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CIMdata News

CIMdata Brings PLM Certificate Program to Germany

25 July 2012

CIMdata, Inc., the leading global Product Lifecycle Management (PLM) consulting and research firm announces that it will bring its highly acclaimed PLM Certificate Program to Frankfurt, Germany from October 15-19, 2012. The [CIMdata PLM Certificate Program](#) is the flagship offering of *CIMdata PLM Leadership*, the PLM industry's most comprehensive non-biased education and training offering available for today's PLM professionals.

The CIMdata PLM Certificate Program prepares PLM professionals at several levels to successfully address the challenges inherent in PLM implementations. This assessment-based certificate program includes a personalized classroom experience, individual and team-based exercises, and individual evaluations of achievement. Additionally, the program provides intensive and extensive exposure to a team of CIMdata experts. Upon successful completion of the program, each participant receives a CIMdata PLM Certificate and becomes a member of CIMdata's global *PLM Leadership* community.

According to Gerard Litjens, CIMdata's Director of European operations, "We have designed our 2012 PLM Certificate Program schedule to address the needs of PLM professionals throughout Europe and North America, and are excited to bring the program to Frankfurt. The demand for well-educated PLM

CIMdata PLM Industry Summary

professionals continues to grow, across all industries and regions. We are convinced that our decision to make CIMdata's world-class PLM Certificate Program, available in Frankfurt, fulfills that need."

The CIMdata PLM Certificate Program is built on CIMdata's more than 28 years of extensive worldwide experience guiding industrial companies in successfully defining and implementing best-in-class PLM strategies and tactics. The program is available to industrial companies who are considering or are already implementing PLM, and to PLM solution providers. PLM Certificate Program participants may register online for either a 3-day or 5-day program. For more detailed information about the CIMdata PLM Certificate Program and how to register, visit CIMdata's website at http://www.cimdata.com/services/education/plm_certificate.html.

About CIMdata

CIMdata, a leading independent worldwide firm, provides strategic management consulting to maximize an enterprise's ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM) solutions. Since its founding in 1983, CIMdata has delivered world-class knowledge, expertise, and best-practice methods on PLM solutions. These solutions incorporate both business processes and a wide-ranging set of PLM-enabling technologies.

CIMdata works with both industrial organizations and suppliers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia-Pacific. To learn more about CIMdata's services, visit our website at www.CIMdata.com or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA. Tel: +1 (734) 668-9922. Fax: +1 (734) 668-1957; or at Oogststraat 20, 6004 CV Weert, The Netherlands. Tel: +31 (0) 495 533 666.

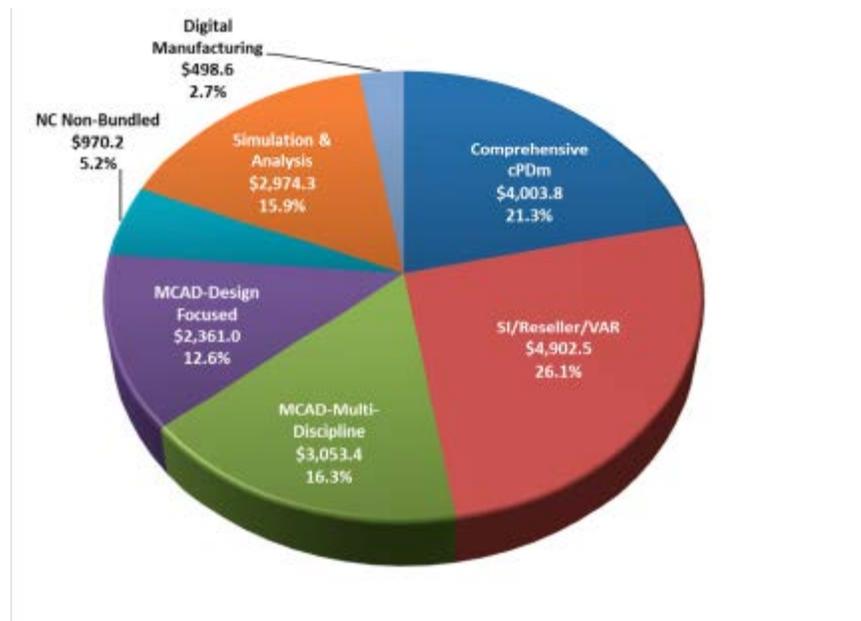
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CIMdata PLM Industry Summary

CIMdata Publishes Executive PLM Market Report

24 July 2012

CIMdata, Inc., the leading global PLM management consulting and research firm announces the release of the CIMdata 2012 PLM Executive PLM Market Report. This report provides an executive-level view of CIMdata's comprehensive analysis of the PLM market, with summary charts on the overall market and on specific PLM solution segments (including the chart below). It also includes perspectives on current trends in the PLM industry and how they may affect current suppliers and investments.



Mainstream PLM Market Sector Sizes in 2011 (US\$ Millions)

This is the second of five modules of the CIMdata PLM Market Analysis Report Series to be released. The MAR Series provides detailed information and in-depth analysis on the worldwide PLM market during 2011. It contains analyses of major trends and issues, leading PLM providers, revenue analyses for geographical regions, industry sectors, and historical and projected data on market growth. The CIMdata PLM Market Analysis Report Series is packaged as five modules:

1. The CIMdata 2012 Executive PLM Market Report provides an overview of CIMdata's complete global analysis. It includes key charts on PLM market investment statistics through 2011, forecasts of investments for 2012 through 2016, and a summary of PLM providers' performance in 2011.
2. The CIMdata 2012 PLM Industry Review and Trends Report is mainly qualitative in nature, and focuses on key issues facing the global PLM ecosystem of solution providers and end user organizations. It highlights changes that occurred in 2011, what effects those changes may have in the short and medium term, and what is on the horizon in the years to come.
3. The CIMdata 2012 PLM Market and Solution Supplier Provider Analysis Report details measures of and forecasts for the overall PLM market and key segments, including Tools, cPDM, and Digital Manufacturing. The Tools section has additional details on sub-segments, including MCAD, NC, S&A, EDA, and AEC. It also includes CIMdata's estimates of PLM solution supplier provider revenues in these segments and sub-segments for 2012 through 2016.

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4. The CIMdata 2012 PLM Market Geographic Analysis Report provides an additional view of the 2011 market results, by major geography. CIMdata's 2011 estimates and market forecasts for PLM and the major PLM market segments are provided for the Americas, EMEA, and Asia-Pacific. In addition, the report includes estimates and forecasts for the cPDM segment within specific European and Asia-Pacific countries and regions.
5. The CIMdata 2012 PLM Market Industry Analysis Report provides an industry segmentation view of the 2011 market results. CIMdata's 2011 estimates and market forecasts for Mainstream PLM and cPDM are provided for eight different industry sectors: aerospace and defense; automotive and other transportation; electronics/telecommunications; fabrication and assembly; process-packaged goods; process—petrochemical; utilities; and construction, infrastructure and shipbuilding.

“While the global economy sputtered, the PLM economy grew faster than in 2010, which was a very good year,” according to Stan Przybylinski, CIMdata's Director of Research, “Most segments of the market that CIMdata tracks saw high double digit growth, with very strong license sales. Given that new license sales are often precursors to more software and services investment, this is a strong indicator that 2012 could be another solid year for PLM solution and services providers.”

The CIMdata PLM Market Analysis Report Series is available as a five-module set or each module can be purchased separately. It is also available as part of the CIMdata PLM Community Gold Membership. Further details and pricing information about the report and Community Memberships are available at www.cimdata.com.

About CIMdata

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CIMdata works with both industrial organizations and suppliers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia-Pacific. To learn more about CIMdata's services, visit our website at www.CIMdata.com, follow us on Twitter: <http://twitter.com/CIMdataPLMNews>, or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA. Tel: +1 (734) 668-9922. Fax: +1 (734) 668-1957; or at Oogststraat 20, 6004 CV Weert, The Netherlands. Tel: +31 (0) 495 533 666.

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Acquisitions

3D Systems Acquires Viztu Technologies

23 July 2012

[3D Systems Corporation](#) announced that has acquired [Viztu Technologies](#), the developer of Hypr3D, an online platform that allows anyone to turn their pictures and videos into printable 3D creations. The company expects to integrate Viztu into [Cubify.com](#), adding intuitive and fun scan-to-print and create-to-print apps. Viztu's founders, Ash Martin and Tom Milnes, join the 3D Systems team, enhancing their content creation and capture, hardware and software developing.

“Viztu adds an important building block to our growing Cubify platform. Now everyone can begin to express themselves in 3D as easily as snapping a picture,” said Cathy Lewis, Vice President Global Marketing for 3D Systems. “We believe that this investment will accelerate the democratization of the entire 3D create and make experience for everyone.”

More information on the company is available at www.3DSystems.com.

About Viztu Technologies, Inc.

Two guys from MIT meet in a class. One speaks tech, the other speaks business, and Viztu is born. From being a semi-finalist in the 2010 MIT \$100K Business Plan Competition to winning the 2012 SXSW Accelerator Award in the Innovative Web category, Viztu has turned into a computer vision powerhouse, freeing these amazing 3D tools from the lab and releasing them upon the world.

More information is available at Viztu.com.

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Company News

AVEVA Presents the Design Efficiency Factors Influencing the Future of Plant Design Software

23 July 2012

AVEVA today announced the release of a new business paper for the process and power industries highlighting the need to maximise the efficiency of plant design. Following the announcement of its vision for ‘The Future of Plant Design’, AVEVA is sharing its industry insight to help EPCs reduce project costs while improving quality.

AVEVA's revealing business paper introduces the concept of a design spiral as a way to characterise the plant design process and identify how efficiencies can be made. Optimising design efficiency, AVEVA argues, is one essential step in moving closer to the ultimate goal of maximum project performance.

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“We understand the uniqueness of the markets we serve”, said Dave Wheeldon, CTO & Head of Engineering & Design Systems, AVEVA. “You can't produce plants in volume in the same way that they do in the manufacturing industry. It's not about economies of scale; you must optimise each bespoke process.

“As major capital projects are increasing in size and complexity, the market is embracing joint ventures and sub-contractors to manage risk. This places the project team under enormous pressure to deliver work that is coordinated and meets contract obligations to avoid high penalty clauses. We have seen how improved design efficiency provides an essential and significant contribution to the supply chain.”

Focusing on six key areas, including openness, integration and compliance, the paper highlights what AVEVA anticipates will be the main factors driving plant design efficiency.

You can download the new business paper on the ‘The Future of Plant Design’ web site: www.aveva.com/futureofplantdesign. Alternatively, contact AVEVA on futureofplantdesign@aveva.com or +44 1223 556655 for more information.

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Dassault Systèmes and Shanghai Municipal Engineering Design Institute (Group) Co. Ltd (SMEDI) to Open a Joint R&D Center for Civil Engineering

27 July 2012

Dassault Systèmes and Shanghai Municipal Engineering Design Institute (Group) Co. Ltd (SMEDI) today announced that they will jointly open a new R&D center in Shanghai, China, to develop industry solution experiences for civil engineering and infrastructure construction professionals, based on Dassault Systèmes' 3DEXPERIENCE platform. Dedicated to bridge projects, water supply and wastewater treatment installations, roads, rail systems, as well as open and underground buildings, the R&D center will open in August 2012.

Founded in 1954, SMEDI has managed more than 7,000 of the most emblematic Chinese projects, from environmental and water resources engineering projects to structural engineering and large scale transportation infrastructure. SMEDI, with its unique understanding of the civil engineering market, will work together with Dassault Systèmes' team of experts to create and validate solution experience specifications, as well as deliver industry standards and content.

Dassault Systèmes' 3DEXPERIENCE platform provides civil engineering and infrastructure construction professionals with a unique, open, collaborative environment, enabling them to design, simulate and manage any scale of infrastructure project, reducing errors and bringing projects in on-time and on-budget, safely.

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“As the world leader in 3D design, 3D Digital Mock Up and PLM, Dassault Systèmes solutions have been successfully deployed in many industries,” said Mr. Wei Tang, Chairman, SMEDI. “We strongly believe that they can bring significant value in addressing the needs of civil engineering and construction companies, as demonstrated by leading construction customer projects in recent years. Leveraging Dassault Systèmes’ 3DEXPERIENCE platform for civil engineering, we are confident in our competitiveness in maximizing our productivity and minimizing errors in all our future projects.”

“From the very beginning, our 3DEXPERIENCE platform has been inspired by our customers and partners and what they’ve been telling us about their markets. This is why Dassault Systèmes has a long, successful history of partnering with key industry leaders to develop disruptive applications to harmonize human life in the 21st century urban environment,” said Dominique Florack, Senior Executive Vice President, Products, R&D, Dassault Systèmes. “Our partnership with SMEDI, one of the top players and most established civil engineering companies in China, will help us accelerate the development of world-class industry solution experiences for civil engineering in China and worldwide.”

“When thinking of the ‘future experience,’ nothing is more appropriate than looking at the construction and civil engineering market. How bridges, buildings, dams or other civil engineering projects are experienced and how they function and improve quality of life within the broader experience of everyday citizens, is the single most important factor for designers, builders and civil engineers,” said Monica Menghini, Executive Vice President, Industry and Marketing, Dassault Systèmes. “This makes our 3DEXPERIENCE platform and industry solution experiences essential for this fast growing worldwide industry.”

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Dassault Systèmes Spins-Off Transcat PLM

26 July 2012

Dassault Systèmes today announced that it is spinning off Transcat PLM GmbH, its sales and services subsidiary and long time development partner dedicated to customers of all sizes in Germany and Slovakia, via a management buyout (MBO). The transaction builds on Dassault Systèmes’ strategy to strengthen its partners’ business success in each geography and enable a new level of partner-to-customer-to-user experience.

As an independent company of 200 employees, Transcat PLM will continue to expand its position as a value added reseller (VAR) focused on bringing Dassault Systèmes’ 3DEXPERIENCE platform to its customers. It will also grow its position as a key application development partner to Dassault Systèmes through its Component Application Architecture (CAA) ecosystem of third party software developers. Etienne Droit, Gerhard Keller and Günther Öhlschläger will be the managing directors of Transcat PLM GmbH.

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“The completion of this spin-off will enable Transcat PLM to continue its stellar customer service for our clients in transportation and mobility, industrial equipment and consumer goods, leveraging Dassault Systèmes’ 3DEXPERIENCE platform,” said Etienne Droit. “Transcat will also continue to develop its long term relationship with German customers, giving them the opportunity to adopt industry solution experiences. It will also be a key services provider, as well as a key player in Dassault Systèmes’ CAA community to develop new add-on applications for the 3DEXPERIENCE platform.”

“Dassault Systèmes’ sales partner ecosystem is a crucial growth driver for us. We will focus on managing and improving the support of independent channel partners. They are key players in applications development, service to customers and distribution of our industry solution experiences and brand applications,” said Bruno Latchague, executive vice president, Distribution Strategy, Value Solutions, Dassault Systèmes. “By spinning off Transcat PLM as an independent, stand-alone company, we will not only enhance the value that our two companies are bringing to the German market, but give Transcat the ability to run its business more actively and effectively. This management buyout positions a former executive of Dassault Systèmes, Etienne Droit, as one of the managing directors of Transcat. This will be instrumental to our ongoing success together and increase Transcat’s profitability.”

About Transcat PLM

Founded in 1987, Transcat PLM GmbH is a specialist and supplier of Product Lifecycle Management (PLM) solutions based on the CATIA, ENOVIA, DELMIA, SIMULIA and 3DVIA products of Dassault Systèmes. As a Value Added Reseller (VAR) the company offers the PLM solutions throughout Germany with the associated services as well as its own add-on software products. As one of a few partners Transcat PLM is certified for all V6 products of the PLM 2.0 portfolio and markets the complete V6-product range of Dassault Systèmes. Transcat PLM also offers customized software components for virtual product development in its Product Data Quality (PDQ) range. The portfolio is extended by tailored server, storage and system management concepts.

Transcat PLM has about 200 staff based in Germany. Transcat PLM supports international clients through its worldwide partner network.

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EcoCAR 2 Teams from Ohio State University, University of Victoria and Embry-Riddle Receive MathWorks Modeling Award

24 July 2012

[MathWorks](#) today announced that teams from Ohio State University and University of Victoria have won the MathWorks Modeling Award as part of the [EcoCAR 2](#) student competition. In addition, the Embry Riddle Aeronautical University team earned third place. The award recognizes the teams’ use of [MATLAB](#) and [Simulink](#) for [Model-Based Design](#) during the three-year competition to re-engineer a Chevrolet Malibu to improve its fuel economy and reduce emissions.

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The team at Ohio State University employed Model-Based Design to build powertrain supervisory, engine and transmission controls from the ground up. They also designed an EcoSim simulator environment, which the team uses to perform trade-off studies, sophisticated optimizations and system validation automation.

“Where other groups might use existing controllers as black boxes to send override commands, the Ohio State team really pushed the design envelope. Their presenters could have easily been mistaken as seasoned veterans from the automotive industry,” said Paul Smith, director of consulting services at MathWorks and lead EcoCAR 2 mentor, MathWorks.

University of Victoria performed extensive custom physical modeling to develop fast running component models that can be integrated into HIL real-time simulations as part of their Model-Based Design workflow. “We are excited to see University of Victoria’s vehicle develop over the next two years. The team has done impressive research into both off-line and on-line control and drive cycle optimization to recognize actual and predicted driving patterns,” Smith noted.

Embry Riddle received recognition in third place for the team’s use of [SimDriveline](#) to develop fast and accurate system models that can be used for design tradeoff studies or real-time implementation. Their use of MATLAB and Simulink with Real-Time Workshop helped the team develop their vehicle fault detection, engine-generator controls, and diesel emission controls.

To be eligible for the award, teams must be active participants in the 2012 EcoCAR 2 Challenge, a three-year competition organized by the U.S. Department of Energy and General Motors. During the first year, the teams use Model-Based Design, an approach in which a virtual model is at the center of system development, from initial design and simulation through to testing and implementation. Winners of MathWorks Modeling Award are selected on the basis of their team’s innovative use of modeling and simulation, as demonstrated through a presentation and Q&A session, coinciding with the end of Year One of the challenge. See how several EcoCAR 2 teams, including the winners of the MathWorks Modeling Award, are using Model-Based Design in this [series of videos](#).

About EcoCAR 2: Plugging In to the Future

EcoCAR 2: Plugging In to the Future is a three-year collegiate engineering program that builds on the successful 24-year history of Department of Energy advanced vehicle technology competitions by giving engineering students the chance to design and build advanced vehicles that demonstrate leading-edge, eco-friendly automotive technologies. General Motors provides each of the 15 competing teams with a 2013 Chevrolet Malibu, as well as vehicle components, seed money, technical mentoring and operational support. The U.S. Department of Energy and its research and development facility, Argonne National Laboratory, provide competition management, team evaluation and logistical support. Through this important public/private partnership, EcoCAR 2 provides invaluable experience and training to promising young minds entering the North American job market. EcoCAR 2 follows the widely acclaimed competition series EcoCAR: The NeXt Challenge.

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FoFdration Project Progress Presented at CIRP Conference

26 July 2012

A session on the FoFdration project (Foundation for the Factory of the Future) was included in the 8th CIRP Conference on Intelligent Computation in Manufacturing Engineering held in Ischia, Gulf of Naples, Italy, from 16th to 20th July. The outcomes of the FoFdration project, which is funded by the European Commission within the FP7 framework, aim to share production data seamlessly, increase productivity by utilizing machine dynamics, monitor key sustainability indicators, and share information in a 'production-to-enterprise' dashboard. The progress of the project in all of these areas was discussed and the results to date were shared with Conference delegates.

The Conference attracted over 150 delegates and guests from 26 countries and 5 continents, with three delegates from Delcam included among the 18 representatives of the organisations contributing to FoFdration. The main aim of the Conference was to provide an international forum for the exchange of knowledge, information, experience and results as well as reviewing the progress made. It also acted as a forum for discussions on the state-of-the-art and future trends in intelligent computation methods and tools applied to manufacturing processes and systems. FoFdration partners also attended a joint session with another 'Factory of the Future' project, IFaCOM (Intelligent Fault Correction and self-Optimizing Manufacturing systems).

Professor Roberto Teti, an expert in technological innovation in manufacturing engineering and intelligent computing for manufacturing technology and systems, opened the conference and welcomed all the delegates. The greetings were followed by plenary session presentations from the rest of the Conference panel, firstly by Professor Marco Satochi, CIRP President, who detailed the background of the CIRP as "A Unique Academy in Production Engineering". Dr. Masahiko Mori, Mori Seiki (Japan), then spoke passionately about "Remote Monitoring System for CNC Machine Tools", and Professor Dr. Gideon Levy, Inspire AG, finished with an animated talk on Additive Manufacturing.

In the joint FoFdration-IFaCOM session, the FoFdration project scientific coordinator, Van Khai Nguyen of CADCAMation (Switzerland), presented a paper entitled "An Enabling Digital Foundation towards Smart Machining" which was very well received and generated interesting discussions, particularly regarding the sustainability element of the project. Conference Chairman Professor Roberto Teti attended the session and was very enthusiastic about the developments and results of the project so far.

Other papers were also presented in this joint session which included a thought-provoking talk on "Zero Defect Manufacturing; a Product and Plant Oriented Lifecycle Approach" by Odd Myklebust from Sintef, Norway, and a fascinating speech on "Image Data Processing via Neural Networks for Tool Wear Prediction" by Doriana D'Addona and Professor Roberto Teti from DIMP, Naples, where they had produced images with standard size and pixel density from elaborating tool image files obtained during cutting tests.

The CIRP Conference, especially the combined FoFdration-IFaCOM session, was a thoroughly enjoyable experience for all participants involved, both speakers and attendees, and an unparalleled

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opportunity for experts from a wide range of backgrounds to share their findings and to discuss the future of manufacturing.

For further details on the FoFdration project, please visit the website – www.FoFdration-project.eu.

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Hagerman & Company Earns Autodesk Factory Design Suite Specialization

26 July 2012

Hagerman & Company, a 28-year Value Added Reseller (VAR) serving the Midwest, South and California, announced today that it has earned the new Autodesk Factory Design Suite Specialization designation for VARs from Autodesk, Inc.

Autodesk Factory Design Suite software offers unique factory-specific functionality in AutoCAD and Autodesk Inventor software and combines them with visualization and analysis solutions in one economical and convenient purchase. The complete package is for any manufacturer, machine builder or systems integrator looking to optimize layouts of machine lines or entire manufacturing facilities.

As an Autodesk Specialized Partner, Hagerman & Company has made significant investments in human resources, demonstrates a solid business plan specific to the specialization area, has earned customer references and provides experience and support to customers in the manufacturing industry.

“We are very proud to add the Autodesk Factory Design Suite Specialization to our resume for our achievement and expertise,” said Dennis Hagerman, CEO and chairman of Hagerman & Company. “We welcome this opportunity to continue offering our customers the highest level of service.”

The new Autodesk Partner Specializations enable VARs to highlight and brand their expertise in delivering services in key industry areas. By completing the required curriculum and training, as well as meeting required levels of service and standards set by Autodesk, Hagerman & Company demonstrates what it means to be a trusted adviser to Autodesk customers throughout the world.

Hagerman & Company has also earned specialization designation in Consulting, Simulation, Process Plant and Autodesk PLM 360.

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CIMdata PLM Industry Summary

Infosys to Expand its U.S. Operations with a New Delivery Center in Wisconsin

24 July 2012

Infosys today announced that it will expand its presence in the United States with a new delivery center in Milwaukee, Wisconsin. The facility will provide end-to-end technology, consulting and systems integration services, and also will house a training center.

Infosys is investing in the Midwest region of the United States to support its clients in the area, including Harley-Davidson. The initiation of a five-year engagement with the American motorcycle manufacturer was the catalyst for locating the new delivery center in Milwaukee. As part of this long-term partnership, Infosys also will establish a training center to facilitate knowledge reuse and to conduct education related to information technology operations and business processes.

"It is critical for Infosys to create global hubs of talent, and the Midwest is a key region with a number of our important clients," said Ashok Vemuri, head of the Americas and member of the board at Infosys. "We welcome Harley-Davidson as our lead client at the new Wisconsin center, and look forward to servicing additional customers from this location, providing innovative technology and consulting solutions as we help build tomorrow's enterprises."

The Milwaukee facility joins the existing 17 locations in the United States that Infosys has opened as part of its ongoing commitment to local job creation. Infosys hired 1,200 people in the United States in 2011, and has already added more than 1,000 employees in the country this year. Total U.S. recruitment is expected to be close to 2,000 by the end of 2012. The new Wisconsin delivery center initially will house 125 seats, including the positions expected to migrate from Harley-Davidson.

"We are excited about working with Harley-Davidson as the anchor client of our new center," said Sanjay Jalona, senior vice president, manufacturing at Infosys. "With our deep knowledge of the automotive sector combined with unparalleled execution excellence, we have designed a solution to address current and future business requirements of Harley-Davidson."

"The engagement with Infosys is part of Harley-Davidson's overall realignment of its internal information services and technology capability," said David Cotteleer, Harley-Davidson vice president and chief information officer. "Given the rapidly changing IT landscape, a strategic partner can more effectively provide technology related services in many areas, including data network engineering and data center operations. After a thorough review, we are pleased to have selected Infosys for its leadership in technology innovation and the quality of its services and support. We also appreciate their commitment to job creation in Milwaukee."

The new Wisconsin delivery center will be operational later this year. Infosys also plans to expand this site in the near future, establishing centers of excellence for specific domain and technology areas.

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Lightworks Partners with AMD

26 July 2012

Lightworks is pleased to announce the company's partnership with AMD.

As part of the Company's ongoing commitment to offer a wide range of visualisation technologies, Lightworks has been working with AMD to provide capability for stereoscopic 3D technology. Lightworks already provides this capability within its Lightworks Author product where customers are able to enhance the perceived realism within their 3D models. This capability has now been developed further to incorporate hemispherical backgrounds within Lightworks Real time thereby increasing the depth, realism and involvement in the model.

Following on from the work carried out with AMD, Lightworks will be demonstrating the capabilities of stereoscopic 3D technology within the Lightworks Artisan product at this year's Siggraph Computer Graphics Exhibition in Los Angeles.

Visitors to the Lightworks booth will be able to see the improved performance which AMD FirePro graphics cards give to the rendering of stereoscopic 3D models within real-time.

Dave Forrester, CEO at Lightworks, commented; "At Lightworks we're always striving to give our customers additional functionality that will help them to increase the realism of their work. Our partnership with AMD means we can now demonstrate greater perceived realism within 3D models to make them come alive for users."

Robert Jamieson, ISV Manager EMEA Workstation Graphics, added; "We are always pleased when key ISV's implement technology with our AMD FirePro professional graphics cards to enhance the user experience of 3D. Lightworks is an important ISV as their technology is used by many other ISVs in diverse fields in the professional space"

To watch a demonstration, visit Lightworks on **booth # 1137**

to read more information about what else Lightworks will be doing at Siggraph, go to www.lightworkdesign.com/siggraph-2012.html

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Lectra and WGSN Bridge the Gap between Trend and Retail during Their New York Kickoff

24 July 2012

Lectra and WGSN introduced their recent partnership in North America with an event hosted in Lectra's New York office. This was the second in a series of worldwide events to celebrate the commitment of the two companies' to bridging the gap between fashion trends, design and development, and production. Forward-thinking companies and schools including The Apparel Group, The Jones Group, Fashion Institute of Technology, Parsons The New School For Design, and Walter Wilhelm Associates were in attendance.

After a welcome by President of Lectra North America Roy Shurling and an introduction by Julie Harris, WGSN CEO, WGSN Director of Content (East Coast) Maren Hartman unveiled the Autumn/Winter 2013/14 Macro Trends. Anastasia Charbin, Fashion Marketing Director, Lectra then outlined the broad strokes of taking a trend to retail reality and the importance of reactivity and a fast time to market. She also highlighted the Lectra-WGSN Starter Pack and how collaboration between creative and technical teams can tighten the development process. Guests received an exclusive pre-release copy of the Starter Pack.

"I think this partnership is so logical and I wonder why it didn't happen sooner," says Professor Tamara Albu of Parsons The New School for Design. "This is really how it should be: the trends going right to the industry with common stories. It's not only inspiring, but useful as well, no question about it."

A Starter Pack to jumpstart development

Lectra and WGSN developed the Starter Pack to illustrate what is possible when development expertise and trend knowledge merge to carry concept to production. A promotional kit available to both WGSN and Lectra customers, the Starter Pack includes design elements for six upcoming key looks intended to jumpstart creativity and inspired from WGSN macro trends. The kit is intended to give designers and development teams an inspirational basis from which to adapt trends and build collections. The complete Autumn/Winter 2013/14 packs will be free for download from the Lectra and WGSN websites.

Positive feedback from those in attendance

"The fact that you are offering a Starter Pack combining two areas of the business, design and IT, that typically don't work well together and the fact that you are breaking those barriers is great," says Enrico Lara of Hokura. "Being able to get colors and then translate them right away using Lectra is one of the reasons why our company relies on Lectra technology," says Jacqueline Warrington, CAD Designer at The Apparel Group.

"At Jones Group we use WGSN primarily for inspiration, but when you pulled in things like the color standards with the inspiration boards, that's where the whole story came together for me," says Bob Stevens, Senior Director Pre-Production Systems at Jones Group. "When I come away from Lectra presentations, I always feel afterwards that the information was very exciting, and makes a lot of sense,"

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says Lorna McCrave, Director of Color and Print Design at Kayser Roth. “I always learn something.”

Lectra and WGSN: an industry partnership

The Lectra-WGSN partnership was conceived to bridge the gap between trends, design, and development with a combination of exclusive content, technology, and industry best practices. Future events are planned in late September in Paris and later in the fall in Shanghai. The Starter Pack and more information about the partnership may be found at www.lectra.com/starterpack.

For more information, please visit www.lectra.com.

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Trubiquity Joins the Codex of PLM Openness Initiative

23 July 2012

Trubiquity has joined the Codex of PLM Openness (CPO) initiative. The Codex of PLM Openness is a program of the ProSTEP iViP organization designed to provide a common understanding on openness of information technology (IT) systems in the context of PLM.

This joint effort involved IT providers, integrators and customers and has defined measurable criteria that provides a clear position with regard to PLM Openness. Trubiquity joined the voluntary CPO as a self commitment to continue offering highly integrative solutions for PLM driven supply chain managed file transfer (MFT) and collaboration. Martyn Davies, Trubiquity, Vice President, indicates “The PLM Openness initiative aligns very well with Trubiquity’s product orientation in that our solutions do already integrate well with multiple PLM systems. The CPO further strengthens our commitment to work in partnership with our customers and PLM vendors to provide secure, proven and cost-effective solutions to facilitate “round trip” collaboration workflows with internal teams, suppliers and partners.”

About Trubiquity

Trubiquity is a global provider of MFT (managed file transfer), process automation and integration solutions for 6,500 companies with 60,000 users in the automotive, aerospace, manufacturing, retail, finance, healthcare and consumer goods industries. For more than 25 years, Trubiquity solutions have helped companies and partners better communicate, collaborate, integrate and automate business critical data ensuring security and compliance with rigorous international standards. Trubiquity is headquartered in Troy, Michigan, with facilities in Carlsbad, California and international offices in Germany and the United Kingdom. For more information, visit <http://www.trubiquity.com>.

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Events News

50+ Cutting-Edge Simulation Presentations at NAFEMS North America Conference '12

25 July 2012

The [NAFEMS North America Conference 2012](#) in Washington D.C. on September 11- 12 will feature in excess of 50 presentations, 3 dedicated panel sessions and 7 training sessions over 4 tracks, making it a must-attend for everyone who utilizes analysis and simulation.

“NAFEMS is thrilled to announce the agenda for our North America Conference '12. With four tracks taking place over the two-day conference, the event will showcase the most cutting-edge technology and techniques to ensure the North American engineering simulation community is maximizing the benefits of analysis and simulation. With our highly successful World Congress taking place in Boston in 2011, this will be the second year running that NAFEMS has hosted a large conference within the region.”

Tim Morris, CEO

With four tracks jam-packed with presentations from industry experts, the NAFEMS North America Conference will provide delegates with an outstanding overview of the status of engineering analysis and simulation in North America and beyond, and will ensure delegates possess the knowledge to maximize the potential of simulation – now and in the future.

[Register TODAY](#)

The Agenda

With more than 50 presentations, 3 panel discussions and 7 training courses taking place over the 2 days, the North American Conference '12 represents the most comprehensive and wide-ranging collection of analysis and simulation specific content available from one independent event. Sessions will include:

- Futuristic Considerations
- Commercial Impact Of CAE Investments
- Simulation And Process Data Management
- Optimization
- Design Uncertainty Quantifications
- Methods
- Composites
- High Performance & Cloud Computing
- Systems Simulation
- Dynamics
- Medical Devices

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- Multiphysics
- Validation
- SDM Panel
- Vendor Panel Session
- Education Panel

View the presentation titles and download the full agenda [here](#).

About NAFEMS

NAFEMS is a not for profit organization aimed at promoting best practices and fostering education and awareness in the engineering analysis community. In line with its objectives to promote the effective use of simulation technologies, NAFEMS is continually seeking to create awareness of new analysis methodologies, deliver education & training, and stimulate the adoption of best practices and standards by offering a platform for continuous professional development.

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Aras to Present at CM Trends 2012 Configuration Management Conference

25 July 2012

Aras® today announced that the company will present at the Configuration Management Process Improvement Center's (CMPIC) CM Trends 2012 Conference. Attracting configuration management professionals from around the world, the conference provides a unique opportunity to explore the latest trends in CM, engage with leading CM experts and solution providers, and network with peers and colleagues.

CM Trends 2012 takes place August 13-15 at the U.S. Grant Luxury Hotel in San Diego, California. Marc Lind from Aras will present on Monday, August 13th at 10:00am. Mr. Lind will explore the challenges and risks of systems engineering where requirements span an integrated configuration including mechanical, electrical, wiring, software, firmware and other related items, and present solutions to break down the barriers and provide an integrated requirements management solution for today's global enterprises.

Aras is a CMPIC Preferred Vendor compliant with the CMPIC configuration management framework. To learn more and register for CMPIC's CM Trends 2012, please visit <http://www.cmpic.com/configuration-management-conference.htm>

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Delcam to Show Integrated Electrode Solution at IMTS

25 July 2012

Delcam will demonstrate its completely integrated solution for the design, machining and inspection of electrodes on booth E-3222 at the IMTS exhibition to be held in Chicago from 10th to 15th September. The close integration has been made possible through a combination of developments in Delcam's PowerSHAPE CAD software, PowerMILL CAM system and PowerINSPECT inspection software. The production of electrodes is a key stage in the manufacture of many types of tooling so the availability of a faster, more automated method for their development will increase efficiency and reduce lead times across a number of industries.

At the heart of the novel Delcam solution is a new file format – the .Trode file. This contains all the information for each electrode project, including not only the electrode design but also the machining and inspection information, plus the set-up sheets for its manufacture and use. Having all the required information in a single file simplifies data management as well as increasing overall efficiency.

The initial design stage of the process has been made both easier and faster thanks to the increased range of direct modelling tools available within PowerSHAPE. Users can now quickly and easily define the region where the electrode will be used, extract the shape needed to produce the required feature in the part, and then edit the design to provide clearance from the main surface of the tool and to blend it into the blank size needed to fix the electrode into its holder.

Analysis tools are available to check that the draft angles and minimum radii used in the design will not cause downstream problems, while the ability to simulate the action of the electrode ensures that it will operate as expected. To speed the design process further, catalogues of blanks and holders are included from Erowa, Hirschman and System 3R. Users can add their own standard sizes to these databases.

Once the design has been finalised, the necessary spark gaps can be specified to provide the machining offsets required in PowerMILL to cut the roughing and finishing electrodes. Inspection points can also be added so that the measurement of the electrode in PowerINSPECT can be automated to a large extent. Then, set-up sheets for the electrode's manufacture and use can be produced automatically, either to a standard format or to a user-defined template.

Companies that produce multiple electrodes of similar sizes from the same material can develop templates within PowerMILL to machine them in a standardized way. Burn, clearance and blank faces of the electrode are automatically colour-coded within PowerSHAPE so that they can be recognized within PowerMILL. The size of the material block and the spark gaps for the electrode family are also read from the .Trode file and applied to the toolpaths automatically. Once the templates have been created, generating the machining toolpaths becomes a fully-automated process.

Specifying the inspection points within PowerSHAPE means that the probe path in PowerINSPECT and the production of the inspection report can also be automated, including undertaking a best-fit analysis

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of the machined electrode. However, all of PowerINSPECT's flexibility is available if extra measurements are needed from any areas of the part that are causing concern. The results of the inspection are added to the .Trode file for quality control records.

The automated generation of set-up sheets for both the machining and application of the electrodes ensures that all the data needed at each stage is readily available. A documentation pack, including the GA and detail sheets, can be issued as drawings, HTML files or Microsoft Excel spread sheets. All these options make communication easy between the various people involved in the design, manufacture and use of the electrodes.

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Delcam to Show Latest Delcam for SolidWorks at IMTS

23 July 2012

Delcam will launch the 2013 version of Delcam for SolidWorks, the integrated CAM system for SolidWorks, on booth E-3222 at the IMTS exhibition to be held in Chicago from 10th to 14th September. The new release includes a new entry-level 3D milling option, plus many of the enhancements made to the 2013 version of the FeatureCAM feature-based programming system on which it is based. As a Gold Partner CAM product, it is, of course, fully compatible with the latest release of SolidWorks.

The new entry-level 3D option includes all the 2D and 2.5D strategies available in Delcam for SolidWorks, plus the 3D single-surface strategies for Z-level roughing, with either offset or raster, and finishing with raster, isoline or spiral. It is intended mainly as an introductory level program for companies new to 3D machining but will also be useful for users that only have an occasional need for 3D capabilities or that only machine softer materials.

A number of new strategies have been added to the high-speed machining module in Delcam for SolidWorks. Step cutting has been added within area clearance to remove large terraces that can be left on the part when using deeper roughing cuts. Extra toolpaths can now be generated that step back up the terrace with the existing large tool, adding extra cuts at intermediate levels. This results in more material being removed, using the same tool within the same toolpath.

Automatic splitting of finishing between steep and shallow areas of the part has been enhanced with the ability to use the scallop height to control the stepover. Using this value rather than setting a constant stepover distance gives better control of the surface finish.

Both roughing and finishing strategies now incorporate an "area filter" to remove small enclosed pockets within the part from the toolpath. Any attempt to cut these areas risks damage to the tool, even though it is mathematically possible to remove the material.

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Delcam for SolidWorks now gives the option of using bottom-up machining for Z-level finishing as well as the conventional top-down approach. This can be useful when using a ball-nose end mill as it avoids cutting with the centre of the tool and so gives a better surface finish and longer tool life.

New five-axis strategies available in Delcam for SolidWorks 2013 include flowline machining between two curves, pencil machining and corner re-machining. These options for simultaneous five-axis machining allow a better surface finish to be achieved as well as ensuring access to more areas within the part in a single set-up.

New options have also been added to give smoother five-axis machining. A new look-ahead capability will remove any sudden tool-axis changes during automatic collision avoidance and, instead, ensure that a smooth transition takes place. In addition, the ability to smooth the Azimuth and Elevation axes independently is now available, allowing excessive five-axis movement to be removed. These options stabilise the rotary axis movement by maintaining a fixed tool axis as far as possible, thus replacing constant five-axis movement with a series of 3+2-axis segments having full five-axis transitions between them.

Enhancements have also been made to the turning and mill-turn modules within Delcam for SolidWorks. In particular, support is now available for simultaneous b-axis turning for more complex turning operations. This allows more positioning options to be used for a single tool, so minimising tool changes and the associated dwell marks or surface blends.

Delcam for SolidWorks combines the benefits associated with Delcam's PowerMILL and FeatureCAM CAM systems. It is based on Delcam's proven machining algorithms that are already used by more than 35,000 customers around the world. The software offers PowerMILL's exceptional speed of toolpath calculation, plus the advanced strategies for high-speed and five-axis machining, to ensure increased productivity, maximum tool life and immaculate surface finish, even when cutting the hardest, most challenging materials. At the same time, Delcam for SolidWorks has the same strong focus on ease of use as FeatureCAM, including all of the knowledge-based automation that makes that system so consistent and reliable.

Delcam for SolidWorks is fully integrated into the SolidWorks environment so that the program looks and behaves like SolidWorks. It offers full associativity so that any changes in the CAD model are reflected automatically in the toolpaths. However, this associativity is more intelligent than that offered in many other integrated CAM systems. Delcam for SolidWorks doesn't simply modify the existing toolpaths but also reviews the choice of cutting tools and machining strategies, and changes them if necessary.

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Geomagic CEO Ping Fu Headlines Panel at "Designing the Future 2012"

27 July 2012

[Geomagic](#)® announced that its CEO Ping Fu is headlining a panel on innovation and 3D design at the ["Designing the Future 2012" event](#) tonight, Friday July 27 in the Bay Area, sponsored by [Women@TheFrontier](#) and [Singularity University](#).

The conference features prestigious speakers -- from TV network founder Kay Koplovitz to inventor and futurist Ray Kurzweil to paralympians and artists. [Geomagic's Ping Fu](#) will discuss the blending of physical and digital objects, and how they are changing the way we create and manufacture -- today and into the future. She is especially interested in exploring the idea of the 'personal factory' where customized objects can be created as easily as mass produced objects using new scanning and additive fabrication methods.

Ping Fu is an Inc Magazine [Entrepreneur of the Year](#), Ernst & Young Entrepreneur of the Year for the Carolinas, and serves on the White House's National Advisory Council on Innovation and Entrepreneurship board. Coming straight to the US from China, where she had been imprisoned during the cultural revolution, she became a computer scientist working on the first Internet browser, and went on to co-found Geomagic in 1997. Geomagic's software is used to process scan data into digital files for design, engineering, analysis and inspection. She is currently authoring a business publication (Penguin Books) which will debut early in 2013.

WHAT: [Designing The Future 2012](#), Panel on "Innovation and 3D Design"

WHEN: Friday, July 27th 2012 at 8:00 pm PT

WHERE: NASA Research Park, Bldg 152 Dailey Road, Moffett Field, CA

WHO: Ping Fu, Founder & CEO, Geomagic, joined by Amy Purdy, Co-Founder, Adaptive Action Sports & Paralympic Snowboarding Champion; and Scott Summit, Founder Bespoke Innovations and Singularity University

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Intergraph® 2012 Greater China Commences in Xiamen

23 July 2012

Intergraph® opens its annual Intergraph 2012 Greater China users' conference today in Xiamen, China, bringing Greater China's top process, power and marine companies together for four days of informative sessions and networking among industry leaders. The event is sponsored by Intergraph's Process, Power & Marine (PP&M) division, which for nearly 30 years has provided local resources to support engineering, procurement and construction (EPC) companies and owner operators executing projects

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and operating facilities in Greater China.

Intergraph 2012 Greater China features keynote sessions by Guan Yida of China National Petroleum Corporation and Yu Yong of China National Offshore Oil Corporation, as well as Gerhard Sallinger, president of Intergraph PP&M; Patrick Holcomb, executive vice president of global business development for Intergraph PP&M; and Melanie Eakes, senior vice president of Intergraph PP&M. The conference also features customer presentations by process, power and marine industry representatives from major organisations, such as Sinopec Engineering Incorporation and its subsidiary companies, Shengli Engineering and Consulting Company Limited, East China Electric Power Design Institute, Shanghai Nuclear Engineering Research and Design Institute, Tianchen Corporation China and others. Intergraph 2012 Greater China gives our engineering customers a unique opportunity to learn about the latest industry developments and leverage best practices from other companies.

"The Greater China market continues to experience dynamic growth and Intergraph is committed to supporting our customers in this region with customised industry solutions," said Welch Sun, Intergraph PP&M general manager for Greater China. "This is our first user conference since announcing Greater China as a separate operating region, and we will highlight our forward-thinking strategies to support the transformation of the Chinese economy. Intergraph 2012 Greater China provides the opportunity to show our customers how our industry-leading solutions can help them enhance safety, improve quality, enable interoperability, boost productivity, reduce timelines and ensure data accuracy across the facility life cycle."

Intergraph's SmartPlant[®] and SmartMarine[®] Enterprises offer a powerful portfolio design and data management solutions, enabling companies in the process, power, offshore and marine industries to capture integrated engineering knowledge at the enterprise level for the competitive advantage needed in today's and tomorrow's market. The integrated suites of SmartPlant and SmartMarine Enterprise solutions enable proven productivity gains, improving engineering efficiency and design productivity by up to 30 percent.

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ITI Presenting Latest SimulationX Release at SMM 2012

24 July 2012

This year, ITI GmbH will be exhibiting for the first time at the SMM, the international trade show for shipbuilding, machinery and marine technology, from September 4 until 7 in Hamburg, Germany. ITI's latest release of SimulationX is themed "green, safe, reliable" raising the bar in the development of energy-efficient and safe marine propulsion systems. In live demonstrations, ITI will showcase practical examples how to design and analyze eco-friendly propulsion systems. Modeling, simulating and analyzing propulsion and power systems, risk assessment (FTA, FMEA) as well as energy management of ships, cranes and equipment are at the heart of those presentations. A rapidly growing customer base of classification societies, shipbuilders, manufacturers of offshore systems and various suppliers from around the world combined with an ever-growing demand for "green maritime and marine technologies"

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led ITI to decide for this year's participation at the SMM. At the trade show, ITI will be exhibiting at the P+S stand. In the scope of a strategic partnership with P+S Shipyards, ITI supports the implementation of their proprietary competence center "Systemintegration" through virtual methods of product development and commissioning.

The latest release 3.5 of the multi-domain simulation software SimulationX will be all front and center at ITI's program highlighting its strengths in designing and analyzing safe, reliable and, above all, energy-efficient propulsion systems. Creating physically correct and scalable models is the basis for a quick assembly of components and systems. Also, SimulationX 3.5 allows for detailed analyses of a ship's energy consumption and that of its equipment in order to achieve optimal power flow and fuel consumption for a reliable and economical power supply. SimulationX users like Germanischer Lloyd optimize the energy consumption of a ship through onboard measurements and SimulationX models. Validation tests and pilot installations have proven the high quality of SimulationX' virtual simulation results.

Vessel safety management is another area where ITI provides solutions for assessing risks and their impact on operations through fault and failure analyses (FMEA). SimulationX' open structure with a wide range of transparent and customizable models and libraries provides its users with a high degree of flexibility and usability. It is possible to run robust, numerical calculations within the time (transient) and/or frequency (steady-state) domain(s) for simple and complex models at certain levels of detail. That permits also analyses of transient behavior, short circuits, ice collision and comfort studies. Non-linear torsional vibrations can be analyzed and assessed in SimulationX for both domains with respect to limit values and certification. SimulationX 3.5 offers a range of comprehensive model packages which will be presented to the professional audience at the SMM 2012.

Through physical simulations, SimulationX users, such as the classification society DNV, predict vibration loads that can be caused by ice impact on the propeller. Such extreme loads can be tested in SimulationX on a virtual basis over a long period of time with varying parameter settings. The simulation results allow for a reliable evaluation of individual components and their operational behavior under arctic conditions. The SimulationX module for calculating ice impact loads on the powertrain (propeller model) was developed in collaboration with Germanischer Lloyd who are also going to certify it. So for the first time, a SimulationX application will receive a type certification. Other classification societies, like Bureau Veritas Marine, use SimulationX as a working platform for visualizing complex vessel data in order to evaluate them in line with international requirements and regulations. At ITI's stand, visitors can learn more about SimulationX' capabilities helping comply with such demanding certification criteria which often lie even beyond the usual industry standards.

"Growing requirements of green and safe shipbuilding, rising costs for raw materials as well as the international competition explain why we currently see such an enormous demand for innovative technologies whose development call for cutting-edge simulation solutions. This evolution has increasingly translated into new business and a great deal of positive feedback from our customers. That has motivated us even more to further engage in the marine industry", says Jens O. Schindler, General Manager of ITI GmbH. Beside Bureau Veritas, Germanischer Lloyd and DNV, ITI's customers include further well renowned companies, such as Aker, Caterpillar, CSIC, Diesel United, FMC Technologies,

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GKN Stromag, Loher, Mitsubishi Heavy Industries, Mitsui, National Oilwell Varco, P+S Shipyards, Samsung Heavy Industries, Scana Volda, STX, ThyssenKrupp and Vulkan.

Visit ITI at P+S's stand 207, hall B4.EG at the SMM 2012.

About the ITI Group

ITI develops simulation tools for engineers and scientists in various industries and education. The company supports the development of new products with comprehensive engineering and programming services throughout the entire design process. Workshops and seminars at the ITI Academy round off the scope of services. More than 600 customers worldwide ranging from the automotive, energy, apparatus technology and aerospace industries to machinery manufacturers and shipbuilders trust ITI's simulation solution. ITI's customers include renowned names like ABB, BMW, Baker Hughes, Caterpillar, Daimler, Hitachi, Honda, Husky, Liebherr, Mitsubishi, Nikon, Schaeffler, Siemens, Veolia, Volkswagen and ZF. Based in Dresden, Germany, ITI has also branches in France and the UK. With partners across more than 35 countries, the company has a vast network of distributors and service providers for its simulation software SimulationX. More information about the company and its product can be found on www.itisim.com.

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'The Future of Plant Design' to Preview at AVEVA World Summit 2012

25 July 2012

AVEVA announced today that it is offering delegates of its [AVEVA World Summit 2012](#) a preview and live demonstration of its new 3D design software product that promises to be 'The Future of Plant Design'. At the event being held on October 10 -12 at the Marriott Rive Gauche Conference Center, Paris, additional details of the product's user interface and functional capabilities will be revealed.

'We are meeting the needs of the changing plant design market with this new product, which we first announced atACHEMA in June', said Dave Wheeldon, CTO, AVEVA. 'The product will support new and improved ways of working, facilitate faster project deployment, as well as embracing mobile computing to provide even greater control and visibility to stakeholders across the design chain.'

'AVEVA has been at the forefront of engineering and information management software for 45 years', added Richard Longdon, CEO, AVEVA. 'During that time much has changed but our focus has remained on helping customers work globally with less risk, shorter lead times and greater efficiency. With a Summit theme of 'Defining the Future' there really is no better place to show this new product live to our key customers and prospects from around the world. We look forward to an exciting and interactive Summit.'

The technical vision for AVEVA's new product includes:

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- A 3D modelling capability which is 'real world' representation quality, combining the best 3D graphics and laser scanning point clouds
- A 2D drawing capability, fully automated and integrated with the 3D model
- Full interoperability with other design systems in the design process
- An architecture that can support project re-use and modular design
- An integration with laser scanning point clouds for dimensional control in construction

To register for the AVEVA World Summit simply visit www.avevaworld.com.

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Financial News

3D Systems Reports Second Quarter Results

26 July 2012

[3D Systems](#) Corporation announced today non-GAAP adjusted earnings of 27 cents per share for the second quarter of 2012 and GAAP earnings of 16 cents per share.

Revenue increased 52% to \$83.6 million over the second quarter of 2011 on 20% organic growth. The company reported growth from all its revenue categories, led by a 112% increase in its printer units sold. Backlog increased 28% sequentially to \$12.3 million at the end of the quarter on continued strong demand for its printers, materials and on-demand parts services.

For the second quarter, gross profit grew 71% on higher revenue and gross profit margin expansion of 570 basis points to 51.4% over the 2011 quarter, driven by significant on-demand parts services and printers gross profit margin improvement.

The company reported non-GAAP adjusted net income of \$13.9 million for the second quarter, up 44% compared to the 2011 quarter, resulting in \$0.27 earnings per share. The company reported GAAP net income of \$8.3 million, resulting in \$0.16 earnings per share.

The company reports non-GAAP measures that adjust net income and earnings per share by excluding the impact of amortization of intangibles, non-cash interest expense, non-recurring acquisition expenses, stock-based compensation and any release of the valuation allowance on deferred tax assets. A reconciliation of GAAP to non-GAAP results is provided in the accompanying schedule.

The company generated \$21.4 million of cash from operations in the first six months of 2012, and ended the second quarter of 2012 with \$158.5 million of available cash, after incurring a \$11.8 million increase in its operating expenses primarily from acquisition and higher sales and marketing costs. The increase

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included \$1.9 million of higher R&D expenditures in support of its expanded consumer and healthcare solutions portfolio.

"We are very pleased to report another record revenue quarter driven by doubling printer units and balanced organic and acquisitions growth," said Abe Reichental, 3D Systems' President and Chief Executive Officer. "We believe that our continued sequential gross profit margin expansion reflects solid execution and validates our business model and potential earnings power."

3D printer units sold more than doubled compared to the 2011 period, and accounted for a \$9.9 million revenue increase. Print materials revenue grew 60% to a new record of \$26.2 million, driven by strong printer units sales as a result of the company's effective portfolio and price point re-alignment and channel expansion. Services revenue increased by \$8.8 million over the 2011 period to \$31.3 million and included \$20.5 million of on-demand parts.

"Since its launch later in the quarter, Cube® 3D printer orders topped our expectations," continued Reichental. "While we don't expect revenue from Cube or Cubify.com to be material to our revenue for the remainder of 2012, we are very pleased with the overall marketplace reception and have already increased capacity to stay ahead of growing demand."

The company affirmed its annual guidance for the full year 2012 after increasing its R&D spending in connection with its Bespoke Innovations acquisition and expanded portfolio, expecting its revenue to be in the range of \$330 million to \$360 million and its non-GAAP adjusted earnings per share to be in the range of \$1.00 to \$1.25.

"We entered the third quarter with positive sales momentum reflecting continued strong demand and record backlog. While we may face lingering economic uncertainties in parts of the world, we expect to continue to benefit from robust R&D spending by our customers worldwide," concluded Reichental.

Conference Call and Webcast Details

3D Systems will hold a conference call and webcast to discuss its operating results for the second quarter 2012 on Thursday, July 26, 2012 at 10:30 a.m., Eastern Time.

- To access this webcast, log onto 3D Systems' web site at investor.3dsystems.com. To ensure timely participation and technical capability, we recommend logging on a few minutes prior to the conference call to activate your participation.
- To access this conference call, dial 1-800-510-0178 from in the U.S. or 1-617-614-3450 from outside the U.S. and enter participant code 52293909.
- The webcast will be also be available for replay beginning approximately two hours after completion of the call at: investor.3dsystems.com.

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To view an unabridged version of this press release,
visit: <http://www.globenewswire.com/newsroom/news.html?d=263537>

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Atos: First Half 2012 Results

27 July 2012

Atos, an international information technology services company, today announced its results for the first semester of 2012.

Thierry Breton, Chairman and CEO at Atos said: “The first half confirmed what we expect to be a solid year in 2012. We continue to closely monitor the global economic environment, while remaining focused on building a profitable and sustainable growth model. Thanks to the efficient execution of the TOP² Program, our operating profitability is in line with the 6.5 percent objective of the full year.

The first half of the year was also dedicated to invest in innovation in order to increase competitiveness and to remain responsive to the changing needs of our clients. Our exciting recent initiatives in Cloud with EMC² and VMware, in social networks with the acquisition of blueKiwi, in mobile payment and in smart mobility for connected cars will be key contributors for future growth.

Order entry strongly accelerated during the second quarter. Our position in the recurring businesses is favorable as shown by the signing of major IT contracts such as the one with McGraw-Hill in the US. Our performance and increasing backlog allow us to look to the future with confidence. Finally, the transformation of the legal status to a SE (European company) voted at the Shareholders General Meeting consolidates the European leadership of our Group.”

Revenue was EUR 4,366 million, up +76.3 percent compared to the first half of 2011 on published revenues, representing an organic growth (constant scope and exchange rates) of +1.4 percent. The four largest GBUs are Germany with 19.2 percent of total revenue, the UK at 18.6 percent, Benelux and France at 11 percent.

Book to bill ratio was 113 percent thanks to a strong commercial activity and major bookings in Managed Services. The book to bill ratio for the Group was 120 percent excluding Siemens, for which the outsourcing and application management elements of the Global IT contract were booked in the backlog in July 2011.

Operating margin was EUR 248.8 million, representing 5.7 percent of revenue compared to 3.7 percent in the first half pro forma figures of 2011 at constant scope and exchange rates. The Group generated in the first semester of 2012 EUR 129 million of free cash flow, leading to a net cash position of EUR 101 million at the end of June 2012. Net cash position before acquisitions, disposals and equity from minority interest was EUR 149 million. Net income Group share stood at EUR 102 million compared to EUR 100 million in the first half 2011 which included a one-off result before tax on pensions new indexation in the UK for EUR 32 million.

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To read an unabridged version of this press release, visit: http://atos.net/en-us/Newsroom/en-us/Press_Releases/2012/2012_07_27_01.htm

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Cadence Reports Second Quarter 2012 Financial Results

25 July 2012

Cadence Design Systems, Inc. today announced results for the second quarter of fiscal year 2012.

Cadence reported second quarter 2012 revenue of \$326 million, compared to revenue of \$283 million reported for the same period in 2011. On a GAAP basis, Cadence recognized net income of \$36 million, or \$0.13 per share on a diluted basis in the second quarter of 2012, compared to net income of \$27 million, or \$0.10 per share on a diluted basis in the same period in 2011.

Using Cadence's non-GAAP measure, net income in the second quarter of 2012 was \$53 million, or \$0.19 per share on a diluted basis, as compared to net income of \$32 million, or \$0.12 per share on a diluted basis in the same period in 2011.

"The Cadence team executed well again in Q2," said Lip-Bu Tan, president and chief executive officer. "Our 20-nanometer engagements have expanded, use of our Azuro technology acquired in 2011 increased, our emulation business significantly exceeded expectations, we had a strong quarter for both design and verification IP, and the acquisition of Sigrity has significantly enhanced our printed circuit board product line."

"Cadence continues to deliver strong operating performance as measured by our key metrics of revenue growth, operating margin and cash flow," added Geoff Ribar, senior vice president and chief financial officer.

Audio Webcast Scheduled

Lip-Bu Tan, Cadence's president and chief executive officer, and Geoff Ribar, Cadence's senior vice president and chief financial officer, will host a second quarter 2012 financial results audio webcast today, July 25, 2012, at 2 p.m. (Pacific) / 5 p.m. (Eastern). Attendees are asked to register at the website at least 10 minutes prior to the scheduled webcast. An archive of the webcast will be available starting July 25, 2012 at 5 p.m. (Pacific) and ending August 8, 2012 at 5 p.m. (Pacific). Webcast access is available at www.cadence.com/company/investor_relations.

For an unabridged version of this press release, visit: http://www.cadence.com/cadence/newsroom/press_releases/Pages/pr.aspx?xml=072512_financial&CMP=home

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Dassault Systèmes Reports Organic Double-digit Revenue and Earnings Growth for the 2012 Second Quarter and First Half

26 July 2012

Dassault Systèmes today reports IFRS unaudited financial results for the second quarter and first half ended June 30, 2012. These results were reviewed by the Company's Board of Directors on July 25, 2012.

Summary Highlights (unaudited)

- Q2 EPS up 29% (IFRS) and up 19% (non-IFRS)
- First Half EPS up 21% (IFRS) and 15% (non-IFRS)
- Total software revenue up 11% in Q2 and 10% in the First Half in constant currencies
- Net operating cash flow €188 million in Q2 and €354 million in First Half
- Expanding addressable market to natural resources industry with Gemcom acquisition completed
- Upgrading 2012 financial objectives

2012 Second Quarter Financial Summary (unaudited)

“Dassault Systèmes had a strong new business dynamic in the second quarter as demonstrated by the combination of our new licenses and rental revenue growth,” commented Bernard Charlès, Dassault Systèmes President and Chief Executive Officer. “While retaining appropriate caution, we are upgrading our revenue target for 2012, and reaching a new milestone - €2 billion in annual revenues.

“We are very pleased with these results and we see a much larger potential over the coming years. This is because the response of all our partners to the 3DEXPERIENCE platform adoption is unanimous and enthusiastic. They see the potential of our Industry Solution Experiences and see the value for their customers.

“Finally, during the 2012 First Half, we advanced our dream of sustainable innovation for product, nature and life with the completion of the Gemcom acquisition. The new brand GEOVIA and the creation of a new Industry for Natural Resources are creating new business dynamics and new industry solutions for our core industries, too. The mastering of geophysics and modeling of our planet is and will be a key parameter for the future of Transportation & Mobility, Marine & Offshore, Industrial Equipment and Energy, Process & Utilities.”

To view an unabridged version of this press release, visit: <http://a2.media.3ds.com/fileadmin/COMPANY/FINANCE/PDF/12Q2/Dassault-Systemes-finance-PR12Q2English20120726.pdf>

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EMC Reports 19% Increase in Second-Quarter Profit; Achieves 10% Growth in Quarterly Revenue

24 July 2012

EMC Corporation today reported strong financial results for the second quarter of 2012, marking the company's 10th consecutive quarter of double-digit year-over-year growth for consolidated revenue, GAAP net income, and GAAP and non-GAAP EPS. EMC expects to achieve its full-year 2012 goals for consolidated revenue, non-GAAP EPS and free cash flow.

Second-quarter consolidated revenue was \$5.31 billion, an increase of 10% compared with the year-ago quarter. Second-quarter GAAP net income attributable to EMC increased 19% year over year to \$650 million. Second-quarter GAAP earnings per weighted average diluted share increased 21% year over year to \$0.29. Second-quarter non-GAAP¹ earnings per weighted average diluted share were \$0.39, an increase of 11% year over year.

During the second quarter, EMC generated operating cash flow of \$1.24 billion and free cash flow² of \$958 million, a year-over-year increase of 16% and 36%, respectively. Additionally, the company expanded GAAP and non-GAAP gross margin and operating margin percentages on a year-over-year basis, and ended the quarter with \$10.9 billion in cash and investments.

Joe Tucci, EMC Chairman and Chief Executive Officer, said, "I am very pleased with EMC's execution and record second-quarter financial performance. We are seeing a transformation in the IT industry unlike anything we have seen before. Organizations are moving quickly to adopt cloud computing and take advantage of both the efficiency and agility that comes with running IT-as-a-Service. Customers are also looking to deploy a new generation of Big Data applications to gain competitive advantage and differentiate their businesses. And they demand that all this be done in a secure and trusted way. EMC is widely recognized as a leader and driver of this transformation."

David Goulden, EMC President and Chief Operating Officer, said, "The business we have built is at the intersection of three of the most transformative waves in the history of IT – cloud computing, Big Data and trust. We have grown EMC profitably, expanded our portfolio of products and services into new markets, and established our reputation for quality and providing customers with the very best total experience in the industry. Looking ahead, we remain on track to deliver our 'triple play' – simultaneously taking market share, reinvesting for growth and delivering improved earnings – and are well positioned for our next major phase of growth."

Second-Quarter Highlights

In the second quarter, revenue from EMC's Information Storage business increased 7% year over year. Within this, revenue from EMC's networked storage platforms portfolio³, which includes EMC's high-end and mid-tier storage platform products, grew 7% year over year. Revenue from EMC's high-end Symmetrix storage product portfolio increased 3% compared with the year-ago quarter, and revenue

CIMdata PLM Industry Summary

from the company's portfolio of mid-tier storage products⁴ increased 10% year over year, the result of year-over-year growth across EMC's major mid-tier product lines.

Second-quarter highlights included continued customer demand for EMC's Isilon scale-out NAS portfolio, VNX unified storage family, Backup Recovery Systems (BRS) portfolio, and VMAX systems family. Customers also continued to increasingly turn to EMC's Greenplum portfolio to gain greater insight and value from their data. Second-quarter revenue from EMC's RSA Information Security business increased 13% year over year and revenue from VMware (NYSE: VMW), the global leader in virtualization and cloud infrastructure, grew 22% year over year. Additionally, EMC continued to experience strong customer demand for its broad portfolio of services to help customers transform their IT and business. Finally, Vblock Converged Infrastructure Platforms from VCE – the Virtual Computing Environment Company formed by Cisco and EMC with investments from VMware and Intel – also gained traction in enterprise data centers and with cloud service providers as demand continued to show very strong growth in the second quarter.

EMC's consolidated second-quarter revenue from the United States increased 14% year over year to \$2.9 billion, representing 54% of consolidated second-quarter revenue. Revenue from EMC's business operations outside of the United States increased 5% year over year to \$2.5 billion and represented 46% of consolidated second-quarter revenue.

To view an unabridged version of this press release, visit: <http://www.emc.com/about/news/press/2012/20120724-earnings.htm>

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Fujitsu Reports Fiscal 2012 First-Quarter Financial Results

27 July 2012

Fujitsu today reported a consolidated net loss of 23.7 billion yen (US\$300 million) for the first quarter of fiscal 2012, representing a deterioration of 3.3 billion yen from the first quarter of fiscal 2011. The first quarter loss was in line with April projections, and no change has been made to full-year projections for increased income.

First quarter consolidated net sales totaled 957.3 billion yen (US\$12,118 million), a decline of 2.9% from the corresponding period of the previous fiscal year. On a constant currency basis, sales were essentially unchanged from the previous year. Sales in Japan for the quarter remained on par with those of the first quarter of fiscal 2011. While Fujitsu reported lower sales of mobile phones and LSI devices, sales of car audio and navigation systems recovered following sluggish demand in the first quarter of fiscal 2011, when sales were adversely impacted by the Great East Japan Earthquake. Sales of network products also increased. Outside Japan, despite the positive effects of higher sales for car audio and navigation systems, net sales declined by 7.6% due to lower sales of optical transmission systems in the US and lower sales of UNIX servers.

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Fujitsu recorded an operating loss of 25.0 billion yen (US\$316 million), representing a deterioration of 7.9 billion yen compared to the first quarter of fiscal 2011. This was the result of overall lower sales of LSI devices and optical transmission systems, as well as rising procurement costs associated with obtaining certain dollar-denominated parts and components in Europe, where the euro has weakened against the US dollar. Furthermore, despite a decline in R&D costs, primarily for mobile phones, there were continued upfront investments in areas such as network products.

Fujitsu also recorded a loss of 24.9 billion yen in income before income taxes and minority interests, a year-on-year improvement of 1.4 billion yen. Other income and expenses were essentially break even, representing an improvement of 9.3 billion yen, primarily due to lower foreign exchange losses and the fact that, in the first quarter of fiscal 2011, Fujitsu recorded disaster-related losses of 7.5 billion yen stemming from the aftermath of the earthquake.

“We are moving away from a defensive stance to go on the offensive, and we will challenge ourselves to achieve further growth. Moving forward, we will continue to go on offense with structural reforms, accelerate globalization, and create new services businesses,” commented Masami Yamamoto, President of Fujitsu.

To read an unabridged version of this press release, visit: <http://www.fujitsu.com/global/news/pr/archives/month/2012/20120727-01.html>

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Geometric Declares Revenues of Over Rs. 2600 Mn

23 July 2012

[Geometric Limited](#) Ltd. announced its Q1 financial results for FY 2012-2013 at the board meeting held today.

Highlights for the quarter ended June 30, 2012 (Q1 FY13)

- The USD revenues of the company rose to USD 47.8 Mn, an increase of 6.4% from Q4FY12 revenues of USD 44.92 Mn and of 23.9% from Q1FY12 revenues of USD 38.59 Mn In Rupee terms, the company’s consolidated revenues increased 16% and 51 % from Q4FY12 revenues of Rs. 2249.30 and Q1FY12 revenues of Rs. 1726.89 Mn respectively to Rs. 2608.07 Mn this quarter, due to the favorable movement of the Rupee
- The company’s operating profits more than doubled to Rs. 444.18 Mn from Rs. 199.25 last quarter, and were more than four times the Q1FY12 profits of Rs. 99.76 Mn
- PAT stood at Rs. 206.60 Mn as against Rs. 127.69 Mn in the previous quarter and Rs. 117.41 Mn in the same quarter last year, a rise of 61.80% q-o-q and 76% y-o-y
- Improvements in contribution margin (in constant currency terms) from 32.7% in Q4FY12 to 36% in the current quarter

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- Management consulting fees of over Rs. 85 Mn were also accounted for this quarter, and the final installment of these fees will be paid in Q2FY13
- Positive impact due to subsidiary revaluation caused by exchange rate volatility was approximately Rs. 95 Mn
- Signed new deals worth USD 10.34 Mn
- EPS of Rs 3.3, as against Rs.2.04 in Q4FY12

Mr. Manu Parpia, Managing Director & CEO, Geometric Limited said, “We continue to see reasonable demand for our services and solutions, in spite of uncertain economic conditions. I believe our efforts over the last 12 months have had a positive impact on our Contribution Margin. We were able to improve these despite salary raises in line with the market in our Indian operations.”

The company had a total employee strength of over 4600 employees as of June 30, 2012, including its subsidiaries.

Key wins and additional business highlights for Q1 FY13

The company added 6 new customers during Q1, and signed some significant deals this quarter including:

- Should costing services engagement with the construction equipment division of European offhighway OEM
- Design engineering services to a global leader in air filtration systems Digital Manufacturing project with an industrial robotics major to support BIW cells for leading automotive OEMs in USA and South America
- Expansion of an engagement with an American agricultural equipment company to support their product engineering needs in Germany
- PLM application migration and upgrade project with a Swedish manufacturer of industrial equipment
- PLM application management services for an Indian automotive major Application maintenance and support project with an oil and gas technology equipment manufacturing and services company
- Multiple product development and services engagements with a leading PLM ISV
- PLM implementation project for an electrical systems and services provider for the transport industry in North America Other important business highlights for the quarter include:

Other important business highlights for the quarter include:

- Strategic alliance with DIPRO, a leading provider of solution and services for CAD/CAM/CAE and BOM/PDM, to jointly tap the Japanese market and create an offshore COE
- Partner with Anark Corp. to launch a new 3D Model Based Enterprise (MBE) authoring and viewing solution, Anark Core™ MBEWeb™
- Established a new delivery facility in an SEZ in Pune

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- Formed a consulting group to bring in a solution-based approach in all customer engagements and suggest unique architectures and solutions to meet customer objectives
- Launched a new Nesting module for its leading CAM software, CAMWorks®
- Released DFMPPro® version 3.2 for PTC® Creo® design software with configurable assembly checks for clearance and interference

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Lectra: First Half 2012

26 July 2012

Today, Lectra's Board of Directors, chaired by André Harari, reviewed the consolidated financial statements for the first half of 2012, after a limited review by the Statutory Auditors.

(Unless stated otherwise, comparisons between 2012 and 2011 are like-for-like.)

Q2 2011: Orders Still Slowed by Persistently Weakened Economic Conditions

Business conditions further weakened in the second quarter of 2012, and economic downturn in many developed and emerging countries. Against this background, customers were increasingly hesitant to place new orders, with orders for new software licenses and CAD/CAM equipment down 20% compared to Q2 2011, at €17.7 million.

Sales of spare parts and consumables were down 2% at €1.2 million, reflecting a contraction in customers' production volumes.

Revenues (€1.7 million) were down 6% (-1% at actual exchange rates). Revenues from new systems sales (€3.4 million) were down 14% while recurring revenues (€28.3 million) rose 1%.

Income from operations (€5.5 million) was down €3.1 million (-41%) and the operating margin decreased by 5.4 percentage points to 10.6%. At actual exchange rates, income from operations was down €1.9 million (-26%) and the operating margin decreased by 3.6 percentage points.

Net income (€3.6 million) was down €1.5 million (-30%) at actual exchange rates.

The Company's Transformation Plan is Proceeding as Intended

Despite the prevailing economic conditions, the company has decided to give precedence in 2012 to its long-term strategy rather than to profitability, strengthening its sales and marketing teams and pursuing its steadfast investment in R&D over the period 2012-2013.

This plan is proceeding as intended and its effects will start to be felt in full from 2014 onward,

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positioning the company to fully realize its growth potential in its most promising geographic markets and market sectors, once the economic crisis is over, whereas the corresponding expenses are accounted for in 2012 fixed overhead costs.

Launch of the New Generation of Vector Cutters

On July 2, Lectra announced the launch of its new generation of Vector automated cutters for fabric as well as composite materials. Lectra has dedicated exceptional resources to its development, giving birth to a complete, integrated and unique offer enabling customers to benefit from better control and optimization of their production, which in turn increases their competitiveness and profitability.

The company had previously launched the new Versalis range of leather cutters for the leather goods industry in mid-2011, for the automotive industry at the end of 2011, and at the beginning of 2012 for furniture.

First-Half 2012: Financial Results Ahead of Company Expectations

Revenues and income hypotheses for the fiscal year formulated by the company on February 9, 2012, assumed that economic conditions would remain as weak as in Q4 2011 until June 30. Its roadmap anticipated, for the first-half, revenues of €5 million and income from operations of €7.2 million.

Orders

Orders for new software licenses and CAD/CAM equipment (€6.7 million) are down 18% relative to first-half 2011.

They increased by 8% in North America but were down 30% in South America, making a decline of 5% for the Americas as a whole. Orders fell by 14% in Europe, and by 34% in the Asia-Pacific region; they rose 16% in the rest of the world (Northern Africa, South Africa, Turkey, the Middle East, etc.).

Orders in emerging countries fell by 13%, though they remain predominant with 54% of total orders. Orders in developed countries were down 22% and represent 46% of total orders. The decline in orders affected all market sectors: orders were down 16% in fashion, 19% in automotive, 20% in furniture, and 18% in the other industries.

Revenues

First-half 2012 revenues (€9.5 million) were down 6% like-for-like (-3% at actual exchange rates). Revenues from new systems sales (€4.3.6 million) were down 15% and represented 44% of total revenues (48% in 2011). Recurring revenues (€5.9 million) increased €1.1 million (+2%) resulting from a 4% increase in recurring contracts, while revenues from spare parts and consumables remained stable.

The order backlog for new software licenses and CAD/CAM equipment at June 30, 2012 was down €2.2

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million relative to January 1, at €8.3 million.

Income from Operations and Net Income

The overall gross profit margin worked out to 72.6%. Like-for-like, it came to 72%, up 1.6 percentage points relative to first-half 2011 (70.4%). This increase results from a combination of the change in product mix and the increased gross profit margin on all product lines.

Income from operations (€9.3 million) decreased €5.1 million (-40%) and the operating margin (9.4%) decreased 4.5 percentage points. At actual exchange rates, the decline was €3.5 million (-28%) and 3.2 percentage points.

Net income (€6.3 million) decreased 29% at actual exchange rates. Net earnings per share on basic capital were €0.22 and on diluted capital €0.21 (€0.31 and €0.30 in first-half 2011).

To read an unabridged version of this press release,
visit: http://www.lectra.com/binaries/Lectra_PressRelease_FH2012_tcm31-204440.pdf

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Nemetschek Shows Continuity of Results in the 1st Half Year

25 July 2012

Nemetschek AG today published its interim report on the first half year 2012.

Group revenue climbed according to this by 7 percent to Euro 84.4 million, whereby the foreign revenues and the revenue share from software service contracts increased over-proportionally. The result before interest, taxes and depreciation (EBITDA) of EUR 18.2 million was at the prior year level. Growth of the Group was especially positive in the Asian markets.

"We can basically observe a solid first half year. However, our largest subsidiary - Nemetschek Allplan, which was below budget, impacted this development negatively", commented Tanja Tamara Dreilich, Chief Financial Officer of Nemetschek AG, on the results. "Therefore, the managing board decided on an extensive new orientation of Allplan. During the third quarter we will comment in detail on the planned steps."

The reasons for the recent unsatisfactory corporate development for Allplan are, on the one hand, the negative development of the construction industry in parts of Europe. This had an impact on the revenue growth of Allplan. On the other hand, the generation of new revenues was more labour intensive which burdened the earnings situation of Allplan.

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With effect from July 1, 2012 a change in the management of Nemetschek Allplan was already made in this context. With Sven Larsen and Ales Siroky the new orientation is now being managed by an experienced executive team. "In the next few weeks we will work out a concept for the new orientation together with the new management of Allpla", explains Dreilich. "The goal is to lead Allplan to new profitability and strong growth."

The complete report on company development in the first half year can be found on the internet pages of the company at www.nemetschek.com/home/investor_relations/publikationen.html ready for downloading.

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PTC Announces Solid Q3 Results, Increases FY'12 EPS Guidance

26 July 2012

[PTC](#) today reported results for its third fiscal quarter ended June 30, 2012.

Highlights

- Q3 Results:
 - Non-GAAP revenue of \$311.2 million, up 6% year over year (10% on a constant currency basis)
 - Non-GAAP EPS of \$0.37, up 16% year over year (24% on a constant currency basis)
 - GAAP revenue of \$311.0 million and GAAP EPS of \$0.19, including a \$4.1 million restructuring charge
 - Revenue contribution from MKS (acquired on May 31, 2011) and 4CS Solutions (acquired on September 2, 2011) was \$20.5 million on a non-GAAP basis and \$20.3 million on a GAAP basis
 - Non-GAAP operating margin of 18.6%; GAAP operating margin of 10.0%
 - Relative to Q3 guidance assumptions, currency had no material effect on reported results
- Q4 Guidance:
 - Revenue of \$320 to \$335 million and non-GAAP EPS of \$0.44 to \$0.50
 - License revenue of \$100 to \$115 million
 - Revenue guidance assumes \$1.20 USD / EURO, down from previous assumption of \$1.30; an approximate \$10 million negative impact to Q4 revenue guidance (\$3 to \$4 million license revenue impact)
 - Approximate \$1 million quarterly expense benefit from restructuring in Q3'12
 - GAAP EPS of \$0.33 to \$0.39
- FY'12 Targets:

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- Updated targets primarily reflect the impact of currency relative to previous guidance assumptions
- Non-GAAP revenue of \$1,255 to \$1,270 million and non-GAAP EPS of \$1.46 to \$1.52
- License revenue of approximately \$355 million
- Non-GAAP operating margin of approximately 19.5%
- GAAP revenue of \$1,252 to \$1,267 million and GAAP EPS of \$0.73 to \$0.80, including a \$24.9 million restructuring charge, and GAAP operating margin of approximately 10.0%.

The Q3 non-GAAP revenue results exclude a \$0.2 million effect of purchase accounting on the fair value of the acquired deferred maintenance balance of MKS Inc. The Q3 non-GAAP EPS results also exclude \$13.3 million of stock-based compensation expense, \$9.0 million of acquisition-related intangible asset amortization, \$4.1 million of restructuring charges, and \$5.3 million of income tax adjustments. The Q3 results include a non-GAAP tax rate of 23%, a GAAP tax rate of 26% and 121 million diluted shares outstanding.

Results Commentary

James Heppelmann, president and chief executive officer, commented, “PTC delivered solid operating results, with Q3 non-GAAP revenue toward the higher end of our guidance range and non-GAAP EPS exceeding the high end of our guidance range. Our license revenue of \$83.8 million was up 7% year over year on a constant currency basis. Organic license revenue increased 1% year over year on a constant currency basis reflecting very strong comparable results in Q3’11 – particularly in our MCAD business. From a geographic perspective, Europe continued to perform in line with our expectations and the Pac Rim and Japan delivered strong results. While Americas performance lagged other geographies in Q3, our pipeline continues to build and we are optimistic about the outlook for this region in Q4’12.” Reported license revenue was up 3% year over year and reported organic license revenue was down 3% year over year.

Heppelmann added, “We had 34 large deals (recognition of license + services revenue of more than \$1 million from a single customer) in Q3’12, compared to 25 in Q2’12. We believe this is an indicator of the strength of our pipeline for business opportunities with new and existing customers. During the quarter we recognized revenue from leading organizations such as FAW Group, Jenoptick, KTM-Sportmotorcycle AG, Levi Strauss, Samsung, Stryker, US Navy and Volvo.”

Heppelmann continued, “We are excited about the market momentum we are seeing and remain committed to driving margin expansion. In spite of weaker macroeconomic conditions and currency headwinds (currency alone could negatively impact FY’13 revenues by approximately \$40 million) we are targeting FY’13 non-GAAP EPS of \$1.70 to \$1.80.” We will provide formal FY’13 guidance in conjunction with our Q4 results in October.

Jeff Glidden, chief financial officer, commented, “From a profitability standpoint, Q3 was another solid quarter with a good mix of revenue, strong services margins, and lower operating expenses as we remained disciplined on hiring and spending. We delivered \$0.37 non-GAAP EPS, an increase of 16%

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from \$0.32 non-GAAP EPS in Q3'11. We ended Q3'12 with \$238 million of cash up from \$224 million at the end of Q2'12, reflecting strong operating cash flow, offset by \$20 million used to repay our revolving credit facility and \$20 million for stock repurchases.”

Q3 Earnings Conference Call and Webcast

Prepared remarks for the conference call have been posted to the investor relations section of our website. The prepared remarks will not be read live; the call will be primarily Q&A.

What: PTC Fiscal Q3 Conference Call and Webcast

When: Thursday, July 26th, 2012 at 8:30 am (ET)

1-800-857-5592 or 1-773-799-3757

Dial-in: Call Leader: James Heppelmann

Passcode: PTC

Webcast: www.ptc.com/for/investors.htm

The audio replay of this event will be archived for public replay until 4:00 pm (CT) on

Replay: August 6, 2012 at 1-866-393-0874. To access the replay via webcast, please visit www.ptc.com/for/investors.htm.

To view an unabridged version of this press release, visit: <http://www.businesswire.com/news/home/20120725006741/en/PTC-Announces-Solid-Q3-Results-Increases-FY%E2%80%9912>

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SAP Announces Best Ever Second Quarter Performance – Exceeding €1 Billion in Software Revenue

24 July 2012

[SAP AG](#) today announced its financial results for the second quarter ended June 30, 2012.

Business Highlights in the Second Quarter

SAP achieved record software revenue in the second quarter, exceeding €1 billion. All regions posted double-digit software revenue gains. Demand for SAP's new innovation categories continued to accelerate: Cloud momentum continued with a 112% increase year-on-year in 12 month new and upsell subscription billings for SuccessFactors on a stand-alone basis. SAP's strong combination with SuccessFactors is allowing the company to accelerate its strategy to become the leading cloud provider. SAP recorded €85 million in SAP HANA revenue putting the company on track to meet full-year expectations of at least €320 million. Mobile revenue was €54 million and keeps SAP on track to meet full-year expectations of €220 million. SAP also saw significant traction in strategic industries, with financial services and retail both growing more than 60 percent in software revenue, and solid growth across the manufacturing sectors, which grew more than 20 percent in software revenue.

„Our customer-focused innovation strategy is delivering exceptional business value for our customers and driving record results for SAP in an uncertain macro-economic environment,” said SAP Co-CEOs Bill McDermott and Jim Hagemann Snabe. “SAP stands apart in its ability to bring its customers innovations in cloud, mobile and in-memory computing on top of a proven, consistent and stable core. We will continue to provide game-changing solutions and remain on track to achieve our 2015 goals. “

„We reached the upper end of our second quarter software revenue guidance range and were at the mid-point of the software and software-related service revenue guidance range,” said Werner Brandt, CFO of SAP. “With this momentum in the first half of 2012 and our focused commitment to operational excellence we are on track to deliver on our targets for the full-year 2012 – in line with our 2015 goals.“

To view an unabridged version of this press release, visit: <http://www.sap.com/news-reader/index.epx?category=ALL&articleID=19346&page=1&pageSize=10>

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Implementation Investments

GHENOVA Ingeniería Selects AVEVA Marine

24 July 2012

AVEVA announced today AVEVA Marine has been selected for implementation by GHENOVA Ingeniería, an International Engineering Company. This follows the signing of a contract between GHENOVA and STX Promar Shipyard. This contract allows the detailed engineering of eight LPG tankers for Transpetro, Petrobras’ logistics and fuel transportation company. The agreement consists of products from the AVEVA Marine portfolio (Hull, Outfitting, Cable Design) and AVEVA Global.

“This is an entirely new project for us, so it was essential to select a 3D engineering and design tool that could deliver true strategic value”, said Francisco José Cuervas, General Director, GHENOVA. “AVEVA Marine met all the requirements that the client set out, making it the ideal choice for our important LPG tanker project. The integrated AVEVA Marine applications will help us to save many hours during the design phase, allowing an efficient and accurate model to be delivered to our customer.”

Rui Miguel de Sousa, Brazilian branch Director, GHENOVA Brasil added, “The AVEVA solution was subjected to a rigorous tender process and its integrated hull and outfitting design capability stood out against the competition. It will enable us to have clash-free, production-oriented design. We are confident this will help us achieve reduced rework and deliver the highest quality designs. With concurrent global project execution we can also ensure that all sites and users have access to the latest approved data, right down to attribute details.”

“It’s very rewarding to see GHENOVA select AVEVA Marine for such a large and high-profile LPG

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carrier's project. This is a comprehensive implementation of the AVEVA Marine portfolio, employing many of our applications," said Santiago Pena, Senior Vice President - Latin America, AVEVA. "With AVEVA Marine, GHENOVA will be adopting our Integrated Engineering & Design approach that enables flexible and effective 3D design and collaborative working. Engineers and designers across all key disciplines and on multiple sites will now be able to work concurrently on a single model database. This will allow them to create, develop, manage and exploit engineering and design data in a very productive way. As we have done in other parts of the world, we are working to roll out AVEVA Marine across the Brazilian Market."

AVEVA Marine is a set of integrated applications created specifically for the unique processes of the engineering and design of ship and offshore structures, design management and the generation of accurate production information. To learn more about AVEVA Marine visit www.aveva.com/marine.

GHENOVA Ingeniería S.L.U., an International Engineering Company has 337 employees in Seville Spain (Head Office), Ferrol Spain, Madrid Spain, Berlin Germany, Rio de Janeiro Brazil and Rotterdam Netherlands. It specialises in Naval Architecture & Marine Engineering, Industrial Engineering, Aerospace Engineering, Civil Engineering and energy engineering.

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McGill Associates Completes Software Overhaul with Help from Advanced Solutions

22 July 2012

McGill Associates enlisted Autodesk Platinum Partner Advanced Solutions, after making a decision transition every AutoCAD Civil 3D user in the company to the 2010 version of the software. As a result, the company, which had been operating on multiple software versions, now estimates that it saves between eight and 24 hours per project.

"At the time we were running Civil 3D 2007 up to 2010. When we started working more between offices, we began to run into efficiency issues," says Leo Smith, McGill Associates IT Administrator. The 118 employee firm provides civil, environmental and electrical engineering; landscape architecture; planning; and public finance services to clients in North Carolina, South Carolina, Tennessee, Georgia and Virginia. Since the initial upgrade, McGill has moved to Autodesk Infrastructure Design Suite 2012, and plans are currently in the works plans are in the works for an upgrade to the 2013 software.

Beyond implementation and training, another driving factor behind McGill's engagement with Advanced Solutions is the five-person help desk available for customer support. "If someone calls me with a CADD question that I can't answer, I tell them to call Advanced Solutions. The technical support team is backed up by several engineers, and I've heard nothing but great feedback," Smith notes. Advanced Solutions' help desk is equipped to streamline the installation and support of the products the company offers and is available free of charge to all subscription customers.

Smith adds that Advanced Solutions has become part of McGill's long-term IT plan. "We will use Advanced Solutions for training each time we upgrade our software." As a result of the training and

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support received on this project, Smith has recommended Advanced Solutions to similarly situated companies, making particular note of the expertise of Advanced Solutions' technical support and engineering teams.

About McGill Associates

McGill Associates, a professional services organization, was established in 1984 and has offices in Asheville, Hickory and Pinehurst, North Carolina; Knoxville, Tennessee. The firm employs a staff of 118 professional and support personnel who have provided civil, environmental and electrical engineering, landscape architecture, planning and public finance services to clients in North Carolina, South Carolina, Tennessee, Georgia and Virginia.

About Advanced Solutions

Advanced Solutions is an Autodesk Platinum Partner with 2D and 3D design software enterprise integration expertise in architecture, engineering, construction (AEC), civil engineering and advanced manufacturing. The company is Autodesk OEM Authorized, bringing added value to customers through certified software customization and business systems integration with the Autodesk Technology Platform. As an Autodesk Authorized Training Center (ATC), the company offers a variety of training solutions including its PILOT program. Since 1987, the company has focused its business model on helping customers realize industry leading return on investment with their 2D and 3D design software. Beyond the box of software, Advanced Solutions helps customers gain a competitive advantage through innovative design software work flows, enabling customers to realize higher revenues and improve their operational efficiency. For additional information about Advanced Solutions, Inc., please visit their website at www.AdvancedSolutions.com.

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Motorsport Cooling System Provider Streamlines Business Processes with Intercad

25 July 2012

Automotive cooling solution provider, PWR Performance Products, has streamlined its business design processes and output as a result of its computer-aided design and manufacturing (CAD/CAM) implementation from Australian specialist, Intercad.

Intercad is an Australian and New Zealand authorised reseller of SolidWorks 3D CAD/CAM technology, supported by a comprehensive portfolio of technical and business services. The company has more than 20 years' experience in the design, engineering and manufacturing industries.

Based in Ormeau, Queensland, in a state-of-the-art manufacturing facility, PWR is in high performance automotive cooling research and development. The Australian family-owned company focuses on performance cooling solutions. As well as servicing the Australian market, the company's products are exported all over the world, with the European, UK and US markets making up 60 per cent of its sales (the company has subsidiaries in the US and UK). The company has become known as a successful motorsport teams world-wide, with seven F1 racing teams using SolidWorks designed state-of-the-art cooling systems. In addition to F1, PWR supplies systems for NASCAR, V8 Supercars, IRL and World

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Rally Championships.

Away from motorsport, the Gold Coast performance company has a strong following with street car enthusiasts and is securing more OEM contracts, including cooling Aston Martin's latest V12 supercar, the One-77.

PWR has always been an early adopter of new technologies and Marshall Vann, PWR's General Manager, says moving to a standardised 3D CAD/CAM design system was just another way to ensure the company remained innovative and competitive.

"No one else in the world offers the end-to-end solution that we have. The factory is purpose built to produce the best radiators," says Vann. "As the business grew, we found it challenging maintaining consistent design, output and processes across the team."

For years, PWR used four different CAD/CAM softwares to design its in-demand radiators and cooling systems. Vann said that this was not an ideal scenario in terms of making the company work efficiently. PWR decided 18 months ago to review its processes and move to a common platform.

"We have 10,000 legacy drawings from the old CAD systems. Our aim has never been to re-do 10,000 drawings. As new drawings need to be done, they are created on SolidWorks. This way, we are getting the consistency we need across the business," said Vann.

When purchasing SolidWorks, PWR also invested in training from InterCAD to ensure its staff quickly got to a high level of proficiency.

"The transition to SolidWorks was smooth, people picked it up quickly and the training certainly helped. Now no one uses anything but SolidWorks for new work, and the team is able to discuss projects over a common platform. We have achieved our business objective of streamlining processes for better business productivity, and, in turn, are able to better service our customers," said Vann.

"Another benefit we gained from standardising on SolidWorks, that was not originally considered, was the ability to easily find skilled design staff who were proficient on the platform. This has also helped our business significantly, as there is little down time in the handover process," added Vann.

PWR is building a state-of-the-art heat exchanger wind tunnel that simulates track and road conditions for testing purposes. To maintain its industry leadership position, and keep up with high-level racing teams, the company decided 12 months ago to invest in an even bigger wind tunnel to keep it at the leading edge of development.

"We are using SolidWorks to design what will be the most powerful wind tunnel of its type in the world."

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The heat it will generate, the wind that we will be able to push through it, the size that it can test – all these things together will make it the most powerful testing tool in the world," said Vann. "It will be available for race teams and the like to use."

"It has become increasingly difficult for local manufacturers to compete against cheaper, imported goods. It is great to see an Australian company competing based on the quality and strength of its designs, exporting to key industries where it maintains its reputation as a manufacturer of reliable, leading-edge products," said Max Piper, CEO, Intercad.

About Intercad Pty Ltd

Intercad Pty Ltd is a distributor of SolidWorks in Australia and New Zealand. Intercad Pty Ltd specialises in Mechanical Computer-Aided Engineering, Computer-Aided Design and Computer-Aided Manufacturing (MCAE/CAD/PDM/FEA) solutions. Established in 1987 with offices in each major state capital in Australia and in New Zealand, its core activities include software sales, technical support, training and consulting services. For more information please visit www.intercad.com.au

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Roof for Two Uses SolidWorks Software to Design Roof for Motorcyclists

24 July 2012

India, which boasts the largest percentage of motorcycle riders in the world, is notorious for busy roads. Relying on open-air transportation is especially dangerous during monsoon season, when riders risk low visibility and harsh weather conditions during every day travel. This is why [Roof For Two LLC](#) decided to develop a new product using SolidWorks® 3D design software, with support from [FISHER/UNITECH](#), a SolidWorks Value Added Reseller.

Roof For Two, founded by a group of Tufts University graduates in 2011, solves the discomfort and complications associated with riding in inclement weather faced by millions of South Asian motorcyclists and their families year-round. The solution is a bike roof that is mounted on a motorcycle to shield riders from wet weather, as well as heat and cold.

The collapsible, detachable roof was designed to be pulled over a motorcycle in a few seconds to protect the rider from heavy rain. The mounting system is comprised of several metals, including steel and aluminum. The design team at Roof For Two used SolidWorks Professional, SolidWorks Simulation, and SolidWorks Flow Simulation to create the entire frame, define the shape of the canopy, and prepare it for fabrication.

"We've essentially created a sleek portable 'tent' that easily attaches to a motorcycle," said David Chen, co-founder and head of product development for Roof For Two. "When taking on a project like this, it's

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important to weigh all factors, including air flow. This consideration made SolidWorks Simulation a critical tool for us, as we determined how the product would stand up to wind, rain, and other drivers; it is the key to design integrity and safety.”

Using SolidWorks Flow Simulation, the Roof For Two team determined how air flows around different parts of the design to keep the solution aerodynamic. SolidWorks Simulation allowed the team to test stresses and impact of load on the mounts to assess whether reinforcements were needed. Additionally, the ability to visualize the product in 3D was crucial to finishing the overall concept, as the design sits on top of an existing vehicle.

“The work that Roof For Two is doing in South Asia is commendable—and difficult,” said Jenny Giolas, Regional Technical Manager, FISHER/UNITECH. “With a complex design created, simulated and fabricated from the ground up, Roof For Two put a lot on the line when it decided to bring this design to market. We’re proud to be an integral part of a solution that will affect so many lives.”

The Roof For Two canopy is currently in beta testing, and is expected to go to market in Spring 2013. More information is available at: <http://www.rooffortwo.com/>

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SAIC Motor Uses Simulink to Develop Embedded Control System for the Roewe 750 Hybrid Sedan 25 July 2012

[MathWorks](#) today announced that [SAIC Motor Corporation](#) developed the hybrid control unit (HCU) for the Roewe 750 hybrid sedan by using [Model-Based Design](#) with [Simulink](#), [Stateflow](#), and [Embedded Coder](#). This design approach enabled SAIC Motors to model, simulate, verify, and automatically generate production code for the HCU, completing its development in-house in 25% less time than originally estimated.

By applying Model-Based Design with Simulink and Stateflow, SAIC Motor engineers were able to model and refine the control algorithms for the HCU by running multiple simulations to evaluate different powertrain system configurations and compare each configuration’s effect on fuel economy and drivability. Because the vehicle and several key components, including the battery and motor, were being developed concurrently, this approach also eliminated the misunderstandings that typically arise from interpreting written specification documents. In addition, Embedded Coder automatically generated 98% of the production code, helping to minimize hand-coding errors and allowing for fast updates of multiple modules. The team developed a systematic verification process that used [Simulink Verification and Validation](#) to enforce modeling standards. This process enabled them to find and fix errors earlier in the design process, which reduced reliance on in-car testing, saved time, and cut project costs.

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“Three years ago, SAIC Motor did not have rich experience developing embedded control software. With some team members new to embedded development, we needed an industry-proven approach,” said Jun Zhu, general manager of Shanghai E-propulsion Auto Technology Co., the SAIC Motor subsidiary that develops electric and hybrid propulsion technologies. “We chose Model-Based Design because it is a proven and efficient development method. This approach helped us develop the highly complex HCU control logic and complete the project ahead of schedule.”

“SAIC Motor’s HCU development project is a great example of how Model-Based Design has enabled automotive companies in emerging markets to develop core IP,” said Jon Friedman, automotive industry marketing manager at MathWorks. “Model-Based Design works as a common platform for different groups, offering a single development environment from requirements through implementation and verification.”

The complex control logic in the Roewe 750 Hybrid Sedan HCU, which coordinates the electric motor and engine, has been vital to SAIC Motors in achieving its goal of improving fuel economy and emissions over the nonhybrid version. With this success, the SAIC Motor team is now using Model-Based Design on new energy vehicle programs, including the Roewe 550 strong hybrid and an electric vehicle.

More details on SAIC Motor’s use of MATLAB and Simulink can be found in the user story “[SAIC Motor Develops Embedded Control System for the Roewe 750 Hybrid Sedan](#).”

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SofTech Product Selected by General Dynamics SATCOM Technologies

25 July 2012

SofTech, Inc. announced that its ProductCenter® PLM solution has been selected for use at the General Dynamics SATCOM Technologies’ Richardson, Texas facility.

ProductCenter streamlines engineering documentation processes and supports multi-CAD tool integrations and the vaulting of product related data. ProductCenter also enables Engineering to manage the Bill of Material (BOM) for improved efficiency in product manufacturing.

Although ProductCenter is focused on the product development processes today, it will be used to manage any document that requires access control and routing to any department and/or individual.

About SofTech’s ProductCenter PLM Solution

ProductCenter PLM is focused on helping companies maintain a comprehensive, fully integrated and useful “Bill of Information” that consolidates all product-related information used to define, design, manufacture, and service their products.

ProductCenter PLM accelerates products and profitability by fostering innovation, extended enterprise collaboration, product quality improvements, and compressed time-to-market cycles. SofTech excels in its sensible approach to delivering enterprise PLM solutions, with comprehensive out-of-the-box capabilities, to meet the needs of manufacturers of all sizes quickly and cost-effectively.

Headquartered in Lowell, Massachusetts, SofTech (www.softech.com) has locations and distribution partners throughout North America, Europe, and Asia.

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Product News

3DA Systems' 3D PDF Converter for Revit Built with Tech Soft 3D's HOOPS Publish

27 July 2012

3DA Systems Inc., developer of smart 3D functions for visualization, communication and project coordination, and Tech Soft 3D, Inc. announce the launch of the 3D PDF Converter for Revit®, developed by 3DA Systems and powered by Tech Soft 3D's HOOPS® Publish. 3DA Systems also licenses Tech Soft 3D's Acrobat® Pro Bundle program, which allows it to combine the 3D PDF Converter for Revit with a seat of Adobe Acrobat® X Pro, creating a convenient, all-in-one package for customers.

The 3D PDF Converter for Revit connects the extensive Building Information Modeling (BIM) community for the first time with a Revit plug-in that supports data sharing using 3D PDF based on the PRC file format. HOOPS Publish provides the same native technology used by Adobe to create and consume 3D PDF files, ensuring that data generated from the 3D PDF Converter for Revit has guaranteed compatibility to Adobe Acrobat and Adobe Reader. The result is accurate, data-rich 3D models that are up to 97% smaller than the original Revit file.

“We recognized that there was an urgent need for Revit users to join the broader movement of 3D data sharing through 3D PDF,” says Michael Schell, President of 3DA Systems. “The 3D PDF Converter for Revit uses HOOPS Publish because it is the only tool that ensures Revit files map precisely to PRC – which is necessary for our customers to display their valuable data with the highest integrity and portability.”

“The 3D PDF Converter for Revit is an exciting new application that fills a real need in the BIM market as the industry is increasingly looking toward 3D PDF as the preferred method to view and share design and construction data,” says Gavin Bridgeman, VP of SDK Products, Tech Soft 3D.

To learn more about the 3D PDF movement, visit www.3DPDFconsortium.org

About 3DA Systems

3DA Systems Inc. provides intuitive and interactive user interfaces that allow users to browse detailed

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object information from Autodesk Revit® Architecture, Revit® MEP, and Revit® Structure models. 3DA's robust 3D environment creates dynamic views for easy navigation of the building model. With various tools, 3DA aims to effectively improve communication and coordination between designers, builders, and clients. Visit www.3dasystems.com to learn more.

About Tech Soft 3D

Tech Soft 3D is the leading global provider of premier component technologies and related services that enable software developers to rapidly create world-class technical software. The company develops the HOOPS Product Suite, consisting of HOOPS Visualize, HOOPS Exchange and HOOPS Publish, SDKs for visualization, CAD data import/export and 3D PDF publishing respectively. It also resells premium components such as the Autodesk RealDWG® Toolkit and AutoCAD® OEM platform, Adobe PDF Library and Acrobat Pro Bundle, and the Parasolid® Modeling Kernel from Siemens PLM Software. Tech Soft 3D technologies are used in nearly 500 applications worldwide. The company can be reached through <http://www.techsoft3d.com>

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Autodesk Inventor Fusion for Mac Debuts on the Mac App Store

25 July 2012

[Autodesk, Inc.](#) has announced that Autodesk Inventor Fusion technology for 3D CAD modeling is now available for download in the Mac App Store for the first time. Autodesk Inventor Fusion for Mac takes advantage of new OS X Mountain Lion capabilities to help increase productivity and transform how designers share designs and receive feedback, whether in face-to-face meetings or participating in social communities.

From hobbyists working in their garages to professional designers of machinery, Autodesk Inventor Fusion lets designers freely explore complex shapes and forms, enabling rapid design changes with fewer limitations. Its intuitive 3D direct manipulation tools allow users to open and edit 3D models from almost any source and incorporate them into new or existing designs.

“Autodesk’s direct modeling technology changed the game in ease of use for 3D CAD design,” said Robert “Buzz” Kross, senior vice president, Design, Lifecycle and Simulation at Autodesk. “With Autodesk Inventor Fusion for Mac, we are excited to bring the same disruptive innovation to users of Apple’s newest OS X Mountain Lion.”

Available through the Mac App Store, Autodesk Inventor Fusion’s key features include:

- 2D Sketching – Start designs by using simple 2D sketch tools and control sketches with dimensions. Users can generate multiple shapes fast with 2D layouts.
- Direct Modeling – Users can more easily push, pull and edit to reach the final desired result. Direct modeling helps users focus on the design task and not on complex modeling commands and dialogs. Autodesk Inventor Fusion technology is a history-free 3D design tool.

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- Assembly design – Assemblies that mimic the real world make positioning and moving the design fast and predictable. Designing in context provides users with information to help make better design decisions. Flexible assembly structure ensures that users can make changes at any time.
- Real-Time Visualization – Beautiful 3D and fast real-time navigation make it easier to create and present designs.
- Cloud Storage – Store and share designs using Autodesk 360 collaboration service. Users can view designs on the go with Autodesk Viewers for iOS or WebGL-enabled browsers.

Autodesk Inventor Fusion technology for Mac was created with Apple's latest OS X in mind and takes advantage of new features in Mountain Lion including:

- Notification Center – Autodesk Inventor Fusion technology for Mac works with Autodesk 360 cloud services and Mountain Lion's Notification Center so that users can receive notifications when files are edited, updated and more.
- Sharing – Users can communicate more easily with colleagues, clients and friends to show off their designs or request feedback via iMessage, email and Twitter by using the Share button in Mountain Lion.
- AirPlay Mirroring – Users can take charge in meetings with clients and colleagues by sharing the designs on the big screen with AirPlay Mirroring in Mountain Lion.

Autodesk Inventor Fusion for Mac additionally helps users leverage their 3D CAD modeling in Full Screen to help maximize productivity and bring design to the forefront.

The software is fully interoperable with [AutoCAD](#) and [Autodesk Inventor software](#) and a variety of other Autodesk and third party CAD tools.

Autodesk has also created a [Wiki Help Site](#) for Autodesk Inventor Fusion for Mac, designed to help users more effectively collaborate, troubleshoot and take advantage of this Mac-compatible release. Users can add or edit Help information, while also sharing videos, best practices, tips and tricks, tutorials and more.

Autodesk Inventor Fusion for Mac is available as a free download, in English, in the Mac App Store. For more information and to download Autodesk Inventor Fusion for Mac, visit the [Mac App Store](#).

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Geometric Launches Pay-Per-Use Online Nesting Software

26 July 2012

[Geometric Limited](#) today announced the release of [NestLibOnline](#), an online nesting solution for efficient material optimization.

NestlibOnline is a cost effective pay-per-use, true shape automatic nesting software designed to optimize material utilization, while fitting two-dimensional shapes on larger 2D sheets. Nested layouts are instantly generated once the 2D DXF parts are uploaded and the desired sheet sizes for nesting are selected. The results are then displayed in PDF or DXF formats.

NestLibOnline is an ideal solution for occasional users who require software that can perform nesting as well as optimization of parts quickly and automatically along with optimal material usage. This software is beneficial for cabinet and furniture makers, carpenters and wood working consultants, small factories with sheet metal and wood cutting machinery, foam product manufacturers, engraving/sign makers, textile and leather product manufacturers, product costing professionals, and packaging product manufacturers.

Simple to use, NestLibOnline requires no installation, no plug-ins or high upfront payment. The nesting jobs can be queued without waiting for the nesting process and the nesting report is automatically sent to the user's email ID. A 30-days free PDF evaluation version is available on the website. For more information, please visit <http://www.nestlibonline.com>

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Geomagic Releases New Freeform and Claytools 3D Modeling Software

25 July 2012

[Geomagic](#)[®] announced that it has released two new versions of software from its Sensable Group's 3D modeling product lines – [Freeform](#)[®] v12 SP2 and [Claytools](#)[®] v4. These new releases are the first since Geomagic's April 2012 acquisition of [Sensable Technologies](#), Inc., and the Freeform Plus release is the first instance of incorporating Geomagic technology into a Sensable 3D modeling product.

[Freeform v12](#) SP2 is an update release to v12 which shipped earlier this year with key features and usability enhancements that allow customers to save significant time and effort when designing highly detailed and complex organic models. It adds support for 3D Connexion's SpacePilot Pro and SpaceMouse Pro, which can be used in addition to Sensable's force feedback haptic device, to allow for enhanced 3D manipulation. Additionally, Freeform Plus users now have advanced auto-surfacing capabilities, incorporated from [Geomagic Studio](#). Autosurfacing is used to convert Freeform's voxel or polygonal models into solid and surface models, so they can be imported into traditional CAD engineering programs such as Dassault's SolidWorks[®], PTC's Creo[®], or into CAM products for tool path generation.

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"I am impressed with the way that Geomagic's surfacing capabilities are now incorporated into Freeform Plus," said Nancy Hairston, principal of [SculptCAD](#) in Dallas, Texas. "This combines the industry's best surfacing product with the world's best organic sculpting product. It's fast and produces excellent results, especially on thin objects and highly detailed areas which can be difficult to handle." She adds, "It's a fantastic combination making Freeform that much stronger and efficient. We look forward to seeing additional integration of the Sensable and Geomagic products lines moving forward."

[Claytools v4](#) is a new release of the organic 3D modeling software targeted at sculptors, prototypers, model makers, jewelry designers and digital content creators. New features make it even easier to achieve complex, organic designs, including:

- Curve Spheres – replicating the sculptor's real world armature, allows designers and sculptors to quickly create volumetric models controlled by an underlying curve skeleton. Allowing quick volume studies, fast re-posing and base model generation.
- New Mesh tools, such as Mesh Division, allow a toy designer, for example, to take an animated character model that is highly faceted, and in 1 or 2 clicks replace the facets with a smooth surface ready for production.
- Paint – ability to paint models and project or map imported images onto models
- Enhanced Carving tools, a new Pipe tool, improved capabilities for modeling with curves
- Hot Wax Tool – replicating more subtle techniques, this allows sculptors to gain a finer control when sculpting, as well as combining multiple tools into one for a faster, more natural workflow.

"We are creating new ways of working -- where previously impossible tasks are now possible, and new technologies are changing the way products are created and manufactured," said Joan Lockhart, vice president of sales and marketing, Geomagic Sensable Group. "Products like Freeform and Claytools make it faster and easier to design great products digitally – freed from the constraints of conventional CAD – and produce them using new additive fabrication methods, or just as easily import them into traditional CAD/CAM formats when needed."

Find out more about Geomagic and its Freeform and Claytools products at www.geomagic.com and www.sensable.com.

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Granta Launch NIMS Creep and Fatigue Data Module, Supporting Energy and Processing Plant Applications

23 July 2012

Granta Design has announced the launch of a new data module providing searchable access to metals property data from Japan's National Institute for Materials Science (NIMS), experts on the long-term behavior of metallic materials. The creep and fatigue characterization data generated by NIMS is important for design, maintenance, and overhaul of, for example, power stations and processing plants.

This data-set results from up to 40 years of continuous testing of metals including steels (e.g., carbon steels, low alloy steels, high chromium steels, and austenitic stainless steels) as well as a wide range of alloys (e.g., Iron-based, Nickel-based, and Cobalt-based alloys). It includes the raw numerical data from detailed creep rupture measurements and fatigue data, which is crucial for materials engineers considering safety and long-term reliability.

The launch of the new data module means that, for the first time, users are able to access and use the underlying raw numerical data as opposed to simply viewing published graphs and figures. The data is now available through the materials information management system, GRANTA MI™, which gives easy web browser-based access and allows users to search, plot, and export data for use in Computer Aided Engineering (CAE). Installing GRANTA MI on a corporate network can also provide fast, integrated, enterprise-wide access to in-house and other reference data, complementing the NIMS dataset.

Dr. Toshio Ogata, Station Director of the Materials Information Station at NIMS, said, "We are delighted that the valuable creep and fatigue data, resulting from many years of research at NIMS, is now more widely accessible. This will help engineers to create safe, secure, and sustainable products and structures."

"We were very pleased to be able to work with NIMS to provide full access to the raw numerical data needed in energy and processing plant applications" commented Granta's Chief Operating Officer, Dr Patrick Coulter. "The availability of this valuable creep and fatigue data within GRANTA MI adds to our range of world-class property data on metals, alloys, and other materials."

ABOUT GRANTA DESIGN

Granta Design Limited are materials information technology experts. Granta develops software for materials information management in engineering enterprises, and teaching resources for materials engineering education. Granta serves sectors as diverse as aerospace, defense, energy, medical devices, automotive, manufacture of consumer and industrial equipment, materials production, and publishing. Customers realize multi-million dollar benefits in reduced cost, enhanced product performance, improved quality, and faster design turnaround. Granta was founded in 1994 as a spinout from the University of Cambridge and the work of Professors Mike Ashby and David Cebon.

Granta: <http://www.grantadesign.com>

ABOUT NIMS

NIMS is Japan's sole Independent Administrative Institution (IAI) specializing in materials science. NIMS was created through the merger of two National Research Institutes, NRIM (National Research Institute of Metals) and NIRIM (National Institute for Research in Inorganic Materials), in April 2001. NIMS is charged with the task of comprehensive management of basic research and development of materials science and to advance the level of expertise in the field. To do this, NIMS also reaches out to other research centers in Japan and around the world. NIMS has its headquarter in Tsukuba, Ibaraki Prefecture, and has research centers some of which focus on special research and international activities. NIMS has 1,489 staff in total (as of Oct.1, 2011. Fixed-term employees included).

NIMS: <http://www.nims.go.jp/eng/>

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GRAPHISOFT Announces BIMx for Android devices

26 July 2012

GRAPHISOFT announced today its latest innovation specifically targeted toward Android device users. GRAPHISOFT BIMx™ is now available as a 3D viewer app for a range of Android devices, in addition to the iPad/iPhone. The Facebook-integrated BIMx community and the new Model Transfer site help spread this innovative technology among architects, clients and all other stakeholders.

BIMx (**B**uilding **I**nformation **M**odel **E**xplorer) is an interactive environment with game-like navigation, allowing anyone to explore full BIM models without holding a license of the professional authoring software in which the building model was originally created. ArchiCAD users have been able to publish self-running BIMx models to run on desktop computers (Win/Mac), and on the iPad/iPhone with a purpose-built app directly linked to the BIMx community for "social" model sharing. Now, Android users can enjoy the same benefits BIMx offers to iOS users, by [downloading the player](#). With BIMx, GRAPHISOFT puts BIM into the hands of all stakeholders not actively involved in the actual creation of the BIM model such as contractors, builders, clients, owners, and principals of design practices.

BIMx Community and Model Transfer Site

The integrated [BIMx community on Facebook](#) is the central hub for sharing interactive 3D building models. Architects holding either a commercial or educational BIMx license can publish their models directly to this online community. Native Facebook functions such as comments, likes and share are extended with customized functions for filtering models, searching models using key-words or finding uploaded models of specific users, architects or clients. BIMx models can be uploaded, browsed and downloaded by non-Facebook users as well; only "liking" and "commenting" requires Facebook registration.

The BIMx [Model Transfer Service](#) is a brand new "cloud service" offered to BIMx users with an active ArchiCAD Software Services Agreement. Users are entitled to 1 GB free cloud storage space with each

commercial BIMx license they own. For more security, users can also password protect their files.

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Infinite Skills / Autodesk Revit Architecture 2013 Tutorial Video Course Provides Beginner-Ready Training in BIM Software

26 July 2012

Training development company InfiniteSkills Inc has announced its new Autodesk Revit Architecture 2013 Tutorial Video Course, designed to provide a convenient and professional guide to the fundamentals of the industry-leading BIM (Building Information Modeling) solution.

The course includes 89 lessons covering topics from importing CAD files created in other programs to rendering finished models ready for virtual walkthroughs. Available on DVD-ROM or as a direct download from the InfiniteSkills website, the 6.5 hour tutorial uses a self-directed learning model to allow viewers to learn entirely at their own pace.

[Autodesk Revit Architecture 2013 Tutorial Video - Training Course for Beginners](#)

Beginning with a basic introduction to BIM concepts and the Revit family of software, the Revit Architecture 2013 training first goes through the program's user interface, examining the ribbon, project browser and key menus used in professional building design. Next, author Jay Polding moves into project setup, helping viewers work with location settings and CAD imports to create a toposurface and raw outline of the structure to be built, a dinosaur-themed museum that serves as a common model throughout the course.

The Revit training moves piece by piece through viable building design, showing how to create walls, floors, stairs, roofs, ceilings and more. As each component is covered, the Revit tutorials examine the most common professional approaches as well as variations the viewer is likely to encounter in real world projects.

The Revit 2013 training also how to manage data in the form of room item schedules and sheet lists on relevant components used in the design. Finally, the last section of the Revit 2013 training course includes chapters on model refinement, rendering, detailing and the creation of 3D views that bring the building to life.

"Jay wanted to tie the tutorials very closely to the hands-on model, to help users create something realistic and useful," said Chris Johns, content specialist for InfiniteSkills. "For anyone coming over from previous Revit training video courses, this central project is also totally new."

The Autodesk Revit Architecture 2013 Training Video Course is the eighth Revit-focused tutorial

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released by InfiniteSkills, which has published beginner and advanced courses on Revit MEP, Revit Structure as well as the last two editions of Revit Architecture. In addition to this beginners course, the company is also planning to develop an advanced tutorial series for Revit Architecture 2013.

"We've seen an insatiable demand for high quality training in Revit and CAD software," said Colin Boyd, sales director for InfiniteSkills. "It's truly exciting to connect expert-level professional instructors with the next wave of pros who are just learning the ropes."

More information and free demos can be found on the Revit Architecture 2013 training page:

<http://www.infiniteskills.com/training/learning-autodesk-revit-architecture-2013.html>

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Latest Synopsys Virtualizer Release Speeds Virtual Prototype Creation by up to 3X

24 July 2012

Synopsys, Inc. today announced availability of the latest release of Synopsys' [Virtualizer™](#) tool set for creating virtual prototypes and [Virtualizer Development Kits \(VDKs\)](#) that accelerate embedded software development. The new Virtualizer release improves modeling productivity through its new model authoring feature and IP specification import function, enabling engineers to develop system-level models and assemble them into virtual prototypes up to three times faster. In addition, enhanced support for popular debugger tools allows software developers to easily integrate Virtualizer-based virtual prototypes into their existing software debug flows.

"Using Virtualizer, we can abstract the full SoC design into a virtual prototype in a very short period of time to facilitate early software development and hardware/software integration," said Satoshi Aoki of the Embedded Platform Development Department at Ricoh Company, Ltd. "We believe Virtualizer is a must-have tool for SoC development."

Synopsys' Virtualizer virtual prototyping solution is a part of one of the industry's most comprehensive solution of tools, models and services for early software development, hardware/software integration, and system validation. Virtualizer addresses the increasing software complexity associated with semiconductor and electronic products by enabling the efficient creation of SystemC-based transaction-level models (TLMs), as well as the assembly of TLMs into virtual prototypes representing complete systems. The Virtualizer tool set is also used by designers to create customized VDKs, software development kits containing design-specific virtual prototypes as well as debug and analysis tools and sample software, which can be deployed to software development teams up to 12 months before silicon availability. Ready-to-use [VDKs for ARM® big.LITTLE™ processing](#) and ARM Cortex™-A15 MPCore™ processor-based designs are also available from Synopsys.

"Mitigating development risk and reducing time to market are key considerations for companies developing complex systems such as smartphones, tablets and smart-TVs," said Javier Orensanz,

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director of product management, system design division, ARM. "The Synopsys VDKs for ARM big.LITTLE processing and Cortex-A15 processor-based designs enable engineers to achieve optimal results by addressing these considerations. When used alongside ARM Development Studio 5 and the ARM Streamline™ performance analyzer, engineers are able to improve energy efficiency and even further reduce development risk."

This Virtualizer release incorporates a new graphical simulation profiler which makes it easier for virtual prototyping teams to find and address simulation bottlenecks. Out-of-the-box support for the latest APIs in popular software debuggers such as Lauterbach TRACE32 System and ARM Development Studio 5 (DS-5) enables software teams to use VDKs to create a powerful, integrated environment for multicore software debug. In addition, integration with MathWorks' Simulink simulation environment enables more rapid deployment of virtual hardware-in-the-loop (HIL) testing.

"The tight integration of our TRACE32 debugger with the latest Virtualizer release includes mutual support for the industry-standard Multi-Core Debug API, giving software programmers a unified and efficient environment for multicore debug and analysis," said Stephan Lauterbach, general manager at Lauterbach. "This integration enables engineers to start software development early in the design cycle on virtual prototypes without having to switch to other debug tools as they transition to real hardware."

The model authoring interface in the new Virtualizer tool set simplifies and automates model creation with new features such as automatic design rule checking and design-sensitive help, improving modeling productivity for both virtual prototyping experts as well as those less experienced. The new tool release also enables users to import existing IP specifications in popular formats such as IP-XACT, Excel, Word and PDF, further speeding model development by automatically generating SystemC Modeling Library (SCML) constructs and industry-standard Accellera Systems Initiative TLM-2.0 bus interfaces. In addition to providing improved model creation capabilities, the most recent Virtualizer release continues to support direct integration of TLM-2.0 standard-based models of common IP blocks readily available in the market, including Synopsys' DesignWare® TLM Library models, ARM Fast Models, and other SystemC TLM models available from Synopsys. It also supports more than 900 system-level models that can be found on [TLMCentral](#).

"Software teams are increasingly taking advantage of virtual prototypes to get an early jump on software development," said John Koeter, vice president of marketing for IP and systems at Synopsys. "The latest release of Virtualizer makes it easier and faster than ever for design teams to create virtual prototypes and deploy them to software engineers in VDKs, enabling a significant time-to-market advantage over competitors relying on only traditional software development methods."

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PDF3D ParaView Plugin Enhances Data Capture to Secure Technical Reports

23 July 2012

The PDF3D® ParaView Plugin system from Visual Technology Services is released for ParaView 3.14.1, the popular scientific and engineering open-source visualization system. The commercial plugin generates secure, animated 3D reports from large scientific data sources using the universal PDF document format featuring a rich media 3D viewer and is presently used by a number of international engineering companies.

The latest ParaView release features many usability enhancements, improved stability, new editing and control panels, new color editor and dockable interface panels. The PDF3D ParaView Plugin is configured in a ParaView install package which also includes the VISIT bridge for extended file format support, geospatial images, and a number of enhancements submitted for possible inclusion into future open-source versions of ParaView.

The PDF3D ParaView Plugin is packaged for both Windows and Linux 64-bit editions, appropriate for today's large scientific data sets. Direct animation capture is integrated into the ParaView time sequence system. The resulting 4D animation, (time plus full 3D model), is captured for playback with in 3D PDF format without any intermediate files, and compressed using the latest PDF/E PRC techniques. The update features upgraded flash menu control upgrades, multiple view capture to multiple PDF pages, and capture of 3D text labels and legend bar. Pipeline filters are shown with matching names in the 3D PDF model tree, and generation can be fully scripted using Python and XML state capture. For secure professional technical reports, the PDF3D plugin supports template layouts, 3D overlay watermark, and AES-256bit document encryption. The plugin is available in single workstation or floating network version licenses.

Once the 3D PDF is created, the complementary PDF3D in PowerPoint® plugin assists sharing results within a single unified presentation. The PDF document is accessible using Acrobat® or the free Adobe Reader®.

About PDF3D

PDF3D® (www.pdf3d.com) is an independent 3D technical publishing technology for 3D models viewable in PDF documents. Covering a wide range of applications from geology, aerospace, architecture and engineering, PDF3D makes it practical to distribute interactive 3D documents to everyone with the free Adobe Reader. ParaView is a trademark of Kitware Inc.

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Second V6 Translator Released from Theorem

24 July 2012

Theorem Solutions V6 CADverter portfolio continues to grow with the arrival of the second V6 translation product being released.

Theorem's V6 <> NX format converter solution is now available.

Theorem's strong partnerships with Dassault Systemes & Siemens, reputation for quality and robustness of product ensures that the new V6 <> NX translator will be well received by users of both Dassault Systemes and Siemens design applications as it enables direct data collaboration between V6 and NX for the first time.

The V6 <> NX CADverter integrated within the V6 environment enables bi-directional file & PDM collaboration scenarios. It can be used interactively or in batch mode depending upon a user's requirements. As standard, this particular product has been designed specifically to be incorporated into process oriented operations and so is integrated and runs under the management of the V6 infrastructure.

Theorem's CADverter reads and writes both V6 and Siemens NX data, converting assembly data (product structure) Exact Brep solids and surfaces, tessellated data, PMI (product manufacturing information) and colour. The V6 converted data can then be used anywhere within the V6 environment, in all applications (CATIA, DELMIA, SIMULIA, ENOVIA) enabling supply chains with mixed V6 and NX environments the ability to collaborate more efficiently.

Theorem's CADverter also provides the ability to convert NX into 3dxml files for collaboration with all applications collaborating through this format, such as CATIA, DELMIA, SIMULIA, ENOVIA, 3DVIA and 3DSWYM.

On-going compatibility with V6 and NX is assured through Theorem's licensing of API technology from both application sources.

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SigmaTEK Announces SigmaBEND AP™

23 July 2012

SigmaTEK Systems, LLC, announces the release of SigmaBEND AP™. This latest software version incorporates the unfolding functionality of AutoPol™ (FCC Software AB) into SigmaTEK's press brake solution SigmaBEND AP™.

SigmaNEST® Product Manager, James Lindsey stated:

“Automation, flexibility and control are keys to SigmaBEND AP. The software automatically recognizes bend information stored in both 2D and 3D CAD files. SigmaBEND AP users have direct seamless access to SolidWorks and Inventor files while interfaces to NX, Pro/E, Catia and CAD neutral file formats including IGES, STEP, SAT, and Parasolid reduce file import, unfolding and nesting steps and errors. Other features include real-time 3D simulation with collision detections along with the ability for users to determine levels of manual control and automation for bend sequencing, tool and setup selection, finger stop positioning, and simulation.”

Benefits: Speed, Quality, and Flexibility

Speed

- Faster, more reliable programming away from machine tool
- CAD integration and automation results in shorter programming time
- Faster set-up time with quick access to manufacturing information
- More effective re-use of NC programs

Quality

- Fewer design errors
- Centralized database
- CAD/CAM system Integration
- Check process via realistic bending simulation
- Collision check eliminates costly programming errors

Flexibility

- CAM system – direct switching between different press brakes
- Better production planning
- Less dependent on a person's knowledge with standardized programming

About SigmaTEK

SigmaTEK Systems, LLC develops and sells SigmaNEST®, a software solution for nesting, NC programming and cutting of steel sheet, plate, tube, and wood materials. SigmaNEST is a CAD/CAM nesting system for plasma, laser, punch, oxyfuel, waterjet, router, knife, tube/pipe and combination cutting machines. SigmaNEST ensures material utilization, machine motion optimization, and part

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quality balanced with cutting speed, work flow integration, material handling, accurate estimates and information management.

Founded in 1993, SigmaTEK is headquartered in Cincinnati, OH and has an extensive global support network with branches in North America, South America, Europe, Asia, Australia and Africa. For more information on the SigmaTEK line of products or to schedule a live demonstration, please visit www.sigmanest.com or call 513.674.0005.

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Synopsys Mixed-Signal IC Design Solution Qualified for TowerJazz Power Management Reference Flow 2.0

24 July 2012

Synopsys, Inc. and TowerJazz today announced that they have qualified Synopsys' unified mixed-signal IC design solution for TowerJazz's power management analog/mixed-signal reference design flow (Reference Flow 2.0) and 180-nanometer (nm) Power Management (PM) interoperable process design kit (iPDK). Synopsys' tool suite, the foundry iPDK and reference design flow are verified to seamlessly work together to enable designers to quickly become productive.

Synopsys' unified mixed-signal IC design flow includes the IC Compiler™ and Galaxy Custom Designer® physical co-design implementation solution, HSPICE® circuit simulation, CustomSim™ FastSPICE simulation, CustomSim-VCS® mixed-signal co-simulation, IC Validator physical verification, and StarRC™ parasitic extraction tools. The TowerJazz PM Reference Flow 2.0 includes a reference design based on a 180-nm iPDK for the bipolar CMOS DMOS (BCD) process. The TowerJazz BCD power management process platform offers the combination of 180-nm CMOS logic density with a wide range of high-voltage power devices on a single chip to enable the design of complex power management integrated circuits (ICs).

"TowerJazz and Synopsys have an on-going collaboration to create and promote iPDKs as a standard for the custom design community," said Ori Galzur, vice president of design center and design enablement at TowerJazz. "This collaboration has now been extended to our new TowerJazz Power Management Reference Flow 2.0 and further expands our relationship to include a qualified Synopsys mixed-signal design solution that addresses the needs of power management IC design."

"As ICs become more heterogeneous with a mix of cell-based and custom implementation, designers require a unified implementation and verification solution to stay productive and competitive," said Bijan Kiani, vice president of product marketing at Synopsys. "With this foundry-qualified solution, our mutual customers will be able to more easily manage the increased complexity and aggressive development schedules of mixed-signal designs."

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Zuken Introduces E3.series Industry Editions

24 July 2012

Zuken announces E3.series industry editions, which are now available with E3.series 2012 – its leading electrical and fluid CAD software. E3.series 2012 has many enhancements and includes specially configured packages for key industries.

E3.series industry editions are offered in the following configurations:

- Transportation
- Machinery
- Military/Aerospace
- Systems
- Power
- Railway

The industry editions have evolved through Zuken's experience working with key customers in each of these sectors. Working with Mercedes-Benz, for example, has been instrumental in the development of the Transportation Edition.

"Since 2003, electrical systems in Mercedes-Benz cars have been developed using Zuken's E3.series. Our continued relationship with customers like Mercedes-Benz is validation of our dedication to keeping E3.series at the forefront of electrical design," said Steve Chidester, Zuken's Head of International Marketing.

Tailored flexibility

Every industry has its own methods and standards: E3.series editions contain the functionality core to these industries. For example, those in the power industry adhere to IEC (International Electronic Council) 81346 standards, so the Power Edition has structured projects, reports and templates that fit with this standard.

Another example is the Transportation Edition, which includes Vehicle Electric Container (VEC) standard STEP AP212/KBL. This defines the exchange format of a vehicle wire harness between OEMs and their suppliers.

Tools for growth

Many of our customers find that the range of features and tools offered with the industry editions provides comprehensive coverage of their needs. For example, the Machinery Edition includes both E3.schematic and E3.panel. Companies who document their panels in a non-intelligent drafting system can easily develop integrated schematics and panels in one environment, where design changes are immediately reflected across the whole project.

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About E³.series

E³.series is Zuken's Windows-based modular, scalable and intuitive system for the engineering, design, documentation, and manufacturing of wiring, harnesses, cable assemblies, control panels, hydraulic and pneumatic systems. E³.series' core object-oriented architecture supports the entire engineering flow from concept to manufacturing and eliminates the need for data transfer between different modules. This reduces errors, increases quality and allows engineering changes to be completed much more effectively. E³.series can also be smoothly integrated with existing applications and processes through standard and customizable, bidirectional programmable interfaces.

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