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Company News

3D Systems Expands Coverage within Turkey

22 March 2013

[3D Systems](#) announced a new reseller agreement with Al-mera, a leader in jewelry solutions, based in Istanbul, Turkey. Through the exclusive partnership with Al-mera 3D Systems plans to increase its coverage and focus on delivering 3D printing production solutions to the growing Turkish jewelry marketplace.

The cornerstone of the agreement is 3D Systems' proven [ProJet® 3510 CPX and CPXPlus](#) 3D printers. With the ProJet, Al-mera plans to target traditional jewelry casting, offering 100% wax micro-detail patterns with superior surface quality, extreme fine detail and exceptional precision. This advanced manufacturing solution enables rapid workflow, mass customization and improved efficiencies and productivity for jewelry manufacturers.

“We are excited to welcome a proven, highly successful partner like Al-mera to 3D Systems,” said Michele Marchesan, Vice President and General Manager 3D printers for 3D Systems. “This agreement allows us to cover the rapidly growing jewelry marketplace with a knowledgeable reseller and offer state of the art technology to automate the time honored casting processes of jewelry manufacturing across the region.”

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Autodesk Announces Appointment of Tom Georgens to Board of Directors

26 March 2013

[Autodesk Inc.](#), announced the appointment of Tom Georgens, chief executive officer, president and director of NetApp, Inc., to its Board of Directors, effective March 21, 2013.

“We are pleased to welcome Tom Georgens to the Autodesk Board,” said Carl Bass, Autodesk president and chief executive officer. “Tom brings a wealth of experience and perspective in working with established technology companies that will serve the best interests of the company and our shareholders.”

Georgens has served as chief executive officer and president of NetApp since August 2009, and has been a member of its board of directors since March 2008. In other roles at NetApp, he served as executive vice president and general manager of enterprise storage systems, executive vice president of product operations and chief operating officer. Before joining NetApp, Mr. Georgens served LSI Corporation and its subsidiaries, in various capacities, including as chief executive officer of Engenio and executive vice president of LSI Logic. Prior to this, Mr. Georgens spent 11 years at EMC Corporation in a variety of engineering and marketing roles. Mr. Georgens received B.S. and M.Eng. degrees in computer and systems engineering from Rensselaer Polytechnic Institute and an MBA from Babson College.

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Autodesk Launches Clean Tech Partner Program in Australia and New Zealand

26 March 2013

[Autodesk, Inc.](#) has expanded its popular Clean Tech Partner Program to include Australia and New Zealand. This marks the fifth time the company has grown the program, which is also run in North America, Europe, Israel, Japan and Singapore. The [Autodesk Clean Tech Partner Program](#) provides [Digital Prototyping](#) software and support to emerging clean technology companies, with the goal of accelerating innovation that addresses some of the world’s most pressing environmental challenges.

The program is being launched in conjunction with the third annual [Australian Clean Technologies Competition](#), of which Autodesk is a principal sponsor. The competition seeks out Australia's top high-tech, high-skill companies in the clean technology sector and provides them with mentoring and business development opportunities. Many of its participants will be among the first Australian companies to access Autodesk’s software and support through the newly launched program.

Autodesk has selected Australia as the latest site for its Clean Tech Partner Program based on the country’s business innovation, established position in clean technology and high level of skills in the sector. This is reflected in the fact that one quarter of Australian manufacturing revenues in 2011 were

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derived from clean technology, according to the [Australian Clean Tech Review for 2012](#).

“Australia maintains a strong culture for appropriate risk taking, whether in sport, resource exploration or product development. This trait, combined with its strength in world-class engineering talent and stable economic and legal structures, makes it a prized location for clean technology prototypes. However, many prototypes do not see the light of day due to local market size constraints and the tyranny of distance to other markets. Digital prototyping offers a highly attractive approach to exploring paths to market,” stated Dr. Marc Newson, clean technologies supplier advocate.

Lynelle Cameron, senior director of sustainability and philanthropy at Autodesk added: “Autodesk software gives designers and engineers an unprecedented ability to understand the consequences and impact of their design decisions on the world. Through the Clean Tech Partner Program we can help ensure that the most creative entrepreneurs in Australia and New Zealand have access to powerful design tools that can speed up the development of important clean technologies and reduce their time to market.”

Canberra-based Nexus eWater is the program’s first partner in Australia. The company has developed a pioneering on-site water and energy recycler for domestic installations. This unique product harnesses the power of grey water, combining two breakthrough low-cost technologies: the Nexus reHeater, a quiet, ultra-efficient water heater which can reduce typical water heating costs by up to 75%, and the Nexus reCycler, a water conservation product that can reduce combined residential water and wastewater volumes by 50% and produce clean reusable water for irrigation and toilet flushing at a cost lower than tap water.

Autodesk software helped the company significantly reduce its development time. Andrew Hermann, engineer and founding director at Nexus eWater explains, "Autodesk Inventor helped us fast track the development process. We were able to predict the performance of prototypes within minutes without having to spend weeks in the workshop building physical components."

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CAD Masters Earns Autodesk Civil Infrastructure Specialization

29 March 2013

[CAD Masters](#), an Autodesk Gold Partner, today announced that it has earned the new Civil Infrastructure Specialization designation for value added resellers from [Autodesk, Inc.](#) As an Autodesk Specialized Partner, CAD Masters has shown that they have made significant investment in their people, they have a solid business plan specific to their specialization area, they have customer references, and that they can provide a high level of experience and support to customers in the Civil Infrastructure industry.

The new Autodesk Partner Specializations enable value added resellers to highlight and brand their

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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, CAD Masters demonstrates what it means to be a trusted adviser to Autodesk customers throughout the world.

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Dassault Systèmes Expands Footprint in the Middle East with a Regional Office in Dubai

26 March 2013

Dassault Systèmes today announced its plans to expand in the Middle East, with the opening of an office in Dubai Internet City. The new office will function as a hub for Dassault Systèmes in the region and will also enable the company to expand usage of its 3DEXPERIENCE platform to innovative companies with a focus on aerospace & defense, energy, process & utilities (EPU), architecture, engineering & construction (AEC) industries, as well as government and academic institutions. Dassault Systèmes' regional operations will be run by Marc Kassis, recently appointed Managing Director for the Middle East, who will be supported by a local team of highly skilled Dassault Systèmes individuals and Value Added Resellers (VARs).

Dassault Systèmes sees more and more customers taking full advantage of its solutions and gain competitiveness in the quickly transforming regional economy, such as the aerospace and defense government groups in the UAE, and kingdom research and technology centers in the Kingdom of Saudi Arabia (KSA).

“I am extremely proud to witness that a successful French company chooses the UAE to serve the whole Middle East. I am amazed to see the long list of prestigious customers, universities and agencies to which Dassault Systèmes delivers value – this is the illustration of the uniqueness of its technology, its vision and its ability to create the future,” said His Excellency Alain Azouaou, Ambassador of France to the UAE.

A key part of Dassault Systèmes' activity in the region is also partnering with the most prominent education institutions to develop cutting edge education and research activities. These programs express their values in many strategic sectors of the economy – providing students with the highest education standards, preparing them for exciting technical careers within the ambitious projects developed by the industry.

“Our centralized operations in Dubai will help reinforce Dassault Systèmes' already strong local connections started in 2009, and enable us to take advantage of the variety of key industries that also have a foothold in the area,” said Philippe Forestier, Executive Vice President, Global Affairs and Communities, Dassault Systèmes. “We are also committed to work closely with local academic institutions in order to create a sustainable pipeline of globally competitive engineers in the region, to help them face new industrial challenges. We're enthusiastic about the collaboration and energy that will be fostered in one of the world's key technology areas.”

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Headquartered in Vélizy-Villacoublay, France, Dassault Systèmes provides business and people with virtual universes to imagine sustainable innovations. Its 3DEXPERIENCE platform and software applications transform the way products are designed, produced, and supported. Beyond Product Lifecycle Management (PLM), Dassault Systèmes' collaborative applications foster social innovation, expanding possibilities for the virtual world to improve the real world. Bringing together science and technology, Dassault Systèmes is committed to using its 3DEXPERIENCE platform to help better understand and simulate how products, nature, and life can interact in harmony.

A formal opening ceremony is taking place today, Tuesday, March 26 in Dubai at the Address Downtown: "The Cigar Lounge" at 7PM local time.

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D|C|CADD Earns Autodesk Simulation Specialization

26 March 2013

[D|C|CADD](#) announced that it has been awarded the new [Simulation Specialization](#) designation for value added resellers from [Autodesk, Inc.](#)

The Autodesk Simulation Specialization allows D|C|CADD to demonstrate their expertise in delivering services in key industry areas. By completing the required curriculum and training, as well as meeting high levels of service and standards, Autodesk once again recognizes that D|C|CADD experts are trusted business advisers to their clients.

“Offering our customers the benefits of sophisticated analysis tools like the Autodesk Simulation product family is increasingly important in a highly competitive business environment. Whether it’s an MEP firm using Simulation CFD to identify air conditioning “dead zones” in a data center or a manufacturer evaluating the efficiency of a new heat exchanger design, we believe that advanced simulation is a crucial part of any design firm’s service offerings.”

Committed to excellence, D|C|CADD has invested significantly in certifying members of their team. D|C|CADD 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. [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 easily integrated 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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Fujitsu Appoints Robert Pryor President and CEO of Fujitsu America

25 March 2013

[Fujitsu America](http://solutions.us.fujitsu.com), Inc. (<http://solutions.us.fujitsu.com>) has appointed Robert D. Pryor (Bob) as president and CEO of Fujitsu in North America. Pryor brings more than 30 years of experience to his new role, where he will be responsible for accelerating the growth of Fujitsu in North America and focusing the business on the needs of clients in the U.S., Canada and Caribbean.

News Highlights

- Bob Pryor joins Fujitsu with an extensive background in the IT industry and expertise in global operations, sales, client account management and complex infrastructures. He has served in a variety of senior executive positions and most recently was executive vice president of Genpact, where he had responsibility for all revenue and top line growth including account management and sales to new and existing clients.
- He also held several global business management roles at Hewlett-Packard, Capgemini, Ernst & Young, and Electronic Data Systems.
- In addition to accelerating growth for Fujitsu in the North American market, Pryor will drive the Fujitsu strategy for delivering to clients end-to-end technology solutions, ranging from [cloud computing](#) and [managed services](#) to [consulting and application integration](#), as well as the [server](#), [storage](#), [software](#), and [mobile](#) platform offerings.
- Pryor also will oversee North American relations with Fujitsu [alliance partners](#), including Intel, Microsoft, Oracle, SAP, salesforce.com, Symantec and the company's North American [reseller partners](#).

Rod Vawdrey, Corporate Senior Vice President and President of International Business for Fujitsu Limited:

"Fujitsu is pleased to welcome Bob Pryor to the helm at Fujitsu in North America. Bob's extensive experience leading successful, growing and profitable businesses -- coupled with his financial acumen and expertise in collaborating with large cross-regional and global teams -- makes him a great fit for our business in North America. I am confident that the wealth of knowledge and experience Bob brings in key areas will be invaluable for our growth and prosperity."

Bob Pryor, President and CEO, Fujitsu America:

"I am thrilled to join Fujitsu. As one of the most well-respected IT Services companies in the global technology industry, Fujitsu represents a gold standard for delivering quality information technology solutions and services. I look forward to further expanding its human-centric strategy, increasing innovation and collaboration, and continuing the tradition of superior customer service and client-first approach."

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Luxion Announces 4CAD Group as KeyShot® Reseller

26 March 2013

Luxion today announced 4CAD Group as its newest software reseller for KeyShot. Under this agreement, 4CAD Group now becomes the fourth largest European PTC reseller to offer Luxion's KeyShot 3D rendering and animation software. 4CAD Group provides full sales and technical support for KeyShot throughout France, Belgium and Luxemburg.

KeyShot is an interactive 3D rendering and global illumination program developed by Luxion for both PC and Mac that breaks down the complexity of creating photographic images from 3D models. Combined with its ease of use, KeyShot gives anybody involved with 3D data the ability to create photographic images in a matter of minutes, independent of the size of the digital model. KeyShot directly accepts models from Creo™ Parametric on both PC and Mac, as well as through a plugin. KeyShot also support many other native file formats including ALIAS, AutoCAD, CATIA, Autodesk Inventor, Rhinoceros, SketchUp, Solid Edge, and SolidWorks.

“High-end rendering for CAD users is often seen as a time consuming activity that requires expert knowledge to create high quality results. Now, with the tight integration between KeyShot and CAD systems like PTC Creo®, users can get photorealistic results fast and easy” says Janick Valbousquet, Sales Manager at 4CAD Group.

“4CAD Group is an impressive company with an equally impressive customer base, says Dr. Henrik Wann Jensen, Co-Founder and Chief Scientist at Luxion. “We are very excited that 4CAD Group has decided to add KeyShot to their already extensive product portfolio to deliver the best rendering solution to their customers. With 4CAD Group's commitment to excellent sales and customer service, we know we have a great partner that will help us further penetrate the French speaking markets of Europe.”

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Sunway E-Systems forms Strategic Alliance with SPRING Technologies to Accelerate Deployment of NCSIMUL SOLUTIONS in Malaysia

25 March 2013

Sunway E-Systems (SES), a subsidiary of Sunway Group and SPRING Technologies, a France-based CNC software solutions vendor today announced that they have entered into a strategic partnership to distribute, resell, implement and support NCSIMUL Machine, the CNC realistic simulation module of NCSIMUL SOLUTIONS – a SPRING Technologies portfolio module - in Malaysia and in the ASEAN region.

NCSIMUL Machine is an affordable yet comprehensive CNC software solution for simulating, verifying, optimizing, and reviewing CNC machining programs. It can be seamlessly connected to CAD/CAM software. Using NCSIMUL SOLUTIONS modules, and especially NCSIMUL Machine, manufacturers are able to simulate the real context of a manufacturing environment taking into account

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the real characteristics of machines - i.e. kinematics, tools, rough material properties, tools availability, NC programs lifecycle and machine status monitoring. Such solutions enable industries to perform machine simulations that help correct all programming or manufacturing errors that could happen in real machine tool environment. Among the major benefits of NCSIMUL Machine, the solution enables customers to reduce testing time on machine and increase productivity rates, ensuring a secured and optimal use of production tools by preventing any risk of machine or part breakage.

“We are extremely excited to work with SPRING Technologies to bring their state-of-the art ‘NCSIMUL Machine 9’ machining software solution to the local industries. This next generation simulation software will equip Malaysian manufacturers especially from aerospace, oil & gas and medical sectors with end-to-end control of their machining process, integrating the creation of cutting tool libraries, the optimization of cutting conditions plus the ability to publish manufacturing data needed by operators in the workshop,” said Cheah Kok Hoong, CEO of Sunway E-Systems.

“With their solid product knowledge in industrial manufacturing and in-depth industry domain expertise both in Malaysia as well as ASEAN countries, we are confident that SES will help push our new solutions to local industries that want to set up a robust digital production process. This will definitely give Malaysian manufacturers a stronger competitive edge in the global marketplace,” said Gilles Battier, CEO of SPRING Technologies, during the official distributorship signing ceremony.

SPRING Technologies currently collaborates closely with reputable manufacturers in the aerospace and defence, transportation, energy, industrial equipment and medical sectors worldwide. Its major customers include Airbus, Hyundai, Alstom, Mitsubishi and Canon.

NCSIMUL Machine verifies NC programs in three steps: investigates and corrects coding errors, simulates to locate collisions and correct motion errors, and validates the NC program. This notable capability is also a valuable training tool for new employees as the virtual sessions are short, easy to understand, and eliminate errors.

Key Product Features of NCSIMUL Machine 9:

- **Enhanced user experience and performance with enriched 3D view** which enables faster **adoption** and more robust **interaction** with the NC machine.
- **Simplified ergonomics** for faster, more democratic access to NC simulation. The interfaced, based on ribbon technology navigation, enables users to **work** more **efficiently**. Tasks are now accessed via tabs, each of which has groups that break down into tasks and sub-tasks. Implemented on **touch screens**, ribbon navigation significantly facilitates **ultra-mobility**.
- **Tighter integration** for a **leaner digital manufacturing process** (integrated tool libraries and cutting conditions, new CAM interfaces)

For further product enquiries, please contact Sunway-E-Systems at +603 7717 3888 or visit www.sunway.com.my/ses/.

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Technia Opens New Office in Jönköping to Support Growth

27 March 2013

Technia AB is proud to announce the opening of their new office in Jönköping. Because of their established outstanding employee success recently, Technia formed a vision to increase the growth of their company in the upcoming year. The journey began in September 2012 when Technia hired Tomas Torstensson as Team Manager and continued with hiring five more team members by the end of December 2012. Together they represent ENOVIA SMARTEAM with responsibilities in product design, project management, education, programming, support, and pre-sales. Technia did not stop there; they have added an additional employee to the Gothenburg team as well.

Together with the new team and existing members, these employees represent the Technia southern region. They all bring valuable CATIA and 3DVia expertise. They have expressed their goal to help develop and take new steps with Technia's customers in the coming versions of ENOVIA and CATIA. This will be an exceptional opportunity for Technia to further increase their focus on the customer while achieving new company goals.

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Events News

Actify Holds Conference in Michigan

28 March 2013

Actify Inc. is hosting a conference today in Novi, Michigan. With numerous companies like Borgwarner Emissions Systems, Inalfa, and Benteler Automotive registered to attend, the conference will be a good opportunity for top industry leaders to network and learn more about Actify's solutions.

"We are very excited to be hosting our second annual Actify Conference in Michigan," said Chris Jones, Actify CEO and President. "We have seen phenomenal growth over the last 12 months, close to 40%, which is largely due to the new and exciting solution we have introduced to some early adopters in the market. This event gives us the perfect platform to share our ideas with some of the key people in the manufacturing industry. We had such an amazing response from our first conference last year that we decided to make this event an annual occurrence. It is a great way for us to share our message with solution seekers, while providing an environment for them to network. We've been doing some exciting things at Actify and we can't wait to share the many ways we are providing business intelligence for manufacturers at the conference," concluded Jones.

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ADT's Mehrdad Zangeneh's Paper to be Presented at ETC 10

29 March 2013

[Advanced Design Technology](#) (ADT), today announces that a paper entitled, “[Low Weight, High Speed Automotive Fan Design by 3D Inverse Method](#),” co-developed by Mehrdad Zangeneh, PhD., professor of thermofluids at University College London, and founding director and CEO of Advanced Design Technology (ADT), is among those being presented at this year's prestigious 10th Annual [European Turbomachinery Conference](#) (ETC 10). Design engineers and original equipment manufacturers, especially those desiring to meet and exceed the efficiency standards set by the [European Commission Ecodesign Directive](#) can benefit by shortening development times and improving components efficiency and emissions using the three dimensional (3D) inverse design methodology being presented in the paper.

The aim of the paper is to show how to apply the 3D inverse design method, coupled with multi-objective/multi-point automatic optimization method, to design a low loaded high speed axial fan for a novel automotive cooling application. The paper is a collaboration between Advanced Design Technology and Valeo Thermal Systems, a leading manufacturer of automotive components. It is co-authored by M. Henner, B. Demory, Y. Beddadi and P.A. Bonnet of Valeo Thermal Systems.

“Our paper shows the application of ADT's TURBOdesign1 and TURBOdesign Optima to a novel automotive fan application that was very difficult to design with conventional methods,” says Zangeneh.

The paper, “[Low Weight, High Speed Automotive Fan Design by 3D Inverse Method](#),” will be presented Tuesday, April 17, at 14:30.

According to conference organizers, the scope of the conference covers the scientific and engineering outcomes concerning the fluid dynamic, thermodynamic, performance and stability aspects in the design, development and operation of axial, mixed flow and radial turbomachines. ETC 10 will take place April 15-19 in Lappeenranta, Finland. For more information, go to: <http://www.euroturbo.eu>.

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CGTech to Demonstrate VERICUT 7.2 at EASTEC

28 March 2013

CGTech will exhibit version 7.2 of VERICUT CNC machine simulation and optimization software at the EASTEC show: Booth E-5344 West Springfield, MA May 14-16, 2013.

VERICUT 7.2 features many enhancements that reduce the time required for manufacturing engineers to develop, analyze, inspect and document the CNC programming and machining process. Along with proactively adding new features, CGTech developers and engineers have focused on implementing

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hundreds of customer-driven enhancements. The latest release also includes several new features that make commonly-performed tasks simpler and therefore significantly faster. Users will also take advantage of many new performance enhancements and code optimizations, ensuring it will likely run faster and better on their existing hardware.

VERICUT Product/Function Overview:

VERICUT is CNC machine simulation, verification and optimization software that enables users to eliminate the process of manually proving-out NC programs. It reduces scrap loss and rework. The program also optimizes NC programs in order to both save time and produce higher quality surface finish. VERICUT simulates all types of CNC machine tools, including those from leading manufacturers such as Mori Seiki, Mazak, Makino, Matsuura, Hermle, DMG, DIXI, and Chiron. VERICUT runs standalone, but can also be integrated with leading CAM systems such as Catia, NX, Creo Parametric (Pro/E), MasterCAM, EdgeCAM, hyperMILL, Esprit and GibbsCAM.

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Cimatron North America Launches "Quicktrodes" at Northwest Machine Tool Expo

21 March 2013

Cimatron Technologies Inc., a subsidiary of [Cimatron Limited](#), announced that its campaign promoting super fast electrode design and programming will be launched at the Northwest Machine Tool Expo, Portland, Oregon, March 27-28, 2013.

"The lengthy cycle time for creating multiple electrodes can be a major challenge for tool shops trying to meet tight customer deadlines," says Mr Bill Gibbs, Cimatron's President North America.

"Our integrated CAD/CAM software CimatronE meets this challenge head-on with its end-to-end Electrode Solution that offers dedicated tools and automations to ensure the optimization of the entire electrode process, from design right through to burning.

"Given the great feedback that we've received from tool shops, we're launching an awareness campaign that aims to demonstrate just how fast and easy electrode creation can be with the CimatronE Electrode Solution."

The "Quicktrodes" campaign includes three plain language videos showing how 16 electrodes can be designed, the burning process defined, and the electrode machining programmed, in only a matter of minutes using the CimatronE Electrode Solution.

Visitors to the Cimatron booth at the Expo (Booth 908) can bring their part or CAD files on a USB and Cimatron staff will provide a live demo showing how CimatronE can easily create the required electrodes.

Visitors can also test their NC programming knowledge at the booth for a chance to win an iPad mini.

To view the "Quicktrode" videos to be shown at the Expo, visit <http://www.quicktrodes.com>.

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CNC Software, Inc. Showcases Mastercam X7 at Eastec 2013

25 March 2013

Eastec 2013 attendees will receive a first look at the most powerful Mastercam machining software yet. Stop by booth # 5249 at the Eastern States Exposition in West Springfield, MA, May 14-16 for a look at Mastercam X7, the latest Mastercam release, which is due out Q2 2013. Mastercam X7 introduces many significant new capabilities, including the new Mill-Turn product, Renishaw Probing, and much more.

New Mastercam Mill-Turn

Mastercam's Mill-Turn product makes machining on today's high-powered turning centers and full-function machining centers simpler and easier than ever before. Mastercam Mill-Turn streamlines the programming process with intelligent job setups that are keyed to the exact machine in your shop. Intelligent work plane selection makes it easy to select the proper spindle and turret, and program your part with Mastercam's proven milling and lathe toolpaths.

Renishaw Probing

Mastercam X7 integrates Renishaw's Productivity+ for in-process gauging. This uses a measuring probe on a machine tool to determine fixture offsets, orientation, and critical dimensions. Probing eliminates the need for tool presetters, expensive fixtures, and manual settings with dial indicators. It allows for machine offsets to be automatically adjusted, even during the machining process, to further enhance the manufacturing process.

New Lathe Dynamic Rough Toolpath

The Lathe Dynamic Rough toolpath is designed for hard materials cut with button inserts. The dynamic motion allows the toolpath to cut gradually, remain engaged in the material more effectively, and use more of the surface on your insert, extending tool life and increasing the cutting speed.

Also available in Mastercam X7:

- The new Tool Manager, providing a whole new way to create and organize your tooling.
- Improved Backplot and Verify utilities that offer a more efficient workflow, better analysis tools, and more comprehensive toolpath support.

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- Dynamic and OptiRough toolpaths with more efficient tool motion, including enhanced cut orders and faster calculation times.
- Multi-threading support extended to most 2D high speed toolpaths, resulting in faster toolpath processing.
- Oscillate motion for Curve and Swarf 5-axis toolpaths, improving your tool life by not always machining with the same area of the tool.

Visit www.mastercam.com for information about the upcoming Mastercam X7 release.

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Delcam Japan to Show Electrode Solution at Intermold

28 March 2013

Delcam Japan will demonstrate Delcam's completely integrated solution for the design, machining and inspection of electrodes at the Intermold exhibition to be held in Tokyo from 17th to 20th April. The complete solution combines Delcam's PowerSHAPE CAD software, PowerMILL CAM system and PowerINSPECT inspection software to enable electrodes to be produced more efficiently and to higher levels of accuracy. Full details are available on the website – www.delcam-electrode.com.

The production of electrodes is a key stage in the manufacture of many types of tooling, especially moulds, so the availability of a faster, more automated method for their development will increase efficiency and reduce lead times across a number of industries.

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

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

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

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If a series of similar electrodes is required, the design process can be fully automated. Once the first electrode design has been produced, users need only to select the geometry from the next area and click "Finish" in the electrode design wizard. The wizard will then produce the new design automatically by applying all the settings used for the previous electrode.

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

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

Specifying the inspection points within PowerSHAPE means that the probe path in PowerINSPECT and the production of the inspection report can also be automated, including undertaking a best-fit analysis of the machined electrode. However, all of PowerINSPECT's flexibility is available if extra measurements are needed from any areas of the part that are causing concern. The results of the inspection are added to the .Trode file for quality control records.

The automated generation of set-up sheets for both the machining and application of the electrodes ensures that all the data needed at each stage is readily available. A documentation pack, including the GA and detail sheets, can be issued as drawings, HTML files or Microsoft Excel spread sheets.

Finally, Delcam Electrode can provide scripts, the EDM equivalent of CAM programs for machine tools, for equipment from all the leading manufacturers, including AgieCharmilles (Agievision and CT Millennium controls), Makino EDM, Mitsubishi Electric, ONA EDM, OPS-Ingersoll, Sodick and Zimmer & Kreim. These scripts provide an automated process for the programming of the machine, instead of users having to program manually from a set-up sheet.

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Delcam to Demonstrate Feature-based CAM at Haas Anniversary

27 March 2013

Delcam will join the celebrations of the 30th anniversary of Haas Automation at HaasTec 2013 at the company's California headquarters from 9th to 12th April. At the event, Delcam will demonstrate the latest developments in its FeatureCAM feature-based CAM software. The 2013 R2 release incorporates

CIMdata PLM Industry Summary

a number of new stock model options that allow users to increase productivity, improve surface finish and reduce tool wear, plus new methods for the generation of html set-up sheets, and improvements to turning and turn-mill programming.

FeatureCAM also includes the ability to incorporate probing sequences into CAM programs makes it easier to undertake unsupervised production operations by allowing automated checks to be carried out before, during and after machining. Probing paths can be generated for five feature types: pockets, obstructed pockets and webs; inside or outside corners; bosses, bores and obstructed bores; radial bosses, bores and obstructed bores; and single surfaces. All of the resulting probing paths can be simulated and collision checked on the computer in the same way as cutting paths.

For full details, including video demonstrations of the new functionality, please go to: www.delcam.tv/fc2013/lz/en/whats-new-videos-r2.html.

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Delcam to Launch PowerINSPECT 2013 with Free Seminar

25 March 2013

Delcam will launch the 2013 version of its PowerINSPECT inspection software with a free half-day seminar at its Birmingham headquarters on 23rd April. The morning event will include demonstrations of the new options in the 2013 release, and tips and tricks showing how to get the best results out of the software, plus a presentation from Hexagon on the latest developments in its range of portable metrology devices.

The meeting is open both to existing PowerINSPECT users that want to see the latest version of the software and to companies that are considering the use of PowerINSPECT for their inspection and reverse engineering needs. To book a place, please go to www.delcam.co.uk/PowerINSPECT2103.

The 2013 release of PowerINSPECT offers unique dual-device inspection options that allow measurement with two portable devices at the same time. This is an extension of the functionality for dual-column CMMs included in the 2012 R2 release. PowerINSPECT is believed to be the only inspection software that supports simultaneous operation of different types of device, including laser scanning equipment, from different manufacturers.

Other enhancements in the new version include improved handling of point-cloud data, group editing of probing parameters, graphical editing of boundaries for raster-based inspection, more flexibility in programming dual-column CMMs, and easier measurement and marking out when using PowerINSPECT for clay modelling.

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First OpenFOAM User Conference

28 March 2013

[ESI Group](#) announces the first OpenFOAM User Conference taking place April 24-26 at the Steigenberger Airport Hotel in Frankfurt, Germany. This event will be solely dedicated to OpenFOAM, the open source Computational Fluid Dynamics (CFD) software suite developed by OpenCFD Ltd.; a company acquired by ESI Group in 2012.

[OpenFOAM](#) has extensive functionality to address many important physics, including: complex fluid flows involving chemical reactions, turbulence and heat transfer; solid dynamics; and electro-magnetics. Consequently, the advanced capabilities of this open source CFD software are widely used in the automotive industry as well as for applications in the energy, oil & gas, and process industries, and in the consumer goods and heavy industries.

Dr. Chris Greenshields, co-founder of OpenCFD, declares, “The User Conference is the first ever hosted by the producers of the OpenFOAM software. It is a landmark in the journey since we released OpenFOAM as open source software in 2004! The conference will provide a unique opportunity to meet the team behind the software – including Henry Weller (its creator), Mattijs Janssens and Dr. Andrew Heather (senior developers) – and to hear about the business behind the software.”

The diverse and exciting agenda for this event will assure that anyone with an interest in CFD can benefit from attendance. That includes managers, engineers, academics; even those who are today unfamiliar with OpenFOAM. Presentations will highlight the full extent of OpenFOAM’s use in different industries, and include keynote addresses from the German companies [Volkswagen AG](#) and [Evonik Industries](#).

The event also provides an opportunity for ESI-OpenCFD to showcase OpenFOAM Version 2.2, released on March 6, 2013. Some of the new features will be explained during "Lessons in OpenFOAM", a session delivered by the ESI-OpenCFD Development and Training teams, who will explore topics they have encountered in their work with OpenFOAM. The teams will provide some tips and tricks in OpenFOAM, and explain flexible case configuration, CFD principles and recent development directions.

Dr. Alain de Rouvray, ESI Group’s Chairman and CEO, will open the conference on April 24. He will be followed by Dr. Ralf Sundermeier, Head of CAE methods at Volkswagen AG, who will present a keynote entitled “OpenFOAM – in the fast lane?” Georg Skillas, Chief Scientist at Evonik Industries, will continue with a status report: “Industrial cooperation for further development of OpenFOAM”. To view the full agenda of the conference, please click [here](#).

To register for the conference and for the third day dedicated to “*Lessons in OpenFOAM*”, please click [here](#).

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If you have any questions about this event, or if you are interested in a group booking, please contact [Christina Theuerkauf](#), Events Specialist, ESI Group.

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GibbsCAM to be Featured at Haas Open House, HaasTec 2013

28 March 2013

Gibbs and Associates, developer of [GibbsCAM](#)® software for programming CNC machine tools and a Cimatron company, today announced its participation at HaasTec 2013, the Haas Open House, in support of machine-tool builder Haas Automation. GibbsCAM supports the entire line of Haas vertical and horizontal CNC machining centers, lathes, multi-task machines, 5-axis rotary tables and indexers, and the new UMC 750 5-axis vertical machining center to be featured at the event. Easy-to-use CNC programming features include programming for 5-axis simultaneous machining, tombstone management, multi-task machining (MTM), toolpath verification, machine simulation and post processors. Haas will hold the HaasTec 2013 Open House at its manufacturing and headquarters facility at 2800 Sturgis Road, in Oxnard, California. The event will run daily, 8:00 A.M. to 5:00 P.M., local time, from April 9-12, 2013.

"HaasTec is a great opportunity to display Haas and Gibbs technology in action," said Bill Gibbs, Gibbs and Associates company founder and president. "We believe that GibbsCAM is the best software for programming multi-axis machines, and we enjoy demonstrating our leadership in MTM and other categories, with easy-to-learn, easy-to-use software that takes advantage of the technology that a machine offers. GibbsCAM supports the new Haas UMC 750 5-axis VMC, and their latest and most capable MTM, the DS-30SSY, which is a dual-spindle, single-turret, Y-axis machine with live tooling. We look forward to demonstrating the superiority of GibbsCAM to Haas customers, and doing it better and faster to maximize profitability from their CNCs."

James Moore, Gibbs distribution manager, will deliver a presentation titled "Ultra-High Performance Toolpaths on Haas CNC Machines," on Thursday, April 11, at 1:00 p.m., discussing the title topic and the many advantages of using GibbsCAM. After the presentation, he will be available to answer questions from Haas customers. In addition, all of the GibbsCAM features that support Haas machine tools will be available for demonstration at the Open House, where guests can visit with Gibbs and with vendors of tooling and probing equipment.

The latest Haas CNC technology will be on live display, with eighteen machines cutting metal. Haas will also provide guided tours of its 1,000,000 square-foot manufacturing and assembly facility, so that visitors can see, on the production floor and from above it, how and where Haas machines are built. After the guided tours, Haas will serve a barbecue lunch "under the big tent." Haas encourages advance registration, and provides [additional information at its site](#), together with a [link to a registration form](#).

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Hawk Ridge Systems to Exhibit SolidWorks and CAMWorks at Northwest Machine Tool Expo 2013
28 March 2013

[Hawk Ridge Systems](#)® will exhibit at the Northwest Machine Tool Expo 2013 in Portland, Oregon on March 27-28, 2013. In 2012, Hawk Ridge Systems added [CAMWorks®, the first SolidWorks Certified Gold Product](#), to its product portfolio which brings native CAM integration to SolidWorks design capabilities.

“By bringing together the best of 3D design software with the most comprehensive CAM software on the market, Hawk Ridge Systems is able to deliver an integrated CAD/CAM solution to our customers.” says Tim Fulton, CAMWorks Product Manager at Hawk Ridge Systems. “CAMWorks offers a viable solution for machining and manufacturing industries that allows users to leverage and automatically implement best practices, resulting in compliance, standardization, and time savings.”

Hawk Ridge Systems is demonstrating SolidWorks and CAMWorks at the Northwest Machine Tool Expo in Booth 547 at the Oregon Convention Center on March 27-28, 2013. The Northwest Machine Tool Expo is a unique regional event for the machining and manufacturing industries. The goal is to provide an educational and networking forum for peers to learn about the newest innovations across the manufacturing industry.

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Motorola, KOSO and Dedicated Computing to Present at Aras ACE 2013 Conference on PLM Strategy
28 March 2013

Aras® announced that Motorola Solutions, Korea KOSO and Dedicated Computing will present at ACE 2013, the company’s annual global conference.

ACE 2013 -- April 30 – May 2
Detroit Marriott Troy, Michigan, USA
Free to Attend - No Fee (Space is Limited - Registration Required)
Details and Registration: <http://www.aras.com/ACE2013>

ACE 2013 provides business and technology professionals from around the world with the opportunity to meet, discuss and benchmark PLM best practices for addressing the rapidly growing complexity in global product development, manufacturing, quality and the supply chain.

Presenters at this year’s conference include Motorola Solutions, a Fortune 500 provider of mission-critical communication products and services for enterprises and governments worldwide; Korea KOSO, a Nihon KOSO company and global manufacturer of custom control valves and systems; and Dedicated

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Computing, a manufacturer of high performance, purpose-built embedded computers for healthcare, military, industrial and oil and gas applications.

Full Agenda, Speakers, Conference Details and Free Registration at: www.aras.com/ACE2012

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Tata Technologies Cleveland Autodesk PLM Simulation 360 Lunch & Learn: ‘The Next Generation Simulation Tools for Mechanical Engineers’

25 March 2013

[Tata Technologies](#) will host a Simulation Lunch & Learn event for manufacturing clients, in Cleveland, Ohio, March 27, from 12:00 -1:15 p.m. ET, demonstrating the next generation of simulation tools built for mechanical engineers. There is no charge for the workshop, but advance registration is necessary.

At this event, Tata Technologies Simulation experts will offer insights into the right simulation tools to empower engineering teams via:

- Full scope flow, thermal, and stress analysis capabilities
- Cloud integration offering virtually infinite computing power
- Intuitive CAD-Driven interface built for mechanical engineers
- The solution you need at a fraction the cost of traditional simulation tools

[Autodesk Simulation 360](#) provides a new generation of cloud integrated simulation tools that deliver computing power at an affordable price. Proven fast, accurate, and flexible technology offers engineering teams a better way to predict, optimize, and validate designs early in the development process.

Who should attend?

Mechanical Engineers, Industrial Engineers, 3D Engineering Designers, Manufacturing Engineering Managers, Industrial Manufacturers, Tooling Manufacturers, and any individual responsible for 3D engineering and design in manufacturing, will find valuable information at this event.

To register for this Lunch & Learn and reserve your seat, [click here](#). Lunch will be served. Reservations are limited.

Share this registration link with other colleagues and friends: <http://www.tinyurl.com/tataSIMcleveland>.

Lunch & Learn attendees will be entered to win a new Kindle Fire.

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Version 22 of WorkNC to be Demonstrated at the INDUSTRIE Trade Fair

27 March 2013

The latest Version 22 of WorkNC, the easy to use, high performance 2 to 5-axis CAD/CAM solution for machining complex parts will be previewed at the Industrie Trade Fair in Lyon, from the 16th to 19th of April, 2013.

Version V22 of WorkNC sees the advent of new finishing toolpaths along with a host of improvements to existing toolpaths. Morphing and spiral transition options, along with improved toolpath point distribution management, all contribute to ensure optimal surface finish quality as well as reduced cycle times.

WorkNC V22 is also now capable of improving management of the production environment thanks to the creation of a Machine Context which groups together all the relevant machine configuration elements required by the different modules within WorkNC such as collision detection and management, automatic generation of transitions between toolpaths or assembled 3 or 5 axis toolpaths, Auto 5, etc... Several Machine Contexts can be used in the same Workzone.

Four new toolpaths containing numerous options and trade oriented expertise have been developed for machining wall and flat surfaces on die parts. The new Tangent to Curve toolpath has shown to be the ideal solution for machining specific features on 2D parts by direct selection of vertical surfaces or by automatic wall detection following planar surface selection.

5-Axis strategies have been entirely revamped. Thanks to its new ergonomics and new programming possibilities, the 5-Axis module offers greater flexibility, simplicity of use and enhanced machining capabilities. Toolpath programming is now carried out in a single, centralized dialog box.

WorkNC will also be previewed with its new WorkNC Robot module, designed to control robots with a capacity of up to 15 axes. This new module offers important cost reductions when machining large parts. This is because toolpath programming is extremely rapid with WorkNC Robot and eliminates the time consuming learning cycles commonly associated with these machines. The dedicated simulation module allows immediate verification of robot kinematics by taking into account collision management. This new module can deploy the full range of WorkNC toolpaths for machining, hardening, welding and polishing operations. WorkNC Robot is compatible with any type of robot currently on the market.

Visitors will have the chance to see the WorkNC Robot module in action in the robotic cell set up on the booth. WorkNC's engineers will show just how easily a STAÜBLI TX90 robot, controlled by the WorkNC Robot module, can machine small blades for aeronautic applications.

A wide range of showcase parts machined with WorkNC will be on show on the booth. Among these parts, Mr. Indestructible, Iron Man and Spiderman along with an amazing new part specially made for the Industrie Trade Fair. Drop by and visit them on Stand 6-Y79.

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Financial News

Delcam Announces Record Sales and Profits in 2012

26 March 2013

Birmingham-based CAD/CAM developer Delcam has announced that the company achieved record annual sales of £47.1 million and record profits of £5.1 million during 2012. Sales increased by 12% over the previous record of £41.9 million set during 2011.

The increase was driven mainly by a 16% growth in the sales of new software licences. These reached £24.5 million during the year, with high demand from both new and existing customers. Income from software maintenance and support contracts also reached a new record level of £14.1 million over the year.

Delcam's highest levels of royalties continue to come from the USA, Germany, Korea, UK and China. The USA was also one of its fastest growing markets, along with Russia and the UK. However, there were many global examples of significant growth, with over 30 of Delcam's Sales Partners achieving increases in their sales of more than 20%.

The higher level of sales allowed the company to continue to increase its investment in research and development. Delcam invested £11.4 million in R&D over the year, an increase of 7% against the £10.7 million investment in 2011.

Delcam Chairman, Peter Miles, commented, "The results for 2012 are Delcam's best ever. The sales trend is especially encouraging, with new sales records achieved in each of the last six half year periods. Our continued progress in 2012 was very encouraging, especially given the levels of financial uncertainty which affected sentiment for investment in many of our important markets."

"We continue to believe that our broad range of markets, both in geographic terms and in the number of industries we serve, together with our long-term commitment to research and development, leave us well placed to be more successful than the majority of our competitors. Given the positive start to the year, we expect Delcam to make further good progress in 2013."

The full report can be found at: www.delcam.com/general/investors/reports/final_report2012.asp

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Implementation Investments

Agilent Technologies Simulation Software Selected by Plextek RF Integration

27 March 2013

Agilent Technologies Inc. announced that [Plextek RF Integration](#), a UK-based company that designs and develops RFICs, MMICs and microwave/millimeter-wave modules, has selected Agilent software to simulate its new high-frequency circuit and MMIC designs.

After a thorough evaluation of available 3-D planar electromagnetic software tools, Plextek RF Integration chose Agilent's [Momentum](#) simulator for its performance and flexibility. Accurate EM simulation enables designers to improve the performance of their designs, while increasing confidence that the manufactured product will meet specifications. Momentum is integrated with Agilent's [Advanced Design System](#) and [Genesys](#) RF and microwave design software.

In its evaluation, Plextek RFI used Momentum to simulate the performance of a 57- to 64-GHz amplifier IC. The company also used Momentum to develop a number of Ka-band ICs. In all cases, the software provided excellent agreement between measured and modeled data. Additionally, Momentum's tight integration with ADS provided Plextek RFI with greater ease of use, making its EM simulation of RFICs and MMICs quick and straightforward.

"Designing advanced, high-frequency circuits and MMICs requires access to the industry's most advanced modeling and simulation tools," said Liam Devlin, chief executive officer at Plextek RFI. "The performance and flexible features of Agilent's Momentum software provides us the functionality we need to maintain a leading edge in the highly competitive wireless, microwave and millimeter-wave markets in which we compete. Because of this, we plan to leverage this solution on future design projects, including our current development of an LNA covering the full 71- to 86-GHz range of E-band."

"We are pleased Plextek RFI selected Momentum for its amplifier IC and MMIC development," said Joe Civello, ADS product planner at Agilent EEs of EDA. "The accuracy, speed and capacity of our software are enabling Plextek RFI to produce high-quality designs that can stand apart from their competition."

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AMG Selects Centric Software Product Lifecycle Management System

27 March 2013

CIMdata PLM Industry Summary

AMG Group Ltd. has selected Centric Software, Inc. as its [product lifecycle management \(PLM\) system](#) provider.

AMG will implement the Business Planning, Calendar Management, Materials Management, Product Specification, Quality Management, Collection Management, Adobe Connector and Product Sourcing modules of the Centric 8 [PLM software for retail, apparel, footwear, luxury and consumer goods](#) companies.

The company also will implement the Collection Book for iPad Mobile App for Centric 8. The app will allow creation of customized product assortments and “look books” for each category of retailer with which AMG works. The company will use the app to take orders in the field.

“AMG selected Centric because it provides the industry’s leading PLM system,” says Steve Craig, commercial director for AMG. Ease of use, solid customer references and a track record of fast implementations were key factors in AMG’s decision. Centric will use its [Agile Deployment\(SM\)](#) methodology—which often produces system deployments in three to four months—during the AMG implementation.

AMG will implement Centric 8 across multiple business models, including all brands and lines— both those the company develops, sources and manufactures directly, and those it distributes. Users of the [PLM system](#) will include merchandising, product management, design, supply chain and sales management teams, and AMG’s external partners, including manufacturers and quality inspectors.

The Centric [PLM software](#) will let AMG move away from the use of numerous spreadsheets that slow down processes and isolate information in the product development, sourcing and manufacturing areas, explains Craig. The resulting improved communications with remote suppliers will be particularly helpful for the complexity and large quantities of products and materials with which the company works. AMG also will rely on PLM’s “single version of the truth” about products to streamline the development of its e-commerce website.

The Centric 8 PLM system will play an important role in AMG’s growth strategy for 2013 and beyond, according to Craig. “With a central repository to store product information, AMG can improve accuracy, increase productivity, improve supplier communications and enhance the high quality level of its products.”

“AMG Group’s use of the Centric PLM software across multiple business models is an excellent example of the breadth of the Centric 8 system,” says Chris Groves, CEO and president of Centric. “Adding the immediacy and visual impact of the mobile app—and linking Centric 8’s up-to-date product information with AMG’s e-commerce site—will help the company achieve its aggressive quality, service and growth goals.”

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Mentor Graphics FloEFD Helps Bromley Technologies Develop Aerodynamics of Skeleton 2013 World Championship-Winning Sled

25 March 2013

[Mentor Graphics Corporation](#) today announced that its [FloEFD™](#) [computational fluid dynamics](#) (CFD) simulation solution helped Skeleton Bobsleigh World Championship winner Shelley Rudman of Great Britain to her first world championship win in St. Moritz, Switzerland on February 1, 2013. Her custom sled was designed and developed by Bromley Technologies Ltd., the leading high-performance Skeleton equipment supplier. They chose the FloEFD CAD-embedded CFD solution because it allows them to parametrically design custom elite athlete-focused sleds inside their chosen MCAD software package, Creo from PTC Inc. The software has helped them achieve improved performance due to usability and functionality.

Commenting on her success, Rudman said to the media, “This is the title I’ve been waiting for the last two years. Everything just came together on the day, so I’m happy.” Professor Kristan Bromley, CEO of Bromley Technologies Ltd. based in Rotherham, UK, and the 2008 World Champion said, “We have been working with Mentor Graphics on the aerodynamics of the athlete-sled system for the last two years and, when coupled with our structural analysis simulation tools, our in-house design know-how, and many, many hours of testing time on the track, we have come up with a very competitive package for Shelley.”

The Mentor Graphics® Concurrent CFD methodology in the FloEFD solution can reduce simulation time by up to 75 percent, compared to traditional CFD tools. It enables users to optimize product performance and reliability while reducing physical prototyping and development costs quickly and cost effectively. The FloEFD solution is an established technology.

“We are addressing real-world manufacturing and engineering challenges with the unique workflow advantages of our FloEFD CFD solution, especially with its advanced performance, usability, and functionality,” said Erich Buergerl, general manager of the Mentor Graphics Mechanical Analysis Division. “We are excited for Shelley, Kristan and for Team Bromley, in what they have been able to achieve in such a short period of time, given the competitive constraints they have to work under and a goal of being number one. We wish them ongoing success for the Sochi Olympics next year in Russia.”

For more information on the Mentor Graphics FloEFD technology and other products from the Mentor Mechanical Analysis Division, visit the company website at www.mentor.com/mechanical.

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Oil Company Nynas AB Signs Agreement with Intergraph® to use SmartPlant® Enterprise Solutions

28 March 2013

CIMdata PLM Industry Summary

Sweden-based Nynas AB, a producer of specialty oil products, has signed a general agreement with Intergraph® for the use of the SmartPlant® Enterprise suite of solutions in all its plants and projects worldwide. Nynas, which is investing in an expansion of its Nynashamn refinery to be ready by 2020 and plans to expand its assets in Germany, wants to ensure that the proven benefits in quality design, plant asset management and creation and review of engineering data, can be enjoyed in all its operations and projects.

In 2008, Nynas chose SmartPlant Enterprise for its expansion project since it offers a complete solution from start to finish. The company undertook a phased approach to software, starting with SmartPlant Foundation and SmartPlant P&ID and is now taking advantage of the assets created during engineering. In a structured manner, the company receives accurate and complete plant information in terms of data and documents from the suppliers. This is accomplished by means of an integrated information management system. In addition, the company is now using SmartPlant 3D to design the new facilities and assets.

"Intergraph solutions help us keep our plant information readily available and accessible for all personnel from a single source of truth," said Peter Eriksson, Nynas technical manager. "It enables us to improve our information management and handover as well as manage revisions more effectively. It is the tool of the future, ensuring a safer and more efficient way of working."

Over the years, Nynas has invested in advanced tools to handle checklists, certificates, documents and data, improving plant operations and maintenance. Now, Nynas expects to gain even higher performance levels and efficiency by deploying SmartPlant Foundation as its document and data platform.

Gerhard Sallinger, Intergraph Process, Power & Marine president, said, "Intergraph and Nynas have built a solid and profound relationship, and we are proud to be Nynas' partner in increasing safety, quality and productivity."

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PetroVietnam University Selects Intergraph® SmartMarine® Enterprise

27 March 2013

PetroVietnam University (PVU) has joined the Intergraph® Education Grant Program, selecting SmartMarine® Enterprise solutions for its curriculum to support Vietnam's offshore oil and gas industry.

PVU is located in the offshore oil and gas hub of southern Vietnam, and was established to focus on the development of the country's oil and gas industry. The Vietnamese university recognized that it needs to equip its students with the necessary skills and knowledge so that they are ready to apply the tools that employers already use when they join the work force. PVU will provide its students with access to SmartMarine Enterprise solutions, including SmartMarine 3D, SmartPlant® Review, SmartPlant

CIMdata PLM Industry Summary

Instrumentation, SmartPlant Electrical, SmartPlant P&ID and SmartSketch®.

Intergraph's ruled-based technology features unique automation capabilities, which was a compelling factor in PVU's decision. In addition, SmartMarine Enterprise is proven in the Vietnamese oil and gas industry, with organizations such as PetroVietnam Marine Shipyard and Vietsovpetro already using Intergraph solutions for the design and construction of offshore facilities. PVU will incorporate the integrated suite of SmartMarine Enterprise solutions into its computer-aided design curriculum for the marine and petroleum course tracks. PVU is the first higher education institution in Vietnam to use SmartMarine 3D and the SmartMarine Enterprise portfolio in its curriculum.

"There is a growing need for skilled engineers in Vietnam's vibrant oil and gas industry, and we are committed to using the best tools to educate our students," said Dr. Le Phuoc Hao, associate professor and rector of PVU. "Our participation in Intergraph's Education Grant Program is a major achievement for us, and we can now equip both our lecturers and students with the latest, state-of-the-art technology that is used by major engineering companies and owner operators worldwide. This gives our graduates immense opportunity to secure jobs in the thriving local oil and gas industry."

Gerhard Sallinger, Intergraph Process, Power & Marine president, said, "Intergraph is the top engineering design solution provider in the global oil and gas industry, and we are pleased to partner with PVU to nurture the next generation of young engineers in Vietnam. With training in SmartMarine Enterprise, PVU graduates will bring expertise in Intergraph's innovative engineering solutions into our clients' businesses, and deliver increased safety, quality and productivity to local offshore oil and gas projects."

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Robatech AG Rolls out CIM DATABASE PDM/PLM on Time and in Budget

26 March 2013

Switzerland-based Robatech AG, one of the world's leading manufacturers of adhesive application systems, has gone live with CIM DATABASE on schedule and with a wider range of functions than originally planned. The family-owned company from Muri intends to use the PLM/PDM solution from CONTACT Software to allow its foreign subsidiaries and some of its external development partners secure access to product data and to simplify reuse of 3D CAD models in new projects. The group has a global presence with 16 subsidiaries worldwide, and its PLM strategy is aimed at meeting the needs of its customers even more rapidly and efficiently in the future.

Robatech develops a wide range of tailored adhesive application systems for hot melt and cold glue applications. Innovations play a crucial role for the company in the face of global competition. But the speed with which such innovations can flow into customer-specific systems is, of course, of equal importance. The file-based CAD data management had, however, previously made it difficult to reuse the 3D models and to utilize the product structures from the design phase downstream in the ERP system.

CIMdata PLM Industry Summary

Thanks to the excellent preparatory work done by the project team, migration of all the CAD data resources, which encompassed a total of 90,000 Solid Edge models and drawings, 62,000 master item records and 230,000 parts list items, took a mere two weeks. All the assemblies can now be opened with the Workspace Manager without any difficulty. Following a training course by CONTACT on the web services and the development environment for CIM DATABASE, the specialists at Robatech have also created their own XML-based interface. This is a component within a service-oriented architecture (SOA) and permits external access to CIM DATABASE. It is already online in conjunction with the ERP system APplus. In future, it is intended that the interface also be used in Robatech's customer portal to provide PLM data and documents such as operating instructions, product catalogs and spare parts catalogs.

Thomas Hilfiker, who is responsible for the PLM project at Robatech, is extremely pleased with the rollout of CIM DATABASE: "Not only were we on time and in budget, but we have also already been able to deploy some of the functions of Project Office and the portfolio management system that were actually only planned for the second phase of implementation."

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Product News

ASCON's C3D Kernel Licensed for CAD Furniture Design by Bazis-Center

29 March 2013

ASCON today announced that its C3D kernel has been licensed by Bazis-Center, the developer of CAD systems for the furniture industry. In basing its software on C3D, Bazis-Center plans to implement in its CAD modules the latest 3D modeling technology, as demanded by the international furniture market.

BAZIS System is a software package that covers the entire range of design tasks needed by furniture manufacturers, from designing and engineering, through to production. New development of the software came from the increasing client demands for customized interior and furniture models. This created new challenges for Bazis-Center, and so it was necessary for them transition their software to a more powerful three-dimensional kernel.

"We conducted a thorough analysis of the geometric kernels on the market," said Natalia Bakulina, CEO of Bazis-Center. "We used two criteria: we looked for the one with the best ability to handle the needs specific to the furniture design; and we looked for the kernel with the best functionality, performance, and cost ratio. After searching for six months, we concluded that our needs would best be fulfilled by the C3D geometric kernel from ASCON. We look forward to our BAZIS System strengthening its leading position in the furniture CAD segment through our collaboration with ASCON."

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Autodesk 2014 Design and Creation Suites Give Flexibility to Innovate More

26 March 2013

The new [Autodesk, Inc.](#) Design and Creation Suites offer unprecedented access to the Autodesk 2014 software portfolio spanning the desktop and cloud and allow [building](#), [product](#), [plant](#), and [factory](#) design; [engineering, construction and infrastructure](#); and [entertainment creation professionals](#) to innovate more. For the first time, the 2014 Design and Creation Suites include new reality capture software and services that more easily incorporate both laser scans and digital photographs of the physical world into the 3D design and engineering process.

The flexible, economical software access provided by Autodesk Suites means designers and engineers have a broader palette of tools to choose from — they can choose the best tool for the job at hand and better respond to changing business requirements. Suites customers on [Autodesk Subscription](#) will also have access to select [Autodesk 360](#) cloud services that extend designers and engineers' workflows to explore more design alternatives, collaborate more effectively and experience greater mobility. Subscription customers now can purchase additional cloud capacity as well.

“With our 2014 portfolio, organizations large and small across every industry can simply innovate more,” said Andrew Anagnost, senior vice president of Industry Strategy and Marketing at Autodesk. “Autodesk’s commitment to making our 3D design, engineering and entertainment software portfolio accessible to customers through suites workflows that connect to value added services in the cloud is unwavering.”

The 2014 family of Autodesk Design and Creation Suites includes:

- [Autodesk AutoCAD Design Suite](#)
- [Autodesk Building Design Suite](#)
- [Autodesk Entertainment Creation Suite](#)
- [Autodesk Factory Design Suite](#)
- [Autodesk Infrastructure Design Suite](#)
- [Autodesk Plant Design Suite](#)
- [Autodesk Product Design Suite](#)

Comprehensive Industry Workflows Include Reality Capture

A key addition to the 2014 portfolio of suites is [Autodesk ReCap](#), a family of new reality capture software and cloud services that simplify the process of creating intelligent 3D data of physical objects and environments using laser scans and photos, allowing customers to bring the actual job site or physical objects into their design and engineering process.

Rather than beginning with a blank screen, designers and engineers can add, modify, validate and document their design process in context. For example, a civil engineer can bypass an existing bridge or

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expand the road underneath digitally and test feasibility with accurate survey data. At construction phase, builders can run digital clash detection to truly understand if existing utilities will be in the way. Urban planners can get answers to specific design questions about large areas, such as how much building roof surface is covered by shadow or vegetation.

The 2014 suites' industry specific workflows address specific user needs and strengthen compatibility between products. For example, suites containing [Autodesk Revit](#) products and [Autodesk AutoCAD](#) software enjoy tighter interoperability so when it is time to import forms from AutoCAD into Revit products, the forms retain much greater integrity, or when it is time to output drawings in AutoCAD, users can generate 2D documentation within Revit products. Suites containing Autodesk Revit and [Autodesk Inventor](#) software will benefit from tighter interoperability that allows customers, such as building product manufacturers, to simplify and export an Inventor model into a Revit file format for the construction environment without exposing any sensitive intellectual property.

Better Together: Desktop and Cloud

Autodesk 360 extends the suites workflow advantage by connecting the desktop to secure and virtually infinite computing power in the cloud, helping subscribers rapidly design, visualize, simulate, and share their ideas anywhere, anytime.

Illustrating the power of a combining the cloud and desktop, Autodesk Infrastructure Design Suite 2014 and Autodesk Building Design Suite 2014 introduce [Autodesk InfraWorks](#) software and Autodesk InfraWorks 360 cloud services. These new tools help accelerate the adoption of [Building Information Modeling](#) (BIM) and cloud-based workflows for the planning, design, construction and management of civil infrastructure projects. Helping improve the civil infrastructure design process by engineering in 3D from the start, the software and services allow collaboration with a broad set of stakeholders on mobile and desktop platforms, and enables communication in new and visually compelling ways. Autodesk InfraWorks allows civil engineers and planners to design within the context of the real-world environment, helping to deliver projects, both large and small, by more efficiently managing even large-scale infrastructure models.

Economical Access

Finally, each suite offers an economical way for customers to access their primary design software—plus the complementary software and cloud services needed to more effectively complete design, engineering, or entertainment creation tasks. The 2014 Suites, which come in Standard, Premium or Ultimate editions, offer greater value than ever before:

- Standard editions of all suites containing AutoCAD have added [AutoCAD Raster Design](#) software.
- Autodesk Building Design Suite subscribers gain access to [Autodesk Green Building Studio](#) and energy analysis cloud services in the standard edition, as well as InfraWorks 2014 and the Optimization for Inventor cloud service in the Ultimate edition.
- Autodesk Entertainment Creation Suite customers will benefit from new workflows like the ability to easily generate moving or idle crowds with populate, improved viewport display and

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shading, and the ability to create production-quality meshes with the new retopologizing options.

- Autodesk Factory Design Suite includes more than 300 new factory assets.
- Autodesk Infrastructure Design Suite Premium now includes Autodesk InfraWorks 2014, Autodesk Roads and Highways Module for InfraWorks, [Autodesk AutoCAD Utility Design](#) software and for the first time, a single, comprehensive version of Autodesk Revit products that combines tools for architectural design, mechanical, electrical, and plumbing (MEP) engineering and structural engineering.
- Autodesk Plant Design Suite Ultimate adds Autodesk Inventor with Routed Systems, and the Plant Design Suite Premium edition now includes [Autodesk 3ds Max Design](#) software.
- Autodesk Product Design Suite Premium now includes Autodesk Inventor Professional, and [Autodesk Navisworks Manage](#) has been added to the Product Design Suite Ultimate edition for clash detection. Both Product Design Suite Ultimate and Premium customers on Autodesk Subscription now have access to the Optimization for Inventor cloud service.

Availability

Availability varies by country. Suites customers on Subscription have access to select Autodesk 360 capabilities, and subscribers can purchase 100 additional cloud credits for only \$100. See details and purchasing options at <http://www.autodesk.com/purchaseoptions>.

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Bentley Announces Immediate Availability of New Navigator Mobile App for the iPad Leveraging Next Generation of i-models

27 March 2013

Bentley Systems, Incorporated, announced the immediate availability of the new [Navigator Mobile](#) app, providing review of 3D models on the iPad, and the next generation of Bentley's i-models, which serve as containers for open infrastructure information exchange. *Navigator Mobile* enables construction workers in the field, architects and engineers on the move, and other project stakeholders to navigate – online or offline – 3D architecture, engineering, and construction models intuitively and fully using i-models, as well as to browse a broad range of project documents in various formats.

The app's ability to offer users superior 3D model scale and fidelity for dynamic review on mobile devices is enabled by its use of i-models that can now package together 3D models and related documents for use on mobile devices. This next generation of i-models uses the SQLite software library to deliver unmatched performance on virtually all mobile devices.

Harry Vitelli, Bentley vice president, construction and field products, said, "Our first generation of i-models had all of the functional requirements nailed: provenance, engineering precision, self-description, and portability. And they also could normalize AEC data for accessibility through office technologies and enterprise connections.

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“Our next generation advances the technology underlying an i-model with the power of SQLite, which is perfect for the challenges of industrial-strength, ‘purpose-built’ apps for mobile infrastructure professionals involved with complex tasks such as *interactive inspections*, engineering data visualization, and model review. At the same time, this extends Bentley’s platform across iOS, Android, and Windows RT environments.”

Navigator Mobile extends the value for *ProjectWise Passport* holders by further advancing information mobility with integrity across engineering disciplines and the infrastructure lifecycle, improving workflow efficiencies and providing additional opportunity for project reviews. iPad users can download this innovative app and try it for themselves using sample data or their own models via Bentley’s “Explore” trial services program, available at www.Bentley.com/NavigatorMobile.

With the all-new *Navigator Mobile* app, iPad users can navigate architectural, engineering, or construction models in 3D using easy-to-use, game-like touch gestures to walk, fly, zoom, and analyze objects in the model, but with the power, precision, and integrity they’ve come to expect in engineering environments. Moreover, they can review the properties of a selected object, query to find similar objects, filter to hide or display objects that match specific properties, measure distances between objects, and more.

Stephen Corney, senior structural modeler, Arup, said, “Now that projects are more distributed – with teams and other resources often scattered around the globe – it’s becoming difficult to maintain collaborative workflows. Mobile devices like the iPad are fast becoming the clipboard of today, and adding a project review tool to them is the ideal solution to the growing project collaboration problem. Bentley’s new *Navigator Mobile* app is easy to use, provides the comfort factor of data security, and will be part of our team’s solution set.”

Huw Roberts, Bentley vice president, core marketing, said, “Bentley’s *Navigator Mobile* app and its next generation of i-models extend Bentley’s commitment to information mobility, substantially expanding the reach and flexibility of collaborative project workflows, expediting reviews, and saving time and money. Used in conjunction with our [ProjectWise Explorer Mobile](#) app, *Navigator Mobile* ensures that, along with drawings, spreadsheets, and PDFs, even the largest and most complex AEC models can be confidently reviewed, whether in the office, a remote location, or the field. From now on, such information mobility is no longer a nice-to-have convenience, but rather a *must have* for project success.”

Roberts continued, “The AEC community has long contended with interoperability struggles regarding disparate native file formats used by architects and engineers. But at this point, the real opportunity is the application of information mobility into construction and into operations, and for those purposes i-models are the very practical answer – combining ‘industrial-strength’ performance, functionality, and integrity with the easy-to-use experience that consumer advances have led us all to expect and appreciate on our iPads!”

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For additional information about *Navigator Mobile* or to download and explore the app, go to www.Bentley.com/NavigatorMobile. For additional information about Bentley's iWare and other apps, including *ProjectWise Explorer Mobile*, go to www.Bentley.com/iWare. For additional information about *ProjectWise*, go to www.Bentley.com/ProjectWise.

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CAD/CAM Connect Expands its CAM Software Supplier Network

27 March 2013

[CAD/CAM Connect](#), an online destination for mechanical engineers and machinists, has added several more top CAM suppliers to its line-up. Recent additions include GibbsCAM, Autodesk's HSMWorks for Solidworks, DP Technology's ESPRIT and several packages from Vero Software (EdgeCAM, SurfCAM, AlphaCAM).

“Our portfolio of CAM packages covers all disciplines from milling, lathe, wood and stone work, wire EDM to nesting, feeding all types of CNC machines,” says CAD/CAM Connect founder and CEO Ken Wilson. “Every CAM program has their strengths and weaknesses based on user requirements. Companies have invested a lot of money in the CNC machines they have on the floor. To get the most out of those machines, the right CAM software and supplier has to be considered as an extension to that investment.”

CAD/CAM Connect is an online resource for engineers and machinists where they can find top suppliers, expert advice, community forums, white papers, and deals. The website features many different CAM vendors to offer visitors different choices.

“There is not one [CAM software](#) that satisfies everyone's needs. Each company and job shop has specific requirements from their clients, the work they do and the machines they own. We try to take the guess work out of it to help them make better decisions by offering expert advice and the best choices possible in one place”, says Wilson.

“Purchasing a CAM system is a major investment the buyer will live with for years to come. Making the right decision is critical. CAD/CAMConnect.com has a pool of talented machining experts and resources to help cut down on the time it takes to research and buy what they need.”

To find out more about CAM software options, call 512-773-1521.

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CimatronE 11 Now Available

27 March 2013

[Cimatron Limited](#) today announced the official release of CimatronE 11, the newest version of its integrated CAD/CAM software solution.

"CimatronE 11 contains all that a tool shop needs to dramatically ramp up its productivity," said Mr Ira Bareket, Cimatron's VP Sales and Marketing.

"Existing CimatronE customers will benefit from the software's additional capabilities, new analysis tools, automations, and advanced processes and technologies.

"Those shops that do not yet use CimatronE will be amazed by the range of powerful mold- and die-specific tools and the way in which these can be employed to improve overall shop performance, enhance product quality, and minimize costs."

Key productivity improvements offered by the new version include:

- **Fast and effective CAD for tooling**
The new Wall Thickness Analysis tool ensures early detection of product integrity issues. The Assembly Mirror tool enables rapid mirroring of assemblies. New modeling features in solid and faces allow for faster work and greater flexibility. With enhanced drafting tools, drawings can be created quickly and there is easier manipulation of view and dimension positions.
- **Seamless, optimized mold design**
The new ECO Manager offers highly effective assessment and seamless incorporation of any number of engineering changes in an existing project. New tools enable the rapid creation of internal parting surfaces and lifter pockets, as well as the design and analysis of cooling channels.
- **Flexible and intuitive die design**
A new user-friendly die design environment enables flexible die creation and concurrent work by several designers. A new nesting tool ensures optimized material usage for transfer dies. The new Springback Analysis tool reduces the need for costly and time-consuming shop-floor iterations.
- **Superior results with new machining strategies**
Enhanced programming automation and new capabilities are now available in finish and rough, as well as ultra high volume material removal with VoluMill. In automated drilling there is improved collision and gouge prevention and more flexible and powerful sequences, and full control can be exercised over all gun drilling sequences.
- **Quick and efficient NC programming**
New capabilities ensure programming efficiency, template improvements offer greater automation, and NC on Assembly provides enhanced control over imported components. A new material removal simulator offers highly accurate results.

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- **Superior fast electrode design and manufacturing**
Greater centralized control over visibility, as well as automatic coloring and finish automation, ensure the design and creation of electrodes in record time.

Further information on CimatronE 11's many new features can be seen at <http://launch.cimatron.com>

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Dassault Systèmes Announces New Software Release; Increases Multi-Version Interoperability

21 March 2013

[Dassault Systèmes](#) announced the general availability of the latest release of its Version 5 PLM applications.

The V5-6R2013 release adds new composite fiber modeling technology (based on the recently acquired Simulayt), increased openness and standards support and enhanced high-end surface modeling capabilities. The new release also includes additions to the groundbreaking V6-to-V5 multi-version compatibility announced last year, further enabling internal and external V6-V5 collaboration. V5-6R2013 includes nearly 40 new 3DEXPERIENCE technologies originally from [V6R2013](#) and [V6R2013x](#).

“Today’s announced enhancements bring a whole new level of capability to our V5 install base. It is rich in features, functions, and new products. At the same time, we are thinking far beyond that,” said Dominique Florack, Senior Executive Vice President, Products, R&D, Dassault Systèmes. “We are considering how our customers develop their products and their own customers’ experiences, how they work with suppliers regardless of version, and how they adopt new software over time.”

More specifically:

- **New composite materials fiber simulation capabilities** to optimize ply shapes and ensure accurate composites manufacturing. This technology, based on the recently acquired Simulayt, is routinely used to analyze complex surfaces, particularly in aerospace, motorsports and the energy sector. Fiber Modeler was originally introduced in V6R2013x and is now natively available in V5-6R2013 of the 3DEXPERIENCE platform;
- **[Recently announced support for ISO-approved STEP data exchange and openness](#) is now included in V5**, enabling industry-standard openness, data exchange, visualization, and long term archiving of 3D models. Originally announced as part of V6R2013x, support of the ISO-developed STEP242 is now part of V5 and enables import and export of BREP and tessellated data, demonstrating the increasing adoption of a 3D Master methodology in the automotive and aerospace industries;
- **The transfer of native capabilities from V6 to V5 continues** with the introduction of nearly 40 new Part Design, Sketcher and Surfacing functions originally developed for the 3DEXPERIENCE platform in V6R2013 and V6R103x, including 21 new capabilities in

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Generative Shape Design, seven new enhancements to Part Design, and 11 new functions in Sketcher;

- **Multi-version compatibility between V6 and V5 is increased.** V6 models opened in V5 now retain features created in the FreeStyle workbench, Kinematic Mechanism specifications, and Functional Tolerancing & Annotation (FTA) data. Anything designed in the V6 FreeStyle workbench is now editable in V5-6R2013. Kinematic specifications, including joints, commands and dress-up can now be edited from V5 after being developed in V6. When exporting FTA information from V6, the data, as well as links between FTA features and geometry, are maintained in V5. The capabilities announced today further enable customers and their supply chains to benefit from the value of V6 alongside their existing V5 deployments. These new compatibilities are in addition to previously announced compatible workbenches (e.g. V6's Part Design, Sketcher and Generative Surface Design and knowledgeware);
- **CATIA ICEM Shape Design extends** its high-end Class A surfacing modeling capabilities with 68 separate enhancements to Curve Creation, Surface Creation, Modification, Analysis and Infrastructure. From conceptualization through final refinement and detailed design, this release contains multiple powerful enhancements increasing the productivity of the user interface, improving graphics performance and integration with ICEMSURF.

“We have a large customer base and they have a variety of solutions from us that enable the creation of enticing, delightful products and experiences,” said Monica Menghini, Executive Vice President, Industry and Marketing, Dassault Systèmes. “We have a responsibility to bring the latest innovative technologies to them, regardless of what 3DEXPERIENCE solutions they are using. At the highest level, version names, ‘V4,’ ‘V5,’ ‘V6,’ should be irrelevant. It doesn’t matter what version is indicated on the screen. We will make sure our customers succeed, offering them the ability to work with their ecosystems and adopt new, innovative technologies at their own pace.”

For additional information on version to version collaboration, please visit www.3ds.com/V6-V5.

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Datakit Offers Enhanced CATIA to SolidWorks Converters

27 March 2013

Datakit announced the following Solidworks converter plug-ins:

- [JT 3D to SolidWorks](#)
- [CATIA V6 3D to SolidWorks](#)
- [CATIA V5 3D to SolidWorks](#)
- [CATIA V5 2D to SolidWorks 2D](#)
- [CATIA V4 2D to SolidWorks 2D](#)

CATIA V4 2D to SolidWorks 2D

- Enables accurate and convenient CAD data transfer from CATIA V4 2D to SolidWorks

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- Does not require a license of CATIA V4
- Converts model files and CAT export
- Create one SolidWorks drawing file per draft

CATIA V5 2D to SolidWorks 2D

- Enables accurate and convenient CAD data transfer from CATIA V5 2D to SolidWorks
- Does not require a license of CATIA V5
- Converts drawings: CATDrawing files

CATIA V5 3D to SolidWorks

This brand new import plug-in is based on the new Datasheet API which significantly improves the geometric conversion of native CAD models.

- Enables accurate and convenient CAD data transfer from CATIA V5 to SolidWorks
- Does not require a license of CATIA V5
- Converts part and assembly files: CATPart and .CATProduct files
- Translates 3D data, including CATIA V5 Exact Solids
- Data can be filtered based on entity type and visibility
- Certified 'gold product' by SolidWorks

CATIA V6 3D to SolidWorks

This brand new import plug-in is based on the New Datasheet API reading 3dxml files from CATIA V6

- Enables accurate and convenient CAD data transfer from CATIA V6 to SolidWorks
- Does not require a license of CATIA V6
- Converts parts and assemblies: 3dxml files
- Translates 3D data, including CATIA V6 Exact Solids
- Data can be filtered based on entity type and visibility

JT 3D to SolidWorks

- Enables accurate and convenient CAD data transfer from JT to SolidWorks
- Does NOT require a JT license

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Enterprise Data eXchange (EDX) Established to Ensure Safe, Secure Data Sharing Between PCB Design Teams and the Enterprise

27 March 2013

The Enterprise Data eXchange (or EDX) Solutions Alliance was established today to provide an open industry forum for the broad adoption of its new standard, EDX. EDX is a new and robust data format created to capture PCB-related IP in a standard form for safe and secure data-sharing with enterprise systems and remote third parties. Managing and maintaining data integrity with today's increasing PCB design complexity, and securing and avoiding file corruption, has become a paramount concern as data is shared with groups requiring access to this IP. The current interfaces to move or share this data are ad-hoc and often tied to specific EDA software versions, which creates cross-dependencies between applications of independent companies and often requires costly adaptations or customizations.

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Thus, the EDX format was established to protect the integrity of all product data and the native design data, as well as their relationships, enabling secure exchange of the data at any point in time of the product life cycle. By representing the data in a consistent EDX format— independent of any of the tools used to create it or to read it—version-independent system interfaces can be easily established. As design tools continue to advance, the EDX structure remains consistent and intact; only content of the native files change but not the interfaces to share the data. This provides companies with the flexibility to upgrade their PCB design flow independently from existing interfaces to both third-party and enterprise tools.

This has been a consistent issue for PLM systems where each release of the PLM product typically has an interface tied to a specific version of the EDA tools. PTC has already evaluated EDX and recognizes this as an important benefit. “PTC is currently working on EDX-based integrations between PTC Windchill and the Mentor Graphics ECAD suite, including their Expedition Enterprise, Data Management System, and DxDesigner products. This will enable library and design data sharing via EDX, including process support for New Part Requests and Electronic Change Orders (ECOs),” stated Graham Birch, director of Windchill product management at PTC. “With EDX as a common data format, the ECAD interface will no longer be dependent on the design flow version, enabling our customers to maintain their design tools more independently from the Windchill tools and simplifying the integration maintenance for our customers.”

EDX is an XML-in-ZIP format which uses a combination of Open Packaging Convention containers to hold the data files, manifest files to organize the content, and the latest digital signature technology for secure, reliable data exchange and archiving. All data types associated with the PCB design are supported (native design data, library data, related component data, BOMs, manufacturing files, ODB++ as the product model, and viewable files such as PDF and EDIF). EDX also provides the flexibility to incorporate any additional data object that the designers may want to include such as functional specs, test results, spec control drawings for library parts, etc.

Mentor Graphics also supports EDX from its Expedition® Enterprise EDA design flow. “EDX provides a single package, from native design and library data, to all of the derived outputs required for downstream processes,” stated Dan Boncella, director of marketing, Mentor Graphics System Design Division. “By placing all of the data required in a single package and signing it for security to mitigate the risk of incomplete or inconsistent instructions, EDX is the ideal solution for handing off data to design partners and contract manufacturers.”

The EDX Solutions Alliance is an industry consortium to drive the broad adoption of the EDX standard. Members currently include: Agilent Technologies, Autodesk, Class Technologies Co., Ltd., Mentor Graphics, Omnify Software, Perception Software, and PTC. Membership to the EDX Solutions Alliance is free and is highly encouraged for those interested in creating stronger, consistent interfaces between their PCB design flow and their enterprise tools.

Additional information about EDX and the partners actively adopting the format can be found on the

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EDX Solutions Alliance website at www.edx-sa.com. The site provides more information on EDX, its typical use cases, the format specification itself, as well as some starter tools for developing EDX-based interfaces.

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GRAPHISOFT ArchiCAD Receives IFC Certification 2.0, Passes COBie Design Challenge

26 March 2013

GRAPHISOFT announced important milestones in its support for Open BIM with ArchiCAD having successfully passed both IFC Coordination View 2.0 (Certification 2.0) and the buildingSMART alliance 2013 COBie Challenge.

ArchiCAD is now certified for the IFC 2x3 Coordination View Version 2.0 export, making ArchiCAD among the very first to achieve this certification as of 12 March 2013, and is 100% COBie compliant (“buildingSMART alliance January 2013 Challenge”, Washington, DC).

“It’s not enough for us to champion IFC as an open-code standard format; we strive to support our customers with reliable open collaboration workflows with other building professions as well” said Ákos Rechterisz, Head of the Open BIM Program at GRAPHISOFT.

The Coordination View was the first Model View Definition developed by buildingSMART International and is currently the most widely implemented view of the IFC scheme. Its main purpose is to allow sharing of building information models among the disciplines of architecture, structural engineering, and building services (mechanical).

The COBie specification requires the support of the IFC 2x3 Basic FM Handover View, an extended version of the Coordination View developed by buildingSMART. It defines general requirements for information handover to facility management. Support for COBie is important in the US as well as in the UK and all other English-speaking countries.

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Knovel Adds Six Publishers

26 March 2013

Continuing to respond to its growing international customer base, [Knovel](#) today announced the addition of six new publishers. The new publishers allow Knovel to introduce more content to its existing collection and provide users with authoritative answers to their most critical questions.

“Our customers work with us to ensure their engineers have access to the critical data they need to get

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their jobs done efficiently, and our publishers help us to make that happen,” says Meagan Cooke, Director of Content Strategy for Knovel. “We’re pleased to be able to introduce a selection of great new content, which will be available across dozens of subject areas.”

New publishers include:

[AIHA Publications](#): The American Industrial Hygiene Association (AIHA) is the premier association of occupational and environmental health and safety professionals. AIHA has developed a strong international reputation as a publisher of essential books for professionals.

[Analytics Press](#): Analytics Press teaches applied business analytics and critical thinking skills by publishing books, reports, course materials and software, and by organizing seminars and workshops.

[CBS Press](#): Copenhagen Business School Press is a specialized academic publisher of books on management, economics and organizations. Affiliated with Copenhagen Business School (CBS), CBS Press publishes, promotes and distributes English language titles for the Scandinavian and global markets.

[Cengage Learning](#): Cengage Learning is a leading educational content, software and services company for the academic, professional and library markets worldwide. The company’s products and services are designed to foster academic excellence and professional development, increase student engagement, improve learning outcomes and deliver authoritative information to people whenever and wherever they need it.

[Dover Publications](#): Dover Publications, Inc., founded by New Yorkers Hayward and Blanche Cirker in 1941, is headquartered in Mineola, New York. A niche book publishing house with over 120 employees, Dover produces more than 10,000 titles including books on mathematics, engineering, science, architecture, astronomy, chess, clip art and fine art, crafts, history, literature, music, children’s books, and titles by over two dozen Nobel Laureates. Mr. Cirker passed away in March 2000 at age 82, and the privately owned company was purchased by Courier Corporation.

[Maritime and Coastguard Agency](#): The Maritime and Coastguard Agency implements the government's maritime safety policy in the U.K. and works to prevent the loss of life on the coast and at sea.

“The strength of our business has allowed us to continue to grow and develop our inventory of math and science publications, and strengthening our digital presence has been a top priority over the past few years,” said Frank Fontana, President of Dover Publications. “Knovel is the perfect partner to help us introduce many of our print titles to online communities in digital format for the very first time. Knovel’s interactive charts, graphs and equations were especially appealing as we looked for the best way to present our content in this new format.”

Knovel works with more than 100 societies and publishers worldwide, ensuring that engineers have

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access to trusted sources of technical content across more than 30 subject areas. For more information about Knovel and publisher opportunities, please visit: <http://why.knovel.com/solution/content.html>.

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Lectra Fashion PLM Continues to Evolve to Industry Needs

26 March 2013

Lectra is pleased to announce the release of Lectra Fashion PLM V3R2.

“In a complex and changing fashion environment, team alignment is critical to supporting business growth strategies such as adding new product lines or brands, expanding into new geographies or adding sourcing options such as near-shoring,” comments Daniel Harari, Lectra CEO.

To meet these challenges, the latest version of Lectra Fashion PLM helps fashion teams work collaboratively and efficiently in a fashion-friendly environment. By federating design, development and sourcing, companies can make quick and informed decisions at any time from concept to production facilitating both flexibility and team alignment.

New features for searching and information sharing

Managers, designers, product developers and buyers all need to share product development information in order to stay on track and get products to market on time—but working together effectively is just as important as reliable information.

“It is very important that the entire apparel product lifecycle process be solid before implementing technology. It is equally as important that there be buy-in from all teams, all levels, including design. The new solution must be sticky,” advises Anastasia Charbin, Fashion Marketing Director, Lectra. “Coupled with industry best-practices, the latest release of Lectra Fashion PLM meets these requirements.”

One of the most critical functions is to find necessary information in a fast and visual way. “We have overhauled this process based on feedback from our user community so that a fashion-friendly search for a single product reference (SKU), groups of similar products, similar fabrications or an entire product line is possible with different ways to refine results. Managers and users can design and save their own search criteria and view information as it is useful to them,” Anastasia Charbin concludes.

Product development teams also now benefit from a unique shared access when building a Bill of Material (BoM) to improve team collaboration and thus productivity. In addition to saving precious time and increasing on time delivery, Lectra has enhanced access options so that different teams may update information in different ways concurrently. Waiting time is decreased while the quality of information is

improved, thus speeding decision-making and time to market.

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MathWorks Adds Capabilities to Speed Wireless and Radar Design with MATLAB and Simulink

26 March 2013

[MathWorks](#) today announced strengthened support for wireless communications and radar design with [MATLAB](#) and [Simulink](#). Release 2013a (R2013a) enhancements to [Phased Array System Toolbox](#) and [SimRF](#) now allow wireless communications and radar system designers to speed up modeling and simulation within the familiar MATLAB and Simulink environments.

Phased Array System Toolbox helps users to model an end-to-end phased array system or process acquired radar data by using new capabilities for polarization, array perturbations, and broadband arrays. SimRF includes a new circuit envelope solver to accelerate simulation and model load time; it also expands its library of components for the simulation of RF front ends at the system level. These enhancements help radar and communications system designers to model increasingly complex scenarios with greater accuracy and performance.

“We rely heavily on MATLAB to design and model phased array performance in radar and communication markets,” said Robert Liechty, business development manager at Cobham Defense Electronics. “Phased Array System Toolbox has helped us rapidly measure and analyze antenna beam patterns with beam steering to evaluate our design performance. We are pleased to see major enhancements in Release 2013a such as the Sensor Array Analyzer app and new statistical modeling capabilities that will allow more of our engineers to work more efficiently with Phased Array System Toolbox.”

“As wireless and radar communications systems become more complex, designers need to be able to see how RF devices and signal processing algorithms interact with each other to affect overall system behavior,” said Ken Karnofsky, senior strategist for signal processing at MathWorks. “These new capabilities in MATLAB and Simulink eliminate the time and effort required to maintain separate tools and legacy code bases.”

The major update to Phased Array System Toolbox includes:

- Monostatic and multistatic radar system modeling, including point targets, free-space propagation, surface clutter, and barrage jammer to help estimate maximum range, peak power, and SNR of a radar system.
- Modeling of sensor arrays and subarrays with arbitrary geometries for beam pattern analysis of linear, planar, and conformal sensor arrays.
- Polarization and platform motion specification for arrays and targets.

- GPU support to accelerate clutter modeling.

Key enhancements to SimRF include:

- Faster circuit envelope simulation of multiple carrier-frequency models for arbitrary architectures. Combined with equivalent baseband technology for discrete-time simulation of single-carrier cascaded systems, this enables rapid RF modeling and simulation at the system level.
- Reduced simulation startup time.
- Easier setup of circuit envelope simulation with enhanced configuration block, including unlimited number of simulation frequencies and automatic selection of fundamental tones.
- New models for active and passive components (amplifier, mixer, LC ladder, transformer, noise) and custom SimRF model authoring using the Simscape language.

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New AVEVA Automated Plate Nesting™ Optimises Material Use in Ship and Offshore Construction
27 March 2013

AVEVA today announced the release of the new AVEVA Automated Plate Nesting, a plug-in module to [AVEVA Hull Detailed Design™](#) software. It automatically and efficiently nests parts into raw steel plates, maximising the usage of the material and drastically reducing the scrap ratio associated with this process.

By minimising production waste in this manner, shipyards can achieve savings of up to 13% on raw material requirements when compared to using semi-automatic nesting or other third-party systems. AVEVA Automated Plate Nesting has already proven to be number one for scrap optimisation, following comparison tests. In addition, this new module makes the nesting process far easier which leads to saving significant man-hours in production engineering.

'The striking rise in steel prices over the last ten years has made the more efficient use of steel material a real priority for the shipbuilding and offshore market', said Bruce Douglas, Senior VP Marketing & Product Strategy, AVEVA. 'AVEVA Automated Plate Nesting provides an accurate and sophisticated plate cutting process that reduces waste and man-hours both of which have a direct benefit to the bottom line.'

AVEVA Automated Plate Nesting is a direct plugin to AVEVA Hull Detailed Design, removing the need for costly interfaces or third-party systems. It is compatible with the most recent version of AVEVA Marine.

A user's view of AVEVA Automated Plate Nesting, showing parts efficiently placed on the steel sheet to leave the maximum amount of unused plate on the right. The red lines are automatically calculated paths

for the robotic plate cutting machine.

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RuleDesignerFusion PDM available for all Versions of SolidWorks

25 March 2013

ENGINEERING PLM Solutions, a global vendor of product lifecycle management solutions (PLM), today announced the availability of RuleDesignerFusion PDM's integration with all versions of SolidWorks, even the latest released SolidWorks 2013, and supported operating systems.

Regardless the release in use, SolidWorks users can benefit from the jointly use of the CAD system with RuleDesigner PDM to manage in an easy and consistent way product related design files concerning components, assemblies, metal sheet and welding development procedures, and 2D drawings. It allows to manage all related technical documentation, too.

Moreover, RuleDesigner PDM provides organizations with extended functionalities to manage and share their SolidWorks product designs. It offers functionalities for parametric classification, part-numbering and file automatic rename, configurable workflows, deriving and manipulating BOMs and the possibility of performing batch processing on lists of files.

Finally, RuleDesigner PDM's commands are embedded in SolidWorks, providing user with the ability to launch any PDM operation directly from the CAD environment accelerating part-numbering operations and information searching and reuse.

RuleDesigner PDM is a reliable and cross-sectional product data management system which grant high performances in the context in which it is deployed. It is recommended both in medium-sized organization using different CAD systems and as a system for global corporations with several sites worldwide.

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Zierick Manufacturing Launch 3D Parts Catalog With CAD Configurator Powered by CADENAS PARTsolutions

25 March 2013

CADENAS PARTsolutions and Zierick Manufacturing Corporation launch Zierick's online 3D CAD sales configurator. Zierick is filling a common need seen by electrical engineers and circuitry designers who require high quality CAD models. Offering downloadable 3D models from the new CAD configurator enables designers to quickly and accurately place, fit and specify Zierick components within their CAD system. Not only does this save the engineer design time but allows Zierick to reach a

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greater audience.

Using the eCATALOGsolutions software platform, Zierick is able to author 3D components themselves. Those CAD models can then be published for users to download online in more than 150 native and neutral CAD and graphic formats. Downloadable models are certified by Zierick to ensure accuracy for engineers incorporating into their designs.

Zierick products are used in a wide range of industries, including Industrial Controls, Automotive, HVAC, LED Lighting, Wireless Controls, Appliances, Security, Medical and Electronic Devices. Known as interconnection specialists for a variety of markets, Zierick Manufacturing provides wire-to-board as well as board-to-board connectors for both surface mount and through-hole printed circuit boards. Zierick has won many awards for its innovative designs. Learn more at www.zierick.com

"We chose CADENAS PARTsolutions because their technology makes it possible for our customers to download the CAD format that best meets their needs," says Gretchen Zierick, President of Zierick. "We were impressed with the assistance we got in quickly developing the initial release of models, and offering us the freedom to work within eCATALOGsolutions authoring software to create our own 3D models. We didn't find that option anywhere else."

"Zierick is replacing an aging solution for their web configurator with the more advanced eCATALOGsolutions platform," says Sharon Harvey, Marketing Manager at Zierick.

"Our prior configurator became cost prohibitive in the long run, because we had no access to update and modify our own data. We wanted to be able to create our own downloadable CAD models, and that has become a reality with CADENAS PARTsolutions," says Harvey. "Our goal is to make it easy for customers to do business with Zierick," adds Harvey. "By offering CAD downloads we are helping electronic designers and engineers to improve efficiency, significantly shorten design and production cycles, and reduce design and engineering costs."

CADENAS PARTsolutions is the only catalog platform offering a commercially available product, eCATALOGsolutions, for development and maintenance of 3D enabled catalogs supporting all major CAD systems with native file integrations, as well as publishing options for mobile devices, print catalogs and others. Many clients prefer that CADENAS PARTsolutions create the CAD models using eCATALOGsolutions. Some, like Zierick, prefer to work within the authoring platform to create and maintain their own models.

"CADENAS PARTsolutions is pleased to welcome Zierick as a new client, adding very intricate, specialized electronic components for circuit boards. Electromechanical products are an area of rapid expansion to the eCATALOGsolutions family of customers," adds Rob Zesch, President and COO of CADENAS PARTsolutions. "We look forward to providing the best solution available to Zierick and their customers, by helping them increase sales and provide unmatched customer satisfaction."

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