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CIMdata News

PLM Road Map 2012

3 October 2012

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces the successful start of its 2012 PLM Road Map™ conference in Plymouth, Mich. The theme of the conference is PLM as the *Strategic Imperative: Managing Lifecycle Complexity to Drive Competitive Advantage*. Attendance grew by about 30% over the 2011 event to 290 attendees. Sponsorships also sold out.

Highlights of this year's event are the keynote speakers. The first-day speakers included Mark Johnson, Ford Motor Company (Rethinking PLM in a Systems Engineering World); Tristan Gegaden, EADS (Why PLM is Strategic); Dimitri Mavris, Georgia Institute of Technology (A Systems Engineering Approach to Aircraft Design); Jon Hirschick, CAD Entrepreneur (CAD Future: A Perspective), and Peter Bilello, CIMdata President (State of the PLM Market). These were followed by three tracks of more detailed discussions by PLM users and panel discussions on PLM Integration, Advances in Design Technologies, and PLM Program Management.

The sponsors' exhibit area, Eye on Technology, featured an all-electric concept car designed by Tata Technologies and a high level of energy by the attendees to learn more about what the various sponsors have to offer in support of their PLM strategies.

The event continues today with more breakout sessions on a number of topics and another group of compelling keynote addresses. Today's keynotes include John Knight-Gregson, Jaguar Land Rover (PLM Transformation: Setting Up the Program Framework); Frank Popielas, Dana Holding Corporation (Simulation-Driven Engineering); and Dr. David Cole, AutoHarvest (The Auto Sun is Rising).

CIMdata PLM Industry Summary

About CIMdata

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

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

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PLM Road Map 2012: Successful Conclusion of Annual Event

4 October 2012

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces the very successful conclusion of its 2012 PLM Road Map™ on PLM as the *Strategic Imperative: Managing Lifecycle Complexity to Drive Competitive Advantage*. PLM Road Map is the premier vendor-neutral thought leadership event that covers the broad range of PLM strategies and concepts—as one attendee stated “outstanding, good food for thought.”

On the second day, the event featured sessions on Simulation-Driven Engineering, Mechatronics and Digital Manufacturing, PLM Program Management, and PLM Education and Certification. Second day keynote speakers closed the event. They included John Knight-Gregson, Jaguar Land Rover (PLM Transformation: Setting Up the Program Framework); Frank Popielas, Dana Holding Corporation (Simulation-Driven Engineering: The Future of Product Development); and Dr. David Cole, AutoHarvest (The Auto Sun is Rising). The conference was also the venue at which CIMdata introduced its PLM Industry Consortium (see <http://tinyurl.com/8r5l38t>).

Attendance grew by about 30% over the 2011 event to 290 attendees from North America, South America, Asia, Europe, India, and South Africa. Sponsorships and booth spaces sold out. Attendee comments were very positive: “great knowledge sharing,” “good insights, thought provoking content,” “really enjoyed the variety of information.” The next exciting PLM Road Map will be held in October 2013 at a location to be announced soon.

CIMdata PLM Industry Summary

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Acquisitions

3D Systems Acquires Dutch Provider TIM

1 October 2012

[3D Systems](#) Corporation announced today that it acquired Tim The Innovative Modelmakers B.V. ("TIM"), a leading full service provider of on-demand custom parts services, located in Eindhoven, The Netherlands. The company plans to integrate the operations of TIM into its [on-demand parts](#) service as part of 3D Systems Benelux, and immediately offer its full range of rapid prototyping, model making and manufacturing solutions for the benefit of design-to-manufacturing professionals and consumers alike.

"We are very pleased to add a company of TIM's reputation, craftsmanship, flexibility and speed to our growing on-demand custom parts services network in Europe," said Ziad Abou, Director On-Demand Parts Europe, 3D Systems. "With TIM's expertise on board, we can serve our European growing customer base better, faster and with an expanded menu of services."

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

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AspenTech Acquires PSVPlus

28 September 2012

CIMdata PLM Industry Summary

[Aspen Technology, Inc.](#), a provider of software and services to the process industries, announced it has acquired the PSVPlus software product from Softbits Consultants, Ltd.

Energy, chemical, and engineering and construction companies use PSVPlus to model pressure relief scenarios and size pressure relief valves in process plants, based on industry standard procedures. Modeling of pressure relief valves helps to ensure proper safety and reliability of process plants.

The [aspenONE Engineering](#) suite provides market leading process plant modeling and optimization capabilities. PSVPlus provides additional capabilities that will eventually enable AspenTech to provide a complete overpressure protection system optimization capability. This will result in increased engineering efficiency, reduced capital and increased safety and reliability for AspenTech customers.

Terms of the transaction were not disclosed.

Mark Fusco, President & CEO, AspenTech:

“aspenONE Engineering is the most comprehensive, integrated and easy-to-use environment for process engineering. The addition of PSVPlus will give our customers the ability to model pressure relief scenarios, which is a critical activity in the design and operation of every process plant. This makes it possible to generate inherently safer and more efficient designs.”

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Autodesk Acquires HSMWorks Technology

1 October 2012

[Autodesk Inc.](#) has acquired certain assets of HSMWorks Aps, a developer of computer aided manufacturing (CAM) software. Through the acquisition of the HSMWorks technology, Autodesk will add software to control machine tools and related machinery to its portfolio of software for manufacturing. Terms of the transaction were not disclosed.

“The acquisition of the HSMWorks technology brings machining expertise and next-generation CAM technology to the world’s most comprehensive portfolio of manufacturing software,” said Buzz Kross, Autodesk senior vice president, design, simulation and lifecycle products. “Autodesk has a long history of making design and engineering technology more accessible, and we look forward to bringing HSMWorks’ CAM technology to a broader group of users.”

Autodesk intends to integrate the HSMWorks technology with its industry leading software and cloud services for manufacturing, and will make current HSMWorks products available for purchase and

CIMdata PLM Industry Summary

HSMXpress available as a free download. Existing SolidWorks customers using HSMWorks will continue to receive support and product updates. HSMWorks Aps is based in Copenhagen, Denmark.

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Autodesk Acquires Qontext Social Collaboration Platform

4 October 2012

[Autodesk Inc.](#), has completed the acquisition of Qontext, enterprise social collaboration software, from India-based Pramati Technologies. The acquisition of the Qontext technology and development team will accelerate Autodesk's ongoing move to the cloud and expansion of social capabilities in the [Autodesk 360](#) cloud-based service. Terms of the transaction were not disclosed.

"Autodesk's acquisition of the Qontext technology is a testament to the Pramati strategy," said Vijay Pullur, Pramati president. "This transaction is a significant milestone in our ongoing efforts to incubate and build companies that address the rapidly changing needs of business through highly innovative technologies."

Autodesk intends to use the Qontext technology to add new social capabilities to Autodesk 360, a cloud-based platform that offers users the ability to store, search, and view critical design data improving the way they design, visualize, simulate and share work with others at anytime and from anywhere.

"Mobile, cloud and social computing are dramatically changing the way engineers, designers and architects work. The addition of the Qontext technology to the Autodesk portfolio will lead to new technology innovations that help our customers embrace these disruptive technologies and leverage them for competitive advantage," said Amar Hanspal, Autodesk senior vice president of information modeling and platform products. "It was great to work with the team at Pramati who have demonstrated a great capability in incubating disruptive businesses."

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Siemens Acquires 3D Specialist VRcontext

26 September 2012

The Siemens Industry Automation Division has announced the expansion of its industry software portfolio with the acquisition of VRcontext International S.A., Brussels, Belgium. The announcement was made at the Digital Plant Congress in Würzburg, Germany. With its Walkinside product family, VRcontext is one of the leading developers of 3D visualization and training software for displaying complex engineering data in the shipbuilding and plant construction industries. This acquisition will help Siemens to further strengthen its established position in the industrial software market. The parties

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agreed not to disclosed details of the purchase price.

VRcontext International S.A. was founded in the year 2000 and is represented around the world by numerous strategic partners, dealer networks and a branch office in Houston, Texas, USA. Walkinside 3D visualization software is currently in use in plant operation, maintenance and servicing in more than 200 companies in over 30 countries. Whatever the system used, the software directly accesses all plant information to display the current status of a plant in visually appealing, realistic 3D graphics.

VRcontext has specialized particularly in remote offshore installations for the oil and gas industry. With Walkinside, the company has created a globally accepted standard for 3D visualization in the process industry. "The integration of the Walkinside 3D visualization and training software of our long-standing partner VRcontext into our industrial software portfolio will benefit our customers significantly. Using intelligent 3D models can make plant engineering and operation safer and more efficient in a great many sectors of industry," said Eckard Eberle, CEO of the Siemens Industrial Automation Systems Business Unit, to which VRcontext will be assigned.

Walkinside will be the perfect supplement for Comos, the Siemens software solution for holistic plant management, in providing fast access to 3D engineering data from the basic and detail engineering phases. A standard interface links Comos bidirectionally with Walkinside. The geometric elements from a virtual reality model are linked to the latest plant information throughout the entire plant lifecycle. Highly complex plant models can thus be represented realistically in three dimensions, with Comos acting as a global data center. As a result, up-to-date plant data is always available as a 3D model in all lifecycles and can be used not only for engineering and monitoring purposes, but also for operation and training. Service and maintenance work can be planned efficiently and maintenance times reduced.

The Siemens Industry Automation Division has now acquired a number of software companies and, in so doing, has consolidated its leading position in the industrial software market. All the firms concerned are leading suppliers in their respective segment: namely, UGS (USA, 2007), Innotec (Germany, 2008), Elan Software Systems (France, 2009), Active Tecnologia em Sistemas de Automação (Brazil, 2011), Vistagy (USA, 2011), IBS AG (Germany, 2012) and Perfect Costing Solutions GmbH (Germany, 2012).

More information is available on the Internet at: www.siemens.com/comos

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Synopsys Acquires EVE

4 October 2012

Synopsys, Inc. today completed the acquisition of EVE, a supplier of emulation platforms for SoC verification. Emulation is a rapidly growing solution in the spectrum of technologies used to verify today's highly complex systems on chips (SoCs). Integrating EVE's technology with Synopsys' platform of simulation, debug, verification IP (VIP), coverage, static verification, low power verification, FPGA

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prototyping and virtual prototyping solutions will give Synopsys customers access to a broad verification offering. The terms of the acquisition have not been disclosed. Synopsys does not expect the transaction to have a material impact on its financial results in 2012 or 2013.

"Synopsys has long led in delivering high-performance verification solutions to address the verification challenges associated with the growing complexities in SoCs," said Manoj Gandhi, senior vice president and general manager of Synopsys' Verification Group. "By adding EVE's technology and engineering talent, Synopsys is expanding its investment in verification to continue to bring new technology innovations to our customers."

EVE offers emulation technology used by major semiconductor and electronic systems companies worldwide. EVE emulation systems deliver performance and capacity, a broad portfolio of transactors, and a low price per gate.

"The combination of Synopsys and EVE will allow us to deliver our emulation solution more broadly while integrating with Synopsys' best-in-class simulation, debug, VIP and prototyping solutions," said Luc Burgun, president and CEO of EVE. "I look forward to accelerating industry innovations in hardware-assisted verification as part of Synopsys."

EVE will become part of the Synopsys verification business unit, with Mr. Burgun leading the emulation team.

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Company News

AspenTech Opens New R&D Facility in Nashua, NH

2 October 2012

[Aspen Technology, Inc.](#) announced it has opened a new R&D facility in Nashua, NH. New Hampshire Governor John Lynch and other state officials celebrated the office opening with AspenTech employees in Nashua.

The new facility is located at 100 Innovative Way in the Nashua Technology Park. The new office will also provide business continuity capabilities for AspenTech's corporate headquarters in Burlington, MA, located just 23 miles from Nashua.

The 75 employees in the new office include dozens of recent chemical engineering and computer science graduates, recruited through [AspenTech's University Hiring Program](#). Fueling the company's expansion, AspenTech has hired graduates this year from Boston College, Boston University, Carnegie Mellon, Cornell, Northeastern, MIT, Tufts, WPI, and the Universities of Delaware, Houston,

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Massachusetts, Minnesota, New Hampshire, and Washington.

Process manufacturers use the [aspenONE®](#) software suite to optimize their engineering, manufacturing, and supply chain operations. This results in improved profitability, significant cost savings, and superior operating performance. Visit www.aspentech.com for more information.

John Lynch, Governor, State of New Hampshire:

“New Hampshire is routinely recognized as one of the best states in the nation in which to do business because of our educated workforce and low-tax environment. AspenTech is a tremendous company and a leader in the software industry, which is why I am very pleased that Mark Fusco and his team have chosen to expand here in New Hampshire. AspenTech is bringing good, high-paying jobs to our state, which is great news for the local and state economy. Having an industry leader like AspenTech creating the latest cutting edge innovations here in New Hampshire is truly exciting.”

Mark Fusco, President and Chief Executive Officer, AspenTech

“New Hampshire is a great place for a growing company to expand its footprint. New Hampshire’s low tax structure and business-friendly attitude was an important factor in our decision to locate our new R&D facility here. AspenTech is hiring on a number of different fronts, and we’re excited to have worked with Gov. Lynch and his team to bring our newest product development facility to New Hampshire.”

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Atos Opens New Offices in Qatar to Support Business Growth in the Middle East

3 October 2012

Atos has opened its new offices in Qatar. In its growing commitment to the Middle East, Atos has now established its Doha (Qatar) affiliate in order to provide its services locally and take into account cultural and geographical differences. Having operations in the Gulf Cooperation Council (GCC) countries will enable Atos to capitalize on the predicted growth in IT investment in this region over the next few years.

The new offices in Qatar are realized thanks to a partnership between Atos and HBH, which is represented by His Excellency Hamad Bin Ali Al Hanzab. The new offices will enable the Group to bring its global IT services experience and knowledge to this part of the GCC.

The Middle-East is a priority for Atos, as its businesses are key adopters of new technologies and innovative solutions. Atos plans to partner with and invest in local companies and talent to deliver the on-shore elements of solutions and services.

Thierry Breton, Chairman and CEO at Atos said: “We understand the need to develop long-term, deep relationships with our customers. That is what we do globally and what we’ll do in Qatar. Our global presence and expertise will allow Atos to bring its know-how in the in areas such as the Public Sector,

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Energy & Utility, Telecommunication & Media and the sports sector to its customers in Qatar. Atos has an ambitious growth plan and setting up new operations in Qatar is a clear example; our goal is to increase our business in this region achieving profitable growth. We look forward to working with our global and local experts to deliver the high quality services and solutions that will help organizations further accelerate business growth and stay one step ahead of the competition. Atos will deliver what it promises and what its clients in Qatar expect - a measurable, valuable business advantage”.

Atos strategy to set foot in the Middle East started in late 2010 with the establishment of Atos IT SAE in Cairo Egypt, and has other offices in Riyadh (Kingdom of Saudi Arabia), UAE (Abu Dhabi, Dubai), and Qatar.

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Autodesk and CGarchitect Present First Autodesk Excellence in Infrastructure Awards

3 October 2012

[Autodesk, Inc.](#) and [CGarchitect](#), an online magazine and end-user community for visualization and design professionals, have presented the first awards in the new [Autodesk Excellence in Infrastructure Competition](#). The new annual competition presents awards to projects that demonstrate an exemplary use of [Building Information Modeling](#) (BIM) for civil infrastructure. [HYDROCHINA Kunming Engineering Corp.](#) (KHIDI), [Clark County Public Works](#), and [Stantec Consulting](#) are the competition’s inaugural first, second and third place winners for their projects: a hydropower plant in China, complex interstate highway exchange in Washington State, and a large-scale, mixed-use academic center in a former manufacturing zone in New York City.

“Each of the winning projects offers a model for the application of forward-thinking Building Information Modeling workflows and technologies,” said Lisa Campbell, Autodesk vice president of engineering and infrastructure. “We’re especially excited about KHIDI’s first place hydropower station project as it employs a wide range of interoperable technologies, including [Autodesk Infrastructure Modeler](#), a solution that helps project engineers and planning professionals create, evaluate, and communicate visually rich infrastructure proposals for more informed decision-making.”

Managed by CGarchitect, and co-sponsored by Autodesk and [HP](#), the competition’s [jury of industry experts](#) selected the winners from a total of 44 submissions covering a wide range of transportation, land development, urban planning, water/wastewater and energy related projects. Entries were judged based on complexity, innovative use of technology, sustainability factors and the overall value Autodesk software and BIM for Infrastructure provided to the project outcome, whether used to plan, design, build or manage infrastructure projects. The winners will be honored at the upcoming [Autodesk University 2012](#) conference this November in Las Vegas, where HP will be demonstrating their latest technology and awarding first place winner KHIDI an [HP EliteBook 8560w Mobile Workstation](#).

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Kunming, China-based KHIDI was awarded the first place prize for the HD hydropower station project located in southwestern China. In addition to generating much needed power, the station will help with flood control, irrigation, increased water supply, soil and water conservation and tourism. The project includes a concrete gravity dam with a maximum height of 203 meters, with a total capacity of 1.5 billion cubic meters and an installed capacity of 1,900 megawatts. For this massive project covering an area of approximately 20 square kilometers, the KHIDI team used software in the Autodesk [Design and Creation suites](#) to enable BIM workflows for the design of hydraulic structures, design and the composition of metal structures, surveying, hydrological design, construction, clash detection, virtual walkthroughs, 4D simulation and support for planning and design, multi-program comparison and selections, and presentations for stakeholders.

“The application of Autodesk software for BIM has greatly improved our design quality,” said Xuelei Wu, BIM project team member, KHIDI. “Employing BIM workflows has helped us in many ways, including: collaborative design and planning across disciplines, BIM-based estimation of construction volumes, detection of conflicts between design models, multi-schematic conceptual design and application, virtual interactive walkthroughs and better presentation of blueprints, as well as a dramatic enhancement in design quality and efficiency.”

The second place prize was awarded to the Clark County Public Works Department for work on the Salmon Creek Interchange Project, a joint effort between the county and the Washington State Department of Transportation. The goal of the Salmon Creek Interchange Project is to reduce traffic congestion and improve safety by constructing a new interchange over Interstate 5 and Interstate 205, two major freeways in southwest Washington State. Using BIM processes and software contained in the Autodesk Design and Creation suites, the Clark County Public Works Department was able to quickly react and completely redesign county roads on both sides of the interchange when a problem with groundwater caused the project's original design to be abandoned.

The New York City office of Stantec Consulting received the third place prize for their work on the [Columbia University Manhattanville](#) project, a 17-acre, mixed-use academic center in the former Manhattanville manufacturing zone of West Harlem in New York City. The goal of the project is to spur civic, cultural and commercial activity with more than 6.8 million square feet of space for education, research, recreation, and underground parking. The project will also provide improved, pedestrian-friendly streets and new publicly accessible open spaces to reconnect West Harlem to the Hudson River waterfront. An aggressive application of BIM methodologies, enabled by the Autodesk Design and Creation Suites, were employed to coordinate a highly complex and multidiscipline effort involving the coordination and continuous collaboration between models generated by structural, MEP and civil engineering designers.

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Delcam Holds First Asian Technical Summit in Indonesia

4 October 2012

CIMdata PLM Industry Summary

Delcam held its Asian Technical Summit in Indonesia for the first time last month, presenting its latest technical and financial news to customers, academicians and the technical media from the region. This year's meeting, which was again sponsored by HP, was the twelfth in the annual series. Over 120 delegates attended, many from Indonesia but with representatives also at the event from 12 other countries.

The Summit featured presentations on the latest versions of Delcam's range of CAM systems that had been demonstrated at the IMTS exhibition in Chicago during the preceding week. Updates were also included on the other software in the Delcam portfolio, including the company's design and inspection programs, plus the dedicated software for the footwear, orthotics and dental industries.

Guest speakers alongside the Delcam presentations included Debbie Clark, UKTI Director of Trade & Investment for Indonesia, Seiji Niwa, Manager, HP Workstations – Asia Pacific and Japan, Andrew Collins, from autosport engine manufacturer Noonan Race Engineering, and Jordan Thomson, from Oscar-winning special effects company Weta Workshop.

The decision to hold the Summit in Indonesia followed record sales by the Delcam Indonesia subsidiary in the country last year, with a 40% increase in business over the 2010 figures. With this year's sales on track for another record, plans are under way for an increase in staff numbers and, possibly, the opening of a third office to provide even better support to the growing number of customers.

Delcam Indonesia now has more than 200 customers, with over 500 seats of software. These customers include the local subsidiaries of international companies, such as Indonesia Stanley, Mattel Indonesia and Pou Chen Indonesia, major Indonesian manufacturers like Astra Otoparts, which hosted a visit by the international delegates, and many smaller toolmakers and subcontractors. The company also works closely with the educational sector, including Atma Jaya Yogyakarta University which gave a presentation on its engineering courses based on Delcam software.

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Delcam Forms Joint Venture in Denmark

4 October 2012

Delcam has established a new Joint Venture company in Denmark, Delcam Danmark, in partnership with local CAD/CAM specialist Søren Friis, who will be the Director of the new company. Delcam has been active for many years in Denmark through resellers and has a number of large international companies as customers, including LEGO, ECCO, Siemens Wind Power, Vestas and Danfoss, as well as many smaller subcontract manufacturers and toolmakers.

Delcam Denmark will support Delcam's complete range of software products. However, at the start, the main focus will be on the range of CAM software, in particular PowerMILL for high-speed and five-axis machining, the FeatureCAM feature-based system, and the Delcam for SolidWorks integrated

CIMdata PLM Industry Summary

machining software. In addition, Delcam Denmark will also offer consultancy services to help companies to optimise their machining processes.

The formation of the new company is a commitment by Delcam to invest further in the market, to support existing customers more effectively and to increase its sales in the country. The new company will be based in the Arena Syd premises in Vamdrup near Kolding. Being based on this site will give Delcam Danmark the facilities to provide training and seminar events.

Søren Friis has many years of experience in CAD/CAM sales and support, having previously worked for CAD/CAM suppliers in the Aarhus area. With his background in support, he is well aware of the importance of experienced, local assistance for customers in Denmark.

"Danish industry needs to be close to its suppliers and support is the area where I believe Delcam Danmark will be able to show a real difference," claimed Mr. Friis.

The ability of the new company to provide the highest quality of support was repeated by Delcam's Commercial Director, Bart Simpson, who added "Our investment in Denmark is ideally timed given the recent reduction in support resources in the country by a number of our competitors."

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Gerber Technology Establishes Yunique Solutions Business Unit

1 October 2012

Gerber Technology has established the Yunique Solutions business unit to underscore its commitment to deliver integrated software solutions for product design, development and sourcing for the retail, footwear, apparel and accessories industries. Central to the Yunique Solutions business are [YuniquePLM](#)TM product lifecycle management, [webPDM](#)TM product data management and [AccuMark](#)[®] pattern design, grading and marker making software systems.

"Our software solutions are centered on helping fashion-oriented companies improve product quality, cost, timeliness and predictability of product development and delivery," said Donny Askin, general manager of the Yunique Solutions business. "But, above all else, our customers rely on us for our unparalleled industry and process expertise. With more than three decades of experience, we can offer them best practices gathered by collaborating with many of the world's most recognized and successful brands."

For 25 years, Gerber has helped tens of thousands of companies, educational institutions and government organizations around the world design and grade patterns more efficiently and create optimized markers with the AccuMark software system.

Gerber's YuniquePLM software enables retailers to bridge the creative process and the product delivery process to ensure the right products are on store shelves at the right time and for the right cost. With

CIMdata PLM Industry Summary

AccuMark and YuniquePLM working in tandem, users can import data on material yields and points of measure from the AccuMark system and use them to generate costing and product tech packs in YuniquePLM. This information exchange eliminates redundant work and minimizes errors that often occur between the creative and development teams.

“When we develop the roadmap for our software products, we focus on what fashion companies need to be successful,” added Askin. “That’s why we can offer the best time to value – the shortest time between purchasing our product and using it effectively. It’s why we ensure our customers can easily integrate YuniquePLM with existing enterprise-wide systems, why we strive to maintain the easiest-to-use interface and why we’ve integrated our YuniquePLM system with other leading design tools like Adobe® Illustrator® graphic design software and the PANTONE® library and color matching system.”

Gerber Technology will showcase the latest advancements in its software offerings during [ideation 2012](#), the company’s annual software conference taking place Oct. 22-23 at the Montelucia Resort & Spa in Scottsdale, Ariz. Marshal Cohen, a well-known expert on consumer behavior, will deliver the keynote speech. In addition to panel discussions, hands-on workshops and product demonstrations, several leading retailers will offer insight into how they use Gerber’s software solutions to bridge their product design and development processes with their sourcing, product delivery and profit generation strategies.

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GRAITEC UK Continues to Expand: New Office and Training Facility Opens

4 October 2012

GRAITEC is pleased to announce the opening of a new office and dedicated training suite in Burton-Upon-Trent, Staffordshire, UK. The additional office will complement GRAITEC's existing headquarters in the South of England, offering design and analysis software for the construction industry.

The construction industry is a highly competitive sector and it is obvious that businesses in the UK are not just looking to survive but thrive. GRAITEC UK is committed to delivering technology designed to help improve its customer's productivity and efficiency.

Making GRAITEC's technology and quality services more accessible, to more businesses, gives them the confidence and support they need to invest in our technology and get ahead of the game.

Carl Spalding, UK Managing Director comments: "This is a very exciting time for GRAITEC UK and our expansion is as a result of our continued growth both in the UK and globally. In addition to the incumbent strength of our Analysis and Design technology, SuperSTRESS, our best seller is our 3D BIM software for steel engineering and detailing, Advance Steel. It is through the demand and success of our Advance Steel software that has enabled us to expand at such a rapid pace and our new office,

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strategically located in Staffordshire, will provide easy access from all the major road networks and airports."

To help support and further develop the fast rate of growth we are experiencing in the UK market, GRAITEC UK has also contracted the consultancy services of Wayne Rawson through his company - Wayne Rawson Consulting Ltd. Wayne has been in the steelwork industry for over 30 years and has worked at senior level with several large industry-specific software providers. His knowledge of the steelwork industry and steel detailing software solutions in particular is proving a great addition to Graitec team. He has already been instrumental in helping numerous companies with advice and business planning through to software deployment when they are considering an upgrade of their existing CAD software to Advance Steel as their preferred steel detailing software solution.

"Having worked with suppliers of steel detailing solutions over a good number of years, I understand both the capabilities available within the CAD products in the market and what detailers really need from a steel detailing solution. Advance Steel is an excellent 3D multi-material modelling system that offers a very serious alternative for companies using older software systems that are looking for a highly competent and flexible software solution with increased capabilities, backed by a very successful organization growing at an incredible rate"

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NGC Software Makes Fashion Selling Easier Than Ever Through Integration with Threadvine

2 October 2012

[NGC Software](#)™ today announced that it is extending the power of its PLM and ERP software to fashion sales representatives, through a strategic relationship with Threadvine Apparel & Footwear Solutions. Threadvine is a provider of sales tools that help apparel, footwear and accessories brands increase sales by engaging more effectively with their buyers, online and with mobile devices.

As a result of the integration between NGC Software and Threadvine, NGC customers can provide access to NGC's PLM and ERP solutions for their sales teams. Fashion sales reps can instantly get the product information they need from NGC's [PLM system](#) – including digital assets, color swatches, size ranges, and product descriptions. In a matter of minutes, they can then create beautiful catalogs, visual emails, look books and line sheets with the Threadvine sales tool, and access the information from any location using iPads or smartphones.

Sales reps can also view real-time inventory and delivery information and place orders directly from their iPad or other mobile device, thanks to integration with [NGC's fashion ERP system](#). The integration between Threadvine and NGC's software provides a convenient, easy-to-use solution that changes the way that brands interact with their buyers.

"Through the integration with Threadvine, NGC is helping to revolutionize fashion selling by bringing the power of our PLM and ERP systems to fashion sales representatives," said Mark Burstein, president of sales, marketing and R&D, NGC Software. "Our customers are excited that their sales teams can now

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take advantage of all the rich information in NGC's solutions, and they love the simplicity of the Threadvine sales tool."

"Threadvine is proud to be working with NGC Software," said Ross West, president of Threadvine. "NGC's customers represent a true 'who's who' of the fashion industry, and we're delighted to have the opportunity to introduce the Threadvine solution to NGC's customer base."

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Tata Technologies Displays eMO EV at CIMdata PLM Road Map™, Releases Paper: 'PLM Transformation: Program Management Framework' Showcasing Work with Jaguar Land Rover

3 October 2012

[Tata Technologies](#) displayed its electric MObility (eMO) engineering study EV at the CIMdata PLM Road Map™ 2012 event Oct. 2-3, in Plymouth, Mich. eMO made its world debut at the North American International Auto Show (NAIAS), in Detroit, in January 2012. Tata Technologies also will release six PLM-focused whitepapers at the event including "PLM Transformation: The Program Management Framework," showcasing the PLM transformation initiatives at Jaguar Land Rover supported by Tata Technologies, and it will demonstrate the innovative application of PLM software solutions that supported the creation of eMO.

"The eMO project symbolizes the coming of age of Indian automotive engineering," Warren Harris, Tata Technologies President and COO said at its NAIAS debut. "It is a tangible example of the capability of Tata Technologies to engineer a full vehicle – a first for any India-based engineering services company."

The eMO architecture emphasizes "right size" personal urban transportation by minimizing its exterior footprint and maximizing interior space. With sustainability in mind, eMO benefits from a low carbon footprint and a recyclability strategy. The business case underpinning the eMO project sets the MSRP at the disruptive price point of \$20,000, before tax incentives or rebates.

JLR Keynote: PLM Transformation with Tata Technologies

John Knight-Gregson, i-PLM Program Lead at Jaguar Land Rover (JLR), made a keynote presentation at PLM Road Map™ 2012 titled "PLM Transformation: Setting Up the Program Framework" that highlighted JLR's PLM transformation story, which has been supported by Tata Technologies.

Tata Technologies will release a whitepaper also titled "PLM Transformation: Setting Up the Program Framework," authored by Lionel Grealou, Tata Technologies Head of Business Transformation and iPLM Program Lead at JLR, that will offer an in-depth look at the framework that enabled this successful transformation.

Five additional Tata Technologies whitepapers also will be released at CIMdata PLM Road Map 2012:

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1. Effective Complex Enterprise PLM Migrations
2. Frugal PLM
3. Digital Plant Engineering: Reduce Costs, Time to Market
4. Optimizing Support Costs in a PLM Environment
5. Improving Skills, Knowledge Capture – a Modern Imperative

“The ground breaking eMO study was completed quickly and accurately in large part because the development team utilized leading edge PLM solutions,” according to Kevin Power, Tata Technologies Dassault Systemés Business Development Manager, and a member of the eMO project. Those solutions also will be demonstrated throughout the event within the eMO exhibit. To download a copy of “PLM Transformation: Setting Up the Program Framework,” [click here](#).

PLM Road Map 2012 is a two-day event that will challenge attendees to shift their current thinking to a new level in a series of presentations focusing on the global transformation of product development and innovation processes. PLM Road Map 2012 is the leading international event that helps companies leverage cross-disciplinary and cross-industry knowledge and feedback to smooth and speed their PLM journeys.

For more information, [click here](#).

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U.S. CAD Earns Product Support Specialization

2 October 2012

U.S. CAD, a Building Information Modeling (BIM) integrator and provider of Autodesk 2D and 3D CAD products and services, today announced that it has earned the Autodesk Product Support Specialization for value added resellers (VARs) from Autodesk, Inc. As an Autodesk Specialized Partner, U.S. CAD has shown that they have made significant investments in personnel, have a solid business plan specific to product support specialization, have customer references, and demonstrate that they offer a high level of knowledge and support to their customers.

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

“We are excited to have earned the product support specialization because this communicates the strength of our existing support network to our customers and reinforces our desire and ability to meet our customers technical support needs,” said Daniel Counts, CEO of U.S. CAD. “This specialization is

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an acknowledgement of the investment we have made in technical personnel and their industry experience to support the needs of our customers.”

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Events News

Applied Software Takes Off Into the Autodesk Cloud at Autodesk University 2012

3 October 2012

Applied Software has announced that three of its BIM experts will be lecturing at Autodesk University 2012 to help Autodesk Revit software users learn new ways to leverage the solution to improve productivity. The conference will be held at the Mandalay Bay Hotel in Las Vegas, November 27-29, 2012.

Autodesk University is where design professionals from around the world attend classes, keynotes, product demonstrations, exhibits and networking events. Attendees can share ideas, work together to solve problems, and form professional relationships that they might not otherwise have. Attendees also get year-round access to over 650 online classes on the Autodesk University website.

Applied Software will present multidisciplinary lectures targeted at architects, engineers (structural, civil, mechanical, electrical and plumbing) and other design professionals who are using Autodesk Revit solutions. In addition, members of the Autodesk Revit Structure software development team, led by Brian Johnson, P.E., Autodesk’s technical specialist for Structural Engineering Solutions, will be present at Applied Software’s roundtable discussion on using Autodesk Revit Structure for cloud analysis.

Presenters from Applied Software and their topics include:

- Michael Massey & Rabi Sidawi: “Who Owns That? Best Practices for Coordinating All Disciplines”
- Michael Massey: “Schedules: Beyond the Basics”
- Michael Zeeveld & Rabi Sidawi: “Autodesk 360 Structural Analysis for Autodesk Revit”
- Michael Zeeveld: “Autodesk Revit Architecture 2013: New Features”
- Michael Zeeveld & Rabi Sidawi: “Autodesk Revit Structure: Cloud Analysis” (roundtable)

“Lecturing at Autodesk University is always a pleasure and one of the highlights of our year,” said Steve Foran, VP of operations at Applied Software. “Through the years, our classes have proven to be very popular with all levels of Autodesk Revit users, from beginners to advanced practitioners. We strive to develop lectures comprised of practical insights and tips that participants can take back to their offices and immediately implement to increase their productivity with Autodesk solutions. We’re especially excited that the Autodesk Revit Structure development team will be attending our roundtable to talk with customers and hear their suggestions for product enhancements.”

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For more information about the Autodesk University 2012 conference and exhibition, please visit http://au.autodesk.com/?nd=au_las_vegas_2012.

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Aras Announces Aras Community Event 2012 Northern Europe

4 October 2012

Aras® today announced the Aras Community Event (ACE) 2012 Northern Europe. ACE 2012 Northern Europe takes place October 23 & 24 in Copenhagen, Denmark. Aras President Peter Schroer will present the Aras PLM Difference live in Copenhagen. Attendees will also have the opportunity to experience global user success stories from various industries and collaborate with Aras Community Members on PLM strategies. All are welcome to attend.

Event Details & Registration

<http://aras.com/plm/001580>

Organized by Aras Gold Certified Partner, Minerva, ACE 2012 Northern Europe provides an excellent opportunity to discover the benefits of enterprise open source PLM, see the advanced capabilities of the Aras enterprise solution suite, learn about global successes, network with colleagues and more. Whether you are in the process of learning about Aras or are a long time user, you'll gain expert insight and information necessary to achieve success and take your company's PLM strategy to the next level with Aras at ACE 2012 Northern Europe.

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AVEVA to Present at AIChE 2012

1 October 2012

AVEVA today announced that it will present a paper in the upcoming American Institute of Chemical Engineers (AIChE) conference October 28 - November 2 2012. Philip Simon, of the Business Consulting team at AVEVA, will discuss the topic: 'A Pragmatic Approach to Creating a Digital Information Hub for Plant Asset Information'.

'Amidst all the latest information management technologies, a fundamental challenge has also emerged, ironically fueled by information technology itself,' Paul Halpin, Senior Vice President - Business Consulting, AVEVA. 'It is a tug-of-war between best of breed applications vying to be the central source of information. However, information will continue to be created in numerous, disparate sources. There is no simple way to get them all together in a single system. The process required to create a data standard and ensure that information complies with it is a serious challenge.'

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'In this presentation, we will compare and contrast the best way to adopt a centralized source of information against other current approaches. In addition, we will discuss the key ingredients of an information hub, such as compliance and standards, that can deliver value from the start.'

AVEVA Global Business Consulting applies AVEVA's considerable technology expertise in advising clients on a wide range of issues where business performance relates to the use of digital information.

The [AVEVA Digital Information Hub](#) (DIH) concept puts information at the centre of business operations. By integrating, controlling and exploiting all types of information - not only engineering data - throughout the entire asset lifecycle, the DIH unlocks the value of your digital assets.

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BETA CAE Systems S.A. Announces the 2012 ANSA & μETA German Open Meeting

1 October 2012

BETA CAE Systems S.A. has the pleasure to announce the 2012 ANSA & μETA German Open Meeting in Germany, hosted by LASSO Ingenieurgesellschaft mbH. The event will take place on October 31st, 2012 at the Auditorium of BusinessPark Echterdingen, Leinfelden-Echterdingen, Germany.

This open event aims to introduce the latest developments in the products of BETA CAE Systems, ANSA & μETA Pre- and Post-Processing suite, and SPDRM. The rich agenda showcases their products' applications in various CAE disciplines and gives to the participants the opportunity to discuss in person with their engineers.

There is no participation fee for this event. However, for the better organization of the event, they would appreciate if you register no later than October 19th, 2012. An informal email message to ansa@lasso.de would be sufficient.

The language of the event will be German and English.

Agenda Highlights

Guest Speakers

Ulrich Fox, Ford-Werke GmbH

Ivo Grác, Evektor s.r.o.

Reinhard Wersching, AUDI AG, on "Mapping and pressure distributions of displacements using ANSA and μETA".

Featured Presentations

What's New ANSA v13.3

What's New μETA v6.9

Latest Developments on ANSA & μETA for CFD

Post-Processing Customisation with μETA Toolbars and Sessions

Automotive Simulation Process Scenario Mastered by SPDRM

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Cimatron Grows Stronger in Turkey

3 October 2012

Cimatron Limited is continuing its promotion of the integrated CimatronE CAD/CAM solution among Turkish tool shops and manufacturers with a display at the Maktek Eurasia trade show in Istanbul, October 2-7, 2012.

“Turkey hosts one of Europe’s fastest growing manufacturing sectors, and we are proud to see an impressive growth in the demand for our CimatronE solution in this incredible market,” said Mr Ira Bareket, Cimatron’s VP Sales and Marketing.

“Hundreds of Turkish toolmakers have already found CimatronE critical to their ability to gain a competitive edge and deliver high quality tools much faster. We’ve just added over a dozen new customers in Turkey in a space of only one month, and Maktek will likely present us with opportunities for further growth.

“One of the highlights of the CimatronE display at Maktek will be the opportunity for delegates to preview the key capabilities to be featured in our forthcoming software release – CimatronE 11. Containing an impressive range of enhancements and new functionalities, CimatronE 11 offers customers an unprecedented level of speed, efficiency and quality in the production of molds, dies and discrete parts.”

CimatronE offers a fully integrated CAD/CAM experience, covering all aspects of the design and manufacturing process:

For mold shops, CimatronE provides: reliable data import and quoting; parting; mold base creation; core, cavity and slider design; lifter and insert placement; ejection and cooling system creation; runner design; motion analysis and collision detection; and drafting. Among CimatronE 11’s mold making capabilities to be previewed at Maktek is the enhanced Assembly Mirror application, offering dramatic time savings with the ability to mirror entire assemblies while maintaining their structure.

For die shops, CimatronE features advanced functionality for: blank design and forming; die strip layout; tool design (die sets, punches, catalog parts); and motion analysis and collision detection. Maktek will showcase the new Springback Analysis, an analysis tool for dies that estimates the

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springback effect after forming operations, reducing the need for costly trial and error on the shop floor.

CimatronE's NC programming capabilities include: CAD for NC functionality; efficient roughing; high quality finishing; 2.5–5-axis milling; plate machining and drilling; advanced micro-milling; simulation and post-processor support; and NC setup and tool table reports; and error-free electrode burning and manufacturing. One of the outstanding NC programming features in CimatronE 11 is the VoluMill strategy for ultra-high volume material removal in both 2.5-Axis and 3-Axis Rough.

The CimatronE display at Maktek is hosted by reseller Tekyaz at booth #403.

For further information on CimatronE, visit www.cimatrone.com.

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Delcam Reseller CCSI adds FeatureCAM Sessions to Annual Update Day

5 October 2012

CADCAM Systems Inc, Delcam's reseller for Illinois and Iowa, will hold its next annual customer update seminar at Ingersoll Cutting Tools in Rockford on October 11th. For the first time, this free event will cover what's new in the latest version of Delcam's FeatureCAM feature-based CAM system as well as the developments in the PowerMILL CAM system for high-speed and five-axis machining, and the PowerSHAPE CAD software.

Andy Bergstrom, President of CCSI said, "In the last few years, we have grown the number of our customers using FeatureCAM to the size where we need to offer specific sessions for them. The format will follow the successful pattern we have developed for our PowerMILL customers, with the emphasis on how they can use the new features in the software to improve their processes and so become more efficient and more profitable."

"Once again, we're really excited that Craig Chester, International Support Manager from Delcam's headquarters in the UK is taking time out of his busy schedule to join us to present material on PowerMILL 2013. Craig will complete 25 years at Delcam this year, during which time he's made a reputation for himself as the guy who really, really knows PowerMILL. By attending this update seminar, our users will be able to use Craig's experience and knowledge to maximize the returns on their software investment."

For more information on how to attend CCSI's seminar please contact Jeanne Bergstrom at 815-399-4433 or email sales@cadcamsystemsinc.com

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GibbsCAM 2012+ on Show at BI-MU, Italy

27 September 2012

Gibbs and Associates, developer of GibbsCAM® software for programming CNC machine tools and a Cimatron company, has announced that it will be demonstrating its new GibbsCAM 2012+ version at the BI-MU trade show to be held in Milan, Italy, from October 2-6, 2012.

“The outstanding new and enhanced features in GibbsCAM 2012+ afford customers the ability to achieve the highest speed, accuracy, efficiency and reliability in programming even the most complex parts, using most sophisticated multi-axis machines,” said Mr Gianluca Renzi, CEO of Microsystem, Cimatron Group’s Italian subsidiary.

“Powering everything from simple lathe and milling machines to the most advanced multi-turret, multi-spindle machines, our goal is to maximize the investments made by our customers in their machine tools. GibbsCAM offers unparalleled programming and synchronization capabilities and unmatched post processors to maximize the utilization and output of the latest machine tools available today.

“GibbsCAM also offers an easy to learn and use interface that walks our customers through the programming, no-matter how complex the job or machine.”

Highlights of GibbsCAM 2012+ include:

- Multi-axis rendering for increased speed and display accuracy for rotary milling.
- Part rendering speed increases up to 33 times faster.
- Helical toolpath capability for radial milling, producing shorter programs and faster machine cycle time.
- New machining strategies for parts with open-sided pockets, extremely thin walls, shallow-cut areas, and material-only area clean-out.

The Microsystem display at BI-MU will be at booth Pav.11, Stand F50.

For more information on GibbsCAM 2012+, visit www.GibbsCAM.com.

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GibbsCAM to be Demonstrated at Haas Demo Days

3 October 2012

Cimatron limited has announced that [GibbsCAM](#)®, its software for programming CNC machine tools, will be demonstrated as part of Haas Automation's annual Demo Days, to be held at numerous Haas Factory Outlets (HFOs), in the U.S. and Canada, on October 10th.

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During this year's Demo Days, Haas features its ST and DS series of multi-task machines with Y axis and dual spindles, which are available in standard and super-speed configurations. There will be live demonstrations on the Haas machines, plus educational seminars on the latest trends for increasing efficiency in discrete-part manufacturing.

Gibbs will be demonstrating its GibbsCAM MTM Option which helps customers fully utilize the capabilities of complex MTM machines, including the Haas ST and DS series machines. GibbsCAM combines ease use with powerful programming capabilities to help customers program parts quickly, accurately and efficiently. GibbsCAM also provides the efficiency of a single interface for turning, milling and non-cutting motion, and further simplifies programming of MTMs with its Synch Manager, a highly efficient, graphical utility that synchronizes tool groups, optimizes toolpath, and alerts users to inefficient or conflicting operations.

GibbsCAM MTM post processors, like all GibbsCAM posts processors, are customized to provide error-free operation for specific machine-control combinations, maximizing productivity and efficiency.

GibbsCAM MTM is integrated with GibbsCAM Machine Simulation for complete toolpath verification and simulation to identify and correct tool interference and gouges before the part gets to the shop floor, preventing costly mistakes.

"As the momentum continues from one of our most successful IMTS shows to date, Gibbs is excited to participate at Haas demo Days once again," said Robb Weinstein, Senior Vice President of Sales and Strategic Planning of Gibbs and Associates. "We will demonstrate how a combination of GibbsCAM and Haas machines provides an ideal solution for customers who need to increase output, productivity and profits with single-setup mill-turn machining. In addition, we will highlight GibbsCAM's VoluMill HSM option, which fully supports all Haas mills."

Among the various HFOs featuring GibbsCAM are the following:

- Auburn, WA | Selway Machine Tool
- Austin, TX | HFO
- Broken Arrow, OK | Timco Machine Tools
- Colfax, NC | HFO Jeffreys Manufacturing Solutions
- Elk Grove Village, IL | HFO
- Flowery Branch, GA | HFO Jeffreys Manufacturing Solutions
- Franklin, TN | HFO Jeffreys Manufacturing Solutions
- Hanover, MD | HFO Jeffreys Manufacturing Solutions
- Indianapolis, IN | HFO Midwest Technical Center
- Little Rock, AR | HFO Jeffreys Manufacturing Solutions
- Meridian, ID | King Machine
- Phoenix, AZ | HFO

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- Spring, TX | Champion Machine Tool
- Tempe, AZ | Ellison Technologies
- Torrance, CA | HFO Trident Machine
- Windsor, CT | HFO Trident Machine Tool

"In support of Haas Automation, we are presenting our complete solution for Haas CNC machines, with a special focus on the Haas ST and DS series multi-task turning centers," continued Mr. Weinstein. "We are happy to report that we have GibbsCAM post processors and machine simulation models for these new Haas MTM machines in addition to the many other Haas machines fully supported by GibbsCAM. In fact, we already have many Haas customers successfully programming these machines with GibbsCAM for optimal productivity."

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Hawk Ridge Systems Showcases SolidWorks 3D Design at SolidWorks 2013 Launch Events

3 October 2012

Hawk Ridge Systems is showcasing the new enhancements in SolidWorks 2013 at the Hawk Ridge Systems SolidWorks 2013 Launch in 17 locations in October and November, 2012.

The [SolidWorks 2013](#) Launch includes the SolidWorks 2013 Overview, live demonstrations, lunch & beer/beverages, prizes, and a drawing for an iPad. Find a location near you, [Hawk Ridge Systems SolidWorks 2013 Launch Event Schedule](#).

Southern California locations include Anaheim, Los Angeles, Ontario, Camarillo, Pismo Beach and Santa Barbara. Northern California locations include San Jose, Palo Alto, Pleasanton, and Rohnert Park. Other locations include Las Vegas and Reno in Nevada, Portland, Oregon and Bellevue (Seattle) in Washington.

As Gabe Rapisardo, Vice President of Sales says, "This 21st release of SolidWorks brings true innovation and productivity to our SolidWorks users. The new additions to core geometry creation and expanded product offerings including SolidWorks Electrical, SolidWorks Plastics, and CAMWorks are a must-see. Initial feedback on the enhancements from the SolidWorks 2013 beta testing has been extremely positive."

The Hawk Ridge Systems Launch features "[What's New in SolidWorks 2013](#)." Not only will the Hawk Ridge Systems product managers and Certified SolidWorks Experts be discussing the new tools in SolidWorks 2013, but they will demonstrate applications for simulation and analysis, product data management and technical documentation, including 3DVIA Composer. Hawk Ridge Systems has also recently announced the addition of CAMWorks, the first SolidWorks Certified Gold Product Partner, to its solutions portfolio for CAM. Hawk Ridge Systems will conduct live interactive demos

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of [SolidWorks Electrical](#), [SolidWorks Plastics](#) and [HawkWare™](#), a suite of new productivity tools for Enterprise PDM.

New features in SolidWorks 2013 include:

- Powerful Design Tools – Costing, Sustainability, Flow Simulation
- Faster Model Creation – Conics in Sketcher, Intersect Feature, Varying Dimension Patterns, Section View Assist
- Improved Performance – CAD Administrator Dashboard, Simulation Sub-Modeling and Incremental Meshing, Network Rendering for PhotoView 360
- Enhanced Collaboration – Previous Release Interoperability, Enterprise PDM Workflow, DraftSight Integration, eDrawings

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Nemetschek Vectorworks to Host BIM Camps in New York and San Francisco

3 October 2012

Nemetschek Vectorworks, Inc. will host a series of BIM Camps this November to help architects and designers learn the skills they need to adopt Building Information Modeling (BIM) workflows. Sessions offer attendees the opportunity to earn four continuing education units, and are scheduled for New York City and San Francisco, with more on the way.

“There is no question that open standards-based BIM is the way the world is moving,” says Deke Smith, FAIA, Executive Director of the Building Seismic Safety Council and buildingSMART allianceTM. “Getting a good understanding of how to use IFC-based BIM [Industry Foundation Class – ISO 16739] will give designers a leg up on the competition.”

BIM Camp attendees will learn the skills they need to successfully implement BIM workflows into their practices, better understand how IFC-based standards benefit design teams, create sustainable and high-performing designs and collaborate through Open BIM. Attendees also receive a BIM Survival Kit, loaded with presentation materials and other resources.

The concepts taught at both locations will be identical and include:

- Equip Yourself – What is BIM?
- Where am I on the BIM Path?
- Big BIM: Description and Case Study
- Small Green BIM
- Legal Issues in BIM

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- Site Planning Workflows with BIM
- Plugging Structural Analysis and Design into the BIM Workflow

The following organizations are sponsoring or participating in the BIM Camps: buildingSMART alliance; buildingSMART alliance Interest Group NYC; François Lévy Architect; Novedge; Nemetschek Scia; Severson & Werson, A Professional Corporation; and Zetlin & De Chiara LLP.

The first BIM Camp takes place on Thursday, November 1, in New York City, from 4:00 to 8:00 p.m., and a second session will be offered in San Francisco on Friday, November 9, from 10 a.m. to 2:00 p.m. Times listed are local times, and additional networking events are planned around each BIM Camp.

The cost to attend a BIM Camp is \$25 per person for AIA members, Vectorworks Service Select members and students. The fee for non-members/non-students is \$40 per person. Registrants can save 10 percent by signing up before October 12, 2012.

Visit <http://www.vectorworks.net/eastBIMcamp> or <http://www.vectorworks.net/westBIMcamp> to learn more or to register for the BIM Camp in New York or San Francisco, respectively. Registration fees will fund the Vectorworks Young Architects Student Scholarship Program (<http://www.vectorworks.net/scholarship/>) to be awarded later this year.

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Plural Technology to Attend FICCI's TAG 2012

3 October 2012

Plural Technology Pvt. Ltd. is pleased to announce that the company is participating as a silver partner in the FICCI's Conference "TAG 2012" to be held on 10th Oct, 2012 at Hotel Intercontinental the Lalit, Mumbai.

The conference present a unique chance for Plural to present the PLM (Product Lifecycle Management) benefits for Textile & Apparel industry. In addition, Plural's COO, SuryaKumar Shivasagaran will hold a presentation on "Innovation in Products & Technology."

Highlights of the Conference:

- Discussion on 'Innovation in Products & Technology', 'New strategies for Sourcing', 'Building a more efficient Supply Chain' etc...
- Industry Experts to explore market share opportunities in the Textile & Apparel Industry
- Insights on the current sector scenario & emerging changes from Industry Leaders
- Network with Industry Top level Executives & Consultants

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FICCI's Conference "TAG 2012" will focus on the Trends in Fiber Demand, Consumption & Availability, and Innovation in Products & Technology, and New Strategy for Sourcing, Building a more efficient Supply Chain & Improving India's Share in International Trade & Leveraging Domestic Business. The Conference will witness a gathering of eminent Industrialists, learned professionals, & technicians share their deep insight & wealth of knowledge with the participants covering a wide range of current & relevant topics.

Plural Technology Private Limited is a software products and services firm which offers open source PLM solutions for Apparel, Textile, Footwear, Hard Goods and Retail Industry. Plural's Apparel Innovator is the best choice for Apparel Manufacturing and Retailing organizations looking at integrating their Product Development process into other Business Processes like Manufacturing and Sales effectively.

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Significant CAD/CAM Developments in VISI 20 at Euromold 2012

4 October 2012

European toolmakers will get their first sighting of the significant CAD/CAM developments in the market-leading VISI 20 mould and die focused software, at Euromold 2012.

VISI 20 from Vero Software – a provider of CAD/CAM/CAE solutions for the tooling industry – is a release with many new features in all areas of the product, providing further solutions for mould, tool and die makers.

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

The wide range of significant CAD enhancements, which can be seen on Stand E90, Halle 8, in a joint showing from Vero Software and their German reseller Mecadat GmbH, introduce a new 'collaboration mode' allowing multiple users to work on the same project dataset. Other improvements include the ability to assign constraints to geometrical bodies (Concentric, Parallel, Coincident, Distance, etc) providing the tools to simulate the real movement of tooling and check for collisions. In addition, CAD translators have been updated to include support for Solid Works and Solid Edge assemblies, and support for PTC Creo and JTOpen B-rep entities.

VISI 20 represents another release with significant CAM developments. One innovation is the ability to distribute the toolpath computation onto different machines connected to the same private network. This technology uses 'Distributed computing', where the computers interact with each other to achieve a

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

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

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

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

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

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

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

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

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Implementation Investments

Agilent Technologies 3-D EM Simulation Software Selected by STMicroelectronics for ESD Development in 40-nm IC Products

2 October 2012

Agilent Technologies Inc. has announced that STMicroelectronics, a global semiconductor serving customers across the spectrum of electronics applications, has selected Agilent's [Electromagnetic Professional \(EMPro\) software](#) for use in development of ESD structures based on advanced CMOS process technology.

As process geometries shrink to 40 nm and beyond, energy dissipation capacity from ESD (electrostatic discharge) protection devices is becoming more of a design challenge. ESD designs are process-technology-dependent, and lengthy simulations are typically required to systematically assess key ESD issues.

Therefore, accelerating the design flow is becoming critical for IC development and availability.

With its ability to perform fast EM simulations in the time domain, EMPro's Finite Difference Time Domain (FDTD) EM simulator is well suited to monitor the high electrical fields generated by the electric discharge within innovative ESD structures. Running the FDTD simulation on graphical processing unit (GPU) cards accelerates simulation speeds by an order of around 10x.

"Because our customers require more speed and accuracy to tackle their coupled ESD and electromagnetic compatibility challenges, it is critical for us to elaborate and assess solutions that are optimized, reliable and developed in record time to enable their first-run silicon success," said Philippe Galy, expert ESD/Latch-Up teams manager, STMicroelectronics. "Meeting these needs is a major initiative for ST, and our collaboration with Agilent has led to successful achievements with solutions and tools that satisfy these objectives."

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"We are delighted by STMicroelectronics' decision to adopt the EMPro platform for electromagnetic modeling and simulation of its ESD structures," said Todd Cutler, general manager of Agilent EEsof EDA. "We are continually working to advance the platform's usability and speed through introduction of new capabilities and innovations like the recent GPU acceleration enhancement to the FDTD simulator. It is gratifying to see a company like ST benefiting from the improved speed of the EMPro platform."

Agilent will demonstrate EMPro at European Microwave Week (Booth 114), Oct. 29-Nov. 1, RAI, Amsterdam. The company will also show the newest microwave, millimeter-wave, wireless, radar, and antenna test and measurement solutions for the telecommunications, transportation and medical markets. Such industry-leading solutions enable R&D, design and manufacturing engineers to develop and deliver innovative products.

As a nine-year, platinum sponsor of European Microwave Week, Agilent will also host a comprehensive series of workshops and technical programs.

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Delcam Offers Weta Workshop Software for Fantastic Projects

1 October 2012

Many users of Delcam software claim to be able to produce anything that their customers' need. However, very few face customers with projects as imaginative, or as demanding, as design and effects company, Weta Workshop.

Weta Workshop is a five times Oscar-winning company that operates out of Wellington, New Zealand. Best known for its work on the Lord of the Rings trilogy, King Kong, The Chronicles of Narnia, District 9 and Avatar, Weta Workshop also encompasses a diverse array of other commercial enterprises, including publishing, merchandising, high-end collectibles and fine-art bronzes.

To stay ahead of the commercial challenges of the world's creative industries, Weta Workshop has found necessity and desire to shift from a purely handcraft company to one that utilises all available digital technology – primarily laser cutting, plasma cutting, 3D modelling and printing, and CNC milling.

Jordan Thomson has pioneered this division at Weta Workshop and his unique take on the technical design and engineering of the equipment that the team uses has offered the technicians at Weta an extensive suite of tools available for production output.

The 3D Department, lead by Mary Pike, includes thirteen digital artists all working with Delcam software, including the artistic CAD/CAM software, ArtCAM, and the PowerMILL CAM system for high-speed and five-axis machining, to service an extensive number of varying jobs per week. Ms. Pike

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notes, "Deadlines are our primary challenge. The technical know-how and capability of the team is never in question but of course the wild card is always time. This demands a fluid and unfaltering interplay between the digital artist at the computer, the capability of the toolpathing software to realise these complex models, and then the complete reliability of the machines that we have purchased and built here under Jordan's guidance."

Richard Taylor, co-owner and founder of Weta Workshop, comments "initially we went down the track of purchasing commercially available equipment to complement the reliability of the Delcam software that the local reseller, Camplex, had provided for us. It became quickly evident that Jordan had the ability to engineer pragmatic solutions for our every need. He has significantly adapted, and in a number of cases 'built from scratch', the equipment we need to do our jobs."

Mr. Thomson acknowledges that "irrelevant of the hardware solutions, it is the fantastic reliability and ease with which the Delcam software interfaces with our machinery that makes this such a seamless process. I get asked daily to facilitate some wonderful and whacky jobs on one of the six machines that we run. It can be like an acrobat juggling plates while balancing on a ball, as you have so many tasks bouncing between all the different machines utilising the appropriate software to output what is required. From a 1mm button to a sculpture as large as a house, it is utter adaptability of equipment and flexibility of software which means I can guarantee delivery for Richard and our clients."

Weta Workshop is now in its 7th year using Delcam software and is focussed on building its CNC department further as the company appreciates fully that this is one of the solutions in staying competitive and dynamic in a commercial environment. Mr. Thomson says "I have recently acquired a seven-axis car-assembly robot to offer further flexibility for large-scale sculpture pieces. This allows us to mill down into an ear or up a nostril at exacting detail and fineness. It takes a mighty piece of software to implement this level of command but the technology should be invisible to the artists. What I know going forward is that the collaboration between Delcam and Weta Workshop will give certainty to the creative artists that whatever they can dream up can be made".

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DeltaValve Links Infor ERP and PLM for Unified Global Operations

4 October 2012

[Infor](#), today announced that DeltaValve, a business unit of Curtiss-Wright Flow Control Company, has implemented [Infor PLM Discrete](#) adding to DeltaValve's existing deployment of [Infor SyteLine](#) ERP system. Infor PLM Discrete enables DeltaValve to standardize manufacturing processes while providing the flexibility to cost-effectively accommodate evolving customer demands for its highly engineered products, helping outpace the competition and establish leadership in the global market.

News Points

- Infor PLM Discrete works with Infor SyteLine to add Infor functionality from concept to order fulfillment, enabling time savings through easier access to consolidated information and reduced

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manual data entry requirements for DeltaValve employees.

- Data flow between DeltaValve's Infor ERP and PLM applications also helps ensure a smoother transition from research and development to production for new products. Users view processes in a single, unified system, allowing them to more quickly make improvements or changes, helping to increase efficiency and speed time to market.
- PLM Discrete provides user-friendly workflows and task lists with detailed instructions and automatic reminders to ensure that employees are aware of pending projects and approvals. DeltaValve managers can also drill down into workflow data to make better decisions regarding internal processes and resource allocation.
- DeltaValve benefits from the PLM Discrete Smart Numbering functionality, which eliminates previously existing confusion in materials numbering and helps ensure numbers on product drawings are properly documented in the system, facilitating efficiency and accuracy in manufacturing operations.

"Our previous PLM system was not linked to our ERP system, which was a roadblock to data sharing and information flow, causing inefficiency and disruption to operations," said Steven Seals, planning and procurement, DeltaValve. "By selecting Infor PLM Discrete, DeltaValve benefits from connectivity between our PLM and ERP applications, creating a unified solution which enables employees to enter data into one system and have it automatically stored in the other, facilitating faster, more accurate information sharing within our business."

"Infor products are designed to complement one another and work as a functioning whole, helping businesses streamline operations through unified data and system access," said Ken Liesegang, director, PLM Product Management, Infor. "Products from specialized manufacturers like DeltaValve are detailed and unique, and Infor PLM integrated with ERP helps drive efficiency and speed time to market, enabling companies to improve profitability and competitiveness."

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Firecon Chooses MagiCAD

1 October 2012

Firecon is a Finish full-service company for fire protection. It combines high level design with decades of experience in fire protection.

Virpi Siltala, Sprinkler designer at Firecon, tells about choosing MagiCAD: "The increasing demand for 3D design and BIM called for a new design software. We chose MagiCAD for Sprinkler design. The transition was easy because MagiCAD has AutoCAD as a platform. It was already a familiar environment for us. Besides drawing we can make calculations in the same file. MagiCAD was a natural choice since we rely on the future development of the program. Another deciding factor was the active and professional support we get from the supplier."

Before we decided on MagiCAD we studied a number of sprinkler design programs. Many of them

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would have required too much preparation before design and calculations. MagiCAD is easy to adapt, to learn and to use even if you don't have prior experience in 3D design.

We have been using MagiCAD in small and large projects. We started with small projects at first, then moved in stages to larger projects."

"At Firecon the design process starts by defining the design criteria. When the big picture and the sections are clear, it is time to figure out how to combine different levels and drawings. This way the possible changes will be easy to make. Then we draw the levels, calculate the pressure drops and add the texts. If needed the model will be made. All BIM models are combined to one common model that shows the required space for different installations.

At the design stage it's easy to check with MagiCAD that no collisions occur with other installations even in narrow spaces, because most other HVAC design companies also use MagiCAD.

MagiCAD support people help the design process to run smoothly. Any problems are solved quickly. And our development suggestions have often been included in new versions of MagiCAD.

We have utilized customised company training courses and have very positive experiences. The training day was well suited for both experienced and less experienced MagiCAD users. At the same occasion improvements of the new version was introduced. Training days like this will most likely be repeated in the future."

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Lesedi NS Adopts AVEVA's Integrated Engineering & Design Approach

4 October 2012

AVEVA today announced that Lesedi Nuclear Services, a South African EPC in the power industry, has adopted an Integrated Engineering & Design approach by implementing [AVEVA PDMS](#), [AVEVA Instrumentation](#), and [AVEVA Diagrams](#). The deployment of these key software applications from the AVEVA Plant portfolio enables Lesedi to optimise its design process on complex power plant projects.

'The combination of PDMS and the other applications adds a new dimension to our existing solution, allowing us to handle more complex major capital projects', said Lionel Trocado, Director of Engineering, Lesedi NS. 'Achieving greater efficiency on large projects is critical to our business, since it cuts project time while reducing cost and risk. AVEVA's Integrated Engineering & Design approach provides dynamic information sharing between the different disciplines throughout the life of the project. The approach will help us to reach a new level of efficiency by fully integrating our engineering and 3D design data.'

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'Lesedi's decision to implement AVEVA means they can ensure consistency of the engineering and design data, which is critical to avoiding rework that becomes increasingly costly and disruptive as a project evolves,' added Fredy Ktourza, Senior Vice President – South EMEA, AVEVA. 'Major EPCs like Lesedi operate in a very competitive market and are constantly looking for ways to improve project efficiency. AVEVA's Integrated Engineering & Design approach helps give our customers a competitive edge, with industry-leading functionality in a tightly integrated solution. It's a very powerful combination that offers tremendous business value'.

All [AVEVA Plant](#) products are part of AVEVA's Integrated Engineering & Design approach which improves project efficiency and reduces engineering and design costs by offering complementary products that draw on common processes, disciplines and deliverables, through a single managed information model.

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Paragon Medical Adopts NCSIMUL SOLUTIONS to Drive Machining Simulation Process

2 October 2012

To verify and optimize its machining operations, medical products supplier Paragon Medical, Inc., Pierceton, Ind., has selected NCSIMUL, the CNC machine simulation solution from SPRING Technologies, Cambridge, Massachusetts.

Paragon Medical is a tier-1 turnkey manufacturer of cases and trays, surgical instrumentation, and implantable components. Paragon established its Global Design Center to enable the company to close the loop between development and manufacturing via project management, design, research, analytical testing and prototyping.

NCSIMUL, a component of SPRING Technologies' NC software offering of CAM software and services, is a comprehensive machine simulation software for simulating, verifying, optimizing and reviewing machining programs meant for CNC machines.

Dramatically saving setup time

Paragon NC Programmer Mark Erickson said the custom and limited-volume nature of the company's products effectively creates "a job shop environment where we're doing a lot of setups. The final decision for purchasing NCSIMUL came when we saw setup time savings of around 7 to 8 hours per set up because of the documentation that NCSIMUL can output. If the guys on the floor have been spending hours on a job and we can provide more information to do the setups faster, we're looking at a good return on the software investment."

Another of the software's benefits, Erickson said, is the ability to easily transfer NCSIMUL simulations among different machines. Paragon employs many types of 3 to 5-axis mills to machine complex parts and asked Spring Technologies to provide a simulator for its 9 axis machining center. "We use

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NCSIMUL to come up with simulations for our different types of machines,” Erickson said, “It’s proven pretty easy to create simulations for a new machine.”

According to SPRING Technologies, NCSIMUL offers a variety of advantages compared to competitive systems. NCSIMUL generally takes about 2 days of training, attesting to the program’s ease of use. Also significant, SPRING Technologies says, is the capability to demonstrate and share NCSIMUL simulations. Downloading NCSIMUL Player application from the SPRING Technologies web site enables customers and collaborators who don’t necessarily have licenses for the software to receive and play back NCSIMUL files and employ functionalities such as measurement of surfaces and finding specific G-code lines.

Paragon’s decision to purchase some seats of NCSIMUL followed an intensive 90-day evaluation that included comparison of an evaluation copy of the software with that from another NC simulation provider. The extended test with the evaluation copy, Erickson said, “was a key for getting the software into Paragon.”

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

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Product News

Agilent Technologies Unveils ADS 2012 Software

3 October 2012

Agilent Technologies Inc. has unveiled ADS 2012, the next release of its [Advanced Design System \(ADS\)](#) flagship RF and microwave EDA platform.

ADS 2012 delivers new capabilities that improve productivity and efficiency for all applications it supports, as well as breakthrough technologies applicable to GaAs, GaN and silicon RF power-amplifier multichip module design.

Productivity Improvements

ADS 2012 features a number of new user interface enhancements designed to improve design efficiency and productivity. Dockable windows, for example, enable users to quickly access frequently used dialog boxes, such as component information and layer visibility in layout. New component search and net navigator functions make it easy to work with larger designs, and a new archive/un-archive utility makes sharing designs and workspaces easier.

Two ADS DesignGuides have also been updated. The ADS Load Pull DesignGuide now offers mismatch simulation to indicate device or amplifier sensitivity to load VSWR or phase angle. The

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Amplifier DesignGuide features extensive updates that make it easy to see amplifier performance at a specific output power or a specific amount of gain compression.

Advances

Other new breakthroughs for RF power amplifier design in ADS 2012 include:

- Unparalleled integration with [EMPro](#) that enables 3-D EM components to be saved as database cells for use directly in ADS.
- A new ADS electro-thermal simulator based on a full 3-D thermal solver natively integrated into ADS, which incorporates dynamic temperature effects to improve accuracy in "thermally aware" circuit simulation results.
- Multichip module electromagnetic (EM) simulation setup and Finite Element Method simulation of different technologies to analyze EM interactions between ICs and interconnects, wire bond and flip-chip solder bumps in typical multichip RF power amplifier modules.
- Model support for Agilent's new artificial neural network-based [NeuroFET model](#) (extracted by Agilent's IC-CAP device modeling software) to enable more accurate FET modeling and simulation results (e.g., for high-power GaN FET amplifiers).

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CDS Catalog and CAD Download Solution Launched by Brennan Industries

2 October 2012

[CDS](#) (Catalog Data Solutions), a provider of online Software as a Service (SaaS) solutions for industrial suppliers, today announced that its online parts catalog, configurator and CAD download solution is now live on the [Brennan Industries, Inc. website](#). Brennan Industries provides companies throughout the world with critical flow hydraulic and pneumatic components.

“Product selection and buying has changed, and now customers commonly research and select products online. Our website now incorporates a searchable product catalog (including product comparison and customer attribute selection from a table) so it’s easy to find and select the right product. Free downloadable CAD models are available to save customers time as they specify products into their designs. We even offer two types of CAD models; designers can select models with or without threads,” said David M. Carr, president, Brennan Industries. “We evaluated several vendors and chose the integrated [CDS Catalog](#) and [CDS ModelServer](#) SaaS solutions because they are well proven in the market, specifically designed for industrial suppliers, extremely user friendly for our customers, and up-to-date technically so it is very easy to integrate into our website.”

“CDS is delighted to support Brennan Industries with our integrated [CDS Catalog](#) and [CDS ModelServer](#) solutions, enabling over 8,000 individual hydraulic fittings & adapters to be easily searchable and available in 3D CAD. Today, on average, 60 percent of purchasing decisions are made before talking to a sales representative, so industrial suppliers’ marketing and sales processes need to support and influence the way customers now work,” said John Major, CEO, CDS. “When comparing online marketing content—white papers, case studies, brochures, videos, demos, recorded webinars,

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reviews and CAD model downloads—only one is known to lead to a sale nearly 50 percent of the time. CAD downloads through inclusion directly in customers' design or specification documents are clearly the most efficient and effective website visitor conversion tool available."

For more information, contact Brennan Industries at 888.331.1523.

Email: sales@brennaninc.com. www.brennaninc.com.

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COMSOL Multiphysics 4.3a Released

1 October 2012

COMSOL has introduced Version 4.3a of COMSOL Multiphysics®, its flagship software for modeling and simulating physics-based systems. With version 4.3a and in response to user requests, COMSOL introduces LiveLink™ for Excel® to connect multiphysics results with spreadsheets. Version 4.3a also further extends the ability of engineers, scientists, and researchers to leverage multiphysics to design and optimize breakthrough products and technologies anywhere from the desktop to the cloud with new support for cluster computing on the Amazon Elastic Compute Cloud™ (Amazon EC2™). New modules for analyzing fatigue and for importing ECAD files make their debut in Version 4.3a as does the new LiveLink for Solid Edge®, a CAD software from Siemens PLM Software. Additionally, every one of the more than 30 application-specific COMSOL add-on modules for mechanical, electrical, fluid, and chemical modeling and simulation sees major new upgrades. COMSOL Multiphysics 4.3a will be available for download starting October 8.

Major News in COMSOL Multiphysics Version 4.3a At a Glance

- LiveLink™ for Excel®
 - Run COMSOL simulations from within Microsoft Excel.
 - Load Excel files into COMSOL.
- Fatigue Module
 - Mechanical fatigue based on stress or strain evaluations.
- ECAD Import Module
 - Import of ECAD layouts with new functionality for filtering of cells, nets, and layers.
- LiveLink™ for Solid Edge®
 - Bidirectional associativity with files created with the Solid Edge CAD software from Siemens PLM Software.
- Cloud Computing
 - Support for cloud computing with Amazon Elastic Compute Cloud™ (Amazon EC2™).
- Parameter Optimization
 - Optimize designs based on geometry model dimensions or other parameters.
- More Efficient CFD Solvers

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- Optimized solvers for flow simulations and new methods for solving for fluid structure interactions.
- Accelerated parallel computing.
- For detailed information on COMSOL Multiphysics version 4.3a please visit www.comsol.com/products/4.3a/

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Dassault Systèmes Introduces “Licensed to Cure”, a New Industry Solution Experience for Fully Compliant Medical Devices

2 October 2012

Dassault Systèmes today announced the launch of a new industry solution experience for medical device manufacturers called “Licensed to Cure.” Based on Dassault Systèmes’ 3DEXPERIENCE platform, it helps accelerate the delivery of innovative, safe, and fully compliant medical devices.

“Licensed to Cure” industry solution experience ensures a single source of information for innovation, as well as a fully-transparent and fully-documented change process allowing medical device manufacturers to optimize resource allocation, maximize IP reuse, and streamline the regulatory filing process. By creating an end-to-end, traceable, and compliant product development process that is directly linked to quality management, medical device manufacturers can expedite time to market and minimize regulatory overhead.

“Increasing regulatory scrutiny is putting pressure on medical device manufacturers to achieve total quality and safety,” said Monica Menghini, Executive Vice President, Industry and Marketing, Dassault Systèmes. “With the number of FDA warning letters issued on the rise, the time and budget that these manufacturers spend on regulatory activities is increasing. Our 3DEXPERIENCE platform, with dedicated industry solution experiences enables companies to manage their business objectives in a complex regulatory environment while meeting consumers’ expectations for safe products.”

Launched during the AdvaMed 2012 Conference, “Licensed to Cure” industry solution experience:

- Allows companies to eliminate scattered processes and data, and to “embed” regulations as an asset, optimizing quality and compliance and reducing cost and time to market.
- Ensures a single source of information that allows manufacturers to always get relevant, up-to-date information and establish true collaboration with the same, accurate set of product data.
- Automates “bureaucratic” tasks and ensures procedural enforcement that leads to making products right the first time, speeding time to regulatory approval.
- Provides structured process and documentation such as “living” DHF and DMR bring full traceability and automated reporting and filing.
- Helps medical device manufacturers accelerate and increase the innovation pipeline to sustain market expansion in new countries and with specialized products to meet patient needs without

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limits from risk mitigation and regulatory restrictions.

- Optimizes medical device manufacturers' supply chain and extended ecosystem, to reduce compliance and quality risks while securing brand equity and image with consumers.
Dassault Systèmes at AdvaMed

"Licensed to Cure" will be showcased at AdvaMed 2012 Conference - booth #101. In addition, Dassault Systèmes is moderating a panel entitled, "Enabling Faster and Better Medical Device Development & Evaluation via Virtual Collaboration Simulation & Regulatory Submission." Panelists from the FDA, Iyno Advisors and Bausch & Lomb will discuss how the FDA and the Center for Devices and Radiological Health (CDRH) are working collaboratively with federal government partners and external constituencies to advance device regulatory science and ensure the safety and performance of new products.

To learn more about "Licensed to Cure" and all of Dassault Systèmes' Life Sciences industry solution experiences : <http://www.3ds.com/life-sciences>

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Delcam Launches Delcam for SolidWorks 2013

3 October 2012

Delcam has launched the 2013 version of Delcam for SolidWorks, the integrated CAM system for SolidWorks. The new release includes a new entry-level 3D milling option, plus many of the enhancements made to the 2013 version of the FeatureCAM feature-based programming system on which it is based. As a Gold Partner CAM product, it is, of course, fully compatible with the latest release of SolidWorks. Full details are available on the learning zone at www.delcam.tv/dfs2013/lz.

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

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

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

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

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

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

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

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

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

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

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EON Reality Introduces EON Ibench Mobile™ and Partnership with Infinite Z to Provide Intuitive and Immersive Realistic Interaction with zSpace

3 October 2012

EON Reality has introduced EON Ibench Mobile™, a table-top stereoscopic 3D display solution. EON Reality also announced its partnership with [InfiniteZ, Inc.®](#), a technology provider that enables natural interaction with virtual-holographic 3D imagery. EON Reality and Infinite Z are collaborating to provide innovative 3D solutions to the market by combining Infinite Z's unique platform with EON's software solutions.

The EON Ibench Mobile™ system utilizes Infinite Z's virtual-holographic 3D visualization technology, zSpace®, and is set to enable commercial and educational professionals to accelerate design and development processes and improve the way people learn, teach and communicate in today's world.

EON Ibench Mobile™ uses an integrated software/hardware solution available only through EON Reality. The system allows for intuitive, real-time interaction using Infinite Z's zSpace with a bright 24" HD stereoscopic display system that is responsive to the user's actions and allows interaction with realistic 3D objects or a full virtual environment. The system includes high-end 3D software that enables easy conversion of 3D data, scenario creation, advanced interactivity creation, and supports numerous CAD and 3D model formats as well as content from the [EON Experience portal](#).

By using zSpace as part of the EON Ibench Mobile offering, users will be able to work with designs as if they are real physical objects before they are even produced. The holographic representation provides an extra layer of detail that can't be achieved through traditional 2D, and using the zSpace stylus allows for the pinpointed control to turn, take apart and manipulate the design with extreme precision.

"zSpace aims to change the way people interact with computers – offering an entirely new way of working with 3D imagery in a highly realistic virtual environment," said Paul Kellenberger, CEO of Infinite Z. "EON Reality offers an advanced set of 3D visualization solutions, and through our partnership we hope to enhance the 3D experience with added capabilities of zSpace, while encouraging further innovation and creativity in the design process."

"We are extremely pleased with the results from our collaboration with Infinite Z," said Mats W. Johansson, President, EON Reality, Inc. "Together, we have combined the very best of software and hardware to be able to offer this intuitive, interactive, and immersive 3D solution."

Read more in the [EON Ibench Mobile brochure](#) and view the [EON Ibench Mobile video](#).

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Fujitsu Launches Manufacturing Innovation Team Services

1 October 2012

Fujitsu today announced the immediate availability of a new line of service offerings for the Japanese market based on the company's "Manufacturing Innovation Team" concept, which was unveiled in May 2012. The new offerings include a "Manufacturing Expert Service" for customers in the manufacturing industry provided by veterans of the manufacturing front lines, a "Manufacturing Toolset" service consisting of on-site production equipment and ICT work support tools, and "Manufacturing Outsourcing Services," in which Fujitsu will offer sophisticated, specialized outsourcing services and BPO services for operations that are common across the manufacturing industry.

By leveraging the new services, manufacturing customers will be able to harness ICT to accelerate prototype testing and substantially cut workloads and costs. Moreover, through assistance in clarifying problem areas from experienced professionals, customers will be able to build production lines that can flexibly accommodate movements in the market.

Fujitsu will deliver comprehensive support across all of a customer's manufacturing operations, while at the same time utilizing ICT to connect all aspects of the manufacturing process, thereby helping customers bring about manufacturing innovation.

In addition to a sluggish world economy, the severe operating environment which surrounds Japan's manufacturing industry is characterized by pressure from a strong yen and higher environmental demands (lower CO₂ emissions). It is becoming ever more urgent to improve products and reduce costs, take advantage of the strong yen by accelerating the shift toward procurement of raw materials outside Japan and shifting production overseas, and to seek new directions for growth by expanding business into other markets, particularly emerging economies. For these reasons, in May 2012 Fujitsu announced its Manufacturing Innovation Team concept as a service designed to deliver new value to customers in Japan's manufacturing industry. Starting today, the company will begin sales and delivery of new services based on this concept.

Manufacturing Expert Services, which are tailored to the characteristics of each customer's products throughout the manufacturing process from initial design to how that design applies to production, and provide expertise in development techniques that utilize ICT. Specific services include consulting on how to best put in place software development processes, QCD (Quality Cost Delivery), project management, virtual verification and analysis simulations of development up-streaming, as well as construction and optimization of production lines. The Manufacturing Toolset includes offerings such as precision assembly robots and assembly equipment for installing parts, in addition to performing equipment coordination, production line integration, and operational support. Manufacturing Outsourcing Service provides outsourcing services for specialized functions, such as drop impact analysis, based on Fujitsu's experience in advanced quality inspection procedures for servers and drop impact analysis for highly durable PCs and mobile phones.

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GRAPHISOFT BIMx Latest Release Introduces New Features

2 October 2012

As App Store downloads of popular BIMx app recently topped 100,000, GRAPHISOFT announced a free update containing the latest innovations for its communication and presentation tool for BIM projects.

BIMx is an interactive environment that allows users to explore full BIM models without holding a license of the professional authoring software in which the building model was originally created. With BIMx, ArchiCAD users have been able to publish self-running BIMx models for their clients to run on desktop computers (Win/Mac), as well as on iOS and Android devices putting BIM into the hands of all stakeholders not actively involved in the actual creation of the BIM model such as contractors, builders, clients, owners, and principals of design practices.

BIMx for iOS and Android devices

The new features available in the latest version of BIMx include:

- Gallery: this function, previously available only in the desktop version of BIMx, allows users to define views and navigational routes; from these defined points, one can freely 'walk through' the model.
- Guided navigation: this function restricts navigation of the model to those views previously saved in the Gallery

The latest version is available on all supported platforms, including iOS and Android.

BIMx Community on Facebook

The integrated [BIMx community on Facebook](#) is the central hub for sharing interactive 3D building models. Architects holding a BIMx license – either commercial or educational license – can publish their models directly to this online community. Native Facebook functions such as comments, likes and share are extended with customized functions for filtering models by educational or professional types; searching models using key-words or finding uploaded models of specific users, architects or clients. BIMx models can be uploaded, browsed and downloaded by non-Facebook users as well; only "liking" and "commenting" requires Facebook registration. ArchiCAD users holding a full commercial BIMx license and an active Software Services Agreement can benefit from a cloud service exclusively provided by GRAPHISOFT for private model transfer. For more information, please contact your [local ArchiCAD provider](#).

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Mastercam X6 Wire Brings Powerful Wirepaths and Techniques

2 October 2012

Mastercam X6 Wire delivers powerful part modeling and EDM programming, efficient tab creation, and dependable wirepath verification. Dramatically streamlined and featuring powerful new features, Mastercam Wire has been designed to reduce programmer interaction and increase machining flexibility.

Powerful Part Modeling

Mastercam's streamlined CAD engine makes design work easier than ever before. Each piece of geometry you create is "live," letting you quickly modify it until it's exactly what you want. Features include easy 2D and 3D geometry creation with complete wireframe and surface modeling, and fast creation of a wide range of NURBS and parametric surfaces. The Dynamic Plane function simplifies all plane creation with interactive click-and-drag tools.

EDM Programming

Mastercam X6 Wire also delivers a streamlined set of programming tools, including:

- 2- and 4-axis programming.
- 2-axis contouring, with or without taper angle.
- Efficient no-core cutting.
- Straight and tapered cut (with or without land) from either direction.
- Contour multiple parts using a single window selection.
- Automatic wirepath corner filleting.
- Create efficient lead-ins and lead-outs with optional lead trimming.
- Automatic tabs with user-definable stop types.
- No Drop Out tab option helps avoid slivers.

Designed for Ease

- Mastercam's Toolpath Manager stores all your job's operations in one place.
- Mastercam creates a smart link between a part and its toolpaths. The associativity means that if there are any changes to the part, you can easily update the toolpath.
- Mastercam's CAD File Change Recognition tracks files from Mastercam or any other CAD system and will show you what's been changed for easy wirepath updating.
- User-customizable wire power libraries store power settings and other registers for rough and skim passes.
- Mastercam includes all-new support for Agie EDM with Agievision controls. Simply choose an Agievision AWF Wire Machine Definition and you'll see parameter pages that anyone familiar with Agievision will instantly recognize.
- See your part as it will come off the machine with solid model wirepath verification.

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For more information about Mastercam X6 Wire, please visit www.mastercamwire.com.

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OPEN MIND Debuted hyperMILL® 2012

2 October 2012

OPEN MIND Technologies debuted its new release of high-performance hyperMILL® CAM package at IMTS 2012. OPEN MIND regularly provides enhancements to all technology segments of hyperMILL® in new product releases. Some of the key functions in hyperMILL® 2012 include innovative 2D pocketing techniques, enhancements to the work-horse profile milling cycle and enhancements to 5-axis shape offset procedures.

IMTS is the largest American trade event for manufacturing technology, held biennially, where customers and prospects meet suppliers, and seek new directions and technologies for their investment dollars. OPEN MIND showcased three components, produced by our customers that have won awards for creativity and high quality. Alan Levine, Managing Director of OPEN MIND Technologies USA, Inc said that “the customer components on display gave the visitors to the booth the idea that CAM software should enable and not limit their abilities to meet and surpass their customer’s demands”.

These eye-catching components contributed to a record number of inquiries, many of which are qualified to further explore how *hyperMILL®* can impact the competitiveness in their shops.

hyperMILL® 2012 enhancements focused on streamlined programming techniques and efficient manufacturing processes. These attributes have fundamental impact to prototype and short-run shops, as well as production job shops.

The new adaptive pocket technique simplifies programming by reviewing the characteristic geometry of rectangular pockets and automatically assigning best-practice tool path techniques to different categories of pockets (square, long, open, closed). In combination with Feature Recognition utilities, the geometry on simple as well as complex pockets can be organized, and then machining techniques can be dynamically assigned to obtain optimal machining. Too often, highly automated techniques rely on sub-optimal machining processes to enable to assurance and automation on the programming side.

The *hyperMILL®* shape-offset technique provides roughing and finishing as offsets from reference surfaces. This provides improvements to machining and leaves consistent rest material for subsequent operations, comparing to “stair-steps” that would remain after using traditional z-level procedures on a curved bottom surface. This procedure is also available in combination with *hyperMAXX®* high-performance roughing that is based on Celeritive Technologies’ Volumill™ kernel.

The latest enhancement to shape-offset techniques includes axial sorting whose benefits are dramatized in shape-offset “rest machining” in corners. With axial sorting, air transition moves are reduced

compared to working level by level.

Additional information is available upon request or from their website at www.openmind-tech.com.

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Tecplot Chorus 2012 R3 Released

3 October 2012

Tecplot, Inc. announced the release of the 2012 R3 version of Tecplot® Chorus™, the simulation analytics framework that unites physics visualization, data management and analytics to help engineers manage and analyze collections of CFD simulations.

Enhancements to Tecplot Chorus 2012 R3:

- Table view variables can be edited, deleted, or nulled with changes reflected immediately in all open views and plots.
- Case selection menus allow user-customizable actions for variable extraction, viewing data in third-party visualizers, and other workflows.
- Batch image creation and data extraction default to a single Tecplot 360 instance.
- Filter resets are easier to access.

More information about Tecplot Chorus is available at www.Tecplot.com/Chorus.

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TransMagic Releases MagicCheck for 3D Geometry Comparison

2 October 2012

TransMagic, Inc. announces the release of MagicCheck, a new product for comparison of 3D geometric data including: validation of translated models, analysis of quality inspection results and review of design changes. TransMagic MagicCheck quickly opens files in any major 3D CAD or point data format and compares the geometry against the authority CAD model. MagicCheck meets industry standards for geometric analysis and comprehensive report generation.

MagicCheck is built on the renowned TransMagic multi-CAD foundation which provides the ability to accurately read native 3D CAD formats, CATIA, Pro/ENGINEER, NX/UG, SolidWorks, Inventor and AutoCAD, while also supporting common non-native formats, Parasolid, ACIS, IGES, STEP, STL and JT. Point data sets can be imported from a variety of CAD formats plus Excel or CSV files.

Key Areas of Functionality in MagicCheck:

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- Point-to-Part comparison analysis of CMM data to master model
- Part-to-Part validation of 3D models in any major CAD format
- Revision Control comparison of multiple part files to show changes
- Validation analysis reports document compliance with industry standards

“Since not everyone works in the same CAD design tools, sooner or later, you’re going to need to generate and validate derivative data sets during the manufacturing process,” states Larry Kuehn, inspection industry veteran with Adaptive Corp. “The supply chain quality department is not the only group that requires translated models be validated against the native engineering master model. The OEM or supplier manufacturing the part cannot afford to machine non-conforming parts because of translation errors. These manufacturing issues can typically cause expensive rework and scheduling delays. When engineering designs change, other departments need to quickly validate the changes to the model so their manufacturing and quality processes can be updated. MagicCheck is a powerful tool to help companies keep track of quality from design changes through to the finished parts.”

TransMagic MagicCheck overcomes the challenge of validating geometric data from multiple sources and will confirm with high accuracy that two CAD models are identical or different. MagicCheck compares quality inspection CMM data to the master model. Open multiple revisions of a part, simultaneously, in MagicCheck to show the changes at each stage. A thorough analysis of the geometric comparison is displayed graphically in a color map on the part. The color map shows all deviations, based on specified tolerances, while the point browser lists the actual numeric values. Generating detailed validation reports is simple with MagicCheck. Custom views and notations are easily added to produce a complete report of the analysis results in Excel or HTML.

For more information, please visit www.TransMagic.com

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ZWCAD USA Announces ZWCAD Mechanical

30 September 2012

[ZwcadUSA](#), the exclusive distributor for ZWCAD in US and Canada today announced the official release of ZWCAD Mechanical. ZWCAD Mechanical simplifies and accelerates mechanical and manufacturing design. Built on the next generation ZWCAD+, ZWCAD Mechanical embodies all of the advanced capabilities of ZWCAD+ and adds functionality that are specific to making mechanical and manufacturing design faster. The added mechanical design features that speed up mechanical design include:

- Comprehensive Parts Library and Part Builder
- Flexible and Advanced Dimensioning
- Easy switching between local, customized enterprise, and international drafting standards
- Intelligent Balloons and BOM Association
- A unique and powerful engineering toolbox, including an Engineering Calculator with built in formulas, DWG Data Viewer, and Jigsaw Printing

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Kanti Purohit, CEO of ZwcadUSA, comments, “New Core. New Possibilities” is not just a slogan. As I have said before, ZWCAD+ will serve as the launching pad that will continue to transform new possibilities into realities that will raise the bar higher for performance, functionality, and user experience. And, ZWCAD Mechanical is yet another example of transforming those possibilities into a new, powerful, and practical product.”

Purohit continues, “This is great news for mechanical engineers who are seeking a lower-cost alternative to AutoCAD® Mechanical and, yet, has the features and functions that help them do their design tasks faster. Not only ZWCAD Mechanical is built on advanced capabilities of ZWCAD+, it includes everything that is in the ZWCAD+ Professional version.”

Some of the core capabilities of ZWCAD+ embedded into ZWCAD Mechanical include:

- exceptional memory management technology
- full resource utilization of dual-core CPUs
- code-level compatible APIs
- fresh ribbon UI

To get a taste of what ZWCAD Mechanical has to offer, click to [download ZWCAD Mechanical](#) today and experience the power of mechanical design built upon ZWCAD+. What’s more, the trial is free. To learn more about ZWCAD Mechanical, please visit our website for [ZWCAD Mechanical](#).

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