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CIMdata News

CIMdata PLM Late-Breaking News Announcement

20 August 2012

The month of August is typically a slow news month in the PLM industry. Given the lack of news, CIMdata will not be publishing the Late-Breaking News on Tuesday, August 21st. We apologize in advance for any problems this may cause, but be assured that all of the news available this week will be published.

About CIMdata

CIMdata, an 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). CIMdata provides world-class knowledge, expertise, and best-practice methods on PLM. CIMdata also offers research, subscription services, publications, and education through international conferences. To learn more about CIMdata's services, visit our website at <http://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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Jon Hirschtick, CAD Software Entrepreneur to Keynote at CIMdata's PLM Road Map™ 2012

22 August 2012

CIMdata, Inc., the leading global Product Lifecycle Management (PLM) management consulting and research firm announces that Jon Hirschtick, CAD Software Entrepreneur, will make a keynote presentation at PLM Road Map™ 2012. The keynote line-up also includes presentations by automotive expert Dr. David E. Cole, Georgia Institute of Technology's Professor Dimitri Mavris, Dana's Frank Popielas, and EADS' Tristan Gegaden. PLM Road Map™ 2012 will take place at the Inn at St. John's on October 2nd and 3rd.

The great irony of the CAD business today is that nobody in it wants to talk about CAD. With solution providers all focusing on PLM and business process automation, the time has come to revisit CAD. In his keynote presentation, "CAD Future: A Perspective View," Jon Hirschtick will take a look at where the CAD business has been and more importantly, where it needs to go. Based on his many years in the industry, Jon Hirschtick will provide a personal perspective on the impact of the ever-changing design process, the new generation digital-native workforce, new modeling technology, and most importantly the massive changes in computing platforms—both hardware and software.

CIMdata PLM Industry Summary

PLM Road Map™ 2012 is the must-attend event for industry executives and PLM practitioners globally—providing independent education and a collaborative networking environment where ideas, trends, experiences, and relationships critical to the industry germinate and take root. It is a strategic conference focused on how companies are successfully employing PLM strategies and enabling solutions to meet challenging product development, manufacturing, and deployment issues. PLM Road Map™ 2012 is a two-day event that will challenge attendees to shift their current thinking to a new level in a series of presentations focusing on the global transformation of product development and innovation processes. PLM Road Map™ 2012 is the leading international event that helps companies leverage cross-disciplinary and cross-industry knowledge and feedback to smooth and speed their PLM journeys. For more information on PLM Road Map™ 2012, visit our website at: http://plmforesight.cimdata.com/index.cfm?content=include_conference12.cfm

About Jon Hirschtick, CAD Software Entrepreneur

Jon Hirschtick is a well known CAD Software Entrepreneur. In 1993 Jon founded SolidWorks and served as CEO, board member, and group executive until 2011. Today, SolidWorks is the most widely used 3D Computer Aided Design (CAD) software in the world, used by over 1,000,000 people worldwide to design manufactured products such as consumer goods, electronics, medical devices, and factory machinery.

Jon has worked in the CAD industry since 1981 -- at MIT's CAD Research Lab; Premise Inc., a startup company he co-founded in 1987; and Computervision Corporation. Jon has served as a board member at many other venture-funded startup companies including Z Corp, Revit, Liquid Machines, Express3D, and Vela Systems.

Jon has bachelor's and master's degrees from MIT, where he was a member of the MIT Blackjack Team profiled in several TV shows and movies.

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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Acquisitions

Itasca Consulting Group, Inc. Announces Purchase of Simulation Works, Inc.

22 August 2012

[Itasca Consulting Group, Inc.](#), a subsidiary of Itasca International Inc., headquartered in Minneapolis, Minn., announces the purchase of Simulation Works, Inc. Based in St. Paul, Minn., Simulation Works, Inc. designs and develops the *KUBRIX*[®] software used by design engineers and researchers in the automotive, aerospace, manufacturing, biomedical, petroleum and electronics industries to automate the more human-intensive and costly aspects of computer-aided engineering.

The purchase of Simulation Works, Inc. will integrate *KUBRIX* software into Itasca products and services, benefiting clients and promoting expansion into new markets. Itasca is a global, employee-owned, geotechnical consulting company and software developer for the geomechanics, hydrogeological and microseismics communities. Itasca's software range includes the leading numerical modeling software for geomechanical design analyses in earth resources engineering: *FLAC*, *FLAC3D*, *UDEC*, *3DEC* and *PFC*.

“We've distributed *KUBRIX* to the geotechnical community for the past seven years and this purchase will allow us to fully integrate the software into our engineering services and products,” said Itasca General Manager Will Pettitt, Ph.D. “These new capabilities will offer significant benefits to our clients in the mining, oil and gas, power generation and civil engineering industries, and promote expansion into new markets where *KUBRIX* is already established.”

KUBRIX is a unique, automatic grid generator (hexahedral, octree and hybrid tet-hex techniques) used in conjunction with CAD software to produce sophisticated computer models. Its capabilities meet the demanding geometrical requirements of rock structure in geo-engineering projects, including non-manifold surfaces and hundreds of materials and intersecting intermittent faults.

“The addition of *KUBRIX* to Itasca's impressive portfolio of advanced discrete and continuum analysis software will result in substantial efficiency savings in engineering projects,” said Simulation Works, Inc. Technical Director Reza Taghavi, Ph.D. “That's because *KUBRIX* streamlines the workflow from geo-data to analysis, freeing engineers from tedious manual grid generation, which enables them to concentrate on solving the problem at hand.”

CIMdata PLM Industry Summary

Taghavi will continue in his role as *KUBRIX* product manager at Itasca, which includes developing mesh generation technologies and increasing Itasca's market penetration.

For more information on *KUBRIX* and Itasca's capabilities and products, visit www.itascainternational.com.

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Company News

CADD Centers of Florida Earns Autodesk Simulation Specialization

22 August 2012

CADD Centers of Florida, Inc. today announced that it has earned the Autodesk Simulation Specialization designation. As an Autodesk Simulation Specialized Partner, CADD Centers has shown that they have made significant investment in their people, have a solid consulting business plan, have impressive customer references, and offer a high level of knowledge and support to customers in the AEC industry.

"This coveted designation granted by Autodesk confirms our guiding principle of providing the best technical solutions for our clients. It further demonstrates our commitment to advancing support for our manufacturing and AEC clients through the integration of new tools that help predict, validate and optimize their designs prior to production or construction," said Eddie Mull, director of BIM Technology. "Adding this designation to our current specializations underscores CADD Centers of Florida's approach of investing in our professionals who are trained to work strategically with clients to achieve their business goals."

This specialization allows CADD Centers to utilize 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, CADD Centers of Florida is a trusted business adviser for all Autodesk customers.

"Autodesk's CFD software solutions are now affordable and attainable. Predicting particle (smoke or contaminants) disbursement or the impact of structural and furnishings on ventilation air flow pattern and velocity could previously only be accomplished by highly specialized firms at extremely high cost." Mr. Mull continued, "Computational fluid dynamics simulation is helping progressive building professionals design, build, and maintain higher-quality, more energy-efficient buildings, and differentiate themselves from the competition."

CADD Centers of Florida has invested significantly in certifying members of their team. CADD Centers

CIMdata PLM Industry Summary

of Florida Simulation Specialists are trained to work with Autodesk products to help clients improve collaboration, design better and safer products, save time and reduce manufacturing costs. This designation signifies that CADD Centers of Florida experts demonstrate an understanding of simulation, fluently represent and support the Autodesk products that make simulation possible, and recognize and convey the business benefits that simulation offers.

Gain Competitive Advantage, Deliver Better Designs Faster

The Autodesk Simulation portfolio delivers a comprehensive set of simulation software tools—on the desktop, in the cloud, and on mobile devices—that are easy to integrate into each phase of the design and engineering process. Autodesk Simulation software helps customers:

- Predict performance—Gain valuable insight and reduce the risk of failure by accurately predicting how your designs will respond to ordinary and extreme use.
- Optimize designs—Reduce costs and get innovative designs to market faster without compromising safety or performance. Prevent over-engineering and control material usage.
- Validate design decisions—Create quality products, improve building and infrastructure designs, meet safety requirements, and avoid costly mistakes by validating critical design decisions and material choices before manufacturing or construction begins.

For additional information about CADD Centers of Florida, Inc., please visit their website <http://www.caddcenters.com>.

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Crossrail and Bentley Systems Launch UK's First Dedicated Building Information Modeling Academy

22 August 2012

- Academy seeks to enhance supply chain knowledge and drive construction industry innovation in Business Information Modelling
- Knowledge gained by supply chain about the use of BIM on Crossrail able to transfer to other infrastructure projects such as HS2
- Crossrail to establish Industry Panel to promote collaboration and best practices in BIM

Crossrail and Bentley Systems has launched a dedicated Information Academy to provide hands-on training to the Crossrail supply chain on the latest technology and software being used to design and build the new railway including Building Information Modelling (BIM).

The Academy is an undertaking of the technology partnership created earlier this year between Bentley Systems and Crossrail Limited. The Information Academy will capture, develop and share BIM best practices with the Crossrail supply chain. The increased use of BIM by industry is a key element of the Government Construction Strategy.

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Andrew Wolstenholme, Crossrail's Chief Executive said: "Crossrail is pioneering the use of Building Information Modelling in Europe on a scale that has not been undertaken before. This has directly enabled us to develop innovative engineering design solutions, minimise waste and reduce future costs for maintaining the railway. The Academy will support the Government Construction Strategy by increasing the use of BIM in the construction industry and creating a lasting legacy of best practice in innovation. The training received at the Academy will also help contractors use the knowledge and skill gained here on other major projects such as HS2."

Malcolm Taylor, Crossrail's Head of Technical Information said: "The Academy will enable Crossrail contractors to get hands-on learning on the latest software, best practices and processes used at Crossrail. This offers our supply chain a unique advantage of working in a simulated Crossrail environment so they learn detailed technical knowledge about the project processes and systems in a virtual world."

Greg Bentley, Bentley Systems' Chief Executive said: "The UK's particularly advantageous innovation strategy is collaborative BIM. Beyond technology, what's most exciting for us about the Academy's potential contribution is what we can all learn from 'working smarter together' with the Crossrail construction supply chain – collaborating to yield BIM benefits during construction, while also improving lifecycle information quality."

Detailed design work for the Crossrail project began in 2008 and working in a collaborative 3D environment was a core contractual requirement across each of the 25 design contracts.

The entire project exists in a digital 3D model which is handed to the construction contractors and will eventually move across to the operators and maintainers of the railway – thereby reducing the costs of running the railway.

Today, Crossrail integrates the information developed from over 25 main design contracts, 30 advanced works contracts and over 60 logistics and main works construction contracts, all of which have an extraordinary number of interlinked interfaces within the complex urban environment of London.

Crossrail owns all the project data. The BIM processes provide up-to-date information – either about the 3D model or from a document database – from a central source accessible to all contractors. This significantly reduces information loss between contracts and project stages and gives greater visibility into the design and construction processes.

Crossrail and Bentley have collaborated on all aspects of setting up the Academy with Crossrail providing project expertise and Bentley facilitating the physical learning environment.

The Academy, located in Bentley Systems' offices near Bank station, will offer a curriculum particular to Crossrail requirements focusing on the best use of BIM, latest software and best practice. The training on offer will benefit the entire construction industry by driving standards of design innovation within the construction industry.

To support innovation and the use of Building Information Modelling, Crossrail will next month establish a BIM Industry Panel – engaging academic institutes, construction companies and specialist

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consultants as a platform to promote collaboration and best practices in BIM.

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Delcam Greater China's Sales Partner Meeting Attracts Over 120

20 August 2012

Delcam Greater China's Annual Sales Partner Meeting, which this year was held in Xi'An, one of China's most historic and cultural cities, on August 2nd and 3rd, attracted over 120 delegates, including representatives from Hong Kong, Taiwan, Changchun and many other areas of the region.

The opening speech was made by the General Manager of Delcam Greater China, Joe Zhou, during which he warmly welcomed all the Sales Partners to the event. He reported that the Delcam's global sales for the first half of 2012 had continued the rising trend in sales. The company's goal remains to provide the broadest and the most powerful software family for manufacturing technology. It will maintain its combination of direct sales and channel sales to maximise its success in the Chinese market.

Like its parent company, Delcam China serves many industries across the country, including automotive, railway vehicle, aerospace, footwear, healthcare, electrical/electronic appliances and many more. Delcam China also supports Chinese educational institutes, with over 100 institutes using Delcam software for training and research.

Delcam Chief Executive, Clive Martell, said in his presentation, "2012 is a very memorable year for Britain. There is the Diamond Jubilee for 60 years of the Queen's reign and the London Olympic Games, both of which will be national celebrations that will attract worldwide attention. 2012 is also of far-reaching significance for Delcam since, 40 years ago, the forerunner of our technology was first developed in Cambridge University."

"After 40 years of R&D, we have achieved many technological advances. This continues in 2012 with the development of our new machining strategies Vortex and Machine DNA. By employing the industry's largest development team, we can ensure that each of our programs is the most productive for each of the sectors in which we operate," Mr. Martell claimed. "Their work has enabled Delcam to complete 12 years as world's leading CAM specialist in revenue and end-user sales, as shown in the latest NC Software Market Analysis Report from leading US analysts CIMdata."

During the two-day meeting, Delcam presented its new product highlights in a series of demonstrations by engineers from the company headquarters in Birmingham. Channel policies, case studies and market promotion plans were also shared with its Sales Partners. Experienced resellers and new resellers shared their experience and inspiration. In addition, the Sales Partners' efforts were recognised with awards to 16 sales partners as either "Excellent Reseller" or "Authorized Reseller".

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Global Value Web of The Netherlands Joins the Aras Partner Program

22 August 2012

Aras® has announced that Global Value Web, a global provider of IT services and solutions, headquartered in Liessel, The Netherlands, has joined the Aras Partner Program. Global Value Web provides smart solutions for product life cycle management and global supply chains, enabling collaboration throughout the extended enterprise.

The Global Value Web connects companies across the globe for unique opportunities in products, services and talent. The company serves leading multi-national companies, as well as small and mid-sized businesses, with a focus on the energy and health industries. Global Value Web distinguishes itself with its listen, advise and execute approach to customer service. For more information please visit: <http://www.global-value-web.com/>

“Global Value Web combines their experience in quality, procurement, project management, business intelligence and more to develop high-value solutions for their customers. We welcome them to the Aras Partner Program and the Aras Community,” said Peter Schroer, President of Aras.

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U.S. CAD Earns Autodesk Simulation Specialization

21 August 2012

U.S. CAD, a Building Information Modeling (BIM) consultant and provider of Autodesk related products and services, today announced that it has earned the Autodesk Simulation Specialization designation for value added resellers (VARs) from Autodesk, Inc.

As an Autodesk Simulation Specialized Partner, U.S. CAD has demonstrated that they have made significant investments in personnel with a background in the manufacturing industry; have a solid business plan specific to the simulation specialization area; have customer references, and demonstrate a high level of experience and support to customers in the manufacturing industry.

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, U.S. CAD demonstrates through their strong customer service and support in sales what it means to be a trusted adviser to Autodesk customers throughout the world.

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“With this specialization, U.S. CAD continues to demonstrate to our customers that we are making the necessary investments that will help them continue to achieve more,” said Danny Counts, CEO of U.S. CAD. “With the majority of our manufacturing customers now working with 3D design information, Simulation is the natural next step for the manufacturing community. This specialization allows us to demonstrate that we are ready to help them incorporate Autodesk Simulation tools into their workflow.”

Autodesk Simulation software delivers a fast, highly accurate and flexible approach to predict, optimize and validate designs earlier in the design process. The portfolio of products serves as a comprehensive set of simulation software tools that are easy to integrate into each phase of the product development process — from mechanical stress, vibration and motion to computational fluid dynamics, plastic injection molding and multiphysics.

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Events News

ADT Delivers Turbomachinery Design Optimization at 41st Turbomachinery Symposium

22 August 2012

[Advanced Design Technology](#) (ADT) will exhibit in Booth 140 at the [41st Turbomachinery Symposium](#), September 24-27 in Houston, Texas. ADT will demonstrate how TURBOdesign Suite 5.2, provides faster turbomachinery design capabilities for wider operating ranges and customized solutions. Turbomachinery design engineers and original equipment manufacturers will benefit from the 3D inverse design technology in ADT’s TURBOdesign Suite.

According to conference organizers, the Texas A&M Turbomachinery Laboratory 41st Turbomachinery Symposium in the Fall of each year promotes professional development, technology transfer, peer networking, and information exchange among turbomachinery industry professionals. This event is led by engineers with vast experience in the petrochemical, process, chemical, utility, contractor, and consulting fields, along with manufacturers of rotating equipment and fluid-handling equipment from around the world.

“Many turbomachinery OEM’s are facing commercial drivers to provide highly efficient products over a wide operating range or tailored to specific customer requirements,” said Professor Mehrdad Zangeneh, founder and managing director of ADT. “Our unique approach to turbomachinery design optimization provides innovative solutions while reducing development time and costs.”

Where more conventional design methods rely heavily on computational power, making it very expensive to combine product innovation with customized solutions, ADT’s unique approach to turbomachinery design optimization eliminates bottlenecks to innovation by providing a smarter and more productive approach to solve multiple turbomachinery design challenges.

CIMdata PLM Industry Summary

Fast development of customized design is therefore made possible.

“The extensive use of TURBOdesign1 has enabled Voith Turbo to improve the aerodynamic design of torque converters and to speed up the overall design process,” commented Dr. Andreas Basteck, general manager engineering, Voith Turbo AG. “The introduction of TURBOdesign1 also allowed Voith to minimize the number of CFD simulations required to optimize the hydrodynamic design of torque converters.”

Turbomachinery manufacturers of all sizes and applications can now benefit from ADT’s TURBOdesign Suite 5.2 for design optimization of their turbomachinery components. “By using TURBOdesign1 it is very easy to modify the loading distribution and hence control the Mach number distribution on the blades,” commented Ennio Spano, technical direction, research department, Avio Group. “By using TURBOdesign1 we have been able to achieve most of our objectives to improve our design system and shorten engineering time. A number of Avio products have since been designed by using 3D inverse design technology.”

ADT’s engineers will be at Booth 140 to demonstrate how TURBOdesign Suite 5.2 can help all turbomachinery manufacturers to deliver breakthrough turbomachinery designs.

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CGTech to Feature VERICUT Aerospace Applications at Aero Engineering and Composites Engineering Exhibitions

23 August 2012

CGTech will be exhibiting on stand 737 at Aero Engineering and Composites Engineering exhibitions at the National Exhibition Centre, Birmingham on November 7-8th, 2012. The stand will feature the latest versions of CGTech’s VERICUT software products for both Machine Tool Simulation and Automated Fibre Placement (AFP) programming and simulation. In addition CGTech will showcase its new product for programming and simulation of Automated Drilling and Fastening machines used for airframe assembly.

VERICUT COMPOSITES APPLICATIONS

CGTech will be demonstrating VERICUT Composite Applications: VERICUT composite Programming (VCP) and VERICUT Composite Simulation (VCS).

There will be demonstrations of projects that highlight the implementation and use of machine independent off-line NC programming software for AFP machines. Current customer projects to be highlighted include: a large one-piece fuselage barrel on an Electroimpact multi-machine AFP fabrication cell; a U-channel structure on a 7-axis mTorres AFP machine; and aircraft skin panels and other parts using an AFP head mounted on 6-axis robots from KIKA, FANUC and ABB.

CIMdata PLM Industry Summary

A new product VERICUT Paths for Engineers (VCPe) will also be show. VCPe provides all the programming features of VCP but not linked to a specific AFP machine. Engineers can use VCPe to experiment with AFP layup strategies and production methods in a virtual environment.

VERICUT MACHINE TOOL SIMULATION

CGTech will also be showing the recently released version 7.2 of it's market leading VERICUT CNC machine simulation and optimization software. VERICUT simulates all types of CNC machining, including aerospace processes such as multi axis milling, drilling and trimming of composite parts, water jet cutting, robotic and mill/turn machining. VERICUT is used to simulate CNC machine Tools from all leading brands including Makino, Starrag Heckert, Heller, Matsuura, Mori Seiki-DMG and Yamazaki Mazak.

VERICUT 7.2 has a host of improvements over previous versions including significantly improved performance resulting from 64 Bit processors and multi-threading.

VERICUT DRILLING AND FASTENING PROGRAMMING AND SIMULATION

VERICUT Drilling and Fastening is a new software application for simulating and programming auto-drilling and fastening machines. These machines are used to assemble large aero-structures and it is essential to avoid programming errors and collisions at such a late stage in the aircraft manufacturing process. VERICUT allows the user to programme drilling and fastener assembly operations in a virtual machine tool environment and provides simulation to check for a variety of potentially disastrous error conditions. Like all VERICUT software the new module interfaces to leading CAD/CAM/PLM systems such as Dassault Systemes CATIA and Siemens NX, and is independent of the assembly machine manufacturer.

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Colortrac to Co-Sponsor Autodesk University Russia 2012 in Moscow

21 August 2012

Colortrac Executive Director Peter Brown commented “Colortrac have joined with our exclusive distributor Russian Industrial Company who are also an Autodesk Gold Partner, to exhibit a selected range of Colortrac SmartLF wide format scanners and SmartWorks Pro software. We aim to demonstrate how the Colortrac SmartLF range of large format scanners such as the SmartLF SC42 or SmartLF Gx+ 42 can be integrated into your CAD systems to help support the transfer of paper archives to electronic document format.”

Coupled with a set of advanced tools for managing the scanning and digital archive of technical documentation, the Colortrac SmartLF wide format scanner solutions can provide customers with the ability to fully utilise the resulting bitmap image, by converting them into vectorized versions of topographical maps, construction plan drawings etc. This operation is done using Autodesk Raster

CIMdata PLM Industry Summary

Design which is now also available in a number of other software packages such as AutoCAD Design Suite 2013 and Autodesk Infrastructure Design Suite 2013.

The vectorized data can also be transferred to Autodesk Inventor, AutoCAD Civil 3D or Autodesk Revit Architecture for producing 3D-model details, topography and building representations. These may then be incorporated into other project processes or advanced enterprise workflows.

Join us at Autodesk University Russia 2012 to see live demonstrations of how the Colortrac SmartLF large format scanners and SmartWorks Pro software can create images that add value to your workflow operations. Our experts will be ready to advise you on any stage of the workflow.

Further information about Colortrac's products can be found at: <http://www.colortrac.com>

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Delcam's Latest PowerINSPECT for Inspection and Reverse Engineering at IMTS

21 August 2012

Delcam will demonstrate the 2012 R2 version of its PowerINSPECT software for inspection and reverse engineering on booth E-3222 at the IMTS exhibition to be held in Chicago from 10th to 15th September. This new release includes enhancements to the inspection capabilities and also continues the development of the reverse engineering functionality introduced earlier this year. The main development in this area has been an expansion of the "Digitised Curves" option to create a powerful re-engineering and modelling tool.

In addition, a new module is now available that allows PowerINSPECT to create efficient inspection sequences for use on dual-column CNC coordinate-measuring machines. This development continues the drive to make PowerINSPECT the preferred inspection software for all types of metrology equipment.

Improvements to the inspection functionality within the new PowerINSPECT release include a simplified procedure enabling users to quickly calibrate the probe assembly by probing a single point anywhere within the measuring envelope; an offset-alignment method that aligns the part with the axes of the CMM while setting the position with a single point measurement; and extra point-cloud options that make it easier to modify and reuse digitised curves and points, with options for editing, deleting and resuming measurement of the points and curves.

The automated section-measurement functionality, which was previously only available in the manual version of PowerINSPECT, is now available in both the OMV and CNC offline-programming versions. This strategy for creating probe paths along a section of the component provides quick and

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easy comparison of a cross-section against the CAD model. This type of section measurement is important for the measurement of blades and aerofoils, as well as for automotive inspection.

New options within "Digitised Curves" allow edges, holes and gaps to be identified as the part is being probed. Curves can also be created from CAD models within PowerINSPECT or they can be imported directly from other software packages. All these curves can be modified by rotation, translation, mirroring or scaling, or by editing individual points within the curve.

Once created, curves can be exported as polylines as well as in the previously-available NURBS format. This enhancement is part of a general increase in the ability to export surface and geometric items for use in modelling applications, with VDA export added to the existing IGES format.

The new creation and editing options for curves can be used with a new marking-out feature for refining or completing clay models – a requirement for creating automotive and marine styling models. This utility enables curves created within PowerINSPECT to be used to guide a marking-out tool on a measuring device or layout machine.

The combination of a dual-column CMM and PowerINSPECT enables inspection times to be reduced by allowing the simultaneous measurement of different features on larger parts. A common application is automotive body-in-white inspection, where the evaluation of a large, complex and relatively symmetrical assembly requires intricate measurements on each side, combined with an assessment of the structure as a whole. Using this new module gives the ability to measure parts on these devices in a single coordinate system without repositioning.

In general, the dual-column mode works in a similar manner to the single-column CNC version of PowerINSPECT; models are loaded in the same way, inspection items are created using the same methods, and so on. An additional programming operation is needed to distribute the various items to be inspected between the two columns.

Additions to the offline-programming and program-running capabilities provide easy tools for moving inspection items between the two columns to balance the inspection time needed for each one. The user can switch columns in much the same way that they switch probes or tools in the standard version of PowerINSPECT.

To ensure safe operation of the CMM, the collision predictor within PowerINSPECT checks for possible collisions between columns by calculating their moves as the inspection proceeds and comparing their future positions in space and time. If any overlap is detected, the inspection is stopped and a warning displayed. This is the only reliable way to prevent collisions between columns because of factors like speed differences between the way the machines are programmed and the way they actually move.

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CIMdata PLM Industry Summary

Delcam to Highlight Integrated Machining and Inspection at ILA Berlin

24 August 2012

Delcam will highlight the ways in which machining and inspection can be integrated more closely on the Midlands Aerospace Alliance stand at the ILA Berlin Air Show. These new processes, which can be grouped under the heading of “adaptive machining”, include techniques like electronic fixturing and On-Machine Verification.

The traditional relationship between machining and inspection is that machining is completed first and the component is then transferred to a dedicated piece of inspection equipment to be approved or rejected. However, as machining techniques become more sophisticated, and as components become larger and more complex, there are a growing number of cases where closer integration is required to give higher productivity and reduced wastage. Instead of a simple linear progression from CAD to CAM to machining to inspection, a more complicated series of steps is needed, with extra data needed to fill any gaps in the information available at the various stages.

The programming of most machining operations is based around knowing three things: the position of the workpiece on the machine, the starting shape of the material to be machined, and the final shape that needs to be achieved at the end of the operation. Adaptive machining techniques allow successful machining when at least one of those elements is unknown, by using in-process measurement to close the information gaps in the process chain.

Delcam is in a strong position to advise companies wishing to implement these new techniques. The company has a unique combination of expertise in software for both machining and inspection, which has been built up over many years of development of PowerMILL, the world’s leading CAM system for high-speed and five-axis machining, and PowerINSPECT, the world’s leading hardware-independent inspection software.

The most common cases when adaptive machining techniques are needed are those where the exact position of the workpiece on the machine is unknown. With larger components, such as aerospace structures and tooling, achieving the correct position and orientation of the stock on the machine is a major challenge, taking many hours of checking and adjustment. It is often easier to adjust the datum for the toolpaths to match the position of the workpiece, than it is to align the stock in exactly the desired position.

On-Machine Verification also uses probing equipment on the machine tool. It allows initial checking of machined parts to be carried out *in situ* on the machine rather than having to transfer them to coordinate measuring machines for inspection. The main advantage is that any mistakes are discovered where they can be corrected – on the machine tool. Repeated cycles of machining and inspection, interspersed with long set-up times on the respective pieces of equipment, are avoided, meaning that overall manufacturing times can be reduced.

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The most obvious benefit of On-Machine Verification is for those companies that do not have existing inspection capabilities or for cases when the component is too large for their equipment. However, On-Machine Verification can also give huge time savings by enabling the quality of the component being machined to be monitored at all stages in the manufacturing process. This allows any errors to be detected earlier, and so corrected more quickly and at lower cost.

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ESI Announces Confirmed Keynotes & Speakers to Date for the Upcoming ESI Global Forum

16 August 2012

ESI Group announces the list of keynotes and confirmed speakers to date for the second [ESI Global Forum 2012](#), that will take place at the Sheraton Hotel & Marina in San Diego, CA, on 18 &19 October, 2012.

ESI Global Forum Keynotes

ESI will have the honor to welcome the Honorable John Engler, president of the Business Roundtable (BRT), former Governor of Michigan and former CEO of the National Association of Manufacturers. As BRT president, Engler will bring CEO expertise and insights to bear on major challenges facing the United States, including global competitiveness and innovation.

American engineer and former astronaut Fred Haise, who flew as the lunar module pilot on the aborted Apollo 13 lunar mission in 1970, will then deliver a keynote underlining the importance of innovation & technology deployment in industry.

A third keynote will be delivered by French physicist Dr Franck Delplace, Head of the Energy Savings Department at the French Electricity Board EDF Group. He will touch on the current challenges in the energy sector.

ESI Global Forum confirmed speakers to date

The forum covers a wide range of topics, addressing all aspects of engineering simulation with a special focus on applications in Aerospace & Defense, Ground Transportation and Energy & Electronics.

Confirmed speakers to date include:

- Dave Furrer, **Pratt & Whitney Aircraft** (USA)
- Eric Landel, **Renault** (France)
- Hashik Shin, **Renault Samsung Motors** (Korea)
- Annegret Mallach, **Volkswagen AG** (Germany)
- Yasushi Hamada, **MAZDA Motors** (Japan)
- Eric DeHoff & Sanjaya Fonseka, **HONDA** (USA)
- Fuchun Zhu & Chirag S. Shah, **Humanetics Innovative Solutions** (USA)
- Matt Sidlinger & James Ho-Jin Hwang, **Genesis Systems Group** (USA)
- Michael Yang & Paul Blelloch, **ATA Engineering** (USA)
- A. Stankus, **T-Services on behalf of V. Stepannov, CIAM, Central Institute of Aviation Motors** (Russia)

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- Per Josefsson, **AP&T** (Sweden)
- Remy Besnard, **CEA Valduc, Commission for Atomic Energy** (France)
- Andrew George, **Brigham Young University** (USA)
- William Chen, **Vanguard Space Technologies** (USA)
- Sebastian Bohn, **Illumina** (USA)
- Franz Obermair, **Upper Austria University of Applied Sciences** (Austria)

An exhibition will run in parallel throughout the whole event, providing an opportunity for software and hardware partners to showcase their latest solutions and to demonstrate how they provide gains in productivity and performance. Event sponsors Cray Inc. and Silicon Graphics International Corp. will be present at the exhibition.

A gala dinner will be held on October 18, bringing together all attendees in an informal setting for private discussion and networking.

Who should attend? [ESI Global Forum 2012](#) will cater to all willing to discover and share ideas and experiences related to [Virtual Product Engineering](#). Participants registered so far include designers, engineers, analysts and decision-makers from customer and partner companies.

Registrations for the event are now open. To register, please click [here](#).

Keep up to date with the latest information about this event on our regularly updated web section [ESI Global Forum 2012](#)

For more ESI news, visit: [www.esi-group.com/newsroom](#)

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Geometric to Showcase the Futuristic CAMWorks® 2013 at IMTS 2012

22 August 2012

[GeometricLimited](#) will preview the latest version of its solids-based CNC programming solution, CAMWorks® 2013, in Booth# E-3330 during the International Manufacturing Technology Show (IMTS 2012) in Chicago, Illinois from 10 - 15 September, 2012.

The first SolidWorks® gold partner CAM system and by the far the most advanced CAD/CAM system on the market, CAMWorks continues to challenge traditional programming methods. The combination of its patented automatic feature recognition technology and state-of-the-art knowledge based machining, helps users reduce programming time from hours to minutes or even seconds.

CAMWorks 2013 raises the bar with several enhancements including a new Synchronous Machining Module (SMM) focused on simplifying programming of complex mill-turn machines. CAMWorks 2013 will also introduce the first cost effective true G-code machine simulator, giving its users the ability to create 'first time right' programs for mill-turn and other complex multi-axis machines.

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Looking beyond into the future, CAMWorks 2013 provides users with the capability to fully automate CNC programming not only for families of parts, but also for families of features regardless of part configuration to simplify the 'Order-to-Part' process. To make this a reality, CAMWorks provides its users with full tool-path to solid model associativity, the ability to capture best practices of their best programmers and machinist, and a rich set of APIs allowing its users to automate the entire CNC programming process. Just as parametric, feature based solid modelling revolutionized mechanical design, CAMWorks parametric, feature based technology is revolutionizing CNC programming.

"CAMWorks is one of the fastest growing CAM products thanks to the faith demonstrated by our astute customer base who have harnessed the power of parametric, knowledge based machining to impact their bottom lines" says Sameer Kondejkar, Sr. Director and Business Unit Head of GTS. He adds, "IMTS 2012 is a great platform to share these success stories and seek opportunities to apply these best practices to help the manufacturing community at large to regain its vigor and competitive edge".

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World Premier of VISI 20 at IMTS 2012

23 August 2012

Significant CAD enhancements and CAM developments will be unveiled in the market-leading VISI 20 mold and die focused software, at IMTS 2012.

Due to be made available in September from Vero Software, VISI 20 is a release with many new features in all areas of the product, providing further solutions for mold, tool and die makers.

Major graphic enhancements include the ability to fast-view a file before opening, allowing pan and zoom functionality. Other enhancements incorporate improved rendering, programmable command widget and the ability to show locked elements using a different graphical representation (light wireframe and light shading).

The wide range of CAD enhancements, which can be seen on booth E3114, introduce a new 'collaboration mode' allowing multiple users to work on the same project dataset. Other improvements include the ability to assign constraints to geometrical bodies (Concentric, Parallel, Coincident, Distance, etc) providing the tools to simulate the real movement of tooling and check for collisions. In addition, CAD translators have been updated to include support for Solid Works and Solid Edge assemblies, and support for PTC Creo and JTOpen B-rep entities.

One innovation is the ability to distribute the toolpath computation onto different machines connected to the same private network. This technology uses 'Distributed computing', where the computers interact with each other to achieve a common goal. Each goal is divided into many tasks, each of which is solved

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by one computer connected to the network. The main advantages are that the combination of slave computers can produce a similar computing resource to a multi-processor, super-computer and keep the master PC free from heavy calculations. A typical benchmark project for a mold cavity could easily consist of 30-40 complex toolpath operations. The ability to share the computing processes across the network is a unique advantage, producing massive time savings and vital cost savings for the end user.

New toolpath algorithms include an innovative hybrid roughing strategy, improved auto rest machining, new multi-axis flank milling and new multi-axis roughing machining. The new roughing strategy is based on hybrid machining technology that allows the system to massively reduce the rapid moments, avoid tool plunging into material, optimise stepover in excess of 50% and propagate high speed transitions and movements avoiding feed reduction while machining.

The new multi-axis flank milling is a strategy developed especially to cover all issues related to machining fluid parts for turbo-engines or aeronautical parts. The flank milling is optimized to produce the target surface with only one cut, using the whole flute length of the tool. The new multi-axis roughing is a strategy that allows the user to create 5-axis roughing toolpaths on triangle meshes using different cutting patterns.

Other CAM developments include improved collision control, a new feature recognition engine, support for additional tooling (barrel cutters, convex tip cutters, radiused chamfer cutters and radiused dove cutter) and a new 'dynamic incremental stock' (DIS) command that automatically creates the stock model from the uncut material of the previous operations -- to be used as reference for subsequent milling operations.

Wire EDM developments include the ability to auto detect undercuts. When the offset is larger than the radius of an arc, the toolpath can self-intersect. The solid simulation has been enhanced to detect these conditions where the toolpath crosses and highlight these in the movement list. The user can optionally ignore these conditions or have the simulation automatically stop when they occur. New corner relief tools allow the addition of corner relief to all internal corners and external corners independently. It is usual for a user to want to apply these separately; for example to add relief to a die-only internal corner. Finally, the technology database has been enhanced so the materials presented are filtered against the machine model as opposed to the machine family, and the available wire types are filtered against the material type. This leads to a more efficient and accurate technology selection for the user.

VISI Progress developments include a new tool building engine, improved unfolding and new middle skin functionality for flanging and blanking operations. Other enhancements include a completely rewritten explode tool, improved catalogues, and continued collaboration with CADENAS.

VISI Flow, for plastic flow analysis, has been made 64bit compatible, with improvements to sequential molding, gas assisted, and overmolding, along with new tools for conformal cooling. This thermal analysis project relies on the ability to add 3D cooling circuits, produced using rapid prototyping and previously impossible to produce using traditional drilling / boring cycles.

Concluding, Marco Cafasso, VISI Development Manager, explains the rationale behind some of the recent developments. "When dealing with imported data we fully recognise the need to work as efficiently as possible with the data provided, and we focus a great deal of effort on improving the operator work-flow. One particular instance is how we've taken the extract edge command and extended this to provide the ability to automatically concatenate polyline edges into clean curves and also break complete loops into sensible curves based on angular splitting tolerances. It is this in-depth understanding of our customer processes that makes VISI one of the leading CAD/CAM systems for the mold and die industry."

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Financial News

Autodesk Reports Second Quarter Results

23 August 2012

[Autodesk, Inc.](#) today reported financial results for the second quarter of fiscal year 2013.

Second Quarter Fiscal 2013

- Revenue was \$569 million, an increase of 4 percent compared to the second quarter of fiscal 2012.
- GAAP operating margin was 16 percent, compared to 17 percent in the second quarter of fiscal 2012.
- Non-GAAP operating margin was 25 percent, consistent with the second quarter of fiscal 2012. A reconciliation of GAAP to non-GAAP results is provided in the accompanying tables.
- GAAP diluted earnings per share were \$0.28, compared to \$0.30 in the second quarter of fiscal 2012.
- Non-GAAP diluted earnings per share were \$0.48, compared to \$0.44 in the second quarter of fiscal 2012.
- Cash flow from operating activities was \$107 million, compared to \$132 million in the second quarter of fiscal 2012.

"Our own execution challenges, combined with an uneven global economy, resulted in disappointing revenue results for the quarter," said [Carl Bass](#), Autodesk president and CEO. "Organizational changes we made within the company earlier this year slowed us down during the quarter. Despite our second quarter results, the changes better position Autodesk to meet the needs of our customers. We are focused on working through our internal challenges as rapidly as possible."

"Given the uneven macroeconomic environment and the company's desire to deliver operating margin improvement, we have taken a prudent approach to spending in fiscal 2013," continued Bass. "Our ongoing cost management measures contributed to the delivery of non-GAAP EPS within our guidance

range for the second quarter."

Second Quarter Operational Overview

EMEA revenue was \$210 million, a decrease of 1 percent compared to the second quarter last year as reported and an increase of 1 percent on a constant currency basis. Revenue in the Americas was \$199 million, an increase of 4 percent compared to the second quarter last year. Revenue in Asia Pacific was a record \$161 million, an increase of 12 percent compared to the second quarter last year as reported and 10 percent on a constant currency basis. Revenue from emerging economies was \$88 million, flat compared to the second quarter last year as reported and an increase of 2 percent on a constant currency basis. Revenue from emerging economies represented 15 percent of total revenue in the second quarter.

Revenue from the Platform Solutions and Emerging Business segment was \$218 million, an increase of 10 percent compared to the second quarter last year. Revenue from the AEC business segment was \$161 million, an increase of 2 percent compared to the second quarter last year. Revenue from the Manufacturing business segment was \$141 million, an increase of 4 percent compared to the second quarter last year. Revenue from the Media and Entertainment business segment was \$49 million, a decrease of 10 percent compared to the second quarter last year.

Revenue from Flagship products was \$318 million, an increase of 3 percent compared to the second quarter last year. Revenue from Suites was \$166 million, an increase of 5 percent compared to the second quarter last year. Revenue from New and Adjacent products was \$85 million, an increase of 5 percent compared to the second quarter last year.

Deferred revenue at the end of the second quarter was a record high of \$752 million, an increase of 17 percent compared to the second quarter last year.

Restructuring

As part of today's announcement, Autodesk shared plans for a restructuring related to executing on the company's strategy including its continuing shift to cloud and mobile computing. While Autodesk is reducing its overall staffing levels in the near-term, the company will continue to invest in key development areas. In addition, the company intends to consolidate certain leased facilities.

The company anticipates taking a pre-tax charge in the range of \$50 million to \$60 million in connection with the restructuring. Approximately \$40 million to \$45 million of the pre-tax charges will be taken in the third quarter of fiscal 2013. Most of the remaining charge will be taken in the fourth quarter of fiscal 2013.

"This restructuring is squarely focused on our continued transformation and shift to more cloud and mobile computing," continued Bass. "This action allows us to continue to invest in recruiting and hiring people who can bring Autodesk the skills and experience that are critical for achieving our mid and long-term goals. As part of the ongoing platform shift, it's clear to us that design and engineering software will move to cloud and mobile platforms. Cloud and mobile has been a major investment area

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for Autodesk over the past couple of years and this restructuring will accelerate our progress as we intend to further invest in employees with expertise and skill sets essential to this transition. Additionally, this restructuring helps us reduce costs and streamline the organization as a continuation of the activities we began earlier this year."

Separately, in response to the company's second quarter performance, the uneven economic environment, and outlook for the rest of the year, Autodesk is implementing further spend management measures, such as reducing non-sales related travel and the number of its contractors.

The company expects the combined restructuring and cost savings initiatives, partially offset by planned investments, will result in pre-tax spend (operating expenses plus cost of goods sold) increasing in the second half of fiscal 2013 by between 7 and 11 percent compared to the second half of fiscal 2012 on a GAAP basis and ranging between -2 and 2 percent on a non-GAAP basis. The difference between GAAP and non-GAAP in the pre-tax spend range comparisons is due to the exclusion from non-GAAP pre-tax spend of approximately 5 percent related to stock-based compensation expense, approximately 2 percent for the amortization of acquisition related intangibles, and approximately 2 percent related to restructuring charges, which are included in total GAAP pre-tax spend.

"Although the economic environment is challenging, our market opportunity and prospects remain strong and we remain committed to achieving our long-term growth targets by the end of fiscal 2015," concluded Bass.

To view an unabridged version of this press release,
visit: <http://news.autodesk.com/news/autodesk/20120823006198/en/Autodesk-Reports-Quarter-Results>

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Delcam Achieves Record Half-Year Sales

23 August 2012

CADCAM developer Delcam is pleased to announce that the company achieved record sales for a six-month period during the first half of 2012. Sales to 30th June 2012 increased by 15% over the same period of last year to £22.9 million, continuing the rising trend in sales that has seen the company setting new record levels in each of the last five half-year periods. Pre-tax profits for the period were £2.09 million.

Despite the continued uncertainty over the global economy, Delcam has been able to increase both its sales of new software licences and the take-up of software maintenance contracts, not only in its established markets in the automotive and aerospace industries but also in newer markets such as the dental sector.

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The strongest overall sales results continue to come from the USA and Germany, with the recovery in manufacturing in the USA making the country one of Delcam's fastest-growing markets. Good growth was also seen in sales of new software licences in many more of the company's most important markets, in particular in Russia, Korea and India.

Delcam continues to increase its investment in research and development as part of its strategy to build its market share. This investment grew to £5.6 million in the first half of the year. The company has also invested in additional equipment for its Professional Services subsidiary, which continues to grow its business, mainly as a result of increased demand from the aerospace industry.

In the latest report from US analysts CIMdata, Delcam was confirmed, for the twelfth consecutive year, to be the world's leading specialist supplier of CAM software and services, with the largest development team in the industry.

Commenting on the record achievements, Delcam Chairman Peter Miles, said, "The first half results were encouraging, especially when considering the level of financial uncertainty that exists within many of our important markets. We believe that our broad range of markets, both in geographic terms and in the number of industries we serve, leaves us better placed to capitalise on our success than the majority of our competitors and so we remain very positive about our prospects."

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HP Reports Third Quarter 2012 Results

22 August 2012

HP today announced financial results for its third fiscal quarter ended July 31, 2012. For the quarter, net revenue of \$29.7 billion was down 5% year over year and down 2% when adjusted for the effects of currency.

GAAP loss per share was \$4.49, down from earnings per share (EPS) of \$0.93 in the prior-year period. Non-GAAP diluted EPS was \$1.00, down 9% from the prior-year period. Third quarter non-GAAP earnings information excludes after-tax costs of \$10.8 billion, or \$5.49 per diluted share, related to the amortization and impairment of purchased intangible assets, the impairment of goodwill, restructuring charges, acquisition-related charges and charges relating to the wind-down of certain retail publishing business activities, including the previously announced charges related to the impairment of goodwill within HP's Services segment, the restructuring program announced in May 2012, and the impairment of the purchased intangible asset associated with the "Compaq" trade name.

"HP is still in the early stages of a multi-year turnaround, and we're making decent progress despite the headwinds," said Meg Whitman, HP president and chief executive officer. "During the quarter we took important steps to focus on strategic priorities, manage costs, drive needed organizational change, and

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improve the balance sheet. We continue to deliver on what we say we will do."

Business Group Results

- Personal Systems Group (PSG) revenue was down 10% year over year with a 4.7% operating margin. Commercial revenue decreased 9%, and Consumer revenue declined 12%. Desktop units were down 6%, notebook units were down 12% and total units were down 10%.
- Imaging and Printing Group (IPG) revenue declined 3% year over year with a 15.8% operating margin. Commercial hardware revenue and units were up 4% year over year. Consumer hardware revenue was down 13% year over year with a 23% decline in printer units.
- Services revenue declined 3% year over year with an 11.0% operating margin. Technology Services revenue was down 1% year over year, Application and Business Services revenue was flat, and IT Outsourcing revenue declined 6% year over year.
- Enterprise Servers, Storage and Networking (ESSN) revenue declined 4% year over year with a 10.9% operating margin. Networking revenue was up 6%, Industry Standard Servers revenue was down 3%, Business Critical Systems revenue was down 16%, and Storage revenue was down 5% year over year.
- Software revenue grew 18% year over year with an 18.0% operating margin, including the results of Autonomy. Software revenue was driven by 2% license growth, 16% support growth, and 65% growth in services.
- HP Financial Services revenue was flat year over year as the 2% increase in net portfolio assets was offset by a 2% decrease in financing volume. The business delivered a 10.4% operating margin.

HP generated \$2.8 billion in cash flow from operations in the third quarter. Inventory ended the quarter at \$7.3 billion, with days of inventory up 1 day year over year to 29 days. Accounts receivable of \$15.7 billion was down 4 days year over year to 48 days. Accounts payable ended the quarter at \$12.6 billion, down 4 days from the prior-year period to 50 days. HP's dividend payment of \$0.132 per share in the third quarter resulted in cash usage of \$260 million. HP also utilized \$365 million of cash during the quarter to repurchase approximately 16.5 million shares of common stock in the open market. HP exited the quarter with \$9.9 billion in gross cash.

For fiscal 2012, HP now estimates non-GAAP diluted EPS to be in the range of \$4.05 to \$4.07, at the low end of the previously provided outlook.

Full year fiscal 2012 non-GAAP diluted EPS estimates exclude after-tax costs of approximately \$6.30 per share, related primarily to the amortization and impairment of purchased intangible assets, the impairment of goodwill, restructuring charges and acquisition-related charges.

More information on HP's quarterly earnings, including additional financial analysis and an earnings overview presentation, is available on HP's Investor Relations website at www.hp.com/investor/home.

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HP's Q3 FY12 earnings conference call is accessible via an audio webcast at www.hp.com/investor/2012q3webcast.

To view an unabridged version of this press release, visit: <http://h30261.www3.hp.com/phoenix.zhtml?c=71087&p=irol-newsArticle&ID=1727793&highlight=>

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Mentor Graphics Reports Fiscal Second Quarter Results

23 August 2012

Mentor Graphics Corporation today announced financial results for the company's fiscal second quarter ended July 31, 2012. The company reported revenue of \$240.8 million, non-GAAP earnings per share of \$.21, and GAAP earnings per share of \$.16. During the quarter, the company continued its share buy-back, repurchasing 1.4 million shares for \$20 million. Since the first fiscal quarter of 2012, the company has repurchased 8.2 million shares for \$110 million.

"Revenues and earnings were an all-time record for a second quarter, and bookings were at the second highest level for any second quarter in company history," said Walden C. Rhines, chairman and CEO of Mentor Graphics. "Like the whole electronic design automation industry, Mentor is benefiting from the transition to 20nm and 28nm which is driving significant design activity and resultant software demand. Additionally, the company's investments in system design, and non-traditional electronic design automation markets like embedded software, helped produce the strong results in the quarter. We are on track for record revenue and earnings for fiscal year 2013."

During the quarter, the company announced collaborations with TSMC, GLOBALFOUNDRIES and Samsung in advanced process nodes. Mentor also introduced a GENIVI 2.0-compliant, Linux-based, in-vehicle infotainment solution. The company's Capital tool suite for transportation electrical systems design was accredited to IBM's "Ready for IBM Rational" program. Mentor also introduced a unique, general-purpose software solution that combines one dimensional and three-dimensional computational fluid dynamics—the first result from the merged technologies made possible by the recent acquisition of Flowmaster Ltd.

"We are pleased with our performance this quarter, beating our guidance by four cents. With continued focus on cost controls, 55% of incremental year-over-year revenues dropped through to operating income," said Gregory K. Hinckley, president of Mentor Graphics. "A weak euro, a weak rupee, and a strong yen worked to our advantage. We reaffirm revenue guidance of \$1.1 billion and are raising our earnings estimate."

To view an unabridged version of this press release,

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visit: http://www.mentor.com/company/news/upload/Q2FY2013-earnings_pdf

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Synopsys Posts Financial Results for Third Quarter Fiscal Year 2012

22 August 2012

Synopsys, Inc. has reported results for its third quarter of fiscal year 2012.

For the third quarter of fiscal year 2012, Synopsys reported revenue of \$443.7 million, compared to \$386.8 million for the third quarter of fiscal year 2011, an increase of 14.8 percent.

"Our business is strong, reflected in the excellent results we delivered in the third quarter," said Aart de Geus, chairman and co-CEO of Synopsys. "We see our customers continuing to drive design aggressively, even in the context of an uncertain economy. The electronic design automation and IP industries are increasing in importance, and Synopsys in particular is well-positioned to accelerate innovation due to its combination of financial strength, technology leadership, global support, and strategic vision."

GAAP Results

On a generally accepted accounting principles (GAAP) basis, net income for the third quarter of fiscal year 2012 was \$75.7 million, or \$0.50 per share, compared to \$52.1 million, or \$0.35 per share, for the third quarter of fiscal year 2011.

Non-GAAP Results

On a non-GAAP basis, net income for the third quarter of fiscal year 2012 was \$82.3 million, or \$0.55 per share, compared to non-GAAP net income of \$68.1 million, or \$0.46 per share, for the third quarter of fiscal year 2011.

Financial Targets

Synopsys also provided its financial targets for the fourth quarter and full fiscal year 2012. These targets do not include any impact from the pending acquisition of SpringSoft, or other future acquisition-related expenses that may be incurred in fiscal year 2012. These targets constitute forward-looking information and are based on current expectations. For a discussion of factors that could cause actual results to differ materially from these targets, see "Forward-Looking Statements" below.

Fourth Quarter of Fiscal Year 2012 Targets:

- Revenue: \$440 million - \$448 million
- GAAP expenses: \$387 million - \$403 million
- Non-GAAP expenses: \$345 million - \$355 million

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- Other income and expense: (\$2) million - \$0 million
- Tax rate applied in non-GAAP net income calculations: approximately 24 percent
- Fully diluted outstanding shares: 150 million - 154 million
- GAAP earnings per share: \$0.22 - \$0.28
- Non-GAAP earnings per share: \$0.46 - \$0.48
- Revenue from backlog: greater than 90 percent

Full Fiscal Year 2012 Targets:

- Revenue: \$1.742 billion - \$1.750 billion
- Other income and expense: \$1 million - \$3 million
- Tax rate applied in non-GAAP net income calculations: approximately 24 percent
- Fully diluted outstanding shares: 148 million - 152 million
- GAAP earnings per share: \$1.25- \$1.31
- Non-GAAP earnings per share: \$2.09 - \$2.11
- Cash flow from operations: approximately \$450 million

To view an unabridged version of this press release,
visit: <http://synopsys.mediaroom.com/index.php?s=43&item=1057>

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Implementation Investments

FLIR Speeds Thermal Imaging FPGA Development Through Automatic HDL Generation From MATLAB

21 August 2012

MathWorks has announced that FLIR Systems used MATLAB and HDL Coder to reduce thermal imaging FPGA development time from concept to field-testable prototype by 60%.

By using MATLAB to design, simulate, and evaluate algorithms, and HDL Coder to rapidly implement the best algorithms on FPGAs, FLIR was able to speed development, complete enhancements in hours instead of weeks, and reuse code for prototyping and production.

With MATLAB and HDL Coder, FLIR's algorithm engineers produce FPGA prototypes themselves instead of handing written specifications to hardware engineers, who may not have full knowledge of the algorithm. This new thermal imaging algorithm development workflow also eliminates the error-prone step of translating algorithms to HDL by hand, adding time for developers to try more design iterations.

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As a result, FLIR algorithm engineers are able to explore a variety of design variations, gain confidence in the final prototype, and reuse code for production.

'With MATLAB and HDL Coder we are much more responsive to marketplace needs. We now embrace change, because we can take a new idea to a real-time-capable hardware prototype in just a few weeks. There is more joy in engineering, so we've increased job satisfaction as well as customer satisfaction,' said Nicholas Hogasten, image processing technology manager, FLIR Systems.

'To quickly and accurately develop FPGAs, algorithm engineers need an environment that facilitates iterative design from concept to implementation,' said Sudhir Sharma, HDL technical marketing manager, MathWorks. 'Now, with HDL Coder, these engineers can prototype and verify their MATLAB and Simulink algorithms on FPGAs with the ease of a push button workflow.'

For more details on FLIR Systems' use of MATLAB and HDL Coder, see the story '[FLIR Accelerates Development of Thermal Imaging FPGA](#)'.

About FLIR Systems

FLIR Systems, Inc. is in the design, manufacture, and marketing of sensor systems that enhance perception and awareness. The Company's advanced thermal imaging and threat detection systems are used for a wide variety of imaging, thermography, and security applications, including airborne and ground-based surveillance, condition monitoring, research and development, manufacturing process control, search and rescue, drug interdiction, navigation, transportation safety, border and maritime patrol, environmental monitoring, and chemical, biological, radiological, nuclear, and explosives (CBRNE) detection. For more information, visit the Company's web site at www.FLIR.com.

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Mentor Graphics Questa CDC Adopted by iD Corporation for Clock Domain Crossing Verification Signoff

21 August 2012

Mentor Graphics Corp. today announced that iD Corporation has selected Questa® CDC for clock domain crossing verification of their complex SoC and FPGA designs. iD Corporation, which develops ICs for network and wireless communications, adopted Questa CDC as their standard design methodology to improve both design quality and design schedule predictability. Questa CDC has enabled iD to achieve successful tapeouts of very large scale SoC designs, up to 90M gates in size, with many asynchronous clocks.

"We are extremely pleased that with Questa CDC, we have eliminated the risks of project delay and silicon re-spin due to asynchronous clock crossings," said Koetsu Narisawa, vice president, Hardware

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Development, iD Corporation. “With Questa CDC, we now find CDC problems early in the development phase, before simulation, and avoid the time consuming process of debugging these issues in hardware. Key attributes of Questa CDC, such as its comprehensive analysis and its intuitive visualization of CDC results, prompted us to adopt the Questa CDC methodology for all of our SoC and FPGA designs.”

As developers of designs for networking devices, iD’s design teams are faced with the two-fold challenge of increased design complexity and shrinking time-to-market windows. The vast majority of today’s SoC and FPGA designs contain multiple asynchronous clocks and companies such as iD need a comprehensive solution for CDC verification. Using Questa CDC’s static analysis capabilities, iD’s design teams can quickly and easily uncover bugs in asynchronous circuits and avoid discovering them late in the design cycle or during lab verification.

“iD is indicative of the trend we see with progressive design companies across the industry who have standardized on Questa CDC,” said Roger Sabbagh, product marketing manager, Questa Static Verification, Mentor Graphics. “Questa CDC gives companies such as iD the confidence to tapeout designs with even the most demanding CDC verification requirements.”

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Proenza Schouler Selects Centric Software

22 August 2012

Proenza Schouler has chosen Centric Software, Inc., to provide its product lifecycle management (PLM) system.

Proenza Schouler has purchased the Product Specification, Material Management, and Calendar Management modules of the Centric 8 PLM system for apparel and luxury goods companies.

At Proenza Schouler, the Centric [PLM software](#) will provide a flexible system to support growth, says Patrice Lataillade, COO/CFO of the company. “We have a young, fast-growing company, known for exceptional design work. We need a systematic approach to our processes that will not compromise or stifle our creative focus.” The Centric PLM system will provide Proenza Schouler a level of business process sophistication equivalent to the level of design sophistication the brand has achieved, adds Lataillade.

Allowing Proenza Schouler to maintain its focus on design, the Centric 8 PLM software for fashion and luxury goods companies will result in significant reduction in the myriad of Excel sheets that staff has been using to manage the business. “Getting to a single version of the truth about the product means our teams will not be sidetracked from their creative contributions by tedious inefficiencies,” Lataillade explains.

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Proenza Schouler selected Centric 8 [PLM for fashion and luxury companies](#) for several key reasons.

Flexibility. Centric's PLM system meets the apparel industry's specific and unique need for flexibility, says Lataillade. "The iterative, collaborative design process that is characteristic of the apparel industry demands a PLM system that is designed to incorporate that fluidity," he explains. "Centric provides exactly that. It is clearly designed for the apparel industry."

Ability to focus on artistic vision. "Artistic vision is built into the heart of all decisions at Proenza Schouler," says Lataillade. "Centric 8 will allow our technical design team to focus its time on the artistic, creative process—not on managing spreadsheets."

Integration of rich design graphics. The Centric 8 PLM system is flexible enough to allow Proenza Schouler's design teams to continue working with their current pen-and-ink methods for graphic design. "It was music to our designers' ears to hear that they can continue to work with their current method rather than forcing them to work in a different way," explains Lataillade.

Advanced material management. High-fashion makers like Proenza Schouler work with rich and expensive materials. Centric's PLM software will give the company the ability to completely manage material selection, sample development and production integration. The Material Management module will allow the company to intricately track raw materials and trims. The Product Specification module will manage grading variations between consumer fashions as well as the bold lines and styles of the runway, adds Lataillade.

"Proenza Schouler is a company that is shaping—not following—consumer demand," says Lataillade. "The flexibility that Centric's [PLM system](#) provides to approach design is absolutely key for Proenza Schouler's position as a consumer driver."

Centric 8 PLM will help Proenza Schouler free its creative teams from tedious and burdensome distractions, so they can remain focused on delivering visionary, top-quality products to their customers, says Chris Groves, Centric CEO. At the same time, Centric will allow the business team to be more productive and keep the company moving forward. "Centric's Agile DeploymentSM methodology, which quickly delivers return on investment for fast-growing customers like Proenza Schouler, will assure the company achieves its business goals swiftly."

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Vessix Vascular Selects Product Lifecycle Management Solution from Omnify Software

21 August 2012

Omnify Software today announces its latest [Omnify Empower PLM](#) implementation case study featuring a new medical device company, [Vessix Vascular](#). Vessix Vascular is a privately-held, venture-backed, company that offers a unique approach to treating uncontrolled hypertension that is faster, easier to use and less painful for patients than any renal denervation system currently available in the market.

Vessix Vascular is comprised of a group of individuals with previous experience at successful medical device companies and one of their first priorities was to formalize their product design and development processes with PLM software. They wanted to implement PLM early on as a best practice for managing Bill of Materials (BOMs), engineering changes, product documentation, training records, and Corrective and Preventive Actions (CAPAs).

"Implementing a solution early on prevents the company from being bogged down by legacy data and processes when transitioning to an automated system in the future and also helps to eliminate resistance to change from employees entrenched in those practices," stated Rinda Sama, Vice President of Operations and Quality for Vessix Vascular. "Tools like Omnify Empower PLM that are affordable, already configured to meet the needs of medical device manufacturers and can adapt to a company's processes make it easy to adopt PLM as a start-up and get off on the right foot."

Vessix Vascular has already been through two ISO 13485 Quality System audits using the Omnify Empower PLM system. Prior to Empower PLM, Vessix would have to find and print documents to pull for an audit. Now, they can quickly search in Empower PLM to show the necessary documents along with change history, who approved the change, when it was released, change justifications, and links to any other Omnify Empower items relevant to that part.

"As the value of PLM software has become increasingly apparent among smaller manufacturers, we have seen more and more start-up companies -- particularly medical device manufacturers with their compliance mandates -- turning to Omnify Software for their PLM needs," stated Jack Rowntree, Chief Operating Officer for Omnify Software. "We make enterprise PLM accessible to the start-up market by delivering an easy-to-use, scalable system with the functionality these companies need to properly manage their product and compliance data."

For the complete case study visit: <http://www.omnifysoft.com/Customers/Success.aspx?customer=25>

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Product News

Allplan Campus in Spanish: International CAD Student Portal Goes Online in Spain

20 August 2012

To coincide with the start of the new semester, the international student portal “Allplan Campus” is now online in all Spanish-speaking countries. Under www.allplan-campus.com pupils, students and teaching staff in the fields of architecture and engineering can download the BIM software Allplan for free, use e-learning tools, and swap ideas and information about CAD-related topics on the international forum.

“Allplan Campus went live three years ago and is now a popular online portal for pupils, students and teachers of architecture and engineering. Our range of offers for the Spanish-speaking world make us ideally placed to handle the big rush to be expected in the new semester”, explains Karin Schmidt, Team Manager of Education at Nemetschek Allplan.

Overview of Allplan Campus

Allplan Campus is aimed at a range of different education centers, from vocational training colleges to universities around the world. The latest version of Allplan can be downloaded free from the online platform and offers the full range of functions for architecture and engineering in no fewer than 18 languages. There are also around 200 e-learning lessons on component-related design with Allplan, including a quick-start program which provides a hands-on illustration of how to use Allplan based on a real-life project. The international forum currently has around 15,000 threads on more than 3,500 topics. The country-specific moderators – comprising Nemetschek Allplan experts, teachers and students – provide rapid answers to almost every question about Allplan.

Allplan Campus is currently available in German, English, French, Italian, Spanish and Czech.

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Agilent Technologies Ships New Software for Generating and Qualifying SPICE Models

23 August 2012

Agilent Technologies Inc. has announced shipment of its first release of the SPICE modeling tools it obtained through the acquisition of Accelicon Technologies in February.

The tools - [Model Builder Program \(MBP\)](#), [Model Quality Assurance \(MQA\)](#) and [Advanced Model Analysis \(AMA\)](#) - are now an integral part of Agilent's device-modeling portfolio.

“The release today unambiguously demonstrates our full and long-term commitment to MBP, MQA and AMA, all of which have enjoyed popular and unwavering support from our worldwide customer base,” said Brian Chen, device modeling product manager with Agilent EEs of EDA.

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MBP 2012.07 offers turnkey solutions for SPICE model extraction. A rich set of powerful and unique features make it the tool of choice for high-volume, high-efficiency model generation at foundries and integrated device manufacturers, and for SPICE library customization at leading-edge fabless companies to enable concurrent circuit designs.

MQA 2012.07 serves as a platform for performing automated, comprehensive and systematic SPICE model qualification. It is the de facto industry-standard tool for SPICE library signoff at foundries and IDMs, and for SPICE library acceptance in design houses.

AMA 2012.07 meets the need for SPICE model and layout-versus-schematic covalidation for cutting-edge technologies where layout-dependent effects have become prevalent due to performance-enhancing processing techniques.

"As the leading provider of semiconductor device-modeling solutions, we continue to innovate and improve workflow efficiency and model accuracy," said Chris Morton, device modeling business manager with Agilent EEs of EDA. "The full device-modeling portfolio from Agilent, which consists of IC-CAP/WaferPro, MBP, MQA and AMA, is the industry's only high-quality, high-efficiency turnkey solution for silicon modeling, from measurement to data analysis and from model generation to model qualification."

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AVEVA Releases Pipe Stress Interface for ROHR2

21 August 2012

AVEVA today announced the release of AVEVA Pipe Stress Interface – R2 for Sigma's ROHR2 in response to customer demand. This new interface will enable AVEVA PDMS customers to benefit from improved productivity and reduced design time through the automation of a two-way exchange of information between each system. This will avoid manual re-entry of data, minimising the risk of error and ensuring consistency.

"Interoperability and open standards are key to the engineering software industry and AVEVA supports this effort through a number of initiatives", comments Bruce Douglas, Senior VP Marketing & Product Strategy, AVEVA. "This new interface is just another example of this approach that again proves that AVEVA PDMS is the most configurable 3D plant design solution for the process and power plant industries."

AVEVA's Integrated Engineering & Design approach enables improved project efficiency and reduced engineering and design costs as users manage information through a single model. To learn more visit www.aveva.com/pdms

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AVEVA Releases Structural Analysis Interface - SP for STAAD.Pro

23 August 2012

AVEVA today announces the release of AVEVA Structural Analysis Interface - SP for Bentley's STAAD.Pro. The new product fulfils customers' needs for an interactive and intuitive method of analysing structural models generated by [AVEVA PDMS](#). The new product supports an improved workflow which saves time and effort by automating the two-way exchange of information between 3D structural design and structural analysis disciplines.

The interface was developed at AVEVA's Power Centre of Excellence (PCoE) based in [Guangzhou](#). The close collaboration of development and feedback from leading customers means that the product has been tailored for customer needs. This is an excellent example of AVEVA's commitment to supporting open standards and interoperability across its entire plant, marine and enterprise software product portfolios.

'Structural engineers can export from AVEVA PDMS, analyse and rework the structural model in STAAD.Pro and re-import,' comments Bruce Douglas, Senior VP Marketing & Product Strategy, AVEVA. 'The approach means reduced man hours, since there is less time spent validating the design and correcting errors. Its ease of use and integration allows improved design quality as well as being quick to adopt'.

AVEVA's Integrated Engineering & Design approach enables improved project efficiency and reduced engineering and design costs as users manage information through a single model.

To learn more about AVEVA's current interfaces visit [www.aveva.com/pdms](#).

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Catalog Data Solutions Configurator, Catalog and CAD Download Solution Launched by ITT Compact Automation

21 August 2012

[CDS](#) (Catalog Data Solutions) today announced that its online parts catalog, configurator and CAD download solution is now live on the [ITT Compact Automation](#) website.

ITT Compact Automation is a market leading manufacturer of space efficient custom automation solutions such as [pneumatic cylinders](#), [hydraulic cylinders](#), and [linear actuators](#) along with standard pneumatic automation components. "We've adapted to the fact that product selection and buying has

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changed and customers commonly now research and select products online. Our website now incorporates a searchable product catalog so it's easy to find the right product, configurators to select and size them and downloadable CAD models to save customers time as they specify the products into their designs," said Bob Lofink, Product Group Manager, Compact Automation Products, ITT Control Technologies. "The CDS solution provides an excellent user experience for our customers and streamlines our ordering process through integration with our ERP system."

"CDS is delighted to support Compact Automation with our integrated [CDS Catalog](#), [CDS Configurator](#) and [CDS ModelServer](#) solutions. Bob is right – today on average 60% of purchasing decisions are made before talking to a sales rep. Customers are searching online and industrial suppliers' marketing and sales process needs to support and influence the way customers now research," said John Major, CEO CDS. "Of all types of online marketing content (e.g. white papers, case studies, brochures, videos, demos, recorded webinars, reviews, CAD model downloads, etc.) only one is known to lead to a sale nearly 50% of the time! CAD downloads through inclusion directly in customers' design or specification documents (extreme relevance!) may be the most efficient and effective website visitor conversion tool available."

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Delcam CRISPIN Launches Learning Zone for Footwear CADCAM

22 August 2012

Delcam CRISPIN has introduced a Learning Zone within its www.delcam-crispin.com website. This includes videos introducing the company's various design and manufacturing software programs for the footwear industry and demonstrating the latest enhancements in the 2012 versions, a range of brochures detailing the benefits of using CADCAM for footwear manufacture and access to an evaluation version of the ShoeMaker software for concept design.

Delcam CRISPIN is a supplier of CADCAM software and services to the footwear industry. It is able to provide a complete software solution for the design and manufacture of lasts, soles and uppers. The company does not develop its own hardware but its close relationships with manufacturers of scanning equipment and cutting tables allow it to supply both hardware and software to organisations wishing to buy from a single source.

The complete range of Delcam CRISPIN software includes programs for importing scan data from lasts or feet and developing new or modified last designs, for concept design of uppers and soles, for pattern development, nesting and cutting, for grading of lasts, uppers, soles and patterns, and for machining and inspection of moulds for soles. Complementary programs are available for costing and for the creation of technical manufacturing specifications to be provided to in-house production units or to sub-contractors.

At every stage, Delcam CRISPIN software provides the tools designers and manufacturers need to produce high-quality footwear both cost-effectively and in the shortest possible lead time.

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ESI Announces VA One 2012

21 August 2012

ESI Group announces the release of VA One 2012. VA One is a complete solution for simulating noise and vibration across the full frequency range and seamlessly combines Finite Elements, Boundary Elements (BEM), and Statistical Energy Analysis (SEA) in a single model. This new release includes an easy-to-use Design Optimization module that is fully integrated within the VA One environment, along with significant enhancements to VA One's Boundary Element solvers that deliver faster solution times.

Design Optimization Module

When designing for noise and vibration performance, it is often useful to be able to optimize automatically or balance various parameters of a design in order to meet certain performance goals. A common application is to ‘balance’ the interior sound package in transportation applications in order to reduce mass whilst also meeting various performance targets. [VA One 2012](#) provides a fully integrated Design Optimization module within the VA One environment. Parameter Variations, Parameter Optimizations and Monte Carlo simulations can all be performed quickly and easily using the VA One Graphical User Interface. [VA One's](#) intelligent data caching also ensures fast solve times when using Design Optimization.

“Optimizing interior sound package is important in order to meet vehicle cost, noise, weight, and fuel efficiency targets” said Fumihiko Kosaka, Noise and Vibration Engineer, Mitsubishi Motors Corporation (MMC), “VA One is a standard tool for MMC and helps us meet our targets”.

Faster BEM models

The recent emergence of online cloud computing resources has opened up new possibilities for solving large BEM Models from desktop machines. [VA One 2012](#) includes inbuilt support for solving BEM models in parallel on multi-core desktop machines, remote Linux machines, departmental networks, clusters and clouds. [VA One](#) automotive and aerospace BEM models, that previously required overnight execution on standard clusters, have been solved in minutes using Cloud computing (using over 800 parallel cores, while incurring negligible hardware costs). A new flexible ‘surge’ licensing option is being piloted in [VA One 2012](#) to support this functionality. The BEM solvers in [VA One 2012](#) have also been enhanced with a new adaptive integration scheme for standard BEM which results in faster solution times, and a new preconditioner and iterative solver for Fast Multipole BEM which results in significant convergence improvements.

Productivity enhancements for Statistical Energy Analysis models (SEA)

New functionality has also been added to [VA One 2012](#) for quickly editing the attributes of multiple SEA subsystems. This reduces the time required to build and modify SEA models resulting in

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significant productivity gains.

“We are pleased to announce the release of VA One 2012” said Dr. Phil Shorter, Director of Vibro-Acoustic Product Operations at ESI Group. “This release ensures our customers have access to advanced noise and vibration methods to help guide design, without needing customized processes for optimization or for solving large BEM models.”

For more ESI news, visit: www.esi-group.com/newsroom

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New Visual Viewer App for the iPad Now Available

23 August 2012

Visual 2000 International Inc. announces immediate availability of the all-new Visual Viewer app for the iPad. The mobile app enables companies using the Visual PLM.net Product Lifecycle Management (PLM) solution to make their product catalogs accessible to sales and other qualified team members on the popular device.

According to Visual 2000’s Jonathan Benoualid, “As the fashion business grows more mobile, our clients want to leverage the product content stored in PLM as they conduct business on the go. Making it simple and easy for sales people to access and share their product catalogs with buyers on an iPad presents greater opportunities to grow and accelerate sales. Moving forward, we plan to expand the capabilities of this and other mobile apps under development to meet the interest and need for greater mobility in the marketplace.”

Visual Viewer 1.0 is available as a free download in the Business category at the App Store. Customer must also run the latest version of Visual PLM.net on their application server to access content through the app. In addition to viewing catalogs, iPad users will also be able to email product catalogs to any contacts in their device. Catalog and product content in the Adobe PDF file format is available for use on the iPad.

Visual 2000 International Inc. develops and markets comprehensive software solutions for the Apparel, Footwear, and Accessories (AFA) industry.

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Seamless Integration of CATIA V6 and SAP

21 August 2012

Intelligent business process solutions by CENIT connect the technical enterprise segments with the CATIA V6 applications by Dassault Systèmes (DS) and the commercial enterprise segments with ERP applications by SAP. CENIT's know-how and competency for projects in this field is based on more than 20 years' experience in implementing PLM projects for the manufacturing industry.

As strategic development and consulting partner to SAP, CENIT offers solutions for integrating CATIA V4, V5 and V6 with SAP. More than 150 enterprises with over 10,000 productive workstations already rely on DS-SAP integration solutions by CENIT. All solutions also support mixed operation of different CATIA versions as well as the migration of legacy data when switching CATIA versions. The CATIA solutions optimally support business processes in which SAP is deployed not only as an ERP system, but also used widely for PLM purposes.

With CATIA V6 and cenitCONNECT, it's now possible to develop end-to-end business processes across the entire enterprise and to provide all process participants with the right and relevant information they need in the respective context. For example, enterprises benefit from reliable and automatically synchronized master data, efficient and holistic processes, high investment security, as well as the scalability of the solution.

Interested parties can gain a first-hand impression of the business process solution and its functionalities – online, at various web seminars by CENIT AG, or live at the International SAP Conference on Product Lifecycle Management 2012, to be held on 9 and 10 October in Heidelberg. For further information on the web seminars, please visit www.cenit.de/catiasap

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SoftInWay Releases Free AxSTREAM Lite Edition of its Turbomachinery Design Suite

24 August 2012

SoftInWay Inc. has released a new free edition of its product AxSTREAM, named “AxSTREAM Lite”. This is a completely free software, made specifically for engineering students.

AxSTREAM Lite is meant to be open and accessible to all students who are studying Turbomachinery and aspire to deepen their understanding of fundamentals of turbine design and analysis. SoftInWay also launched a user [forum where engineering students can collaborate, discuss and provide mutual support](#).

"Since the company was founded in 1999, we have focused on supporting OEMs and Service Providers by offering our decades of Turbomachinery Design and Optimization experience, and later, the AxSTREAM software. Since 2005, when it was first released, we have developed a significant following from major market leaders in design and manufacturing but they still have one pain point – it's hard to find young, educated and deeply skilled engineers. So, to support the educational community, our colleagues and our friends, we released this free software, to really give every engineer the tools to learn, and grow. We need to work together and push each other to create better, smarter and

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cleaner technologies. We hope that AxSTREAM Lite can put this power in the hands of our users and give them the push they need to break through the current efficiency frontiers." said Dr. Leonid Moroz, Founder & CEO of SoftInWay Inc.

The company is also planning to support Turbomachinery design contests and other student driven initiatives, which they hope, will encourage further learning and developing of the communities' skill sets.

To learn about AxSTREAM 3.2 (Professional), please visit: <http://www.softinway.com/products/axstream-Turbomachinery-design.asp>

To learn more about AxSTREAM Edu, please visit: <http://www.softinway.com/education/axstream-educational-version.asp>

To learn about Free AxSTREAM Lite, please visit: <http://www.softinway.com/products/axstream-Lite.asp>

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ZWCAD+ Integrates More Applications to Diversify Design Experience

20 August 2012

ZWCAD Design today officially announced ZWCAD+ has successfully integrated CivilCAD, a renowned CAD application for Hispanic civil engineering and surveying, because of ZWCAD+'s code-level APIs compatibility. With more popular applications like CivilCAD ported with high efficiency, ZWCAD+ is now able to integrate more custom design solutions, and thus satisfy different needs of designers with a competitive price.

"Ever since the release of [ZWCAD+](#) Beta, we have been working closely with a lot of application developers across the globe," said Kingdom Lin, Director of ZWCAD+ Overseas Business. "After the success of CADprofi, we were once again amazed by how quickly more developers ported their applications, including CivilCAD onto ZWCAD+. These successful cases speaks volumes about the quality of ZWCAD+'s APIs. We are confident that in the coming days, more users will be able to enjoy additional custom design solutions that integrates ZWCAD+'s powerful CAD capability."

As one of the recent successfully ported applications, [CivilCAD](#) is a professional CAD application for Hispanic civil engineering and surveying, used by government agencies, construction companies, and universities.

"We were surprised by how little time it took to port CivilCAD to ZWCAD+. It saved us a lot of time and showed how much ZWCAD+ has improved. By porting CivilCAD to it, we are happy to see, users are able to automate and simplify civil construction design tasks in an environment that offers great

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design experience. Meanwhile, for users who are accustomed to other mainstream CAD software, switching to the beginner-friendly ZWCAD+ demands little relearning time.” commented Héctor Martínez, CEO of CivilCAD. “Together with ZWCAD+, we dramatically bring down the overall cost for those who use ZWCAD+ and CivilCAD as their design solution.”

It only took 3 months for CivilCAD to migrate to ZWCAD+. The excellent APIs ensure the successful migration. It greatly improves the efficiency of porting and effectiveness of running apps to ZWCAD+.

“We really appreciate CivilCAD’s effort in porting their application to ZWCAD+. It is a win-win. On one hand, they can make the most out of our huge existing customer base in the Hispanic market where our partner network is tightly-knit.” said Kingdom Lin. “On the other, by working with CivilCAD, we are able to bring Hispanic users an all-encompassing CAD solution integrated with CivilCAD at a compelling cost.”

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ZWCAD Mechanical Helps Accelerate Mechanical Design

17 August 2012

ZWSOFT officially unveiled ZWCAD Mechanical, a ZWCAD+ based software for manufacturing. It has functional features in drawing setting, BOM filling and editing, flexible dimensioning and symbol marking. All this will help save designers hours of mechanical drafting time.

Boosted Efficiency in Work Collaboration:

- **Easy Switch between International Drafting Standards:** To let users deliver consistent and standard-based production results, ZWCAD Mechanical software packages supports many international drafting standards, such as ISO (International), ANSI (American), DIN (German), JIS (Japanese), and GB (Chinese). It also provides an easy way to customize your own enterprise standards. The Standards Synchronous Tool ensures teams to use uniform and up-to-date standards.
- **Intelligent Balloons and BOMs Association:** During manufacturing there might be costly stops for wrong counting, identification, and ordering of parts whenever there’s change in the design. In ZWCAD Mechanical, users can rest assured as automated and associative part and Bill of Materials will be automatically updated as design changes.

Extremely Productive in Mechanical Design:

- **Flexible and Advanced Dimensioning:** For users to simplify the task of annotating mechanical drawings, ZWCAD Mechanical provides flexible and advanced dimensioning functions. For example, with abbreviated dialog boxes, users can control and expand only the variables relevant to manufacturing, as well as integrate tolerance and fit list information. Smart dimensioning tools force overlapping dimensioning to automatically space themselves appropriately.

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- **Unique and Powerful Assisting Tools:** In order to further ease designer's workload, ZWCAD Mechanical brings a package of powerful assisting tools, including an Engineering Calculator, [DWG](#) Data Viewer, Jigsaw Printing and more. Jigsaw Printing joins multiple drawings and prints in batches. The Engineering Calculator brings users more than 30 engineering equations and formulas in the library to help compute complex calculations. While the DWG Data Viewer lists all table data in the drawing.

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