A14
Agie Charmilles	Hall 7, Stand F13, E20
Alesamonti	Hall 1, Stand D03
CG Tech	Hall 9, Stand A20
Citizen	Hall 5, Stand A30
CMS Zogno	Hall 1, Stand D25
Datron	Hall 1, Stand A14
DMG	Hall 4, Stand C02, D01
Doosan	Hall 5, Stand B02, D01
Exeron	Hall 1, Stand C31
Faro	Hall 9, Stand C16
Fidia	Hall 1, Stand B10
FPT Industrie	Hall 1, Stand B02, C01

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Hanwha	Hall 2, Stand G10, H09
Hardinge-Bridgeport	Hall 6, Stand H08
Hermle	Hall 4, Stand B06, C05
Hurco	Hall 5, Stand C04, D03
Huron	Hall 4, Stand A12, B13
Ispcr	Hall 1, Stand B16
Lasit	Hall 14, Stand G04
Matsuura	Hall 7, Stand G02, H01
Mikron	Hall 7, Stand E20A
Mitsubishi	Hall 3, Stand E12
Mori Seiki	Hall 4, Stand C04, D03
Ombi	Hall 4, Stand C04, D03
OPS Ingersoll	Hall 7, Stand H33A
Perico Baroni Raimondi	Hall 2, Stand F26
Rema Control	Hall 7, Stand F22
Renishaw	Hall 7, Stand G06, G08
Roeders	Hall 2, Stand E08
Samp Utensili	Hall 2, Stand G18, H17
SGS	Hall 10, Stand D07
Sintesi	Hall 3, Stand G02, Hall 9, A22
Speroni	Hall 10, Stand B14, C15
SW Machines	Hall 4, Stand B04, C03
Tai Tech	Hall 2, Stand F14
Tornos	Hall 2, Stand F08, Hall 3, E40
Utimac	Hall 18, Stand F01
Yamazaki Mazak	Hall 7, Stand E02, G01
YCM	Hall 4, Stand C22, D19

The majority of the partners support the use of Delcam's PowerMILL, which is consistently rated the world's leading specialist CAM software in [CIMdata's annual reviews of sales of NC software and related services](#). From its traditional position as the primary system for mould and die manufacture, the software is now becoming recognised for its wide range of prototyping and production machining applications, including aerospace structures, blades and blisks, and engine ports.

Other partners will feature Delcam's more recent additions; FeatureCAM for feature-based machining and PartMaker for Swiss-type lathes and turn-mill equipment. New versions of all three programs will be demonstrated on the Delcam stand.

PowerINSPECT, which will be shown by most of the leading metrology companies at the exhibition, is a solution for all the leading manufacturers of inspection arms and is growing in popularity for conventional co-ordinate measuring machines and for On-Machine Verification.

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"Companies looking to invest in CAM software are often worried whether the toolpaths generated will work as well on the machine tool as they do on the computer," commented Delcam's Advanced Manufacturing Product Manager, Mark Forth. "Thanks to our partners at EMO, we will be able to demonstrate the speed and quality that is possible with our software on a wide range of machines."

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Delcam Offers Three More Chances to See Latest FeatureCAM in USA

9 October 2009

Following the successful launch of the latest version of its FeatureCAM feature-based machining software at South-Tec, the Wisconsin Machine Tool Show and the North Texas MTS, [Delcam](#) is offering three more opportunities for companies to see the new release over the coming weeks. It will be on show at the Industrial Trade Show in Wichita from 20th to 22nd October, the North Alabama Machine Tool Expo in Huntsville on 4th and 5th November and the Pacific Coast Machine Tool Expo in Santa Clara from 10th to 12th November. Enhancements will be demonstrated across the full range of FeatureCAM functionality, from 2D drilling and wire EDM, to five-axis milling and mill-turn operations.

A range of enhancements in the 2010 version will make the FeatureCAM software even quicker. Most important of these developments is support for multi-threading when generating 3D toolpaths. This allows calculations to be spread across multiple cores in dual- or quad-core computers. Average time savings are around 25% on a dual-core PC.

Improved algorithms have been introduced within the user interface to speed up the editing of features and to reduce the time needed to switch between machine-tool set-ups, while more efficient handling of stock models will reduce the memory required and so enhance performance still further.

The most innovative new programming option is combined drilling and milling functionality that will allow more efficient hole creation on machines fitted with automatic tool changing. It generates roughing and finishing toolpaths to produce any holes for which the appropriate drill is not loaded, using the existing tooling within the machine's crib.

The new option is much faster than having to change the tooling available to match the set of hole sizes in each job, especially for companies manufacturing prototypes or short-run components. It will allow complex parts to be produced more easily in cases where the range of hole sizes is larger than the number of positions in the crib. In addition, the number of different tools that need to be stocked can be reduced and it will be much simpler to move jobs between different machine tools.

Companies that do not have automatic tool changing on their machines can also benefit. In some cases, it will be possible to use a combination of drilling and milling with a single cutter to generate all the holes in the part. This could then allow the complete sequence to be run without the machine needing to be manned.

Other new options include a new spiral finishing option that gives faster machining and improved surface finish with no dwell marks, and automatic rest roughing to minimise air cutting when applying a series of progressively-smaller roughing cutters. In addition, a 3D chamfer can be added to a part, even when this is not shown in the model, for de-burring and similar clean-up operations.

Two improvements have been duplicated from PowerMILL to give faster machining and better surface finish. FeatureCAM now has the same ability to redistribute the points within any toolpath to enable

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faster, smoother machining. Similarly, the program can now undertake tool-axis smoothing to avoid sudden changes in orientation of the cutter during five-axis machining.

Machining simulation has also been made faster and more accurate, in particular for simultaneous five-axis machining. In addition, a new dual-view option allows a part to be viewed from two-different angles simultaneously. This will be most helpful when simulating the production of large or complex parts.

The range of post-processors available with FeatureCAM has been further extended for both five-axis and mill-turn equipment. New machines now supported include the DMG CTX and GMX, Doosan Puma MX and TT, Mazak Integrex ST, Nakamura NTX and NTJX, and Okuma Macturn.

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Delcam to Launch Japanese PowerMILL 10 at Mechatrotech

7 October 2009

Delcam will launch the Japanese version of the latest release of its PowerMILL CAM system at the Mechatrotech exhibition to be held in Nagoya from 14th to 17th October. PowerMILL 10 offers Delcam's fastest-ever toolpath generation on multi-processor computers, giving greatly increased user productivity. The new release incorporates the latest background-processing and multi-threading technologies and so uses the full power of recent hardware developments to reduce calculation times and increase output dramatically.

Other enhancements to further increase productivity include reduced memory usage when programming the largest and most complex parts, and improved ordering to give faster cycle times on the machine tool.

Full details on the new version can be found on the PowerMILL 10 release centre – <http://www.powermill.com/rc10>. This also includes a white paper on the use of multi-threading and background processing, details on recommended hardware for PowerMILL 10, a return-on-investment calculator showing how quickly an investment in the software can be recovered, and a number of customer video testimonials.

The main benefit of PowerMILL 10 is that users can prepare data in the foreground while calculating toolpaths in the background. This eliminates the need for the user to wait for each calculation to be completed before he can start preparing the next operation. For example, it is no longer necessary to wait for a complete roughing path to be produced before work starts on programming the rest-roughing operation. Similarly, the user can be setting the parameters needed to machine one area of a part, while toolpaths are being calculated in the background for machining a second area with a different strategy.

Productivity is also increased because the computer can continue with a series of calculations during the user's breaks or even overnight. Calculations can be queued by the operator and the software will automatically start the next operation as soon as each toolpath is generated. This approach can be used with single core equipment but the benefits are even greater with computers having two or more cores.

The new multi-threading capabilities allow individual calculations to be divided between the cores in a multi-core machine. This improves calculation times significantly so increasing user productivity, reducing any down-time where machine tools are waiting for NC data and minimising lead times.

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The extent of the savings will depend on the size and complexity of the part being machined and on the programming strategies being used. Tests at Delcam indicate that a dual core computer will perform raster machining calculations in around 55% of the time taken by a single core machine. A quad core machine will complete the calculation in around 35% of the time and an eight core machine in around 25% of the time.

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Delcam to Show Latest DentCAD Dental Design Software at Expodental

8 October 2009

[Delcam](#) will demonstrate the latest version of its DentCAD dental design software in Italy for the first time at the [Expodental exhibition](#) to be held in Rome from 15th to 17th October. This new version offers automated tools for the design of inlays and onlays, and for the creation of dental bars and customised abutments, in addition to the previous options for copings, crowns and bridge frameworks.

The existing functionality has been improved to give closer integration with a variety of scanners and to give faster data transfer to Delcam's DentMILL program for dental manufacturing. DentMILL will also be featured at the Expodental show.

It is expected that many companies will want to use DentCAD alongside DentMILL. However, in keeping with the company's "open" approach to its software, DentCAD can be used with any combination of scanner, machining software and computer-controlled machine tool.

The key benefit of DentCAD is that it is easy to use and so is ideally suited, not only to dental technicians that are already using CAD/CAM, but also to those that have no previous experience of computer-aided design and manufacture. The whole process is based on a series of intuitive "Wizards" that guide the user through the entire design process.

A wide range of visualisation tools is available at every stage, including sectioning, shading, undercut-checking and fit-verification options that allow detailed inspection of the shape being developed. This ensures that the results are exactly as required by the patient.

The system is also very flexible, so allowing different design options to be developed and compared. For example, key parameters like the margin line and the cement thickness can be varied and the computer model will automatically update to reflect the changes. In addition, sculpting tools let the user add or subtract material interactively, while the dynamic editing tools allow the complete model to be reshaped quickly and effectively.

DentCAD offers levels of speed and accuracy that are impossible to achieve with manual methods. Complete restorations can be designed within minutes of importing the scanned data. The completed design can then be supplied to DentMILL or another machining program for the manufacture of the item.

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ESPRIT by DP Technology at the Wichita Industrial Trade Show, Wichita, Kans., Oct. 21-22

5 October 2009

[DP Technology](#) will exhibit its ESPRIT® software Oct. 21-22 at the [Wichita Industrial Trade Show](#), in

Wichita, Kansas.

Considered a major Mid-American resource for “manufacturing sources, industrial material, machinery and equipment,” the Wichita Industrial Trade Show offers exhibits from representatives of all sectors of the industrial community.

ESPRIT will be on display at booth No. 921, where helpful and informative representatives will be ESPRIT 2009 emphasizes the use of milling and, or, turning in various combinations on an array of machine tool types, which means that most improvements to the software are to the benefit of all programmers.

Other new or upgraded features include improvement to the facing, open-pocket machining, slot milling, chamfer milling and thread milling cycles.

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IMAGINiT Technologies Launches “Design Green” Sustainability Roadshow

5 October 2009

RAND Worldwide® announced that its IMAGINiT Technologies division is launching a four city “Design Green” roadshow, an initiative intended to bring together industry thought leaders and principals and partners in leading architectural firms.

“Sustainable Design and Building Information Modeling (BIM) are topics of enormous interest within the architectural and building industry today, and justifiably so,” says Bob Heeg, executive vice president, IMAGINiT Worldwide Operations. “Green building methods and BIM are the next stage in the evolution of building design, but the technology alone, while critical, is only one piece of the picture. That’s why we have selected an array of keynote speakers, who bring a unique perspective and insight into the challenges and opportunities of implementing sustainable design methods.”

Attendees will hear more about the emerging trends of sustainability and BIM and will examine the key business benefits of implementing such a solution. Hearing from a mixture of industry visionaries will give attendees insight into why it is important to take sustainable design methods into consideration during the entire building process.

One such visionary is Dr John Francis, world famous and bestselling author of Planetwalker: How to Change Your World One Step at a Time. After witnessing an oil spill in the early ‘70’s, Dr. Francis made the decision to stop using motorized vehicles. Several months later, to stop the arguments about the power of one person's actions, he took a vow of silence for 17 years. Dr. Francis will speak of his fascinating journey, and share his unique perspective on environment, and how we can each make a difference in our world.

In addition to Dr. Francis, each event will feature regional industry experts who will describe real world projects in which BIM and sustainable design were key considerations. As an added bonus, these events are being hosted in facilities where sustainable design was a key component of the architectural design of the facility.

IMAGINiT’s Design Green Roadshow runs from October 13 – 21, kicking off in Portland, OR, before moving on to Seattle, WA, Boston, MA and finally ending in New York, NY. For more information and to register, visit <http://www.rand.com/imaginit/designgreen>.

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The Design Green roadshow has been formally recognized by the American Institute of Architects and attendance entitles AIA members to 2.0 Continuing Education Credits.

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KOMPAS Highly Appreciated at International Engineering Fair

6 October 2009

KOMPAS-3D, MCAD software solution from ASCON, was presented at International Engineering Fair by CADservis, s.r.o., company's partner and KOMPAS reseller in Czech Republic.

Modern, professional and cost-effective KOMPAS solutions for 3D solid modelling, 2D drafting, design and release of drafting documentation was exhibited at one of the leading industrial showcase of Central Europe, gathered together about 90 000 visitors from different industries and countries. During the fair at the stand of CADservis, s.r.o., industrial enterprises specialists, IT experts, design and construction chiefs had a chance to familiarize and try in use this new product in the Czech market. Hundreds of potential users were interested in KOMPAS-3D and some of them classified this product as a very impressive and cost-effective solution in the period of economic recession.

In today's economic situation it is especially important to stay competitive and to manage resources effectively. ASCON provides its customers with the newest softwares to help them ensure quality, reduce costs, streamline process of product development and deliver the value their clients expect.

About KOMPAS-3D

KOMPAS-3D provides effective industrial product development, release of design and drafting documentation at affordable and reasonable price.

KOMPAS-3D combines all basic features for Professional, Parametric 3D Modelling, full-scale 2D Design and Drafting opportunities, special add-ons for photo rendering, motion simulation, kinematic and dynamic analysis, import/export from other CAD/AEC/PLM solutions.

During over 20 years history of KOMPAS software solutions over 40 000 seats has been installed.

Download free version of KOMPAS-3D LT at <http://www.ascon.net>

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PTC to Showcase Pro/ENGINEER Wildfire 5.0 During Forthcoming Regional UK & Irish Trade Shows

6 October 2009

[PTC](#)® confirmed that they will be demonstrating their latest software release, Pro/ENGINEER Wildfire 5.0 at three trade shows, regionally selected to cover Ireland and the UK.

The trade shows kick off with Manufacturing Technology Ireland, 14-15 October, where PTC will be hosting a stand with their exclusive Irish Reseller Honeycomb Solutions. October 20 – 21, PTC will be attending TCT show in Birmingham and conclude with Manufacturing Technology Scotland, 11 - 12 November in Glasgow.

Attendees at all shows will get their first chance of viewing PTC's Pro/ENGINEER Wildfire 5.0, the next major release of PTC's integrated 3D CAD/CAM/CAE software and a key component of the PTC

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Product Development System.

In today's complex environment, product development teams often face a number of barriers that can impact productivity. These include the difficulty of making design changes, the length of time to productivity, dealing with heterogeneous CAD data, working with a multitude of disconnected point solutions, and identifying resources and leveraging collective knowledge when needed. Pro/ENGINEER Wildfire 5.0 will offer new capabilities and over 330 enhancements that improve productivity, enrich the user experience and provide the freedom to design without barriers.

Highlights include:

Make design changes faster and easier

Accelerate time to productivity by up to 10X.

Design in a multi-CAD environment faster

Leverage new, seamlessly integrated Pro/ENGINEER applications.

Increase collaboration efficiency with breakthrough social product development capabilities.

Pro/ENGINEER Wildfire 5.0 is a CAD solution enabled for Social Product Development, with its integration to Windchill ProductPoint which leverages Microsoft SharePoint's social computing technologies - this will help users find and reuse their design community's collective knowledge and improve process productivity.

PTC's product development solutions can help companies optimize their Product Development processes, although an exciting element of these shows Pro/ENGINEER Wildfire 5.0 will not be the only solution on show. Windchill ProductPoint, the CAD data management solution for small to medium size organizations and Windchill PDMLink for larger organizations. Both of these software technologies will be available at all of the shows.

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Speakers at Boeing and Northrop Grumman Interoperability Summit to Focus on Critical Product Data Issues; Arizona Summit Registration Deadline Extended to Oct. 23

7 October 2009

A full roster of speakers from leading aerospace, automotive, IT and other companies will address key issues in product data exchange, service-oriented architecture (SOA) and product lifecycle management (PLM) at the Global Product Data Interoperability Summit this November in Mesa, Arizona.

The final list of presenters (which includes Boeing, Northrop Grumman, Dassault Systèmes Ford, Gulfstream, Microsoft, IBM, and Siemens) has just been released (see below). While the speakers list is now closed, the attendance registration deadline has been extended to Oct. 23.

Aerospace employees, academics and others who operate in the CAD/CAM/CAE/PLM space are invited to join the summit to listen to, and communicate with, industry leaders who are using best practices for data exchange between applications. The theme of the summit is "Common Information in a Changing World."

The event's co-hosts, The Boeing Company and Northrop Grumman Corporation, are combining three previously separate conferences—the Boeing Product Data Exchange Conference, the Boeing SOA

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Deep Dive and Northrop Grumman PLM Summit—into one.

“The high caliber of this summit’s speakers and vendors should create exciting synergy between disciplines,” said David Koshiba, Boeing Research & Technology director, Advanced Lean Enterprise. Added Todd Norwood, vice president, ERP and Enterprise Programs, Northrop Grumman, “This is an excellent opportunity for professionals from across industry to deepen their knowledge of the role interoperability plays in today’s changing business environment.”

The Summit is being held at the Arizona Golf Resort/Hotel/Conference Center in Mesa. Open sessions begin at 1 p.m. Nov. 10 and run through 2 p.m. Nov. 12. For registration information, contact event coordinator [Elysium Inc.](#)

I. Speakers and Topics at the Global Product Data Interoperability Summit:

Keynotes:

Brett Hillhouse
IBM

Trends in Aerospace and Defense Product Development

Jim DeLaPort
Gulfstream
Data Exchange

David McCoy
Boeing

Access to Product Life Cycle Data using a Canonical and Service-Based Approach

Mike Burkett
AMR Research
PLM Industry Trends

Ken Tashiro
Elysium
Vendor Introduction

Open Sessions:

Charlie Stirk
PDES Inc.
Overview of STEP’s recent developments and future plans

Mark Thomas
Right Hemisphere
Future Proofing Your Data Structure

Robert Bean, Jim Gordon
Kubotek
Automated ECO's ... Leveraging 3D validation tools to generate Engineering Change Orders

Tom Cogswell
Boeing
Data Exchange & SOA Interoperability: You Say Potatoe, I say Potato

Darwin Reed

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Boeing

Enterprise Implementation - It's more than meets the 'I'

Peter Shilnikov

Bauman Moscow State Technical University, Russia

Ontology based technology for development of software tools for STEP data processing

Neil McPhater

AVEVA Solutions Limited

Digital convergence is driving interoperability across engineering domains - the marine industry example

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Capvidia

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Surfware, Inc. to Demonstrate SURFCAM “V5” at SOUTH-TEC

2 October 2009

[Surfware, Inc.](#) will be demonstrating their up and coming release of SURFCAM “V5” along with their patented TrueMill Milling Technology at [SOUTH-TEC](#), “The South’s Largest Machine Tool and Manufacturing Event.”

Some of the major enhancements and improvements in SURFCAM “V5” are improved TrueMill functionality, Lathe and Mill/Turn Enhancements, Additional 5-Axis functionality and Multiple Tool Rest-Roughing, just to name a few.

Surfware will be represented by one of their top dealers, CAMcad Technologies based in Winter Springs, Florida. CAMcad Technologies also provides custom applications based on SURFCAM’s platform to boost end user productivity. At the convention, there will be interactive demonstrations and technical staff to answer your questions. The show will be held at the Charlotte Convention Center in Charlotte, NC on Oct 6-8, 2009 in Booth 7070.

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Synopsys Recognizes Technical Excellence at SNUG Boston Conference

5 October 2009

Synopsys, Inc. announced the Best Paper Awards for the eleventh annual Synopsys Users' Group (SNUG®) conference in Boston, Mass., held from September 21-22. SNUG conference attendees and the SNUG Technical Committee awarded first place to Garrett Marshall, Jalpa Shah and Scott Stanslaski of Medtronic for "XA Verification in Implantable Medical Design." Second place was awarded to Clifford Cummings of Sunburst Design, Inc. and Heath Chambers of HMC Design Verification, Inc. for "SystemVerilog's Virtual World -- An Introduction to Virtual Classes, Virtual Methods and Virtual Interface Instances." Third place was awarded to Douglas Burns, Barry Katz, Walter Katz, Mike Steinberger and Todd Westerhoff of SiSoft for "Multi-Gigabit Serial Link Analysis Using HSPICE and AMI Models." Among the other various awards presented, the Technical Committee Award went to Pete Nixon, Paul Rotker, Matt Cohen, Keith Morse and Bandish Shah of Sun Microsystems for "RTL Structural Analysis Using Design Compiler."

SNUG Boston is part of the largest user conference program in electronic design automation (EDA). Last year, the program attracted more than 6,000 integrated circuit (IC) and system design engineers to open forums in India, Taiwan, Singapore, San Jose, Germany, Israel and Japan. More than 350 technical users attended this year's Boston event.

Aart de Geus, chairman and chief executive officer at Synopsys, opened the conference with a keynote sharing his perspective on some important semiconductor trends. He also spoke about a number of Synopsys' exciting technology developments, including StarRC™ Custom, a new parasitic extraction solution, IC Compiler's new "In-Design" Rail Analysis and the Lynx Design System, a comprehensive design creation system that allows design teams to streamline their processes.

SNUG Boston sponsors included: Platinum Sponsors ARM, TSMC and Common Platform (Chartered Semiconductor Manufacturing, IBM and Samsung); and Gold Sponsors Hewlett-Packard and Virage Logic. The two-day SNUG Boston conference featured a technical program with 48 presentations that focused on all areas of design including synthesis, verification, low power design, physical design/sign off, analog/mixed-signal design, custom design, test and rapid prototyping tools. This year's program featured 23 user papers, 23 Synopsys technical tutorials, one workshop and one vision session. These presentations focused on the challenges that engineers face as they design complex systems for a wide array of applications.

Please visit the Synopsys Users Group website at <http://www.snug-universal.org/> for more information on upcoming events and how to submit a paper for consideration by the SNUG technical committee. Customers can also access proceedings and the award-winning papers at this link.

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Financial News

Dassault Systemes Schedules Third Quarter Results Webcast and Conference Call for October 29, 2009

6 October 2009

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Dassault Systèmes (DS) will host a webcast and a conference call on Thursday, October 29, 2009, to discuss its operating performance for the third quarter ended September 30, 2009.

The management of Dassault Systèmes will host the webcast at 8:30 AM London Time - 9:30 AM Paris Time and will then also host the conference call at 10:00 AM New York Time - 2:00 PM London Time - 3:00 PM Paris Time.

Both the webcast and the conference call will be available via the Internet by accessing Dassault Systèmes' website at <http://www.3ds.com/company/finance/>.

Follow the directions on the main page to link to the audio.

Please go to the website at least fifteen minutes prior to the webcast or conference call to register, to download and install any necessary software. The webcast and conference call will be archived for 30 days.

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Eyelit Inc. Achieves Record Revenue, Growth, and Profit in the Third Quarter of 2009

6 October 2009

Eyelit Inc., a manufacturing software provider for visibility, control, and coordination of manufacturing operations for the aerospace and defense, discrete electronics, semiconductor, and solar industries, announced its record revenues for the third quarter of 2009, the second consecutive quarter of revenue growth over 2008.

Highlights for the third quarter of 2009 include:

- **Increased revenue and company growth:** Eyelit posted record revenues for the third quarter of 2009, doubling the number of new customer wins over the same period in 2008. Eyelit added its first customer in the quarter, a 300-mm fab from the semiconductor industry. Eyelit also added another photovoltaic (PV) customer in the quarter, bringing the year-to-date total to four new customers from the solar industry. Three of Eyelit's solar customers currently have projects underway to add 500 megawatts of production capacity. Eyelit continues to invest in Asian expansion, having tripled the number of Eyelit personnel in its office located in Shanghai, China. Eyelit's install base contributed by adding new plants and kicking off two projects for SAP integration services during the quarter.
- **PROMIS MES to Eyelit Manufacturing and Quality Management Suite:** Eyelit started and completed another successful migration from PROMIS MES to Eyelit Manufacturing and Quality Management Suite in the quarter. The migration was completed in eight weeks and involved two physical wafer-fab manufacturing sites, which contained five legacy plant models within a single PROMIS MES instance. Both the legacy MES and Asset Management applications were migrated, combining them into a single solution along with SPC from Eyelit. The existing SAP integration was also moved over during this short period of time.
- **Future growth and looking forward:** Eyelit is well positioned for continued future growth with new opportunities in Asia and in the industries of aerospace and defense, MEMS, and solar. Eyelit also sees opportunities within the semiconductor industry, as many semiconductor factories, which are running legacy MES systems, face imminent hardware and software obsolescence. Eyelit presents an opportunity for such customers to upgrade software to a newer generation MES as well as lowering the cost of ownership. Eyelit continues to expand its global footprint and add new global partners, in a quarter that

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promises to yield quick and positive results in tandem with a global economic recovery.

“We continue to be cautious; we wanted to see two quarters of growth before talking about growth again. We’re very happy with the results of the last two quarters in which we’ve already exceeded our total of new MES customer wins from 2008 by 20%. The first quarter of 2009 is the only quarter where we saw a drop in revenue in the last 14 quarters when compared with the same period from the previous year. Our partnership with Systema GmbH has already paid dividends, and we are expanding and deepening our cooperation and collaboration with them,” said Dan Estrada, Vice-President of Sales and Business Development.

About Eyelit Inc.

[Eyelit Inc.](#) is the leader in Manufacturing Execution and Business Process Management (MES and BPM) solutions for visibility, control, and coordination of manufacturing operations for the aerospace and defense, electronics, semiconductor, and solar industries. Eyelit delivers a broad set of manufacturing solutions, including Asset Management (Semi E10), Factory Integration (Automation), Manufacturing Execution (MES), Supply Chain Execution, Quality Management (CAPA/OCAP/SPC/APC), and Business Process Management, which enables their customers to cost-effectively optimize production and company processes.

More than 40 leading companies, including A123Systems, Analog Devices, austriamicrosystems, CaliSolar, Deutsche Solar, FLIR Systems, Freescale Semiconductor, Innovalight, Nemotek, Tower Semiconductor, Umicore, and VTI Technologies, rely on Eyelit as a software partner.

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Infosys Technologies Announces Results for the Quarter Ended September 30, 2009

9 October 2009

Q2 Revenues Sequentially Grew by 2.9%

Highlights

Consolidated results for the quarter ended September 30, 2009

Revenues were \$ 1,154 million for the quarter ended September 30, 2009;

YoY decline was 5.1%

- Net income after tax was \$ 317 million for the quarter ended September 30, 2009; YoY decline was 0.9%

- Earnings per American Depositary Share (ADS) was 0.56 for the quarter ended September 30, 2009; YoY growth of 0.0%

"In the second quarter, the business climate has improved," said S. Gopalakrishnan, CEO and Managing Director. "Clients are now looking to invest in a few strategic initiatives and relationships to maximize value from opportunities when the economic downturn ends."

Business outlook

The company's outlook (consolidated) for the quarter ending December 31, 2009 and for the fiscal year ending March 31, 2010, under International Financial Reporting Standards (IFRS), is as follows:

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Outlook under IFRS*

Quarter ending December 31, 2009

- Consolidated revenues are expected to be in the range of \$1,155 million and \$ 1,165 million; YoY decline of 1.4% to 0.5%
- Consolidated earnings per American Depositary Share are expected to be \$0.50; YoY decline of 13.8%

Fiscal year ending March 31, 2010

- Consolidated revenues are expected to be in the range of \$4.60 billion and \$ 4.62 billion; YoY decline of 1.3% to 1.0%
- Consolidated earnings per American Depositary Share are expected to be in the range of \$ 2.09 and \$ 2.10; YoY decline of 7.1% to 6.7%

* Exchange rates considered for quarters ending December 31, 2009 and March 31, 2010 for major global currencies: AUD / USD - 0.87; GBP / USD - 1.60; Euro / USD - 1.46

Expansion of services and significant projects

Our strategy through the downturn has been to build our strengths rather than limit ourselves to navigating the challenges. Following this route, we are confident of emerging stronger when the economic environment improves and better poised to deliver enhanced value to all our stakeholders. We are sharpening focus on Research & Development, Intellectual Property-based solutions, and 'New Engagement Models' (NEMs) that offer flexible pricing and greater operational control and efficiency to clients. In addition, true to the spirit of our Global Delivery Model, we are continuing to invest and expand in regions such as India, Brazil, Mexico, and China. We have a sales group dedicated to large outsourcing deals that has helped us secure significant projects this year. We believe our expertise in large-scale transition management will differentiate us in the near future.

Clients have been impressed by our engineering services. An industrial products and services company is testing our 'Enterprise Collaboration Platform' to transform its intranet from an information repository into a next-generation content hub that engages employees better. A leading mobile service provider selected us as its strategic partner to run its 'Bid Management Process'. The deal involves setting up our patent-pending 'Infosys Sales Effectiveness Center' that will own the bid process, pricing, and contract services. For an apparel manufacturer, we are implementing our 'Product Master Syndication Solution' that will support the entire product lifecycle and provide a single source of data. A power major sought our 'Plant Design and Management System Solution' that enables collaboration across distributed teams. A large manufacturer selected us as its prime systems integration partner to implement and support our Product Lifecycle Management solution based on Siemens TeamCenter product.

We continue to focus on large transformational engagements, especially through our consulting and enterprise solution offerings. A broadcasting company partnered with us to develop new digital media services. A service provider for retailers engaged us to develop an Order Management System. A large bank selected us to conduct end-to-end testing as well as user-acceptance testing for the implementation of Finacle™, our core banking solution and integration with other applications. A large bank chose us

CIMdata PLM Industry Summary

for end-to-end systems integration in the transformation program of its corporate banking e-channel system. A provider of high-performance networking systems partnered with us for a transformational program to scale up its core engineering processes.

"The global currency markets continue to be extremely volatile, even though we have seen some stability in the rupee against the US dollar this quarter," said V. Balakrishnan, Chief Financial Officer. "We continue to focus on high quality growth with superior margins. Our balance sheet has been further strengthened with cash and cash equivalents reaching US\$ 2.8 billion."

For more information, visit <http://www.infosys.com>.

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PTC to Announce Fiscal Q4 Results on Tuesday, October 27th and Host Conference Call on Wednesday, October 28th at 8:30 am ET

7 October 2009

PTC announced that it will release its fiscal 2009 fourth quarter results on Tuesday, October 27th after the stock market closes. Senior management will host a live webcast and conference call to review the results on Wednesday, October 28th at 8:30 am Eastern Time. The earnings press release and accompanying prepared remarks document and financial and operating statistics will be accessible prior to the conference call and webcast on the investor relations section Company's web site at <http://www.ptc.com>.

What: PTC Fiscal Q4 Conference Call and Webcast

When: Wednesday, October 28, 2009 at 8:30 a.m. Eastern Time

Dial-in: 1-888-566-8560 or 1-517-623-4768

Call Leader: Richard Harrison

Passcode: PTC

Webcast: <http://www.ptc.com/for/investors.htm>

Replay: The audio replay of this event will be archived for public replay until 4:00 pm (CT) on Nov. 2, 2009 at 1-866-463-2193 or 1-203-369-1378. To access the replay via webcast, please visit <http://www.ptc.com/for/investors.htm>.

Please note that statements on the conference call are as of the date of the call and PTC does not assume any obligation to update any statements made live or the archived call. In addition, matters discussed may include forward-looking statements about PTC's anticipated financial results and growth, as well as about the development of products and markets, which are based on current plans and assumptions. Actual results in future periods may differ materially from current expectations due to a number of risks and uncertainties, including those described from time to time in reports filed by PTC with the U.S. Securities and Exchange Commission, including PTC's most recent reports on Form 10-Q and Form 10-K.

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Implementation Investments

Ambitech Adds AVEVA Laser Model Interface to its Project Suite

5 October 2009

[AVEVA Group plc](#) announced that Ambitech has added AVEVA Laser Model Interface to its project execution portfolio. AVEVA Laser Model Interface combines the power of AVEVA PDMS and AVEVA Outfitting design environments with advanced third-party laser modeling systems to bring massive benefits to plant engineering and operation companies.

Ambitech is a diversified, single-source provider of engineering, design, procurement, and project and construction management services. They are also a long-time PDMS user and project execution technology pioneer. Designed into the very heart of AVEVA's PDMS and Outfitting applications, Laser Model Interface will allow Ambitech to fuse state-of-the-art, data-centric 3D design with high-definition scanning of the real world.

"We expect to see immediate benefits through the integration of point cloud data into the AVEVA PDMS 3D modeling environment, thereby eliminating wasteful and error-prone intermediate remodelling," said Anthony Fumarolo of Ambitech.

The AVEVA Laser Model Interface can help reduce the number of steps for utilizing as-built data in conjunction with PDMS. Its benefits include:

Reduced risk: hazardous locations can be surveyed safely and quickly and site risks are minimized. Commercial risk is lessened and the most demanding brownfield projects and marine conversions can be tackled with maximum confidence in the as-built model.

Improved project speed: site survey times can typically be halved. Integration with PDMS eliminates intermediate remodeling, allowing overall design time to be reduced by up to 10 percent.

Enhanced quality: accurate, high definition surveying allows "right first time" design and less rework.

Decreased cost and downtime: accurate design means less onsite fabrication, lower installation cost and less down time.

"While computing technology has transformed the design and engineering of new plant and equipment, retrofits and upgrades of existing plants have remained a challenge due to the lack of availability of as-built plant data" said Derek Middlemas, Group Operations Director, AVEVA. "Through embracing modern approaches to capturing as-built data and integrating with design and asset management solutions, AVEVA as-built data tools such as AVEVA Laser Model Interface allow for significant increases in productivity over existing workflows. Companies such as Ambitech can see the benefits of using these modern workflows to tackle traditional problems".

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Ars Electronica Center Chooses Dassault Systemes 3DVIA to Develop State-of-the-Art Virtual Reality Applications

5 October 2009

Dassault Systèmes (DS) announced that its 3DVIA Virtools 3D application development platform is being utilized by the [Ars Electronica](#) Center in Linz, Austria, to allow visitors to make a virtual journey

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through time and space. Treasured masterpieces or world cultural heritage sites can now be seen without posing a threat to their conservation. Thanks to 3DVIA technology, visitors learn in a new, intuitive way as they directly interact with the 3D scenarios of the proposed experiences.

The Ars Electronica Center is considered a prototype of the “museum of the future” for digital media and culture and new technologies. When it opened in 1996, the center was the first of its kind to house an immersive virtual reality room tailored to the public. When the City of Linz was declared “Cultural Capital of Europe 2009” major renovation work preceded the re-opening of the New Ars Electronica Center. Today, visitors can enjoy an even more exciting hands-on experience of immersion and interactivity. “3DVIA Virtools emerged as the only 3D application development platform capable of meeting this challenge. The center’s modernization program was behind schedule, which left very little time to create new 3D content and ready the new virtual reality space, called “Deep Space”, based on learning through fun and play. Because 3DVIA Virtools is technologically very mature, it was remarkably easy to use, fast and reliable, allowing us to finalize the first immersive experiences for the new facility on time for the opening of the Ars Electronica Center,” said Horst Hörtnner, Director of Ars Electronica Futurelab, the Ars Electronica Development Department.

Immersive Virtuality

Deep Space allows complete immersion in a world of virtual reality by means of two jumbo-format 16-9-meter 3D images projected on a wall and on the floor. Wearing special glasses, visitors move around within the exhibit and the 3D image and can even interact with the content. Learning takes on a whole new dimension in this educational space. The possibilities are vast, with featured projects ranging from extreme-resolution images to HD video, interactive narratives and new artistic works.

Visitors can explore the world’s foremost historical, architectural and archeological treasures some long lost, others still standing today, to discover hidden details, such as the ruins of Pompeii, the ceiling of the Sistine Chapel or the dizzying heights of Beauvais Cathedral, all this without posing a threat to their conservation or the environment. “The breathtaking capabilities of 3DVIA Virtools can be seen in the narrative interactivity application, where visitors are immersed in an interactive visual and musical experience with animated 3D characters. Behind the scenes, arts mediators gather visitors’ reactions and preferences using remote control devices and interactive screens to change the scenario in real time,” explained David Nahon, director immersive virtuality technologies, Dassault Systèmes. “From an educational standpoint, the greater the immersion, the deeper and more lasting the learning experience. Interactivity also makes the learning process more effective.” Nahon continues: “This experience can be compared to the one hundreds of visitors of the Paris Géode live every day, discovering the virtual model of the Kufu Pyramid, realized with Dassault Systèmes technologies.”

For more information about 3DVIA, go to: <http://www.3dvia.com> and <http://www.3dvia.com/software>.

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Dassault Systèmes Sponsors Richard Petty Motorsports No. 44 Car in NASCAR’s Pepsi 500

8 October 2009

Dassault Systèmes (DS) announced that the No. 44 Dodge, driven by A.J. Allmendinger in the Pepsi 500 NASCAR race on October 11, 2009, will bear sponsor Dassault Systèmes’ logo.

The sponsorship is a continuation of the strong partnership between Richard Petty Motorsports and Dassault Systèmes. The company currently uses PLM solutions from Dassault Systèmes to help bring

new designs and features to their racecars.

Using CATIA, DELMIA, ENOVIA and SIMULIA from Dassault Systèmes, Richard Petty Motorsports can quickly respond to NASCAR rule changes, leverage simulation and analysis to maximize performance, program production robots and cut cycle times by as much as 50%.

“What fuels our success is time-to-market and doing it for the best cost we can so we can create more iterations and bring on more products. Dassault Systèmes PLM is an irreplaceable part of that success,” said Tommy Wheeler, director of engineering services, Richard Petty Motorsports. “What it comes down to is this: the one who makes the best choices and does it in the least amount of time wins.”

The Pepsi 500 will be broadcast live from Fontana, California on ABC, October 11, 2009 at 3:15pm ET. For more information about Dassault Systèmes solutions, please visit <http://www.3ds.com>.

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Delcam's PowerMILL Keeps Lead Times Low and Quality High

5 October 2009

With Delcam's PowerMILL CAM system, Hitech Shapes and Designs is keeping its turnaround times low and its service quality high, helping assure success in a very competitive market. The company, a division of Seilkop Industries based in Cincinnati, Ohio, has been building foundry tooling since 1946. During that time, it has evolved from hand-crafted wood and metal patterns to its current CNC capabilities.

With its Delcam software, plus the excellent support from local reseller Design and Software, Hitech Shapes can offer its clients many ways to take time and cost out of foundry production. The company can ship machined prototype moulds within three or four weeks of receiving the customer's CAD file. A big part of that quicker turnaround is due to PowerMILL.

“Once the file is imported into PowerMILL, it is easy to program the machining in layers to suit the lengths of our cutters,” operator Les Wright said. “Programming in layers allows us to work more efficiently, avoiding cutting air. This saves all kinds of time, which is important to our success.”

“Another of the biggest benefits to me is that PowerMILL provides a tool for cleaning the corners out, going from larger to smaller cutters,” added Mr. Wright. “Our previous software would machine the whole part with the smaller cutter, even though all we really needed to do was work in the corners. PowerMILL automatically keeps the cutter just in the areas where material remains and this prevents a lot of wasted time.” This corner-finishing function alone saves Hitech in the neighbourhood of 25% in programming time and about the same in finish machining time compared to its previous software.

“I had been running CNC machine tools for twenty-plus years as a patternmaker before I moved into programming. The Delcam software was fairly easy to learn, even after being used to another brand,” Mr. Wright said. “With only five half-day classes, I was up and going with it.”

“Another reason why we like PowerMILL is that it is much more efficient for programming high-speed toolpaths,” Mr. Wright continued. The key advantage is that it does not produce any sharp turns but generates arcs into, and out of, the job. This is easier on both the machine and the tooling when moving at high speeds and feeds.”

Once a prototype casting is delivered and evaluated by the customer, its design can be changed and returned to the company. The Delcam software makes it easy for Mr. Wright to overlay the 3D model

from the customer and see any changes in the new casting file he gets back. He can select the areas of a pattern that need to be changed, and modify the PowerMILL file so the machine will concentrate only on those areas. This also saves a lot of time in reprogramming and remachining.

The overall result is that the whole pattern-making cycle is much shorter so Hitech can turn around a pattern about one third faster. For example, a pattern that used to take twelve hours to program and machine now takes less than eight hours.

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Glass Packaging Manufacturer Anadolu Cam cuts Design Time by 50% with Dassault Systèmes' CATIA

8 October 2009

Dassault Systèmes ([DS](#)) announced that Anadolu Cam Sanayii A.Ş. (Istanbul, Turkey) part of the Sisecam Group and a designer and manufacturer of glass packaging, relies exclusively upon CATIA software to design all its glass packaging, perform stress analyses and clash simulation, as well as implement revisions in record time.

Since it began using Dassault Systèmes CATIA, Anadolu Cam has halved its design process time and offers a wider variety of design alternatives to its customers. As a result, the company can take on more projects and its overall business has significantly increased. "Before, it was a long process to develop products with complex surfaces or engravings but CATIA has reduced this time by 50%" said Ozgun Hodul, Mold Design Engineer, Sisecam Anadolu Cam. "We can now design the most difficult shapes, allowing us to create innovative, stylish, and original glass packaging. With CATIA, no bottle is impossible."

"We are pleased Anadolu Cam is relying on CATIA's cutting-edge virtual design solutions to introduce creative, high quality packaging designs that go above and beyond customers requirements and other standard design tools, allowing Anadolu Cam to keep a leading edge in the highly competitive glass packaging sector" said Eli Boichis, regional sales manager Greece, Israel, Turkey, Dassault Systèmes. "Anadolu Cam is a prime example of the region's industrial leadership and vitality that we are glad to support. It corresponds well to DS's ambitions in the Turkish market following the opening of our office earlier this year."

The entire design is rapidly and automatically updated when designers make a slight change to a figure, dimension, or parameter, ensuring consistency from design to production. Anadolu creatives start by designing the mold of glass packages and various accessories. The resulting models are used by the manufacturer to create the molds, which are then sent to production plants to manufacture the bottles. Mold manufacturers can now directly use the initial 3D data to process the mold. This has not only shortened the overall manufacturing process, but also prevented possible errors, since 2D drawings can sometimes be misinterpreted.

Working in 3D has also facilitated Anadolu Cam's design iteration process when working with its customers. With 3D, they can easily visualize and the product and design changes can be implemented in real-time. Customers can see a virtual representation of the finished product before it is even manufactured.

In the near future, the company plans to use templates and methodologies to further accelerate the design process. In line with its strategy to continuously improve the lifecycle management of its

CIMdata PLM Industry Summary

products, Anadolu Cam is investigating the possibility of using 3DVIA Composer and ENOVIA SmarTeam to create its documentation and manage all product data.

About Anadolu Cam

Anadolu Cam is the glass packaging division of Turkey's Şişecam Group. In addition to packaging, Sisecam Group also produces flat glass for building windows and cars, and glass tableware such as plates and drinking glasses. The company is also present in the mining, chemical, paper packaging, mold and machinery manufacturing industries. One of Europe's leading glass packaging suppliers, Anadolu Cam exports to the Balkans and the Middle East and has nine production facilities in countries such as Turkey, Georgia and Russia.

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Global Aerospace & Defense Company Selects IFS Applications

5 October 2009

[IFS](#) announced an agreement with a global defense, security and aerospace company. The contract, valued at over \$2 million, is for IFS Applications licenses, consulting services, and maintenance and support.

IFS Applications' Financials, Distribution, Manufacturing, Maintenance, Engineering, and HR components will be used for a new program which will support various defense projects within the United States.

Aerospace & Defense is a targeted industry vertical for IFS. IFS Applications' strength in enterprise asset management (EAM), maintenance repair and overhaul (MRO) and defense manufacturing is complemented by its fully integrated project tracking and product data management (PDM) capabilities.

IFS customers within the Aerospace and Defense industry include the US, British and Norwegian defense organizations as well as the Eurofighter consortium. Commercial MRO shops and operators include Finnair, Bristow Helicopters, Aero-Dienst GmbH, Hawker Pacific, and Jet Turbine Services. In addition, IFS provides solutions to original equipment manufacturers (OEMs) such as Lockheed Martin General Dynamics, BAE Systems, Saab, and GE Transportation.

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High-Performance Motorcycle Manufacturer Picks Autodesk Inventor

7 October 2009

[Autodesk, Inc.](#) has announced that Wild West Motor Company, a manufacturer of some of the most exotic high-performance motorcycles in the world, is replacing SolidWorks in favor of [Autodesk Inventor](#) software.

With the Autodesk solution for [Digital Prototyping](#), Wild West engineers can now design, visualize and simulate a complete product with a single digital model created in Inventor software. Inventor will enable Wild West to streamline its design and engineering process to accelerate product development for its high-end motorcycles and gain competitive advantage. Inventor is the only design and engineering software that takes manufacturers beyond 3D modeling to Digital Prototyping.

"We are moving away from SolidWorks because we can accomplish more as a company with the suite

CIMdata PLM Industry Summary

of Digital Prototyping tools that Autodesk has to offer," said Jim Winn, senior partner at Wild West. "We will use Inventor to embark on a new era of innovation here at Wild West."

Wild West has long used [Autodesk Alias](#) and [Autodesk Showcase](#) products as critical components of its design processes. Alias software enables the company to drive design and bring style into signature motorcycle models such as the Dragoon, Vigilante and Gunfire. With Autodesk Showcase, the company is able to create accurate, highly realistic images of its motorcycles to better evaluate multiple design variations and communicate ideas to key stakeholders.

"Wild West is on a mission to revolutionize motorcycle design, and we are pleased to go along for the ride," said Robert "Buzz" Kross, senior vice president, Manufacturing Industry Group at Autodesk. "By adding Inventor software to its product design and engineering processes, Wild West will be able to fully utilize Digital Prototyping to design and build more innovative products in less time."

Inventor software's interoperability with Alias and Showcase means that Wild West has an unbroken digital pipeline for all stages of the design process. Wild West is currently at work on a new high-end motorcycle model, every element of which--from the assembly to the molding--will be accomplished using Autodesk software.

About Wild West Motor Company

Wild West Motor Company began building motorcycles in 1995. Over the past decade, the company has built some of the most exotic motorcycles in the world, helping to usher in a new era of motorcycle design. For additional information about Wild West Motor Company, visit www.wildwestmc.com.

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IFS Applications is Selected by Brookfield Renewable Power

5 October 2009

[IFS](#) announced that [Brookfield Renewable Power](#), a Canadian generator of clean, low cost and renewable energy, will implement IFS Applications to streamline its business processes among its multiple legal entities in Canada, the United States and Brazil. Brookfield Renewable Power will be implementing IFS Financials, Distribution, Maintenance, Project Management, Document Management and HR.

"Our current enterprise solution was too restrictive to support our current needs and plans for future growth," Brookfield Renewable Power CIO Kevin Hall said. "We needed to look for a new solution, one that was more focused on Enterprise Asset Management (EAM) and had a strong financial suite. IFS offered the best integrated enterprise solution we could find, with best of breed maintenance solutions."

"IFS got its start in the utilities industry, and has always been committed to providing the best enterprise software solution for power generation, transmission and distribution companies," IFS North America President Cindy Jaudon said. "We realize that these utilities need to maximize return on investment in their capital assets. That is why we strive to help them not only ensure maximum uptime, but provide real-time asset information that lets them make the best decisions for rate payers and other stakeholders."

IFS targets the energy and utilities industry and has more than 140 customers involved in power generation, transmission and distribution as well as water and sewage. These include the world's largest hydropower plant, Three Gorges (P. R. China), nuclear power plants OKG (Sweden), PBMR (South

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Africa) and Qinshan (P. R. China), grid operators such as Svenska Kraftnät (Sweden), Statnett (Norway) and TenneT (The Netherlands) as well as distributors such as Vattenfall (Sweden) and Hafslund (Norway). Reliable and safe asset management and workforce management are critical processes in the energy and utility industry, to which IFS has provided solutions for more than 20 years.

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Leading Hydraulics Research Group Extends 3D Visualization, Deploys PDF3D

5 October 2009

[Visual Technology Services](#) announces that HR Wallingford, one of the world's leading research consultancies in civil engineering hydraulics and water management, has adopted PDF3D software to extend 3D visualization and technical report collaboration capabilities across its 250+ employees. HR Wallingford is currently deploying the PDF3D based tools throughout its organization, and expects to harness PDF to more reliably and securely share 3D hydraulics and marine environment designs via the widely available free Adobe Reader® software.

The HR Wallingford agreement involves the creation of interactive PDF reports from 2D and 3D hydrodynamic modeling, GIS and ship navigation simulation systems. The use of 3D PDF interactive reports are applied to real-world applications such as LiDAR, marine, coastal, estuary, flood risk and river flow modeling.

The conversion of scientific data into PDF format from hydrodynamic models is done using PDF3DSDK software produced by Visual Technology Services, which has been working to make 3D technical publishing a mainstream technology and a way to communicate complex data, according to founder Ian Curington. "We see the use of PDF3D at HR Wallingford to be a very significant milestone and are very proud to have been able to assist and guide the deployment" Curington said.

Working closely with the Informatics, Hydrodynamics and Metocean, Flood and Coasts and Estuaries groups, the PDF3D deployment, involved detailed analysis and enhancing the work-flow of scientific data management, graphics and reporting with advanced scientific data visualisation and production tools. It will be the first time a major Hydraulics Research Facility has used 3D PDF on a full scale.

The 3D PDF format has been used before, however primarily in manufacturing.

About HR Wallingford

HR Wallingford provides analysis, advice and support in engineering and environmental hydraulics, and in the management of water and the water environment. With a sixty year track record of achievement in applied research and consultancy, HR Wallingford has a mix of know-how, assets and facilities including state of the art physical modeling laboratories, a full range of computational modeling tool and, above all, expert staff.

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SolidWorks Helps Design that Matters Create Low-Cost, Low Maintenance Infant Incubator for Third World

5 October 2009

The next step after designing a product is usually manufacturing it – unless you're [Design that Matters](#)

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(DtM). The non-profit social development organization has designed a low-cost infant incubator not for production, but to prove it's possible to create affordable, low-maintenance [incubators for Third World countries](#).

DtM used [SolidWorks® CAD software](#) as the design platform to assemble a national team of 50 professional engineers and engineering students from MIT, the Rhode Island School of Design, Stanford University, and Arizona State University. DtM challenged the team to design an incubator from automotive components, because they are available even in the poorest regions of the world.

“The idea behind the incubator project was to demonstrate to manufacturers and donors that it is possible to build an incubator for less than \$1,000, compared to the \$30,000 that a typical commercial unit costs,” said Design that Matters CEO Tim Prestero. “Access to incubators sharply reduces infant mortality, but regions that need incubators the most are also the least able to buy and maintain them. Keeping a baby warm isn't that complicated, so why aren't incubators available in part of India and Sub-Saharan Africa? We studied the circumstances, and decided it was a combination of acquisition cost, maintenance cost, and availability of maintenance skills. Cars and trucks are everywhere, so we decided to take advantage of that supply chain and local car repair resources to make a better incubator for those regions.”

DtM's biggest challenges were adapting automotive parts to a new purpose and fitting all of the components into a form factor small enough to transport to remote locations. The engineers and students modified parts and designed assemblies in SolidWorks. Then they distributed the 3D models over e-mail to each other and DtM.

Prestero said SolidWorks was a logical choice for a standard design platform because it's widely used in professional and educational settings, and it's easy to learn and use. Design that Matters reconciled the team's contributions into a final design, then demonstrated it to potential users. SolidWorks enabled DtM to show the incubator design to potential users all over the world without the expense of transporting a physical prototype.

“3D models work better than pictures for demonstrating,” Prestero said. “They enabled the reviewers to give us helpful, and in at least one case unexpected feedback on aesthetics. The reviewers strongly preferred an incubator that looked like a machine, so the first design, which looked like a piece of Swedish furniture, put them off.”

In addition to the incubator, Design that Matters has developed other products around medical, economic, and social needs in the developing world. They include an intravenous drip controller, ATM cards for Third World micro credit projects, and the [Kinkajou® Microfilm Projector and Portable Library](#) for combating illiteracy.

“The incubator project is an example of product design reaching past economics to address persistent social problems, in this case Third World infant mortality,” said Christine Washburn, vice president of marketing at Dassault Systèmes SolidWorks Corp. “It shows the value of rethinking our basic assumptions about how products are designed, and we're glad to have a role in the process.”

About Design that Matters (DtM)

Design that Matters, a 501c3 nonprofit based in Cambridge, Massachusetts, creates new products that allow social enterprises in developing countries to offer improved services and scale more quickly. DtM has built a collaborative design process through which hundreds of volunteers in academia and industry donate their skills and expertise to the creation of breakthrough products for communities in need. Our

goal is to deliver a better quality of service, and a better quality of life, to one million beneficiaries through products designed for our clients by 2012.

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Synopsys DesignWare USB 2.0 and Ethernet IP Enables First-Pass Silicon Success for STMicroelectronics

7 October 2009

Synopsys, Inc. announced that STMicroelectronics (ST) has achieved first-pass silicon success for its STM32 Connectivity Line of system-on-chips (SoCs) utilizing the Synopsys DesignWare® USB 2.0 On-The-Go (OTG) and Ethernet digital controllers. ST, a global leader in developing and delivering SoC and semiconductor solutions, evaluated several IP vendors and selected Synopsys DesignWare IP solutions because they are high-quality, include the right feature set, and have been silicon-proven in a wide range of applications. ST also benefitted from having convenient access to a knowledgeable, local technical support team. By using Synopsys DesignWare IP, ST was able to focus their engineering expertise on their product differentiation and meet their time-to-market schedule.

The STM32 Connectivity Line, targeting networked, real-time and audio applications, required a USB 2.0 OTG interface, to allow end products to act as both a USB host and device, and an Ethernet interface that supports the newly released IEEE 1588-2008 Precision Time Protocol. After evaluating several IP providers on features, technical support, scalability and maturity of the IP, ST determined that Synopsys DesignWare IP was the clear leader in all areas. Synopsys delivered USB and Ethernet IP solutions that were highly configurable, enabling ST to easily integrate the cores within weeks. In addition, the DesignWare Ethernet IP was the only IP solution at the time to support the IEEE 1588-2008 specification.

"Synopsys is well trusted in the design community and provided us with high-quality DesignWare USB and Ethernet IP solutions that enabled us to meet our aggressive project schedule and achieve first-pass silicon success," said Ludovic Ruat, digital IP design manager, Microcontrollers Division, STMicroelectronics. "Our established relationship with Synopsys enables us to have access to a very strong roadmap that we can rely on for future product developments."

"As a leader in connectivity IP, Synopsys focuses on providing top companies such as ST with high-quality IP solutions that not only include the right features but are also backed by an expert technical support team to help ensure their success," said John Koeter, vice president of marketing for the Solutions Group at Synopsys. "It is important for Synopsys to provide IP that works right the first time so that our customers can lower risk and deliver innovative products to the market faster."

About STM32™

The STM32 family of 32-bit Flash Microcontrollers is based on the ARM Cortex™-M3 Processor, which is specifically developed for embedded applications. The STM32 family offers a complete 32-bit product range that combines high-performance, real-time, low-power and low-voltage operation, while maintaining ease of integration. Compatibility of pin assignments, peripherals and software across all STM32 devices is a key technical feature throughout this family of microcontrollers. The STM32 Connectivity Line features USB OTG, CAN2.0B and Ethernet interfaces. With the successful launch of the STM32 Connectivity Line, ST now offers 75 MCUs across all STM32 families, enabling more customers to benefit from the 32-bit ARM Cortex-M3 processor and complete pin-to-pin and software compatibility.

About DesignWare IP

Synopsys' broad IP portfolio delivers complete connectivity IP solutions consisting of controllers, PHY and verification IP for widely used protocols such as USB, PCI Express, DDR, SATA, HDMI and Ethernet. The analog IP family includes Analog-to-Digital Converters, Digital-to-Analog Converters, Audio Codecs, Video Analog Front Ends, Touch Screen Controllers and more. In addition, Synopsys offers SystemC transaction-level models to build virtual platforms for rapid, pre-silicon development of software. For more information on DesignWare IP, visit: <http://www.synopsys.com/designware>

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Synopsys' Sentaurus TCAD Used to Simulate Solar Cell Performance Characteristics at NREL

6 October 2009

[Synopsys, Inc.](#) announced that the U.S. Department of Energy's National Renewable Energy Laboratory (NREL), a leading government laboratory pursuing research in photovoltaic devices, has adopted Synopsys' Sentaurus TCAD for simulating solar cell characteristics to improve performance.

Photovoltaic technologies play a significant role in the worldwide push for the development and deployment of renewable sources of energy to reduce carbon emissions. NREL is at the forefront of these developments through its research in wind and solar energy. Its many accomplishments include the development and demonstration of an inverted metamorphic triple-junction solar cell with world-record efficiency of 40.8 percent. NREL also has research programs in thin-film and third-generation solar cells. Sentaurus TCAD simulations provide NREL scientists with valuable insight into the physical mechanisms that drive solar cell performance, thereby supporting the development of more efficient solar cell designs. The simulations include the definition of the solar radiation incident on the cell, its reflection and transmission through anti-reflective coatings and surface texturing, and the absorption of the light and conversion to electrical current within semiconductor regions of the cell.

"Solar cells are very complex, with many material layers and design trade-offs affecting major performance metrics such as efficiency," said Dean Levi, a principal scientist at NREL. "We view simulation as an important tool to understand the internal physics of our designs and to point towards ways to improve them."

NREL has recently implemented Sentaurus TCAD to create polycrystalline thin-film CuInGaSe₂, Cadmium telluride (CdTe), and silicon solar cell models. These models have illustrated how material properties, grain boundaries, non-uniformity and interdigitated designs affect both device performance and characterization.

"The photovoltaic industry is experiencing tremendous growth and continues to drive toward higher efficiency and innovative solar cell designs," said Howard Ko, general manager and senior vice president of the Silicon Engineering Group at Synopsys. "Our Sentaurus TCAD tools offer many capabilities to simulate solar cell operation and performance characteristics to guide design improvements. Having NREL as a user of our tools enables us to better understand the challenges and new directions of the fast-changing photovoltaic field."

About Synopsys TCAD

Technology CAD (TCAD) refers to the use of computer simulation to model semiconductor processing and device operation. TCAD provides insight into the fundamental physical phenomena that ultimately impact performance and yield.

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VISTAGY'S FiberSIM® Software Reduces Time “From Art to Part” by Over 70% on the SpaceX Dragon Spacecraft

6 October 2009

VISTAGY, Inc. announced that Space Exploration Technologies Corporation ([SpaceX](#)), a premier developer of launch vehicles and spacecraft for government and commercial use, has purchased VISTAGY's [FiberSIM®](#) software to reduce the design time and enhance the efficiency of the composites development process for the Dragon spacecraft. NASA has selected the Dragon spacecraft in conjunction with the Falcon 9 launch vehicle to provide reliable and efficient transport of cargo and potentially crew to the International Space Station (ISS) and other low Earth orbit (LEO) destinations. SpaceX is targeting late 2009 for the inaugural launch of Falcon 9.

FiberSIM is being used to develop production fiber placement diagrams and laser projection files. It will be used to assist with actual fiber placement for the spacecraft's thermal protection system, including the heat shield, exterior panels and insulating layers on the rocket and spacecraft, and several panels around the engines. The software is used from the outset on all new composites projects and has enabled SpaceX to reduce the design-to-manufacturing time on composite parts—such as the 5 meter fairing boattail panel—from seven to two days.

“Time is always of the essence so FiberSIM's proven ability to take us from art to part so rapidly was a critical consideration in our decision to purchase the software,” said Chris Thompson, vice president of structures engineering for SpaceX. “But it is about more than just speed.

“FiberSIM improves product quality by providing accurate engineering information to the manufacturing floor, which also helps the repeatability of the manufacturing process. This assures that parts fit when they come off the tool. It also provides a great tie-in with our laser projection system.”

“We're pleased to partner with SpaceX to apply FiberSIM to cutting-edge composite design and manufacturing techniques for space travel,” said John O'Connor, VISTAGY's director of product and market strategy for space. “Working together we can help SpaceX achieve its objectives of reducing the cost and enhancing the reliability of space access by improving the efficiency and productivity of the overall composites development process.”

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Product News

Agilent Technologies' SystemVue 2009.08 Unlocks RF-DSP Co-design, Custom Flow for “Model-Based Design”

5 October 2009

Agilent Technologies Inc. announced that [SystemVue](#) version 2009.08 is now available for download. It features a number of new capabilities including an automated link that unlocks RF-DSP co-design and a fully custom, high-performance baseband signal processing design flow. Coupled with new IP reference libraries for [DVB-S2](#), [mmWave WPAN](#) (IEEE 802.15.3c) and [3GPP LTE](#), the SystemVue 2009.08 release accelerates design of high-performance physical layer (PHY) signal processing in both aerospace/defense and commercial wireless applications.

Automating RF Modeling for DSP Developers

A key feature of SystemVue 2009.08 is a new simulation interface -- the RLink -- which more effectively models RF transceivers and air interface for baseband designers. Available in SystemVue's optional [W1719 RF System Design Kit](#), the RLink bridges the gap between baseband signal processing and proven RF tools. Traditional DSP approaches either add "RF" block sets to limited dataflow simulators or use a brute-force analog co-simulation method that is orders of magnitude slower than DSP tools. In contrast, Agilent's automated RLink conveniently embeds RF architectures into a baseband DSP environment, for a unified top-down team approach to system design. Using it, baseband designers can now re-use an RF system architect's own IP to see the impact of additional RF effects (e.g., internal impedance mismatch, nonlinearities and reverse propagation) within their native DSP environment, verify the robustness of their algorithms, and reduce overall design margins.

"SystemVue's new RLink feature improves the accuracy and convenience of modeling the RF portion of signal processing chains, without burdening DSP architects with clunky analog tools or requiring specialized RF expertise," said Frank Ditore, product manager of Agilent's SystemVue. "By allowing the RF, system and baseband design teams to share a common environment for concurrent design, the link enables superior top-down RF-baseband partitioning and reduces overall design margins."

Enabling High-Performance Custom Model-Based Design

Another critical feature of SystemVue 2009.08 is its ability to enable a complete, end-to-end (system level to hardware) model-based design flow. This flow is made possible by allowing user-defined modeling of high-performance PHYs at multiple levels of abstraction, including C++ and math language algorithms, bit-true fixed-point models and cycle-accurate VHDL generation.

Together with easy scripting and instrument links for verification, SystemVue 2009.08 is now capable of importing and encapsulating a company's high-performance signal-processing IP flow, and verifying models at each level of abstraction -- either at the communications system level or a lower hardware level. This integration makes SystemVue a cost-effective, open, vendor-neutral platform for demanding custom applications, such as radar, software-defined radio and homeland security.

New Reference IP for Emerging Wireless PHYs

Other new features found in Agilent's SystemVue 2009.08 release are algorithmic references for emerging physical layer standards. These references allow system architects and baseband designers to verify signal processing algorithms and hardware implementation long before test equipment or commercial PHYs are available and include:

- the W1915 mmWave WPAN baseband verification library, in support of IEEE 802.15.3c;
- the W1914 DVB-S2 baseband verification library for satellite-based digital video broadcast systems, in support of the SatComm community's needs;
- formal simulator support for 3GPP LTE closed-loop "throughput" measurements using HARQ, based on LTE version 8.6 (March 2009); and
- application support for GPS, Galileo, ZigBee and other formats.

About SystemVue 2009

SystemVue 2009 is Agilent's new electronic design automation (EDA) platform for electronic system-level (ESL) design. The new platform cuts physical layer (PHY) design time in half for high-performance communications algorithms and system architectures, for both wireless and

aerospace/defense applications.

U.S. Pricing and Availability

Agilent's SystemVue 2009.08 is now available for download at <http://www.agilent.com/find/eesof-systemvue>. Pricing for the SystemVue environment starts at approximately \$15,000. A free 30-day evaluation is available at <http://www.agilent.com/find/eesof-systemvue-evaluation>.

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Altair Announces Outstanding Adoption Of Its HyperWorks Enabled Community After First Year Of Operation

8 October 2009

[Altair](#) announces a very successful first year of operating its HyperWorks Enabled Community (HWEC). To date, more than 200 companies worldwide have joined the HWEC (<http://www.hyperworkscommunity.com>), and gained access to partner applications at no incremental cost using their existing HyperWorks software licenses.

"When Altair introduced HyperWorks Units in 1999 it provided Multimatic with access to a number of additional Altair products, which significantly improved the efficiency of our engineering development process," says Alex Duquette, Analysis Manager for Multimatic Technical Centre. "The extension of this concept, known as the HyperWorks Enabled Community, provides additional simulation capabilities including fatigue, CFD and occupant safety at no additional cost. Multimatic took advantage of this program as soon as it became available, and it has resulted in better utilization of Multimatic's investment in HyperWorks Units and allows us to offer a broader and more complete range of analysis services."

Dr. Michael Wahl, Vice President of Engineering for Achates Power, adds, "With Altair's HyperWorks Enabled Community, we are able to take advantage in a cost-effective way of a broad range of analysis tools that we may only use as few as 6-8 times a year. Additionally, because all licenses pull from a common pool we have the flexibility to instantaneously change our usage to meet our own internal demands. The Altair's HyperWorks Enabled Community has been invaluable in helping us meet our CAE software needs."

HyperWorks Enabled Community members can optimize their total software investment by leveraging their HyperWorks license to gain on-demand access to a growing portfolio of best-in-class third-party solutions. The HWEC model provides flexibility and ease of deployment making new technology available without the traditional cost and burdens associated with acquiring new software. Additionally, customers receive application support directly from the partner's technical experts, ensuring the successful deployment of these new technologies.

"The HWEC allows our customers to develop better products faster and at lower costs," says James Scapa, Altair Chairman and CEO. "The early success of the HWEC is evidence that customers are seeking more equitable software delivery models and will embrace programs which improve their business performance."

HyperWorks is a platform of 28 applications developed by Altair augmented with 25 partner applications through the HWEC. Its patented licensing technology allows users to transparently share access to this broad suite of applications across their global network infrastructure.

CIMdata PLM Industry Summary

"The HyperWorks Enabled Community gives us a lot of flexibility because it lets us use the best software for each particular job we encounter," says Juergen Veith, Managing Director of Tecosim GmbH. "In addition, we are also able to try new products at no extra cost, saving the company money."

Prof. Dr.-Ing. habil. Siegfried Bludszweit, CEO of MET Motoren, explains, "The HyperWorks Enabled partner program gave us the ability to utilize state of the art fatigue analysis software through existing HyperWorks Licenses. Now we are able to offer our customers more in depth analysis in a shorter period of time."

Altair has significantly expanded the partner software available to customers through the HWEC. Initially launched one year ago with six partners providing 15 applications, today the Community includes eleven partners providing 25 applications.

"nCode, as the first partner to make its software available to Altair customers through the HWEC, worked very closely with the Altair team to develop the integration of DesignLife," said Steve Tudberry, Vice President of nCode Software Brand of HBM. "We just completed our first full year in the program and overall the experience has exceeded our expectations for revenue growth, new customers and demand for our entire product range. While every new partnership require focus and determination, I am delighted with the overall success of the program and look forward to the future."

Partner Applications currently available through the HyperWorks Enabled Community include; AcuSolve and AcuConsole from ACUSIM, CFD++, CAA++ and MIME from Metacomp, DesignLife from nCode, DSHplus from FLUIDON, FEKO Suite from EMSS, FEMFAT from Magna, MADYMO suite from TASS, SC/Tetra suite from Software Cradle, Sculptor from Optimal Solution Software, solidThinking and inspired from solidThinking and VMAP from TechPassion.

For more industry feedback on this program, please click:

http://www.hyperworkscommunity.com/pdfs/hwec_customer_quotes_2009_2.pdf

About the HyperWorks Enabled Community Program

HyperWorks uses a subscription-based software licensing model, where software licenses float across the enterprise, and customers can use floating licenses to access a broad suite of Altair developed and third party software applications. Customers benefit from flexibility and access, resulting in maximum software utilization, productivity and ROI. For more information about the HyperWorks Enabled Partner Program, visit <http://www.hyperworkscommunity.com>.

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ArchiCAD 13 Norwegian Version Released

9 October 2009

GRAPHISOFT announced that the next local version of ArchiCAD® 13, the Norwegian version is released.

The Norwegian version is the 12th in the release schedule after the already released International, German, US, Australian, New Zealand, French, Italian, Austrian, Hungarian, Finnish and Russian versions of ArchiCAD 13. For more information, please visit <http://www.graphisoft.no/ac13nyhet.aspx>. Other localized versions will be released during the fall.

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Autodesk and Trimble Create AutoCAD Civil 3D Data Exchange Tool to Help Break Down Barrier Between Engineering and Construction

6 October 2009

Trimble and Autodesk, Inc. announced that they have collaborated to develop a fully automated data exchange tool enabling information from an AutoCAD Civil 3D model to be directly imported into the Trimble Business Center-HCE (Heavy Construction Edition) data management software.

The new, free*, Web-downloadable software extension, called the AutoCAD Civil 3D Importer for Trimble Business Center-HCE, provides the ability to import DWG files that contain AutoCAD Civil 3D native design objects into the Trimble Business Center-HCE software. The AutoCAD Civil 3D model information is then used by the Trimble Business Center-HCE to prepare, manage and distribute data for use with Trimble's range of site positioning and grade control products for earthmoving, grading and finishing operations. Using the extension, contractors can realize a number of benefits, including:

- **Reduced data preparation time and costs:** Minimizing the need to recreate design information helps reduce data preparation time and supports the faster delivery of updated design information to the field as a result of design changes, which is especially beneficial on highways projects where design revisions occur frequently.
- **Rich, first-hand information to the field:** The ability to retain the intelligence of the Civil 3D source model incorporating corridor model sections, alignments, station equations, profiles, feature lines, finished grade and subgrade surface information and advanced point objects provides more detailed information and higher precision; the construction-ready 3D models can be more quickly leveraged by Trimble machine control and site positioning systems.
- **Full DWG compatibility:** Improved DWG file format support (including Real DWG) allows for extraction of both native CAD data and Civil 3D model data (which would previously have been lost) delivering enhanced compatibility with the Autodesk DWG file standards.
- **More simplified workflow:** Now instead of using intermediary and often less comprehensive file formats such as LandXML or basic CAD files for exchange of information between the engineer and contractor, the engineer can simply save the project and deliver the native design file without needing to think about saving the file out to an alternative format, which is immediately detached from the source design.

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"Our new utility is a bridge that makes rich Civil 3D model information available to contractors who are going to grade the site," said Jim Lynch, vice president of marketing, Autodesk Architecture, Engineering and Construction Solutions. "With this new software extension, which transfers the Civil 3D model data into the Trimble Business Center data management software, we are bringing the benefits of a model-centric approach all the way to the job site. Before grading starts, contractors want to verify that the model they are sending into the field is appropriate for construction. That's where this new utility contributes; helping to reduce errors, save time and increase accuracy."

"Streamlining and optimizing the flow of data and information between the engineering design and the construction communities is a key motivation we share with Autodesk," said Roz Buick, general manager, Heavy and Highway Division, Trimble. "Our new collaboration creates a powerful data exchange extension that allows the information contained in Civil 3D models to flow more easily and efficiently out to the machine control and site positioning systems. Now contractors can take Civil 3D information and create models designed to optimize the use of Trimble site positioning and machine control solutions."

AutoCAD Civil 3D software, the building information modeling (BIM) solution for civil engineering, helps project teams create, predict and deliver transportation, land development and environmental projects more efficiently. AutoCAD Civil 3D helps civil engineers explore more what-if scenarios and optimize project performance with visualization and analysis tools such as geospatial and stormwater analysis, quantity takeoff and interactive 3D simulations.

Trimble Business Center-HCE software supports construction data preparation and intelligently manages the provision of data to and from construction field crews. The software puts emphasis on efficient data management for multiple field crews and machines operating on a site over the lifetime of the project. Using Trimble Business Center-HCE, contractors can import, review and analyze digital design information or field generated data and easily assign, manage and track that information through the lifetime of a construction project.

To download the free* AutoCAD Civil 3D Importer for Trimble Business Center-HCE import software extension visit: <http://www.autodesk.com/civil3d-trimble> or <http://www.trimble.com/tbc-hce>. For more information on the Trimble Business Center-HCE data management software visit: <http://www.trimble.com/tbc-hce.shtml>. For more information on Autodesk Civil 3D visit: <http://www.autodesk.com/civil3d>.

*Free products are subject to the terms and conditions of the end-user license agreement that accompanies download of the software.

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Cadence Enables Early Validation of Next-Gen 4G/LTE Wireless Designs with Rohde & Schwarz T&M Solution

5 October 2009

Cadence Design Systems, Inc. announced that it has developed a protocol testing solution that enables early validation of next-generation 4G/LTE wireless SoC/ASIC designs. The solution integrates the [Cadence® Incisive® Palladium®](#) accelerator/emulator and the Rohde & Schwarz CMW500 LTE network emulator, allowing wireless/mobile companies to test their complex designs much earlier than when silicon becomes available, thereby providing them with an opportunity to leapfrog over competitors.

CIMdata PLM Industry Summary

“Validating 4G/LTE protocol months ahead of having silicon in hand can have a real impact in what has become a most competitive market,” said Joerg Deiss, director of business development of Rohde & Schwarz (R&S). “With this solution and our R&S CMW500, customers are now able to use the same tests and equipment from ASIC design to final RF system validation.”

Traditionally, wireless protocol testing required the final silicon to be available before thorough protocol testing could begin. The Cadence-R&S solution enables engineers to test and validate next-generation 4G/LTE designs much earlier in the design cycle while allowing continued refinements to improve the design and performance. Users can validate design assumptions of SoC performance and power by using the actual protocol and system-level stimuli, boosting confidence that a design will comply with the advanced protocol.

“This collaboration highlights our ability and desire to serve the verification needs of a fast-moving market segment like wireless and mobile,” said Ran Avinun, system design and verification marketing group director, Cadence Design Systems, Inc. “Teaming with leading companies like Rohde & Schwarz enables Cadence to meet the design and verification needs of engineers working on the most advanced projects.”

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Cadence Extends Its TLM-Driven Design and Verification Solution to Support Leading Embedded Software Environments

6 October 2009

Cadence Design Systems, Inc. announced the integration of its transaction-level model (TLM)-driven design and verification solution with industry-standard embedded software environments. The [Cadence® Incisive® Enterprise Simulator](#) (IES) and Incisive Software Extensions (ISX) TLM verification solutions now support Open Verification Methodology (OVM)-based TLM hardware/software co-verification, unified TLM and C/C++ hardware/software co-debugging, plus embedded software symbolic debug support for C/C++ compilers from ARM, GNU, Green Hills Software and ARC (now part of Virage Logic). The extensions allow software developers to verify and debug their software earlier in the project and reduce time to market for the combined software and hardware product.

"Software certification and validation are becoming more important to embedded customers," said Mark Onions, director of marketing of the System Design Division at ARM. "By adding integrated support for the ARM RealView Compilation tools, the Cadence solution now allows customers to achieve better validation and time to market"

The Incisive TLM debugging capabilities provide an embedded software-oriented look-and-feel and automated probing of TLM transactions. ISX offers embedded software thread tracing that supports leading embedded software compilers, along with multiple abstraction levels from RTL to TLM. In addition, ISX automatically creates OVM test bench templates from embedded software sources to simplify hardware/software co-verification.

“As systems carry greater software functionality and are split across multiple processing platforms, the co-verification and co-debug of hardware and software is increasingly critical,” said Dr. Yankin Tanurhan, vice president and general manager at Virage Logic. “By bringing together hardware and software verification tools and methodologies, Cadence is providing our mutual customers with additional capabilities to further accelerate their SoC development efforts.”

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“The embedded software development community is increasingly focused on improving quality,” said Christopher Smith, vice president of marketing at Green Hills Software, Inc. “The integration with Cadence Incisive Software Extensions provides our embedded software development customers a unique approach to software quality not available elsewhere.”

“Embedded software and verification have been highlighted by our customers and industry analysts as the key cost components of new IPs and future SoC designs,” said Ran Avinun, system design and verification marketing group director at Cadence Design Systems, Inc. “Recognizing these trends, we continue to execute on our system development strategy, adding automated co-debug and co-verification capabilities integrated with popular embedded software environments to our existing solutions.”

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Cadence Introduces Incisive Enterprise Verifier, Delivering Dual Power of Formal Analysis and Simulation Engines

5 October 2009

Cadence Design Systems, Inc. today at **CDNLive!** Silicon Valley introduced [Cadence Incisive Enterprise Verifier](#) (IEV), an integrated verification solution delivering unique new capabilities with the dual power of formal analysis and simulation engines. IEV can help design and verification engineers find deep corner-case bugs and hit elusive coverage points missed by stand-alone formal or simulation. IEV increases productivity through faster bring-up of designs and faster bug detection, boosts predictability by generating more metrics to assist with verification closure, and improves quality by finding more bugs in the design.

The integration of simulation and formal capabilities within IEV allows engineers to leverage assertions in new ways. The same assertions used in formal analysis can be used automatically by the simulation engine to generate new stimulus for the design. Further, IEV can automatically switch back and forth between the formal and simulation engines to leverage both the rapid design exploration of simulation and the verification thoroughness of formal analysis. Design and verification engineers get a higher return from assertions, and adoption is easier because IEV provides powerful formal analysis in a familiar simulation environment. ([Click for video](#) of IEV product announcement.)

“We use both formal analysis and testbench simulation based on a multi-language approach in our standard verification flow,” said Mirella Negro Marcigaglia, MMS Microcontroller Division verification manager, at STMicroelectronics. “Incisive Enterprise Verifier combines these technologies to accelerate tasks that we used to perform much later in the development process, thereby reducing our project verification time.”

IEV enables the detection of more bugs and the exercise of more coverage metrics early in the project, before a testbench is available. IEV’s tight integration of simulation and formal provides capabilities far beyond existing “hybrid” offerings in the market. Unique features include easier setup, automatic operation for most users, fine-grained control for expert users, and assertion debug capabilities. IEV also includes support for verification planning, regression operation on server farms, multi-core performance improvements, and consolidation of metrics gathered from regression runs. IEV links seamlessly to Incisive Enterprise Manager for metric-driven verification across large projects.

“The challenge of performing thorough, efficient verification on today’s designs is growing right along with the size and complexity of the designs themselves,” said Tom Anderson, product marketing director for Enterprise Verification at Cadence. “Incisive Enterprise Verifier should be of interest to any

company seeking to boost its verification program. This new product expands the scope of assertion-based verification, finding more bugs and driving more quickly toward verification closure.”

Incisive Enterprise Verifier will be discussed Thursday in a customer presentation at the **CDNLive!** Silicon Valley conference. Details and registration information is available at www.cdnlive.com.

Availability

Incisive Enterprise Verifier (IEV) is available immediately.

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COADE Announces Updated Links between COADE PV Elite for Pressure Vessel and Exchanger Analysis and Dimensional Solutions Foundation3D

5 October 2009

COADE, Inc. and Dimensional Solutions, Inc. announced at the 2009 COADE User Conference tighter collaboration between Foundation3D from Dimensional Solutions and COADE PV Elite. During the conference, Dimensional Solutions also introduced improved model creation in its products Foundation 3D and Mat3D, enabling more accurate and complete underground mat foundation models that can subsequently be brought into the AutoCAD environment to allow COADE CADWorx Plant Design Suite users to design optimal underground designs specifically with regards to clash detection between foundations and underground systems.

Both Foundation3D and Mat3D require a minimum of effort to create spread, combined and/or mat/pile cap analysis and design of soil or pile supported foundations. Foundation 3D is ideally suited for the design of foundation supports for equipment such as vessels, towers and exchangers designed using COADE PV Elite. It interfaces with PV Elite to obtain accurate weights for operating, empty, test conditions, shear forces and moments from both wind and seismic loads, equipment geometry and anchor bolt information so that a civil/structural engineer can focus on completing foundation design quickly and accurately.

Mat3D is a comprehensive tool that creates soil or pile supported multi-load point mat foundation designs. It produces accurate output in a matter of minutes, thereby delivering significant productivity gains in completing mat foundation designs. Because of this accuracy and speed, these foundations are available much more quickly in the design process, directly benefitting plant, piping, electrical and utility designers who are producing underground systems, such as would be the case with users of the COADE Plant Design Suite.

“We have been working closely with Dimensional Solutions for many years,” said Scott Mayeux, COADE’s Director Software Development, Pressure Vessel & Exchanger Solutions, “and we have always been impressed with their dedication to delivering a quality product with measurable value to users of COADE’s products.”

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COMSOL Extends Partnership with PTC

9 October 2009

COMSOL, Inc. announced that it has moved from a Silver Partner to a Gold Partner within PTC’s

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PartnerAdvantage™ Program. The upgrade to the Gold tier, which provides access to a comprehensive suite of capabilities, followed an extensive review of the COMSOL Multiphysics® integration with PTC Pro/ENGINEER® Wildfire 4.0.

The move from the Silver to the Gold tier followed the release of the LiveLink™ for Pro/ENGINEER®, a seamless connection between the two environments. By establishing an associative connection between the two applications, a change of a feature in the CAD model automatically updates the geometry in COMSOL Multiphysics, while retaining physics settings. This enables the user to optimize their designs using automatic parametric sweeps. Andy Barlow, PTC's Senior Director of Business Development, stated, "We are pleased that COMSOL has chosen to extend its partnership with PTC. We are looking forward to working closely together to enhance the value COMSOL Multiphysics brings to Pro/ENGINEER users."

About the COMSOL product line

COMSOL Multiphysics is a scientific-software environment for the modeling and simulation of any physics-based system. A particular strength is its ability to account for multiphysics phenomena. Optional modules add discipline-specific tools for chemical engineering, earth science, electromagnetics, heat transfer, MEMS, and structural mechanics. Another key product is COMSOL Reaction Engineering Lab®, which allows users to model reacting systems. The COMSOL products are available for the Windows, Linux, Solaris, and the Macintosh operating systems. Full details about COMSOL Multiphysics and related products are available at <http://www.comsol.com>.

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CR-5000 Board Designer 12 Steps-up Electronic Product Design Quality

8 October 2009

Zuken has announced the launch of version 12 of the PCB layout, placement and routing solution [CR-5000 Board Designer](#), which has been developed with the core objective of increasing electronic product design quality through enhanced editing functionality, collaboration, and verification within Zuken's enterprise-wide environment CR-5000 and selected third party solutions.

Quality through Enhanced Editing Functionality

The latest chipsets with larger memories require designers to comply with an increasing set of design guidelines. For correct functional operation it is essential for signal skew to be able to match net lengths based on the defined constraints. With this in mind, as part of Zuken's strategy to improve integration and deliver advanced functionality reuse across the CR-5000 environment, capabilities from its specialist high speed design and verification environment have been made available in Board Designer for the first stage of design and verification, including Embedded Intelligent Object functionality and various other utilities to facilitate with trunking and lengthening. By enabling more sophisticated routing to be completed earlier in the design cycle, design quality is greatly increased. Another advanced feature now incorporated specifically for designing with high pin count BGAs, is the support for vias in "Rules by Area"; plus enhanced wire length control with the ability to generate arc corners, used more and more to improve signal integrity.

Further functions have been added that aid in the process of editing designs, including extended list output for hole drawing with the addition of tolerances, comments and the ability to support customized

list strings. It is also possible to edit prohibited layers and version 12.0 also enables the input of dimension lines to conform to the American Society of Mechanical Engineers standard, plus other generic editing function improvements such as the displaying of spread areas with tone patterns. Forward annotation has also been enhanced for board generation making spacing rules easier to manage. This has been achieved by enabling users to import groups of spacing rules.

Quality through Collaboration

For efficient data exchange with mechanical CAD, the IDF/DXF interfaces now support default parameters and the IDF interface has added a feature for specifying input controls for component placement information, enabling MCAD to define board shapes and component positions automatically, early within the design process; minimizing errors and improving design quality.

Quality through Verification

There have been verification improvements for panel based design, with the introduction of layer consistency checks eliminating design errors, and verification and checking results can now be output into Excel format to allow easy checking and investigation.

For increased precision in generating package data, the Ansoft interface now supports profile numbers in analysis when reviewing 3D shapes of bond wires, improving accuracy for package data. In addition, the cross probing functionality has been strengthened to aid efficiency and reduce design time.

CR-5000 Board Designer is available from this Autumn. For more information about CR-5000 Board Designer visit www.zuken.com/boarddesigner

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ITI TranscenData Releases CADfix 8.0

2 October 2009

[ITI TranscenData](#) announced the release of CADfix 8.0, the latest edition of its CAD interoperability tool which tackles the ever present problems of 3D model data exchange and re-use between different engineering applications. CADfix allows the user to import CAD data, efficiently repair and adapt it, and export in the most suitable form for reuse in the downstream system, eliminating the need for expensive CAD model rework.

The release of CADfix 8.0 sees many new developments and consolidates the incremental service pack functionality that has been released over the last year. Some of the many enhancements include:

- Shrink Wrap STL Generator

Creates watertight representations of parts or assemblies with the ability to suppress gaps and surface details smaller than user controlled size. Designed with multi-core support for maximum performance.

- Imprinting tools

Tools for detecting and imprinting the contact regions between touching solids, including advanced handling of cyclic symmetry

- Native 64-Bit Version for Windows & Linux

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Enables the import, processing and export of massive models previously beyond the 32bit limits

- Automatic sliver face and sharp angle fixing

Detects and eliminates these geometry conditions that often cause meshing problems in CAE applications

Additional enhancements include:

- Advanced STL Processing Tools, including quality checks and decimation
- Ability to handle very large CAD models and assemblies without entity limit
- Ability to Import & Merge models into an open (live) session
- New tool to find and rejoin fragmented NURBS surfaces (CATIA V4 to V5 migration issue)
- Enhanced Feature Deletion – allows processing of higher complexity features

"As engineers and designers continue to increase the complexity of their CAD models and assemblies, the need for efficient repair, simplification and export is becoming increasingly more important. With our latest enhancements and new features, CADfix 8.0 rises to the challenge facing today's engineers and provides them with effective, innovative and invaluable tools to enable them to complete their tasks within their ever shortening time constraints", said Mark Gammon, CADfix Product Manager. "Many of these latest features have been developed through our close working relationship with our customers. This approach allows us to listen closely to the real problems and ensures that our efforts deliver the functionality they need."

The new product release is available immediately worldwide and current CADfix customers can easily upgrade to version 8.0

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Service Pack 2 Released for Kinnosa 4.1

7 October 2009

[First Trace Inc.](#) has released Service Pack 2 (SP2) for Kinnosa 4.1, the firm's principal Engineering Document Management solution. The SP2 release includes support for both 32-bit and 64-bit versions of Windows 7 as well as support for AutoCAD 2010 and AutoVue. The SP2 release also includes a host of bug fixes, software upgrades and new system enhancements.

The new Windows 7 operating system is generating a lot of buzz in the industry and is intended to make everyday tasks simpler, faster and give users more control of their PC. First Trace's release of SP2 for Kinnosa 4.1 includes support for both 32-bit and 64-bit versions of the Windows 7 operating system. This complements Kinnosa's existing support for Windows XP and Vista.

Support for AutoCAD 2010 continues Kinnosa's commitment to the widely popular 2D CAD tool. First Trace customers can use Kinnosa to manage files produced by AutoCAD versions 2007 – 2010. Oracle's AutoVue product delivers native document viewing, markup and real-time Web-based collaboration capabilities that are heavily utilized in Engineering Enterprises. The SP2 release for Kinnosa 4.1 allows greater flexibility for First Trace customers to utilize the viewer of their choice to streamline the engineering design, review and release processes.

In addition to a host of bug fixes, the SP2 release includes many valuable system enhancements for

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greater flexibility with the Engineering Document Management solution. Key enhancements include:

- Add-in integration and support for Microsoft PowerPoint

- Enhanced support for MySQL

- Batch printing capabilities

- Customized document revision label schemes

- Improved PDF creation services

- Advanced search performance and searching options

- Ability to design custom security models based on users, groups, document types, folders and more

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Siemens Integrates Virtual Planning With Physical Production to Maximize Manufacturing Productivity

5 October 2009

Siemens announced a new software solution that integrates manufacturing planning with the shop floor machining operations associated with producing parts. The new offering maximizes productivity by tightly linking [Teamcenter® software](#) from [Siemens PLM Software](#) with Motion Control Information System (MCIS) from Siemens Motion Control Systems, to ensure digital planning data is accurately and efficiently delivered to the precise point of manufacturing.

“In 2007 Siemens announced a unique software vision to unify the global manufacturing industry’s product and production lifecycles by leveraging the synergies between its newly acquired PLM (product lifecycle management) business and other business units in the Siemens Industry Automation Division,” said Peter Thorne, Managing Director, Cambashi Ltd. “Today’s announcement – the result of a collaborative effort between the PLM and Siemens Motion Control organizations – is part of that vision and should create significant value for their customers.”

Uniting manufacturing planning and production

Manufacturing companies need to ensure that there is an effective connection between manufacturing engineering and shop floor production in order to avoid common errors that lead to production delays, excessive scrap and redundant resources. If data is inaccurately transferred from one system to another or if the data is sent to the wrong location, it can have a significant impact on schedules, costs and product quality. This can be especially common in environments that produce many different products with small production runs and flexible machine tool assignments, or where modifications to the part design and its related machining program are common, creating multiple changes that need to be tracked, coordinated and delivered to the right place at the right time. Creating the wrong version of a part wastes expensive time and material, while the lack of complete information about the availability and location of specific tool assemblies forces an inefficient use of tooling resources.

Today’s announcement unites the manufacturing process management module of Teamcenter, with two MCIS solution components – Direct Numerical Control (DNC) and Tool Data Information (TDI). The new solution allows companies to manage the process of delivering the correct manufacturing data – such as NC part programs created by computer-aided manufacturing (CAM) software, or tool availability information – from a central information management and planning environment to the

proper physical manufacturing location on the shop floor.

“When Siemens acquired UGS Corp., one of the industry’s leading PLM software and services companies, we committed to producing solutions that would merge the virtual world of PLM software with the physical world of shop floor production,” said Chuck Grindstaff, executive vice president of Products and Chief Technology Officer, Siemens PLM Software. “By integrating Teamcenter and MCIS we are delivering on that vision with a solution that will help companies reduce production time and costs and improve product quality by ensuring close coordination between manufacturing planning and shop floor production.”

The Teamcenter to MCIS interface is available immediately from Siemens PLM Software.

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Siemens PLM Software Announces New Releases for its D-Cubed™ 2D Component Software Solutions

8 October 2009

[Siemens PLM Software](#) announced the immediate availability of new releases of two of its [D-Cubed™](#) component software products. Version 56.0 of 2D Dimensional Constraint Manager (2D DCM) and Profile Geometry Manager (PGM) contain new enhancements to improve function and performance.

Detailed descriptions of the enhancements are available online at:

www.plm.automation.siemens.com/en_us/products/open/d-cubed/latest_releases/

About PLM Components; Parasolid and D-Cubed

[PLM Components](#) are software tools that support and promote interoperability in CAD, CAM, CAE and PLM applications. Siemens PLM Software develops these components, uses them throughout its own applications and licenses them to independent software vendors and end-user organizations. PLM Components include the [Parasolid®](#) software and D-Cubed products, widely used technologies that provide 3D part and assembly modeling, editing and interoperability, 2D/3D parametric sketching, motion simulation, collision detection, clearance measurement and visualization functionality. Applications include mechanical CAD, CAM, CAE, mold design, sheet metal, AEC, GIS, structural, plant and ship design, CMM, reverse engineering and sales configuration. For more information, please visit www.siemens.com/plm/open.

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Siemens PLM Software Delivers NX 7.0 with “HD3D” and Enhancements to Synchronous Technology

7 October 2009

[Siemens PLM Software](#) announced the latest release of [NX™ software](#), the company’s flagship digital product development solution. With NX 7.0, Siemens PLM Software introduces HD3D, an open and intuitive visual environment to help global product development teams unlock the value of PLM information and significantly enhance their ability to make efficient and effective product decisions. In addition, NX 7.0 includes enhancements to synchronous technology – the computer-aided design, manufacturing and engineering analysis (CAD/CAM/CAE) productivity software introduced by Siemens PLM Software last year – that will further accelerate a variety of product development tasks

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and expand the unmatched ability of NX to effectively work with data from third party CAD applications.

The announcement of NX 7.0 was made today in Paris at the Siemens PLM Connection Europe annual users conference.

“Our introduction of synchronous technology and its implementation into NX earned high praise, not only from the vast majority of CAD/CAM/CAE pundits and industry analysts, but more importantly from the companies that deployed it to boost their design productivity,” said Joan Hirsch, vice president of Product Design Solutions, Siemens PLM Software. “Today’s launch of NX 7.0 builds on that productivity leadership with the addition of significant new synchronous technology functionality, and the exciting introduction of HD3D, an innovative environment that will accept data from a variety of sources to set a new standard for ‘High-Definition’ visual analytics in product development.”

The need for visual information

Globalization and an escalating regulatory environment, coupled with the increasing sophistication of virtually all manufactured products, has created a complex product development process for companies worldwide. Hundreds of decisions need to be made throughout product development based on information that exists in a variety of formats and locations, and usually created by software applications from multiple vendors. The speed and accuracy with which those decisions can be made has a profound effect on a company’s success.

A new visual analytics paradigm

The introduction of HD3D in NX 7.0 is part of Siemens PLM Software’s comprehensive approach to achieving this vision and establishing a new paradigm in visual analytics. HD3D is a visually-rich environment for working with virtually any type of PLM data. This environment will be common across NX and [Teamcenter® software](#), Siemens PLM Software’s digital lifecycle management portfolio, and its open architecture will also allow for integration with a variety of third-party applications.

HD3D expands the power of NX and Teamcenter to visually deliver the information companies need to understand, collaborate, and make decisions in today’s globally distributed and heterogeneous product development environments. HD3D provides a simple and intuitive way to collect, collate and present product information, where it can be immediately applied in critical decision-making. The implementation of HD3D in NX 7.0 will enable users to visually interrogate and evaluate a product design based on any type of data tracked in Teamcenter or NX, such as release status, weight thresholds, material type, delivery status, etc.

For example, an NX 7.0 user could run a report looking for parts that are currently in development and registered as on-schedule or late. The 3D NX model of the product will visually highlight all of the parts that are more than one week late and a cause for concern. Interactive tags are displayed on the screen and can be selected to navigate into more detailed information. With potentially thousands of parts in a given product, this visual feedback and interactive work environment eliminates the need to sort through written bills-of-materials and status reports to manually interpret where issues exist and what action to take.

In addition to this visual analytics capability based on PLM data, HD3D will be implemented within NX 7.0 Check-Mate, a standards-based checking application that ensures compliance with design criteria, consistency in CAD model file structure and adherence to a variety of corporate and industry standards. HD3D will enhance validation tools within Check-Mate with a new visual user interface for analyzing

and reporting issues. Similar to the above example, the new environment improves decision making during product validation by providing an intuitive, visual means of viewing Check-Mate results and evaluating issues.

Expanding synchronous technology leadership

NX 7.0 builds on its strong leadership position in modeling flexibility and productivity with further enhancements to synchronous technology aimed at greater efficiency, enhanced reuse of legacy data and expanded interoperability with multiple third party CAD systems.

Faster geometry creation and editing tools further accelerate a variety of tasks associated with creating and modifying designs. Design intent is applied and preserved at the time of change and reliable editing eliminates update failures and long replay times.

Powerful new synchronous pattern capability removes the need to understand the original creation approach when working with legacy CAD models and expanded capabilities for cut, copy, paste and mirror further improve productivity. This makes it easier to adapt new designs from older models and saves significant time and expense through improved reuse of design data.

New “clean-up” tools enable faster and easier editing of models imported from third-party CAD systems. Automatic and semi-automatic blend and chamfer recognition builds and maintains relationships for two of the most common manufacturing features, while automatic and manual healing options along with the ability to merge segmented geometry removes unwanted gaps and fixes mismatched geometry.

The synchronous technology enhancements in NX 7.0 impact all aspects of CAD/CAM/CAE. In addition to its obvious affect on productivity for product designers, the new functionality significantly benefits other members of the development team working with CAD data, including analysts and manufacturing engineers. These individuals primarily work with 3D models created by someone else and often times using a third-party CAD application.

Synchronous technology opens up a range of new opportunities for CAE and CAM users to directly leverage CAD geometry from any source. The easy to use interface in NX 7.0 enables these users to easily modify 3D models for their specific requirements, enabling them to add value by focusing on their respective areas of expertise. The combination of NX and synchronous technology establishes a new modeling paradigm throughout the product lifecycle.

“We replaced our previous 3D CAD system with NX because of its superior ability to enable easy and flexible manipulation of non-parametric geometry,” said Markus Pichler, Product Development Manager, BWT AG. “We believe the enhanced synchronous technology capabilities in NX 7.0, with its new geometry healing options, will further extend our ability to rapidly edit legacy and third-party CAD data, creating enormous time savings and further streamlining our supply chain.”

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Spatial adds JT Support to CAD Translation Product Line

6 October 2009

Spatial Corp. announces the addition of JT support to its [3D InterOp](#) product line. JT is a 3D data format used for product visualization, collaboration, and CAD data exchange. 3D InterOp provides high-quality [CAD translation](#) for product development applications that require accurate, precise and fully-bounded

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3D models. More than a data access tool, 3D InterOp provides data conversion into ACIS and Parasolid formats, and post-processing functions such as checking, healing and stitching to ensure model integrity for the receiving application.

"Spatial's high-quality [CAD translation](#) is due to our deep knowledge of CAD data formats and geometry kernels. Successful CAD translation requires both to perform contextual data conversion and model repair," commented Vivekan Iyengar, Spatial Product Manager. "Unlike data access tools whose purpose is for visualization, 3D InterOp provides data access, data conversion and post-processing to meet the needs of the most demanding engineering applications."

3D InterOp provides out-of-the-box 3D CAD translations, performing the complete job of data import, conversion, and repair in the industry's most popular CAD kernels. The resulting models are ready for use in engineering applications across the PLM spectrum. Development partners also benefit from Spatial maintaining compatibility with the latest CAD and industry standard versions and eliminating the partner's cost of on-going translator support and maintenance.

Spatial's JT support includes reading of Brep and assembly information. JT support expands Spatial's list of supported 3D formats – ACIS®, Parasolid®, IGES, STEP, VDA, CATIA V5 and V4, Pro/ENGINEER®, NX™, SolidWorks® and Inventor®.

JT support is available as an ACIS-based reader with Per Seat licensing terms. JT is also included standard in the 3D InterOp ACIS Suite. The suite option provides a cost effective way for application developers to provide a full suite of translators to their end-users.

For a full description of 3D InterOp, or to apply to obtain an evaluation license go to <http://www.spatial.com/products/evaluation>.



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WorkPLAN Enterprise Gets Expert Scheduling from Preactor Interface

8 October 2009

[Sescoi](#), author of the [WorkPLAN Enterprise ERP](#) system has announced that it will be working in [partnership with Preactor](#) in a number of international markets in Northern Europe, Asia and the Americas. The two systems have been fully interfaced to deliver the combined benefits of SESCOI's WorkPLAN Enterprise ERP system, designed for project based, custom manufacturers, with Preactor's advanced planning and scheduling (APS) software.

More than 2,500 companies around the world are using Preactor to schedule and plan their production processes. The scheduling package has been designed to interface with ERP systems, complementing rather than duplicating their capabilities. Preactor 400 APS models the shop floor and its resources in detail, and the scheduling process is initiated by order transactions received from the WorkPLAN Enterprise scheduler model. Operations can be linked and overlapped to reflect real shop floor activity, with Gantt chart displays showing the overall picture of demand, capacity, resource usage and completion time. This enables companies to optimize the use of their resources and forecast realistic and achievable delivery dates in the dynamic environment of the shop floor.

WorkPLAN Enterprise's bi-directional data exchange with Preactor enables the system to plan the delivery and execution of new projects, update management reports live, and provide snapshots of key performance indicators. Analysis of CAD data by WorkPLAN Enterprise and the use of historic information make it possible to produce highly accurate quotations, while other functions of the

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software control sales, inventory, purchasing, subcontracting, quality, time and attendance, after sales, and links to accounting packages. Visibility for projects is greatly increased, ensuring that profit margins and customer satisfaction are maximized while administrative effort is minimized.

By combining both systems, companies will be able to gain full control of their entire manufacturing processes, winning more profitable business, optimizing the efficiency and utilization of machinery and delivering high quality parts on time.

Bruno Marko, President and founder of SESCOI said, “Establishing a partnership with Preactor enables us to offer our international users advanced scheduling and planning capabilities inside WorkPLAN Enterprise. Efficient management of a business and its resources requires easily accessible and accurate information. Both Preactor and WorkPLAN Enterprise have been designed with ease of use in mind, enabling companies to implement the systems extremely quickly and achieve a return on investment measured in weeks.”

Mike Novels, Preactor CEO and founder commented on the partnership. “We are very similar companies with very similar global coverage and markets. My colleagues and I are proud to be working with Bruno and his team”.



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