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CIMdata News

David Long, President of the International Council on Systems Engineering (INCOSE), to Speak at CIMdata's Systems Engineering Workshop

3 June 2014

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces that David Long, President of INCOSE, will make a presentation at CIMdata's upcoming Systems Engineering workshop in Cincinnati on June 24th.

Mr. Long's presentation, "Model-Based Systems Engineering at the Age of Eight," will take a look at Model-Based Systems Engineering (MBSE) eight years after the adoption by OMG of SysML. Model-based has become the hot topic in the systems domain and organizations are investing heavily in developing new representations, standards, methodologies, and technologies to transform the practice of systems engineering through model-driven paradigms. This presentation will consider what MBSE is and what it is not. The presentation will also look at the strengths and weaknesses, aspects to be reinforced, and aspects to be addressed if MBSE is to successfully transform systems engineering as opposed to becoming the next failed silver bullet.

CIMdata's Systems Engineering workshop is a must-attend event for industrial organizations and

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solution providers involved with systems engineering. It provides independent education and a collaborative networking environment where ideas, trends, experiences, and relationships critical to systems engineering germinate and take root. Attendees should expect to gain a solid understanding of current best practices and of the work that CIMdata's Systems Engineering Knowledge Council is undertaking. For more information visit <http://cimdata.com/en/education/knowledge-council-workshops/2014-systems-engineering-workshop-na>

About David Long, President, INCOSE

A committed member of the worldwide systems community, David Long is the 2014/2015 President of INCOSE. David has served INCOSE since 1997 including a term as the Washington Metropolitan Area chapter president and international roles including Member Board Chair, Director for Communications, and Director for Strategy. He is a frequent presenter at industry events worldwide delivering keynotes and tutorials spanning introductory systems engineering, the advanced application of model-based systems engineering (MBSE), and the future of systems engineering. In 2006, David received the prestigious INCOSE Founders Award in recognition of his many contributions to the organization.

For over twenty years, David has focused on enabling, applying, and advancing MBSE to help transform the state of the systems engineering practice. David is the founder and president of Vitech Corporation where he developed and commercialized CORE[®], a leading systems engineering software environment used around the world. Throughout his career, David has played a key technical and management role in refining and extending systems engineering to expand the analysis and communication toolkit available to systems practitioners. His experiences and efforts led him to co-author the book *A Primer for Model-Based Systems Engineering* to help spread the fundamental concepts of this key approach to modern challenges. He continues to lead the Vitech team as they deliver innovative, industry-leading solutions to help organizations develop and deploy next-generation systems.

David holds a bachelor's degree in Engineering Science and Mechanics, as well as a master's degree in Systems Engineering from Virginia Tech.

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 providers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia-Pacific. To learn more about CIMdata's services, visit our website at www.CIMdata.com, follow us on Twitter: <http://twitter.com/CIMdataPLMNews>, or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA; Tel: +1 734.668.9922; Fax: +1 734.668.1957; or at Oogststraat 20, 6004 CV Weert, The Netherlands; Tel: +31 (0) 495.533.666.

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Acquisitions

Adris Continues Expansion and Growth in the UK with the Acquisition of MicroCAD

2 June 2014

[GRAITEC](#) has acquired (through its UK Subsidiary Adris Ltd.) MicroCAD, a well-established Autodesk CAD Solutions provider.

Adris Ltd, already a highly respected Autodesk Platinum reseller in the UK supplying design software and services continues to grow its UK base, and through this acquisition aims to perpetuate growth by providing sales, support & consulting services across the whole of the UK via five strategic locations ideally placed to offer the best possible service to its customers nationwide.

MicroCAD Ltd is a full service provider for Autodesk products for the Architectural, Construction Engineering and Mechanical industry markets. With nearly 30 years' experience, MicroCAD has the in depth knowledge to develop tailored solutions and then supply, install, support and provide training and consultancy services to help its customers achieve maximum results.

As a growing company MicroCAD is already an Autodesk Gold reseller and from this acquisition all of MicroCAD's customers will benefit from coming under the Adris umbrella of being a Platinum Autodesk reseller offering the very best service and support globally.

Francis Guillemard, CEO and founder of GRAITEC commented "The acquisition of MicroCAD will enable Adris to offer a complete, high-end design and CAD solution to its customers across the UK market from four additional UK locations, as well being able to rely on the expertise of Adris Ltd in the construction engineering markets and its successful customer-oriented approach".

Steve Houlder, Managing Director of Adris Ltd, stated "The synergies between the two companies will ensure no matter where the customers location they will never be far away from our five strategic locations, and the high level of customer service will allow for continuity of service. By adding MicroCAD, it affirms our position in the UK as one of the foremost providers of Autodesk software and consultancy. We look forward to welcoming all customers and staff into the fold".

Neil Wright – Sales Director of MicroCAD comments "This is great news for all MicroCAD existing staff and customers. The joining of two of the top UK resellers together will provide an even higher level of service and expertise supporting customers large and small across the whole of the United Kingdom".

The combined company will have a turnover in excess of £17M with over 70 staff supporting 1000's of customers across the UK. The companies will continue to trade under their respective brands until the full integration is complete.

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Trimble Acquires MAYBIM to Enhance its Mechanical, Electrical and Plumbing 3D BIM Consulting Services

3 June 2014

Trimble announced it has acquired the assets of privately-held MAYBIM based in Provo, Utah. MAYBIM is a provider of 3D Building Information Modeling (BIM) services to contractors with a focus on mechanical, electrical and plumbing (MEP) contractors across the U.S. Financial terms were not disclosed.

MAYBIM's suite of 3D BIM professional services allows for contractors to rapidly scale their BIM capabilities regardless of the requirements from the building owner or general contractor. MAYBIM provides contractors customized project deliverables that can include 3D Modeling, BIM Coordination, 3D Laser Scanning and 3D Modeling from Scanned Point Clouds.

"Today's MEP contractors are increasingly receiving requests to use BIM on their projects, but the adoption and implementation takes time. The use of 3D BIM services to supplement their own capabilities can help MEP contractors accelerate that process," said Pat Bohle, general manager of Trimble's MEP Division. "By combining the experience of the MAYBIM and the Trimble MEP BIM services team, we are able to expand our skills and capacity to support our client base's BIM capabilities through the full workflow including field layout and 3D laser scanning."

"Helping contractors implement and expand their BIM capabilities is one of our core values," said Ben May, founder of MAYBIM. "We're excited to join our 19 years of BIM experience with Trimble, a leader in BIM and 3D modeling tool development."

Trimble's 3D BIM Consulting Services for MEP contractors are available now. Details and contact information are located at: MEP.Trimble.com/services.

The MAYBIM business will be reported as part of the Engineering and Construction Segment.

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Company News

3D Systems and Konica Minolta Business Solutions U.S.A. Join Forces to Accelerate 3D Printing Adoption

5 June 2014

[3D Systems](#) announced that it has entered into a strategic alliance with [Konica Minolta Business Solutions U.S.A., Inc.](#) (Konica Minolta) to distribute its complete 3D printing product portfolio through Konica Minolta's nationwide network of dealers and authorized resellers, as well as its direct sales channel. This relationship marks Konica Minolta as the first original equipment manufacturer to sell, support and service 3D printing products through the traditional printer and office equipment channel in the United States.

Konica Minolta Business Solutions U.S.A. is a leader in enterprise content management, technology optimization and cloud services with solutions that help organizations improve their speed to market, manage technology costs, and facilitate the sharing of information to increase productivity.

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With this alliance, Konica Minolta will enter the rapidly emerging 3D printing market to provide its customers access to additive manufacturing solutions, complementing and expanding its product and services portfolio distributed through its network of dealers in the U.S., as well as its direct distribution. Konica Minolta plans to focus on high-growth industries such as manufacturing/industrial, healthcare and education applications.

“Our goal is to arm our nationwide, exceptional sales organization with the cutting-edge products and services they need to grow their businesses and gain a competitive edge,” said Kevin Kern, Senior Vice President, Marketing, Konica Minolta Business Solutions U.S.A., Inc. “By teaming up with 3DS, the recognized industry leader, and offering the most comprehensive suite of 3D printers materials and services, we’re able to do just that.”

Some of the first products that Konica Minolta will resell from 3D Systems include:

- **ProJet® 3500 Series Professional 3D Printer** - Ideal for engineering, manufacturing and mechanical environments, the ProJet 3500 Series prints high-quality, durable plastic parts with accurate and high-resolution. This printer series is ideal for rapid manufacturing, functional testing, design communication, rapid tooling and more.
- **ProJet® 660 Professional 3D Printer** - The ProJet 660 targets consumer products, healthcare, education and other vertical market customers that are interested in printing full-color, photo-realistic models for product design, prototypes, assemblies and color concept models.

“We are thrilled to be able to work with an established and experienced partner like Konica Minolta U.S.A and access their nationwide network to accelerate 3D printing adoption,” said Michele Marchesan, Chief Opportunity Officer, 3DS. “Our ability to attract world class organizations like Konica Minolta sets us apart from competitors and provides a unique opportunity to serve a wider range of customers, maintain closer relationships with them and gain insights into how to better meet their needs.”

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ANSYS Drives Electric Vehicle Innovation with GM, NREL and ESim

5 June 2014

The world is one step closer to more affordable and eco-friendly electric vehicles (EV) thanks to the efforts of ANSYS, General Motors LLC, the Energy Department's (DOE) National Renewable Energy Laboratory (NREL) and ESim, which are working to design better, safer and longer-lasting lithium-ion EV batteries. The team's efforts have led to the standard inclusion of battery models in the latest release of ANSYS® Fluent® software, which is a significant milestone in advancing EV design efficiency.

Over the last two and half years, the team worked on a DOE-funded project, Computer-Aided Engineering for Electric Drive Vehicle Batteries (CAEBAT), to combine new and existing battery models into engineering simulation software to shorten design cycles and optimize batteries for increased performance, safety and lifespan. The team is modeling thermal management, electrochemistry, ion transport and fluid flow. As a result of the work, a battery model is now standard in ANSYSFluent, a leading computational fluid dynamics solution. This seamless Fluent capability helps battery developers break the time-consuming cycle of design-build-test-break for prototyping and manufacturing.

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"The emphasis in the software integration has been to provide a flexible array of modeling choices that can support several categories of battery researchers, cell manufacturers, pack integrators and vehicle manufacturers that deliver fast and accurate results," said Jan Aase, director of vehicle systems research lab at General Motors. "With a concise plan for rapid deployment to the industry, the software solutions created through this project are already helping designers and engineers at GM to accelerate the pace of battery innovation and development for future electric-drive vehicles."

By drawing on a unique approach pioneered at NREL, a DOE national laboratory, collaborators integrated disparate physical battery scales (electrodes, cell, pack and full vehicle) and multiple physical phenomena (electrochemical, thermal, fluid and structural) – factors that have been a key barrier for effective simulation. In addition, the team blended established detailed 3-D field simulation technologies with systems-level simulation. They also extended the reach of the technology by ensuring that these new tools can interact with current and future battery models.

"ANSYS is well known for providing reliable simulation technology to enable sustainable design across a wide range of industries, including automotive," said Sandeep Sovani, director of global automotive industry at ANSYS. "The CAEBAT project has been a great opportunity for ANSYS. We are partnering with other recognized leaders in EV battery technology to develop and deliver powerful modeling tools that can be used by all battery manufacturers to accelerate production of safe, reliable, high-performance and long-lasting EV batteries that make vehicles more fuel-efficient and sustainable."

Throughout the remainder of 2014, the team will refine automation techniques for battery cell and pack-level simulations and continue to validate the models with experiments. Collaborators plan to implement cycle-life and abuse (such as overheating) models. NREL's multi-particle model, with ability to model mixture of active materials with different particle sized, will be incorporated as well. At the pack level, state-of-the-art simulation is further advanced by developing innovative reduced-order models, derived and calibrated from the cell-level models and carefully validated through experiments — all designed to enable a balance between model fidelity and computational cost. These efforts contribute to the development of a complete battery cell and pack-level design tools that will be available in the future product releases.

GM awarded ANSYS a subcontract to create battery software tools that will help accelerate development of next-generation EV batteries. This U.S. DOE-funded project is a result of a competitive procurement through NREL that was presented to GM in 2011.

This activity is part of the DOE EV Everywhere Grand Challenge managed by the DOE Office of Energy Efficiency and Renewable Energy.

Automotive leaders will share other best practices beginning at 8:30 am today during the [ANSYS Convergence Conference in Detroit](#) in the Westin Southfield Detroit, in Southfield, Michigan.

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Biesse and ModuleWorks Announce Simulation Partnership

4 June 2014

ModuleWorks have confirmed their partnership with Biesse *S.p.A.*, the manufacturer of CNC routers for the woodworking industry.

The agreement between the two companies will see ModuleWorks 5-Axis machining and Simulation

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components built into the Biesse CAD/CAM solution, bSolid. Biesse bSolid is an innovative CAD/CAM solution designed specifically for the Biesse range of machining centers and woodworking routers and simplifies the manufacturing process by combining the three steps to successful manufacturing (design, simulate and realize) in a single, easy to use application. ModuleWorks will provide Biesse with powerful 5-Axis toolpath generation and Simulation technology to power the bSolid CAD/CAM solution.

Biesse bSolid offers customers state-of-the-art 5-Axis toolpath generation and simulation of the manufacturing process, providing instant and accurate feedback to the customer and ensuring right first time safe and optimal toolpaths. Both material removal and full machine kinematic simulation are provided.

Biesse join the growing list of more than 50 CAD/CAM vendors who have partnered with ModuleWorks to provide machining and/or simulation technology to their customers all over the globe.

Yavuz Murtezaoglu, Managing Director and founder of ModuleWorks comments "We're pleased to have Biesse as a new partner. Biesse are a world leader in the woodworking industry and we're delighted to have them as our latest partner. It really does highlight the benefits of the partnership with ModuleWorks which help Biesse to deliver 5-Axis machining with full simulation to their customers in a relatively short period of time."

Filippo Bostrenghi, Software General Director Biesse, has been talking about the reasons behind the new partnership with ModuleWorks and comments, "Our customers have been telling us for some time that they would better visualization of machining, so we have been looking at our alternatives. ModuleWorks are well known for their capabilities and were a natural fit for our requirements. We've been delighted with the components and the quality of the support provided so far and look forward to a long and fruitful relationship."

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Intergraph® Enters Agreement with Chonnam National University's Yeosu Campus to Train Students with Plant Design Solutions

3 June 2014

Intergraph® has entered into an educational training partnership agreement with Korea's Chonnam National University, Yeosu campus, to teach students enrolled in its College of Engineering program using Intergraph's SmartPlant® Enterprise plant design solutions.

The College of Engineering at Chonnam National University (CECNU), with more than 60 years of tradition, strives to develop core technologies and foster future leaders to contribute to the local community as well as the entire nation. Its motto is "To the Technology, to the World, to the Future." Chonnam National University engineering students will be trained using Intergraph Smart™ 3D, SmartSketch®, SmartPlant Instrumentation, SmartPlant P&ID and SmartPlant Review solutions.

The popularity and effectiveness of Intergraph plant design solutions within Korea drove Chonnam National University's decision to incorporate SmartPlant Enterprise solutions into its engineering curriculum. University instructors will use Intergraph next-generation plant design technology that will allow engineering students to make an immediate impact with owner operators and EPCs upon graduation.

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Chonnam National University Professor Yigon Kim said, "Chonnam University operates training courses that industry needs regarding plant engineering. We especially implemented the Smart 3D solution as we see that Intergraph solution is essential for plant engineers.

"Intergraph plant design software enables students to design accurately and quickly. We can take advantage of these solutions to nurture global engineering talent to lead the future plant design business."

Gerhard Sallinger, Intergraph Process, Power & Marine president, said, "Our partnership with Chonnam National University will help develop Korea's next generation of plant engineers using Intergraph's state-of-the-art design solutions. By integrating Intergraph solutions into the engineering curriculum, Chonnam National University graduates will gain expertise for increased productivity and enhanced global competitiveness in the workforce from having been trained using the most technologically advanced plant design solutions available."

Intergraph's SmartPlant Enterprise offers a powerful portfolio of industry-leading, best-in-class design and data management solutions, enabling companies in the process, power, and marine industries to capture integrated engineering knowledge at the enterprise level for the competitive advantage needed in today's and tomorrow's market. SmartPlant Enterprise's integrated suite of solutions enable proven productivity gains, improving engineering efficiency by up to 30 percent. This is why the majority of plants built worldwide are designed using Intergraph solutions.

Intergraph Technical User Forum (TUF) LinkedIn groups provide an online discussion forum for year-round networking between users. To learn more about Intergraph solutions and network with other Intergraph users, visit www.intergraph.com/go/tuf.

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Italy's Politecnico di Milano Adopts MATLAB and Simulink to Prepare Students for Engineering Careers

27 May 2014

MathWorks has announced that Italy's Politecnico di Milano has signed an agreement that provides all of its faculty and students with [MATLAB](#), [Simulink](#), and 48 additional MathWorks products. Politecnico di Milano joins more than 400 schools worldwide already using the MathWorks university-wide license.

Politecnico di Milano is Italy's top university, according to the QS World University Rankings 2012-2013. QS also ranks the school as one of the top 50 universities in the world for computer science and information systems. Politecnico di Milano's adoption of MATLAB and Simulink for technical computing and [Model-Based Design](#) further demonstrates its commitment to prepare students for their professional careers by giving them hands-on experience with the tools that are widely used by industries across the globe.

Politecnico di Milano's MATLAB and Simulink license includes analysis, design, modeling, simulation, code generation, and testing products for engineering and science schools, plus computational finance for business and economic schools. Politecnico di Milano is deploying these tools across the university to teachers, researchers, and students through a centralized, shared platform that increases the administrative efficiency of software management and distribution and ensures that the tools are readily

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available for all users.

Through the agreement between Politecnico di Milano and MathWorks, users will have access to MATLAB and associated documentation, immediate access to new releases and around-the-clock technical support throughout the term of the license. The university-wide license permits the installation of MATLAB and Simulink products on university-managed computers as well as user-owned computers.

"The MathWorks university-wide license allows Politecnico di Milano to manage and distribute MATLAB, as well as any updates and fixes, through one central location," Prof.ssa Donatella Sciuto, Vice Rector of Politecnico di Milano said. "By giving students and faculty one cohesive tool to use, the school is further supporting and enhancing their educational and learning environment while preparing students for their future careers."

"As in other countries, universities in Italy are being challenged by hiring companies to prepare their graduates with more hands-on and application-oriented experience while providing a solid theoretical foundation," said Alessandro Tarchini, Education Marketing, Italy, MathWorks. "By providing their students and faculty with convenient and consistent access to MATLAB and Simulink coupled with MathWorks technical support, Politecnico di Milano is taking a big step to meet that challenge, enabling more project-based learning and application examples in courses."

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Lantek Appoints Indian Reseller

5 June 2014

[Lantek](#) has appointed a reseller for its [Lantek Expert](#) and Lantek Integra software for the sheet metal and structural steel industry in India. The company, [Translanteck Nesting & Automation India Pvt. Ltd.](#) is based in Bangalore, which is one of the major industrial regions of the country.

[Lantek](#) already has some major customers [in India](#) including JCB Manufacturing India, Thyssen Krupp Industries India p.t., Hindustan Aeronautics Limited which manufactures gas turbine engines, helicopters and military aircraft, Hindustan Shipyard Limited, Indian Railways and Tata Marcopolo Motors Ltd which produces around 95 buses per day.

The reseller will be responsible for building on the key accounts which [Lantek](#) has in the subcontinent, providing technical support for existing users and increasing market share. As a leader in the sheet metal and structural steel industry, Lantek has powerful software solutions which optimise the performance of its customers' machinery and maximise material utilisation through highly efficient automated nesting. The company also offers software which delivers accurate and fast quotations, enabling customers to win higher volumes of profitable work. Its ERP systems control costs through real time monitoring and reporting on every aspect of a manufacturer's business including purchasing, production, stock levels, quality and customer relationships.

Muralidhar Dharma Rao, Director at [Translanteck Nesting & Automation](#) says, "Lantek is very well known in the industry and its products are world class. We will be using our skills and expertise to significantly expand the use of the software within the country. The sheet metal industry in India is growing rapidly, and there is an appetite for new technology which speeds up production and produces savings in material usage."

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Alberto Martinez, CEO Lantek says , “85% of our turnover comes from international business, so increasing our presence in the Indian market is extremely important for us. By working in partnership with [Translanteck Nesting & Automation](#) we will be able to have local representation from experts in the sheet metal industry. They will be able to use their knowledge of the market to rapidly expand our customer base with the full support of our technical specialists.”

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MSC Software and Griffith University Announce a Collaboration Focused on Education & Science
30 May 2014

[MSC Software Corporation](#) announced the adoption of a complete [50-user Finite Element Analysis \(FEA\) package](#) comprised of [Patran](#), [MSC Nastran](#), [Marc](#) and [Dytran](#) at Griffith University in Australia, with a service contract for the next six years.

Griffith University (GU) is Australia's ninth largest higher education provider. More than 120,000 graduates from over 156 countries have passed through GU's doors. The school is equipped with several state-of-the-art computer laboratories and operates two High Performance Computing (HPC) systems which support analyses and simulations that require high-end computational capabilities, including parallel processing. Furthermore, many academic research projects performed at Griffith school of Engineering require adequate simulation tools. MSC Software's FEA bundle provides the flexibility to address a range of academic research areas.

"The MSC Software FEA bundle gives us the best flexibility in education and academic research. Our undergraduate students will be trained on the versatile pre/post-processor Patran in combination with the nonlinear finite element solver Marc. Our future Master of Engineering program on Engineering Design and Computation will also include MSC products as a key element for the practical training of our students," said Professor Andreas Oechsner, Head of the Discipline, who developed a new finite element course (Computational Statics and Dynamics) recently in the bachelor of engineering program.

"I am pleased that our proven software continues to receive industry-driven academic priorities in Universities," said Alias Isa, MSC ASEAN, Country Manager/Regional Director. "Preparation of specialists with practical skills in solving real engineering problems using modern simulation technologies is what is needed for the development of high-tech industries in Australia. Effective use of MSC technology in the educational process & research will continue to expand with our support."

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Siemens Invests More Than \$1 Billion in Software Grants for Virginia Schools to Educate and Train Workers for Manufacturing Industry

4 June 2014

Today from the [Commonwealth Center for Advanced Manufacturing](#) (CCAM), an applied research center that provides production-ready manufacturing solutions, Siemens announced more than one

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billion dollars of in-kind software grants for manufacturing programs at community colleges and universities in Virginia. Students will now have access to the same Siemens product lifecycle management (PLM) software used throughout the global manufacturing industry to design, develop and manufacture some of the world's most sophisticated products in a variety of industries, including automotive, aerospace, consumer products, medical devices, machinery, shipbuilding, apparel and high-tech electronics.

The series of in-kind grants was established as a result of an industry need for skilled workers and is designed to support the state's largest industrial employer, Newport News Shipbuilding, a division of Huntington Ingalls Industries, and other companies with local ties such as Rolls-Royce. The grants are part of ongoing workforce development collaboration among community colleges, universities and organizations like CCAM, the [Virginia Manufacturers Association](#) and the Southern Virginia Higher Education Center (SHVEC) – an organization that provides workforce training to the rural population.

“The manufacturing industry in America is on the rise and is being transformed by a software revolution that is enhancing productivity, increasing efficiency and speeding time to market,” said Chuck Grindstaff, president and CEO, Siemens PLM Software. “Here in Virginia where shipbuilding is core to the state's economy, it's important we equip students with the tools that will help them build the world's most complex ships for the U.S. Navy, such as the Gerald R. Ford class of aircraft carriers.”

Seven academic partners throughout the state are receiving in-kind software grants to support curriculum and training programs including:

- **Thomas Nelson Community College** – \$954.7M: Siemens software will support training in manufacturing process analysis and lifecycle management to expand and modernize manufacturing curriculum in design and process technologies for up to 400 credit students and 2,600 noncredit workforce students to address workforce development needs for area employers, to include Newport News Shipbuilding.
- **New River Community College** – \$64.3M: Siemens' software to be used in the school's new the NRCC MakerSpace Lab.
- **Old Dominion University** – \$746M: An academic member of CCAM, the grant will help ODU further expand the Virginia Community College System (VCCS) workforce training programming that provides direct benefits to the regional maritime industry, especially Newport News Shipbuilding and the U.S. Department of Defense. The software will be integrated into existing undergraduate and graduate curriculum and help develop a PLM center of excellence with a focus on marine engineering.
- **Virginia Commonwealth University** – \$230.9M: From robotics to biomechanics, the School of Engineering is partnering with School of Business to develop a program in manufacturing and logistics.
- **Virginia State University** – \$105.6M: The software will support six programs at VSU, an organizing member institution of CCAM: Manufacturing Engineering, Computer Engineering, Computer Science, Electronics Engineering Technology, Logistics Technology and Mechanical Engineering Technology.
- **ECPI University** – \$130.3M: The Engineering Technology department will use this software to support hands on practical application and directly benefit industry through three programs – Electrical Engineering Technology, Mechanical Engineering Technology and Mechatronics (Advanced Manufacturing).

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- **Southern Virginia Higher Education Center** – \$33M: In addition to a \$94M in-kind software grant last fall, SVHEC is expanding its use of Siemens PLM software to support digital manufacturing.

“This grant will allow Thomas Nelson to provide our students and community with access to state-of-the-art education and training in these high demand technology industries,” said Thomas Nelson President John Dever. “The Siemens software will have a significant economic impact to Hampton Roads and will allow Thomas Nelson to increase the number and quality of curricular offerings to the growing workforce in our region.”

“We are tremendously appreciative of this grant from Siemens PLM, which represents state-of-practice software for managing every aspect of product information from its development, design, manufacturing, to its support and maintenance,” said Old Dominion University Dean Oktay Baysal. “The software will be integrated into existing as well as new undergraduate and graduate curriculum and will help develop a Product Lifecycle Management center of excellence with a focus on marine engineering.”

Virginia Commonwealth University Dean Barbara D. Boyan, Ph.D. said, "This software gives us the ability to educate on a very practical level. By teaching with programs used in industry, our students will be even more prepared for the real world.”

“These grants from Siemens epitomize the collaborative partnerships that CCAM represents,” said VSU President Keith T. Miller. “The research these funds will allow us to accomplish will, in turn, be returned to our CCAM partners and utilized in their processes.”

“I remember vividly the day when I was first introduced to the Siemens PLM system,” says ECPI University Virginia Beach Campus President Kevin Paveglio. “I was so impressed with what they had developed that it caused me to reflect on my 27 years in advanced manufacturing. We are excited to be partnered with such a forward-thinking company as Siemens. The PLM software package fills a tremendous need, providing the interoperability software component that will take the industry to new levels of performance. In combination with our hands-on application engineering, this PLM software system will add even more value to our students skill set as they enter and continue to support industry.”

“We are excited to expand our partnership with Siemens as we grow our digital manufacturing and Mechatronics capabilities,” said Dr. Betty Adams SVHEC Executive Director. “This investment strengthens our continuing efforts to meet the needs of employers and prepare students for significant high-paying STEM careers.”

As software plays an increasing role in the next era of manufacturing, students and faculty will use the software in assignments and research related to computer-aided-design, engineering simulation, industrial design, digital manufacturing and manufacturing management. The in-kind grants will also help to expand and modernize manufacturing curriculum in design and process technologies. By using the software in their course work, academic and research projects, students can develop the advanced skills sought after by the more than 77,000 customers who utilize Siemens’ software and technology solutions worldwide. This includes nearly 90 companies throughout the region and Commonwealth of Virginia who rely on Siemens’ PLM and CAD software including employers such as: Newport News Shipbuilding, Rolls-Royce and Orbital Sciences Corp.

Newport News Shipbuilding is transitioning to this software for use on the next class of aircraft carriers, the Gerald R. Ford class for the U.S. Navy. Longer than three football fields, this is the most complex ship in the world, and it can accommodate a crew of about 4,500 sailors and more than 75 aircraft. To better address the shipbuilding industry’s requirements, Siemens PLM Software maintains a

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Shipbuilding Center of Excellence in Newport News, VA, to help the shipbuilding industry create value by optimizing its use of PLM software. Siemens announced in March the creation of a Shipbuilding Catalyst, a pre-packaged combination of industry-specific best practice guides, templates and tailored software that integrates and synchronizes shipbuilding operations across the supply chain.

“Manufacturing is the most sophisticated, forward-looking and innovative business function in the world today, and we need to let students, parents and administrators know what these jobs look like and what students need to learn in order to get them,” said Eric Spiegel, president and CEO, Siemens USA. “This partnership can serve as an economic catalyst for the region, the state and the country.”

In addition to today’s announcement, Siemens has already invested more than \$1 billion providing software to several Virginia academic institutions including CCAM, SVHEC, Virginia State University, Virginia Polytechnic Institute, and the Lee County Career and Technology Center. As part of this effort, Siemens is also working with the [Virginia Manufacturers Association](#) on a credentialing pathway at community colleges for manufacturing technicians as well as to improve the perception of careers in manufacturing. This work is being done through the Dream It. Do It. Virginia (DIDIVA) network, a free career resource tool built by Virginia's advanced technology sector to help individuals learn more about exciting fields of possible future employment.

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Siemens Maintains Top Spot in Analyst’s PLM Software Ranking for 13th Straight Year

5 June 2014

Siemens has been recognized by leading product lifecycle management (PLM) management consulting and research firm, CIMdata Inc., as the market presence leader in the collaborative Product Definition management (cPDM) market segment for the 13th year in a row, and in the Digital Manufacturing market segment for the ninth year in a row. Additionally, as a result of its expanding family of software for simulation and analysis (S&A) – including the acquisition of LMS – Siemens improved its market leadership position to fourth in the S&A ranking, up six positions from the 2013 report. CIMdata’s findings are based on in-depth data and analysis of the global PLM market and were announced earlier this month.

Siemens’ PLM software business unit addresses CIMdata’s cPDM category with its Teamcenter® portfolio, the world’s most widely used digital lifecycle management software, while its Tecnomatix® portfolio is the most widely used software in the digital manufacturing market segment. The S&A market segment is addressed by Siemens with a rich portfolio of computer-aided engineering analysis (CAE) offerings including the CAE modules of NX™ software, NX Nastran® software, Femap™ software and the LMS™ solutions portfolio, which incorporates model-based mechatronic simulation, a broad CAE simulation offering, and advanced testing solutions in the product development process.

“According to our market research, Siemens continues to lead the way in cPDM and Digital Manufacturing and has seen significant growth in S&A revenue,” said Peter Bilello, President of CIMdata. “This bodes well for Siemens as all three of these essential categories continue to grow and our data suggests that growth will continue well into the future.”

Over the next five years, CIMdata forecasts the comprehensive cPDM market segment will experience a compound annual growth rate (CAGR) of 5.2 percent, resulting in a projected market size of

approximately \$6.2 billion by 2018, based on total software and services investments. CIMdata also expects Digital Manufacturing growth will continue with a projected five-year CAGR of 4.1 percent, while the S&A segment is estimated to see strong and steady growth with a five-year CAGR of nearly eight percent. Overall, mainstream PLM is expected to continue to grow as a key enterprise investment, with CIMdata reporting a forecasted five-year CAGR of over 4.8 percent.

"Siemens has a consistent track record of leadership in key areas of PLM, including cPDM and Digital Manufacturing," said Chuck Grindstaff, president and CEO, Siemens PLM Software. "This latest report illustrates our commitment to maintaining leadership in these two disciplines, which are of critical value to our customers. In addition, our strong focus on simulation and analysis will help our customers continue to address the increasing complexity of tomorrow's product innovations."

More detail will be available in CIMdata's upcoming 2013 PLM Market Analysis Report.

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Events News

3D Systems brings 3DPRINTING 2.0 to China's International Die and Mould Expo (DMC) 2014

2 June 2014

[3D Systems](#) announced today that it will bring its personal and professional 3D printing products with its 3D authoring software tools to China's [International Die and Mould Technology and Equipment Expo \(DMC\) at Shanghai International Expo Center, E1 – E6 Hall, booth E2 #B075, Shanghai, June 4 – 7, 2014](#).

3DS plans to demonstrate its powerful 3D design-to-manufacturing products that are specifically designed for the production floor and the engineer's desktop. The company invites attendees to experience the first and only professional full-color plastic 3D printer, try its fab-grade multi-materials 3D printer, and see the output of its latest direct metal 3D printers, all capable of printing fully functional parts and assemblies and available for immediate purchase.

Showcasing key components of 3DPRINTING 2.0, 3DS' lineup will include demonstrations of its latest 3D printers, 3D engineering and design software, and samples from its diverse materials capabilities including direct metal, full-color plastic, multi-material and production grade Selective Laser Sintering (SLS®) and Stereolithography (SLA®). The following highlights will be on display:

First and only full-color plastic 3D printer – The ProJet® 4500 3D printer is the first and only continuous tone, full-color plastic 3D printer and delivers ready-to-use vibrant, durable and flexible plastic parts straight out of the printer in high resolution for a wide range of modeling, functional prototyping and real-use products with superior surface finish. The ProJet 4500 builds with a new class of sustainable VisiJet® C4 Spectrum materials. The ProJet 4500 is now shipping.

High performance simultaneous multi-materials composite printing –The ProJet® 5500X simultaneously prints and fuses together flexible and rigid material composites layer by layer at the pixel level in a variety of colors and shades including opaque, clear, black or white and numerous shades of gray. The ProJet 5500X is now shipping.

Integrated scan-to-design and inspection tools and print drivers – The company is demonstrating Geomagic® Capture®, the industry's first integrated scan-based design and inspection solution, along

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with its suite of Geomagic software solutions.

Smallest, most economical, precision 3D parts – The ProJet® 1200 is a new \$4,900 micro-SLA 3D printer that is ideal for small, precise, detail-rich parts and casting patterns, such as jewelry, electronic components and dental wax-ups. With a smaller than a coffee maker footprint, all-in-one cartridge and integrated curing cell, it is economical to own, safe to operate anywhere and simple to use. The ProJet 1200 is available today at 3DSystems.com and through affiliated resellers.

3DS' local resellers Shanghai Forever Tech, RoadAhead, and Shining 3D will also present at DMC individually and showcase 3DS' products. Attendees are invited to learn more about the company's Design-To-Manufacturing Products at its resellers' booths.

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Altair 2014 Global ATC/ATCx Series Offers Advanced Topics in Simulation and Optimization

3 June 2014

[Altair](#) announced its 2014 Global Altair Technology Conference (ATC) and ATCx Series today. ATC events will continue to cover a wide array of topics, industries, and computer-aided engineering domain areas, and last for two to three days. The new ATCx designation has been created for smaller, focused one-day events that offer more depth in a specific topic and/or industry. ATCx topics to be explored include aerospace, multiphysics, lightweighting, energy, automotive, marine, heavy industry/machinery, shipbuilding, marine/offshore, and defense. In addition, several locations will also offer concurrent student seminars, bringing together academic researchers and industry practitioners to share best practices and lessons learned. Flagship ATC events will be held June 24-26 in Germany, July 10-11 in China, and July 17-18 in Japan.

Presenters from leading companies will showcase their experiences and successes leveraging Altair tools for design and product development. The latest trends, developments, and applications in the field of simulation-driven design and optimization will be highlighted. In addition, subject matter experts from Altair will speak on a wide variety of topics and demonstrate the company's technology, including industry-leading solvers (OptiStruct®, RADIOSS®, MotionSolve®, and AcuSolve®), the advanced pre-/post-processing tools available on the HyperWorks® platform, and high-performance computing tools and applications.

Notable exhibitors and sponsors of the 2014 series include HP, Intel, nVidia, HBM nCode, Cray, SGI, EMSS, Moldex3D, Key to Metals, Quantech, NEC, Fujitsu, ThermoAnalytics, AlphaSTAR, Componeering, Cedrem, FLUIDON, Ingenieurbüro Huß & Feickert GmbH, JSOL, Magna Powertrain Engineering Center Steyr GmbH & Co KG (FEMFAT), Nafems, NovaCast, Part Engineering, PDTec, Quantech, Renishaw, Software Cradle, TAI Thermo Analytics Inc., and Total Materia. Online registration and detailed agendas are being made available on a rolling basis at <http://www.altairatc.com>.

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CimatronE German User Meeting Features Leading Industry Experts

2 June 2014

CIMdata PLM Industry Summary

[Cimatron Limited](#) announced today that the latest version of its acclaimed integrated CAD/CAM software, CimatronE 12, will be previewed at a user meeting to be held in Fulda, Germany, on June 5-6, 2014.

"As German industry continues its rapid growth, Cimatron is proud to play its part in meeting the design and programming needs of tool shops across the country," said Mr Dirk Dombert, Cimatron's General Manager for Germany.

"Enhancing our customers' productivity remains at the forefront of our efforts, and at our forthcoming user meeting we look forward to providing our customers with insights from some of Germany's leading experts in corporate development, organizational behavior, manufacturing and machining. This is in addition to presenting a preview of the latest version of our integrated software - CimatronE 12 - which offers dramatic time and cost savings across the entire CAD/CAM process."

Leading industry experts to present at the event will include:

- Professor Dr. Thomas Seul, president of the VDWF, the German association of die and mold makers, presenting on "Strategic approaches to actualizing corporate potential".
- Walter Burgstaller, CEO of project organization software company AXAVIA, on "Modular engineering data management for CimatronE".
- Lutz Schaller, sales director of leading mold component manufacturer Meusburger, on "Standardized mold and die components for tool makers".
- Holger Heimerdinger, project and sales manager of clamping systems manufacturer Partool, on "Innovative clamping systems for more efficient manufacturing".
- Andreas Schulz, marketing director at Certa Systems, which specializes in software and process consultancy for tool and mold construction, speaking on "EDM - meeting the challenge of automation".
- Markus Narr, application specialist at machine tool manufacturer Berthold Hermle AG, on "Precision demands for 5-Axis Milling".

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Delcam to Hold CAD/CAM Workshop during CIMES Exhibition

4 June 2014

Delcam will host a workshop on CAD/CAM developments during CIMES (China International Machine Tool Exhibition) in Beijing from 18th to 22nd June. The workshop will include demonstrations of new functionality in Delcam's PowerSHAPE Pro CAD software, in the PowerMILL CAM system and in the PowerINSPECT inspection software. For the full programme and an invitation, please email zxw@delcam.com.cn.

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The 2014 R2 release of PowerSHAPE Pro includes a range of new functionality for the design of products and tooling. In particular, the new version introduces powerful new tools to make re-engineering complex parts from scanned data faster and easier, plus an option to merge disjointed faces within a solid and so make direct modelling operations more robust.

By offering a combination of solid, surface and direct modelling, together with reverse engineering functionality, PowerSHAPE Pro provides the most comprehensive range of design techniques available in a single CAD program. Having all the different technologies in the same package reduces the need to transfer data between multiple programs and so streamlines the whole product development process. At the same time, the combination of quick and easy direct modelling options, together with powerful and flexible surface modelling, makes PowerSHAPE Pro the perfect choice for design for manufacture.

The 2014R2 release of PowerMILL CAM software includes new options for high-speed and five-axis machining of parts and tooling with unprecedented speed and accuracy. New simulation and customisation tools, plus greater editing flexibility, give even greater opportunities to minimise programming times and reduce manufacturing times.

A series of improvements to Delcam's unique Vortex high-efficiency area-clearance strategy is also included in the new release. Vortex gives fast, safe metal removal by allowing solid carbide tooling to cut with its full flute length so minimising machining times. At the same time, Vortex toolpaths use a controlled engagement angle between the cutter and the part, and so give a more consistent volume-removal rate and feedrate, minimising wear on the cutter.

PowerINSPECT 2014 features a new interface with new icons that makes the software more intuitive and even easier to use. Other enhancements in the new version include the ability to create compound items and so speed up and simplify repetitive measurements.

The new interface has been developed to further improve the ease of use that has been central to PowerINSPECT becoming the world's leading hardware-independent inspection software. Over the last few releases, the software has seen a significant increase in the range of measurements that it can make. The software can now be used to take all types of simple measurements and to inspect a growing variety of geometric features, as well as offering more tools for analysing complex 3D surfaces. In addition to making it easier to negotiate the greater range of options, the interface features freshly-designed icons, which give a cleaner look and feel to the software.

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Delcam to Launch PowerMILL 2015 for High-Speed and Five-Axis Machining at IMTS

6 June 2014

Delcam will launch the 2015 version of its PowerMILL CAM system for high-speed and five-axis machining at IMTS 2014 in Chicago from 8th to 13th September on booth E3222, the largest CAM software booth at the show. The new release will include improvements to the Vortex high-efficiency area-clearance strategy, improved collision checking to also cover near misses, and more efficient raster finishing.

For more information on PowerMILL, please go to www.powermill.com

The Vortex area-clearance strategy produces safe toolpaths with a much deeper cut by using a controlled

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engagement angle that maintains the optimum cutting conditions for the whole toolpath. As a result, higher feed rates and material-removal rates are possible, making the cutting time shorter by as much as 70%. In addition, cutting is undertaken at a more consistent volume-removal rate and at a near constant feedrate, so extending tool life and protecting the machine.

Two enhancements in PowerMILL 2015 will give even greater reductions in machining time compared to conventional roughing. The first change allows toolpaths to approach the part from outside the stock at the cutting height for open pockets or in areas where earlier cuts have made this possible. Previously, all entry moves had to be made by plunging onto the surface or by ramping into the material.

The second change allows an increased feed rate to be set for non-cutting moves. The default value is set at double the rate for the cutting moves but this can be altered as required for each machine tool. The extra time that can be saved depends on the shape of the part but an additional saving of around 20% should be expected above the earlier releases of Vortex.

Another problem in previous versions of PowerMILL was that unnecessary lifts could be added to area-clearance toolpaths when the cutter moved outside the stock or close to its edge. Changes to the roughing algorithm have now reduced the number of lifts per toolpath slice to the minimum needed and so made area clearance much more efficient.

Companies using PowerMILL for either positional or continuous five-axis machining will benefit from improvements to the collision checking within the software. Firstly, collision checking has been changed so that warnings can also be flagged for near misses. The user can now specify a clearance value and when the machine tool comes within this value it will turn yellow in colour to highlight a near miss. Collisions will still be shown by a change of colour to red.

Secondly, the display showing the list of collisions, and now near misses as well, has been updated to be easier to read, making it simpler to extrapolate the coordinates at these points. For near misses, the clearance distance is shown in the display, with the distance shown as zero for collisions.

Another improvement will help companies using four- or five-axis machines with trunnions or similar tilting tables. Previous PowerMILL toolpaths could exhibit unwanted changes of azimuth as the cutting tool approached a position vertical to the part. This would slow down the machine, often to the extent that a witness mark would be left on the surface. New options are now available to specify the information used by PowerMILL to distribute the toolpath points so that the machine's gimbal-lock position is avoided and a smoother motion results.

Raster finishing has also been improved in PowerMILL 2015, with the software now able to set automatically the most appropriate angle for each region of the part. In previous versions, the user had to select each area and specify the angle manually. The new option, which provides the same functionality that already existed for steep-and-shallow finishing and face milling, is most beneficial when finishing a series of pockets aligned in different directions.

A number of improvements have been made to the PowerMILL interface. Most important is a clearer form for the strategy selector that makes navigation easier when choosing which strategy to use. It has also been made easier to create folders of strategies, for example, those most suitable for a particular machine tool, material or type of part, and to add and remove strategies from those folders.

Finally, three new curve-creation options have been added to the curve editor – ellipse, spiral and helix. These options can be used to create patterns or boundaries when generating toolpaths.

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Delcam to Preview Uniquely Flexible PartMaker 2015 at IMTS

4 June 2014

Delcam's PartMaker Division will unveil the 2015 version of its PartMaker CAM software for programming CNC mills, lathes, wire EDM equipment, turn-mill centres and Swiss-type lathes at IMTS 2014 in Chicago from 8th to 13th September on booth E3222, the largest CAM software booth at the show. Major highlights of PartMaker 2015 include improved support for today's latest breed of multi-tasking machine tools, more powerful milling and turning functionality and a unique approach to post-processing for multi-axis turn-mill centres and Swiss-type lathes, among other productivity enhancements.

"The innovations in PartMaker 2015 further cement the software's position as the preeminent CAM system on the market for programming of multi-tasking machining applications," said PartMaker Division President, Hanan Fishman. "PartMaker 2015 extends support of the product's patented approach to programming multi-tasking machine tools to support today's latest breed of multi-function machines."

"Additionally, the power of the machining algorithms driving PartMaker will be enhanced in Version 2015, giving our users even more capability while retaining the software's trademark ease of use," continued Mr. Fishman.

PartMaker 2015 includes specialist support for a new breed of machine tools that has been growing steadily in popularity in recent years called vertical mill-turns. These machine tools are unique because they combine the functionality typically found on a vertical-turret lathe with that of a five-axis vertical machining centre. PartMaker 2015 will also offer support for turret-based Swiss lathes with programmable B-axis live tooling attachments.

Also headlining PartMaker Version 2015 is a unique approach to post-processing for multi-tasking machine tools. This new approach includes a variety of improvements to the software's post-processing technology and new software functionality to help guide users on how to best take advantage of the unique capabilities their specific multi-tasking machine tools.

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hyperMILL® to be Presented at a Trade Fair in Indonesia

5 June 2014

OPEN MIND Technologies AG is presenting for the first time at Manufacturing Surabaya (11 to 14 June 2014 in Surabaya, East Java, Indonesia). OPEN MIND will introduce the CAM solution *hyperMILL*® Version 2014.1 at their local distributor's stand – PT Jaya Metal Teknika.

The CAM system *hyperMILL*® is the ideal link between design and manufacturing. Its machining strategies comprehensively exhaust the possibilities of modern machining centres. OPEN MIND will present a visualisation solution with the new *hyperMILL*® ShopViewer in Surabaya. Manufacturing processes can be checked and simulated next to the milling centre on the monitor.

hyperMILL® ShopViewer noticeably improves the traceability of the manufacturing process with display, analysis and documentation of processed CAD/CAM data in the workshop.

Optimized CAD for CAM users

There are more new features in *hyperCAD*[®]-S, the CAD section of the CAM Suite: The "deformation" module for the targeted deformation of geometries is a powerful modification tool. It allows the global or local modification of component areas, which is otherwise only possible with elaborate modelling techniques.

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iBASEt to Host The 3D Model-Based Enterprise Value Chain Presentation at PTC Live Global

3 June 2014

iBASEt's Conrad Leiva, Vice President of Product Marketing and Alliances, will give a presentation at PTC Live Global on "The 3D Model-Based Enterprise Value Chain - Integrating Manufacturing, Suppliers and Aftermarket Services" on Tuesday, June 17 at 4:45 p.m. at the Boston Convention and Exhibition Center, room 105.

Today's marketplace demands faster new product introduction, better orchestration of the supply chain and higher quality standards. To achieve all these goals in industries with highly complex products it is necessary to have tight integration and streamline the change management processes across the extended value chain for the entire product lifecycle. These change management processes include managing the transitions from engineering BOMs to manufacturing BOMs to process plans to work in process, managing product characteristics tied to inspection plans, and managing product configurations for upgrades and modifications performed during MRO.

Processes discussed include engineering change management, engineering change requests, engineering disposition for non-conformances and engineering corrective actions. Applications discussed include Supplier Quality Management, Manufacturing Execution System (MES), and Maintenance, Repair and Overhaul (MRO) software solutions from iBASEt and how integration to Windchill and Creo are critical to the streamlined business processes needed for increased productivity, quality and regulatory compliance.

Leiva's speaking engagement will also cover:

- Integration of Engineering, Supplier and Operations business processes
- Integration of information systems providing complete PLM Execution strategy for manufacturers of complex products
- Integrating PLM, Supplier Quality Management (SQM), Manufacturing Execution System (MES), and Maintenance, Repair and Overhaul (MRO)

In addition, Leiva will host an online encore presentation on June 26, 2014 from 10:00-11:00am PDT time. Please [register here](#).

iBASEt will be on the exhibit floor at booth #220.

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CIMdata PLM Industry Summary

IMAGINiT Technologies' Experts Speak at Key Industry Conferences

3 June 2014

[Rand Worldwide](#) announced that its [IMAGINiT Technologies](#) division will have a significant presence at several high profile industry conferences. Through lecture style sessions, IMAGINiT experts will explore some of the most significant topics impacting the design engineering industry including enhancing collaboration, effectively using point clouds, and maximizing the benefits of existing design software. Sessions will be led by IMAGINiT professionals with deep industry knowledge as well as software expertise, ensuring an understanding of both the technology and business implications.

“IMAGINiT’s team of experts draw from industry experience and deep hands-on implementation knowledge to provide tailored advice, insight and training,” says Scott Hale, vice president of services for IMAGINiT Technologies. “Design engineering projects are becoming more complex on every level and our unique vantage point in helping solve our client’s most complex design engineering challenges, gives us the experience to define best practices that we are proud to share with audiences looking to optimize and fully leverage the software tools in which they have invested.”

At the [Hexagon Live Conference](#) in Las Vegas, NV on June 2, IMAGINiT experts Jeff Bowers, business solutions consultant and Daniel Chapek, regional team manager for the infrastructure solutions group, walked attendees through AutoCAD’s point cloud capability as well as highlighted the productivity gains that can be achieved with Leica CloudWorx for Revit.

On June 5, IMAGINiT’s Dino Lustri, civil engineering and surveying consultant, will present at the [Ohio Stormwater Conference](#) in Akron, OH. Dino plans to outline a variety of water resource tools available and help attendees better understand the equations used across multiple applications – from storm and sanitary analysis to hydrographs and more.

Carl Storms, senior applications expert with IMAGINiT, will show attendees at the [Revit Technology Conference](#) in Chicago, IL on June 21 how to leverage the power of the cloud for design collaboration using Autodesk Revit and Autodesk BIM 360 Glue. Attendees will learn how to round-trip collaboration data from Revit to Glue to Revit and back again.

Beau Turner, business development manager at IMAGINiT, will also speak at the Revit Technology Conference in Chicago, IL on June 19 about automating deliverables from Autodesk Revit and Revit Server. Beau will discuss how IMAGINiT Clarity provides project teams with more accessible data automatically, and will supplement his presentation with examples from IMAGINiT Clarity users at MMM Group and Dialog.

To learn the about best practices and how to apply the latest technology to some of the building industry’s toughest challenges, join IMAGINiT experts at their sessions at these upcoming conferences in June. For further information, visit www.imaginit.com.

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OPEN MIND at amerimold 2014 in Novi

3 June 2014

OPEN MIND Technologies AG is presenting at the amerimold from June 11-12, 2014. OPEN MIND

will introduce the CAM solution *hyperMILL*[®] Version 2014.1 at Stand 522 in the Suburban Collection Showplace in Novi MI. OPEN MIND will use the opportunity to address tool and mould manufacturers in the U.S.A at the American offshoot of the successful EuroMold.

The continuous implementation of new technologies, optimizations of existing strategies and extensions, such as the use of new tools, characterize every *hyperMILL*[®] release. New in Version 2014.1: Improvements for reamers, barrel cutters in different designs and lens cutters. Measuring probe support has also been added. The quality assurance processes can be accelerated with the associated cycle 3D point measure.

Colleagues experience at the machine

OPEN MIND provides the machine operator a visualisation solution with the new *hyperMILL*[®] ShopViewer. The ShopViewer allows the machine operator to check and simulate manufacturing processes directly via the monitor. The display, analysing and documenting of processed CAD/CAM data in the workshop improves the traceability of the manufacturing process via the toolpath simulation, the material removal simulation and the internal machine simulation. This allows valuable feedback: Possible errors can be recognised in time by virtual process analyses from experienced machine operators.

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OPEN MIND at Metalloobrabotka in Moscow

2 June 2014

OPEN MIND Technologies AG is presenting at Metalloobrabotka from 16 to 20 June 2014. New features from release 2014.1 of the *hyperMILL*[®] CAM suite will be presented to visitors at the largest trade fair for metalworking industries in CIS. At Stand 2.2. A02, OPEN MIND is set to present the *hyperMILL*[®] Shop Viewer as well as improved automation functions for turbine manufacture.

The user interface of the ‘Single Blade’ application has been improved and simplified. The proven method for the selection of the geometry and to automate the machining of impellers and blisks is now also available for blades.

New tool types

Improvements for reamers, barrel cutters in different designs and lens cutters will be demonstrated within the scope of tool support. Measuring probes are also supported. The quality assurance processes can be accelerated with the associated cycle 3D point measure.

Feedback from manufacturing

OPEN MIND provides a visualisation solution with the new *hyperMILL*[®] Shop Viewer, which allows the machine operator to check and simulate manufacturing processes directly via the monitor. The *hyperMILL*[®] Shop Viewer serves to display, analyse and document processed CAD/CAM data in a location that is close to the workshop. The traceability of the manufacturing process is noticeably improved via the toolpath simulation, the material removal simulation and the internal machine simulation. Possible errors can be recognised in time by virtual process analyses from experienced machine operators.

CAD deformations

CIMdata PLM Industry Summary

hyperCAD[®]-S, the CAD program of the *hyperMILL*[®] suite, has been supplemented with the 'Deformation' module, with which targeted geometries can be deformed. This powerful modification tool allows the global or local modification of component areas, which is otherwise only possible with elaborate modelling techniques.

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PROLIM Sponsors THE BIG M 2014 Event

4 June 2014

This event is an unprecedented event to celebrate manufacturing in the country and for showcasing the latest trends in manufacturing industry to educate industry leaders and educators.

“PROLIM is happy to sponsor and participate in such a great conference to help our current and future customers to focus on shaping the manufacturing and will engage those industry leaders who will solve the challenges in the manufacturing industry,” says Prabhu Patil, President of PROLIM.

PROLIM takes the “next-step-change” with THE BIG M event to include a stronger focus on manufacturing and fulfilment. PROLIM has served practitioners, companies, educators and communities across the manufacturing spectrum for more than 10 years. PROLIM is specialized in manufacturing cost reductions from 20 to over 50%, with best practice in engineering and excellent global manufacturing network.

The Big M Event aims to provide the practitioners a unified platform to present dynamic, hands on and interactive learning experience within the field of skills gap, global competition, new technologies like 3D printing, cyber security, supply chain and more. This event offer collaborative opportunities to encourage interaction between attendees, exhibitors and industry leaders for one-on-one consultations.

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Financial News

Agilent Technologies Announces Adjustment to Second-Quarter 2014 GAAP Net Income

5 June 2014

Agilent Technologies Inc. today announced that the company's second-quarter 2014 GAAP net income was \$139 million, or \$0.41 per share, a change from the second-quarter GAAP net income of \$150 million, or \$0.45 per share, previously announced May 14, 2014.

As disclosed in the company's quarterly report on Form 10-Q filed today, this change was made as a result of an out-of-period adjustment for tax expense. There have been no changes to the second-quarter 2014 non-GAAP net income of \$244 million, or \$0.72 per share⁽¹⁾, previously announced by the company May 14.

To view an unabridged version of this press release, visit:

<http://www.agilent.com/about/newsroom/presrel/2014/04jun-gp14017.html>

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Autodesk to Webcast Its Annual Meeting of Stockholders

3 June 2014

[Autodesk](#), Inc. today announced that it will broadcast its annual meeting of stockholders live via its website on Tuesday, June 10th at 2:30 p.m. Pacific Time. The live webcast will be available through Autodesk's Investor Relations website at www.autodesk.com/investors. Please go to the website at least 15 minutes early to register, download and install any necessary software. For more information, please call Autodesk Investor Relations at 415-507-6705.

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Oracle Sets the Date for Its Fourth Quarter Fiscal Year 2014 Earnings Announcement

4 June 2014

Oracle Corporation announced that its fourth quarter fiscal year 2014 results will be released on Thursday, June 19th, after the close of the market. Oracle will host a conference call and live webcast at 2:00 p.m. Pacific Time to discuss the financial results. The live webcast will be available on the Oracle Investor Relations website at www.oracle.com/investor.

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Stratasys Announces Annual General Meeting of Shareholders

5 June 2014

Stratasys Ltd. announced that it will hold its Annual General Meeting of Shareholders (the "Meeting") on Thursday, July 10, 2014, at 9:00 a.m. U.S. Central Time, at the Stratasys NASH Building, 9600 West 76th Street, Eden Prairie, Minnesota. The record date for shareholders entitled to vote at the Annual Meeting is Tuesday, June 10, 2014.

To view an unabridged version of this press release, visit:

<http://investors.stratasys.com/releasedetail.cfm?ReleaseID=852629>

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Implementation Investments

Barilla Adopts Dassault Systèmes' 3DEXPERIENCE Platform Based on V6 Architecture to Digitally Orchestrate Product Labeling Worldwide

5 June 2014

CIMdata PLM Industry Summary

[Dassault Systèmes](#) announced today that Barilla, the global leader in the pasta industry, chose its “Perfect Package” industry solution experience to improve the package labeling creation process across its worldwide organization. With “Perfect Package”’s artwork and labeling capability, Barilla has streamlined label design and approval, reduced artwork design time and improved regulatory compliance.

In order to drastically reduce packaging development times and costs, Barilla needed to streamline the artwork and labeling creation process and provide all its stakeholders with secure, digital access to all the elements of the package including copy, logos and designs.

Orchestrating the design of effective packaging across 1500 brands in 100 of countries is an extraordinarily complex process. It is a collective effort of various internal departments and external art agencies to ensure each of the thousands of packages sold by Barilla has the right copy, the right look and feel and adheres to consumer expectations and international regulations.

“Five to eight seconds is all you’ve got. That’s how long it takes shoppers to find and select the right product for their family,” said Monica Menghini, Executive Vice President, Corporate Strategy, Industry & Marketing, Dassault Systèmes. “As you can imagine, a company spends a lot of time getting that moment of truth *just right*. This is the focus of our ‘Perfect Package’ industry solution experience.”

Based on the 3DEXPERIENCE Platform, “Perfect Package” provides Barilla’s stakeholders with a dedicated labeling solution and secure digital access to its most up to date product information. Stakeholders no longer need to exchange paper samples, thus reducing new labeling creation cycle time. This accelerates label design and approval while improving quality and lowering label creation costs. It also ensures designs and intellectual property that previously resided at external agencies is being brought back to Barilla.

“With the 3DEXPERIENCE Platform, all our stakeholders can collaborate from idea generation to validation of the final Barilla package using a digital representation of the same master label,” said Marco Rossi, IT Business Process Support Director at Barilla. “No more working on outdated samples and making decisions that have to eventually be rescinded, which drove our costs up and our response time down. With this solution, we can digitally exchange ideas faster, more intuitively, and with few to no packaging recalls.”

“With our ‘Perfect Package’ industry solution experience, our goals are similar to Barilla’s: generating experiences that will enable our clients to delight *their* clients,” said Philippe Loeb, Vice President, Consumer Packaged Goods, Dassault Systèmes. “We are happy Barilla chose Dassault Systèmes’ innovative solutions to create an enjoyable experience for its clients that begins in the store and continues on to the dinner table with family and friends.”

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CAMWorks® helps modernize Godrej Process Equipment Division

5 June 2014

[Geometric Limited](#) announced that through usage of its solids-based CNC programming solution, CAMWorks, Godrej’s Process Equipment Division (PED) has seen quantum improvements in machining processes.

CIMdata PLM Industry Summary

Godrej Process Equipment Division (PED), part of Godrej and Boyce Manufacturing Company, manufactures custom-built and critical equipment for the process industry. The company has embarked on a modernization drive to fulfill customer demands for faster deliveries, while improving process efficiency and quality.

One of the key products that Godrej PED manufactures is pressure vessels. These gigantic equipments comprise of thick pressure vessel tanks that have multiple inlet and outlet nozzles. The main challenge lay in the accurate profiling of these nozzle-weld-profiles to fit the mating part so that the ensuing welding process would have a smoother transition. They, therefore, needed a tool that ensured consistency and repeatability.

CAMWorks addressed this need, by using Automatic Feature Recognition (AFR) to consistently define features and mapping them to an intelligent knowledge database, TechDB™, to determine the machining processes. With these two technologies as the backbone, CAMWorks has been able to provide cost effective and simple-to-use software to Godrej PED with its advanced 3-Axis module to create the machining program for the WEP of nozzles and their cutouts.

“CAMWorks has helped us in improving the overall quality and productivity. The advanced capabilities have created a whole new automated machining experience, and has been easy to implement with the excellent support offered”, said Mr. Ashwini Kumar Garg, Chief Manager, Godrej PED. “Earlier, process required a lot of manual intervention resulting in inefficiencies in the way profiles were prepared and they lacked consistency, consequently resulting in over usage of significant weld consumables at the later stages. “We have saved approximately INR 2 Mn annually for only the nozzle profiling process. The manual operational time of 100 man-hours has also come down by 60%, thereby ensuing better production rates and consistent quality”, he added.

“We are very happy to partner with Godrej PED in their effort to modernize their processes. Our CAMWorks solution has been configured to interpret the manufacturing intent for machining of the J-welds, and thus ensure that repetitive tasks are standardized consuming less time and money”, said Mr. Sameer Kondejkar, Geometry Technology Solutions Vertical Head at Geometric.

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Cellier Activity from ABB France Chooses Intergraph® SmartPlant® Enterprise Solutions to Maximize Design and Engineering Performance

4 June 2014

Cellier Activity, a solution provider of the Process Automation Division of ABB France, has chosen Intergraph® SmartPlant® Enterprise to improve the quality of its designs and the overall efficiency in plant operations. As a specialized process engineering company offering its expertise to industries such as paper, paint, lubricants and chemicals, Cellier Activity seeks to increase performance and productivity in its facilities to respond to increasingly demanding markets. The selection of Intergraph solutions includes the applications Intergraph Smart™ 3D, SmartPlant P&ID, SmartPlant Foundation, SmartSketch® and SmartPlant Review.

After a benchmark analysis among several vendors, ABB valued SmartPlant solutions features, its contribution to work process improvements and the positive impact in productivity. ABB purchased a set of tools that could provide better integration among disciplines and a holistic approach to executing

CIMdata PLM Industry Summary

design, engineering schematics and document management. The company also valued that SmartPlant is based on Microsoft SQL Server and is not a proprietary database. Intergraph's comprehensive product portfolio will serve the company needs and developments into the future.

"ABB has purchased Intergraph SmartPlant products to increase reliability, reduce down time and maximize output in our facilities, providing better response to increasing demand from the market," said Herve Barlet, Engineering office manager.

Gerhard Sallinger, Intergraph Process, Power & Marine president, said, "We see an increasing number of companies choosing long-term strategic engineering solutions that can grow alongside their challenges and needs and adapt to fast-changing markets. We are proud to work with leading technology and systems contractors, such as ABB, in providing reliable technology solutions and services for the future."

Intergraph's SmartPlant Enterprise offers a powerful portfolio of design and data management solutions, enabling companies in the process, power, and marine industries to capture integrated enterprise-level engineering knowledge for the competitive advantage needed in today's and tomorrow's market. SmartPlant Enterprise solutions enable proven productivity gains, improving engineering efficiency by up to 30 percent. This is why the majority of plants built worldwide are designed using Intergraph solutions.

Intergraph Technical User Forum (TUF) LinkedIn groups provide an online discussion forum for year-round networking between users. To learn more about Intergraph solutions and network with other Intergraph users, visit www.intergraph.com/go/tuf.

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China Euro Vehicle Technology AB is Using MSC Nastran Simulation Solutions

3 June 2014

[MSC Software Corporation](#) today announced that CEVT (China Euro Vehicle Technology AB) based in Gothenburg, Sweden, has used [MSC Nastran](#) advanced nonlinear to design and analyze the vehicle architecture of C-segment cars for Volvo Cars and Geely Auto.

CEVT is focused on developing new modular architectures and key components for Volvo Cars and Geely Auto in the C-segment (small family car segment).

The integrated set of engineering simulation solutions from [MSC Software](#) and [MSC Nastran](#) help CEVT with the advanced linear and nonlinear analysis required in the architecture development program. "The single model approach helps us save time and ensure our high quality standards. We are able to use the same data for NVH, Durability and Nonlinear Analysis," says Anders Werner, Module Team Director CAE.

A vehicle architecture is the integration of a set of common components, defined functional and performance limits, a set of common interfaces, a range of dimensional flexibility, as well as a common manufacturing system. The set of common components and common manufacturing system enables rationalization and raises efficiency. Using the dimensional flexibility and set of common interfaces, different sizes of vehicles can be built on the same architecture. Using differentiated functional and performance limits and set of common interfaces enables building vehicles with completely different brand characteristics on the same architecture, thereby protecting and serving the different needs of

Volvo Cars and Geely Auto.

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Intergraph Smart™ 3D Selected by AMEC

5 June 2014

Intergraph® announces that international engineering and project management company AMEC has chosen to upgrade its investment in PDS® to Intergraph Smart™ 3D technology by transferring its existing PDS perpetual licenses to Smart 3D licenses.

AMEC is a longtime user of Intergraph solutions and is committed to establishing global expertise in Smart 3D, Intergraph's next-generation, data-centric and rule-driven 3D design tool. AMEC will implement Smart 3D across its enterprise to capture new business and support existing projects.

Jacek Morawski, AMEC Americas director of engineering, said, "AMEC has been a longtime supporter of Intergraph solutions. Solutions from Intergraph are highly sought by owner operators and after identifying market trends and seeing the strong adoption of Smart 3D technology, AMEC decided to leverage our PDS investment to the new platform to capture business opportunities and establish a global offering."

Gerhard Sallinger, Intergraph Process, Power & Marine president, said, "We are very pleased AMEC recognizes that Intergraph offers the industry standard solution with Smart 3D. It is a comprehensive solution available for intelligent 3D design and AMEC saw that owner operators identify and prefer Intergraph as the leader in 3D design. AMEC can now deliver projects globally with the 3D workshare while offering the industry-leading solutions its customers are seeking."

Intergraph Smart 3D is the next-generation 3D design solution specifically tailored for plant, offshore, shipbuilding and the metals and mining industries, employing a breakthrough engineering approach that leverages real-time concurrent design, rules, relationships and automation. It is the most advanced and productive 3D design solution that effectively enables optimized design, increasing safety, quality and productivity, while shortening project schedules. Companies in these industries typically report a 30 percent improvement in overall engineering design productivity when using Smart 3D.

For the offshore and marine industries, Smart 3D is endorsed and used by leading offshore and marine companies globally, including the most productive shipyard, the top offshore owner operator, the top fabrication yard and the top classification society in the world. The specific materials handling capabilities in Smart 3D work in combination with all the other functions. These capabilities were developed with direct engagement and feedback from some of the leading materials handling system design companies around the world, and they are used and endorsed by these industry leaders.

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Roki Co., Ltd. of Japan Selects Aras for Enterprise PLM

3 June 2014

Aras® today announced that Roki Co., Ltd., a manufacturer of automotive filtration equipment and

environment-friendly products that improve fuel consumption and reduce gas emissions, has selected Aras Innovator® suite for enterprise PLM to optimize 3D design management. The initial implementation of Aras Innovator will provide E-BOM management, including product configuration management, design change management and CAD integration. Together, this will facilitate Roki's strategy to provide 3D design and real-time collaboration with clients worldwide.

Roki is a worldwide leader in automotive filtration equipment, air and water purification systems, fuel cell systems and cogeneration filter systems. Roki's PLM strategy with Aras will provide the foundation for achieving a 24-hour development cycle that eliminates lag between Roki's multiple foreign R&D centers. For more information please visit <http://www.roki-jp.com>

"We are very pleased that Roki has selected Aras for enterprise-wide PLM," said Peter Schroer, President of Aras. "Roki has historically developed innovative and high-quality products that keep the air cleaner for citizens around the world while helping automotive companies and heavy industry customers improve the efficiency of their own products."

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Vortex in Delcam for SolidWorks cuts machining time by 90% at Promolding

2 June 2014

Delcam's Vortex high-efficiency area-clearance strategy produced a saving of 90% in the time needed to machine the core plate for an injection mould at Dutch company, Promolding BV. Vortex was the main addition to the latest release of the Delcam for SolidWorks CAM software used at Promolding.

Promolding (www.promolding.nl) is an innovative company that transforms high-performance polymer technology into industrial applications. It offers its customers a complete service from product design, via material and process development, to manufacturing, including automation. The company is very active in the use of new and high-tech materials, such as biodegradable materials and technical plastics with extra properties including electrical conductivity and heat conductivity, as well as new technologies for mould production.

Promolding is partner in the EU-funded project FaBiMED (Fabrication and Functionalization of BioMedical Microdevices), and one of its tasks within the project is to manufacture several experimental test moulds. Promolding manufactures its moulds in-house using a five-axis DMG DMU 60 monoBLOCK machine and has used Delcam for SolidWorks to program the machine for several years.

Vortex was first introduced as part of Delcam's PowerMILL software for high-speed and five-axis machining. With the latest version of DFS, the strategy also became available to DFS users, a development that had been awaited by CNC machinist at Promolding, Arjan Markus, since he saw the first release of Vortex in PowerMILL.

He felt that the core plate of an injection mould would be a perfect test for the new roughing strategy. The mould plate was to be machined from tool steel and featured the two cores each 48mm high. The cutting tool chosen was a Seco/Jabro tool of 12mm diameter.

Mr. Markus was able to program the part without difficulty using the knowledge of Vortex he had gained at a recent Dutch Delcam user meeting hosted at Seco/Jabro. The 48mm height was machined in two layers, although Mr. Markus felt confident that it could have been machined in one go if the cutting length of the tool had been long enough. Machining was completed without coolant; only air was used

to remove the swarf out of the way.

The plate was roughed in 45 minutes, whereas conventional area clearance would have taken close to nine hours, a saving in the machining time of 90%. The same afternoon Mr. Markus reported his experience back to Delcam: "Today, I machined roughed about 2,750 sq cm of tool steel in 45 min using Vortex in DFS. In one word: unbelievable! I am definitely going to use this method again! The cutting sounded beautiful, the swarf was perfectly consistent and the tool looked unused." Subsequently, he machined the core and several other components of the mould using the same technique.

The machined mould plate is part of an injection mould for the EU project FaBiMed. The aim of FaBiMed is to improve and develop new manufacturing techniques, based on micro-moulding, specifically for biomedical micro-devices. The project aims to reduce the cost of mass production of diagnosis and therapeutic micro-devices which have common problems of small batch sizes, frequent demands for customisation, and micron-scale geometric features. Promolding is a work-package leader and responsible for the mould design and manufacturing as well as for the injection moulding of the micro-devices.

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Product News

Altium Designer Connects with TI's WEBENCH® Power Supply Tools to Fast Track System Design

5 June 2014

[Altium Limited](#) introduced WEBENCH® Altium Connector, a collaborative effort between Altium and [Texas Instruments](#) (TI) to blend TI's award-winning WEBENCH power design and simulation tools with Altium's leading EDA tool suite Altium Designer. This powerful platform provides design engineers with the first end-to-end analog circuit design and simulation environment, including everything from creating the power supply and simulating the complete circuit to creating the printed circuit board (PCB) layout.

The new WEBENCH® Altium Connector is a seamless interface between Altium Designer and TI's online WEBENCH® Power Designer. By downloading WEBENCH® Altium Connector, design engineers are able to create a custom WEBENCH power supply from within the Altium Designer platform. The power supply design can be easily created in WEBENCH, and exported and simulated offline inside Altium Designer, giving engineers the opportunity to further customize and integrate the design into a larger circuit. The offline WEBENCH simulation engine can be used to simulate any analog circuit created in Altium Designer.

"For almost 30 years, we have remained focused on delivering next-generation electronics design tools that help designers innovate, while still meeting their core business objectives," stated Jason Hingston, CTO at Altium.

"With the addition of WEBENCH Altium Connector, engineers now have access to the industry's most complete and powerful end-to-end analog circuit design creation and simulation environment to help speed product development time and reduce overall costs."

"By bringing TI's WEBENCH Power Designer and Architect tools together with Altium's native 3D

PCB design tools, the engineer can now create and simulate a complete analog circuit design from within the Altium environment,” said Jeff Perry, WEBENCH design manager at Texas Instruments. “The combination of these tools allows the engineer to seamlessly incorporate optimized power supply designs into a larger circuit in a matter of minutes.”

WEBENCH Altium Connector key features and benefits:

- Seamless connection between Altium Designer and TI’s WEBENCH Power Designer and Architect speeds system design.
- WEBENCH menu in Altium provides easy access to the entire WEBENCH Designer tool suite, including Power Designer and Architect, FPGA and Microprocessor Power Architect, Filter Designer, Clock Architect and LED Architect.
- WEBENCH simulation test bench in Altium includes TI models and simulation settings.
- WEBENCH simulation engine provides fast and accurate analog circuit simulation for any circuit design inside Altium.

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Altium Releases Updated Version of its 3D PCB Design Tool, Altium Designer

3 June 2014

[Altium Limited](#) has announced the latest update to its signature PCB design software, Altium Designer 14.3. Responding to user community feedback, Altium has updated the software to provide improved support and new features that facilitate design reuse and more efficient electronics design.

This update – which is available to all subscription users – will bring Altium users improved Component Variant Support, which will give them the ability to design the schematic and PCB for drop-in replacement and alternative parts. This provides sizeable productivity gains for product variants, while also making it easy to source and manage multiple alternative parts from the supply chain.

“We are committed to deeply engaging with our user community and responding to their needs to continually improve our software,” said Altium Limited CEO, Aram Mirkazemi. “Since the initial release of Altium Designer 14, we have released two additional updates that have incorporated the features and improvements that our customers are looking for.”

To better support 3D rigid-flex designs, the new version features 3D STEP Export of rigid-flex PCBs in the folded state. Previously, MCAD designers had to model rigid-flex boards as sheet metal parts, which limited the accuracy of the design. With this update, designers can open the folded model of a flexible PCB in mechanical design tools to ensure form and fit are correct. In addition, they can run detailed analysis on the PCB, checking on connections and heat flow.

Along with improved support for Variants and 3D STEP Export, Altium Designer 14.3 delivers improvements to schematic wire dragging, with development focused on maintaining connectivity while improving productivity. This includes improvements to the handling of overlapping wires, net labels and junctions.

Other highlights from this release include:

- Productivity and speed improvements to Altium’s Interactive Routing Engine and Length Tuning

tools.

- Automatic Component Rotation on Polar Grid for circular component placements.
- Improved via stitching and via shielding tools to reduce manual placement and editing of shielding vias.
- Improved internal layer usage for high density designs with automatic, unused PAD removal.
- Updated Mentor Graphics PADS® and xDX Designer® Importers to make it easier to incorporate and maintain existing legacy design IP.

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Arena Quality Embedded In Arena PLM Allows Entire Team To Identify, Track And Correct Issues Quickly

2 June 2014

Arena Solutions today announced [Arena Quality](#), a new solution that enables the entire discreet engineering and manufacturing team to rapidly identify, capture, collaborate and resolve product quality problems.

Quality processes are directly connected to the product record in [Arena PLM](#), which provides everyone with complete visibility into quality issues. Engineering, operations and the supply chain can fully participate in problem resolution and learn from experience to drive continuous improvement. And because Arena Quality captures all quality processes in an easily navigated history, customers will always be audit ready for ISO (International Organization for Standardization), FDA and other organizations.

Quality has been a high priority for all companies since the 1980s, when Japan's better quality products came dominate a wide array of market segments. Today, discrete engineering and manufacturing teams strive for continuous improvement, and to consistently produce ever higher quality, organizations need stronger quality processes. Weak and disorganized quality processes typically result in poor quality products.

The spreadsheet and paper-based systems on which many teams still depend provide poor visibility into quality issues across the supply chain team. In fact, these kinds of systems completely break down in the face of today's highly complex products. And unlike Arena Quality, which is embedded in the product record, traditional quality management software solutions are often isolated from the product record, leading to confusion and conflict between the quality team and other product teams.

Arena customers have used Arena PLM as to control their product designs and collaborate with their supply chains for nearly a decade. Now, Arena Quality enables them to manage the complete quality process to speed time to market, produce products at an ever-higher level of quality, improve margin, reduce scrap, and increase productivity and efficiency.

Capabilities of Arena Quality include:

- **Create and customize templates to support quality processes:** The solution provides complete control over phases, attributes and terminology to reflect each individual organization's internal quality process. It also eliminates the need to start from scratch; templates get organizations up and running quickly.

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- **Assign work, collaborate and see progress:** Arena Quality makes it easy to assign responsibility at multiple levels, manage schedules, track progress and drive to final resolution. Quality processes are readily visible in the product record, making everyone aware of outstanding issues. Emailed notifications are shown in the Arena Quality dashboard.
- **Explicit phase closure with 21 CFR Part 11 compliant electronic signatures:** There's no need to print and manage hard copies. Arena's electronic signature capability has final sign-off covered.
- **Persistent history:** A complete history of quality processes, down to field level edits, is captured in Arena Quality for audit needs.

"We know our customers have teams who are dedicated to constantly drive for continuous improvement in the design, manufacturing and logistical processes," said Steve Chalgren, Arena's vice president of product management and strategy. "With this new solution, Arena makes quality a visible and integrated part of the product design and delivery process, enabling the quality teams to bring everyone together to identify and solve problems."

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Bluebeam Software Announces Integration with Citrix ShareFile to Improve Mobile Digital Document Management and Collaboration

4 June 2014

[Bluebeam® Software](#) announced that they are working together with Citrix to give [Citrix ShareFile®](#) full integration with [Bluebeam Revu® for iPad](#), enabling mobile professionals to more easily access, manage and share project files digitally. ShareFile is a popular cloud storage service within architecture, engineering and construction (AEC) and other document-intensive industries, for which Bluebeam is the leading developer of PDF-based markup, measurement and collaboration solutions.

Traditionally, AEC, oil and gas, manufacturing and other technical professionals have been faced with the challenge of managing huge sets of large format printed documents and drawings. On larger projects, sheets of paper can total in the hundreds or thousands—and when revisions are made, multiple copies of revised document sets must be generated and distributed to all project stakeholders. Transporting paper copies from the office to the field and back again adds time to demanding schedules. With most project teams pushed to do more in less time and under budget, the paper-intensive and time-consuming method of printing drawings is prohibitive.

The ShareFile integration for Bluebeam allows users to streamline communication among designers, builders, owners and other team members to speed up productivity, decrease costs and ensure that all project team members are referring to a single digital master plan set. ShareFile allows users to create a custom-branded, password-protected space to exchange business files with clients easily and securely. Whether sending large files by email or conducting a secure file transfer, ShareFile's solutions are designed for mobile industry professionals. While in the Revu iPad app, users can now add their ShareFile account, navigate to their ShareFile files and folders and then sync, view and edit these files using Revu's markup, measurement and collaboration tools.

CIMdata PLM Industry Summary

Once files are synced with Revu iPad, ShareFile users can work on PDFs from anywhere and even collaborate with project colleagues using Revu's integrated cloud-based solution, [Bluebeam Studio™](#), in real time or any time, regardless of Internet access. With Revu, users can pin files and folders to custom categories, redline PDFs with industry-standard symbols and save custom markups for reuse. By leveraging ShareFile and Revu iPad, accessing and managing project files is just a few taps away, empowering team members to spend less time looking for information and more time being productive. "It is always our goal at Bluebeam to help our customers design, build and work better," remarks Patrick Keller, Director of Product Management. "By integrating ShareFile with Revu iPad, we're able to help many of our customers seamlessly access and manage project information on the go, whether they are new or seasoned users of either platform."

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CST Automates EM and Multiphysics Simulation Workflows

3 June 2014

Computer Simulation Technology (CST) announces new features to automate workflows for field source coupling and multiphysics simulation using its System Assembly and Modeling (SAM) framework at MTT-S IMS, booth #1423.

Since 2012, CST has offered the ability to link together multiple simulation and post-processing tasks using the SAM framework in its EM simulation software, CST STUDIO SUITE. The 2014 release of CST STUDIO SUITE builds on this with features that automate the creation of SAM projects for common design tasks, such as antenna placement, emissions analysis and thermal detuning.

Multiphysics workflows, which combine full-wave EM simulation with thermal simulation, can now be created using the wizard from the schematic view in CST STUDIO SUITE. This means that all the solvers are set up and connected, and the entire simulation started with a single click. For simulations with temperature dependent materials, SAM allows simulations to be iterated until convergence is achieved. Mechanical simulations can be easily added to the workflow, allowing expansion and detuning effects to be calculated. All solvers are integrated in the same parametric 3D modelling GUI, making parameter studies and optimisation runs including EM-thermal couplings possible.

Field source coupling workflows can also be automated. These allow different components to be simulated with different solver types, with the fields calculated in one simulation used as the excitation in the next. These are useful for multiscale simulations, such as EMC in complex systems, installed performance of antennas on electrically large platforms, and small antennas with large reflectors.

"System Assembly and Modeling is CST's most powerful tool for system-level simulation, and is one of the unique selling points of our software," commented Dr. Ulrich Becker, Director Engineering & Support, CST. "At IMS, we hope to show our users how they can make their simulation workflows more efficient and more versatile using SAM."

New and improved features for SAM, including the antenna placement workflow and the automatic creation of 3D models from circuits, will be demonstrated on June 3rd and 4th at the CST booth, #1423, at MTT-IMS 2014.

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CTC Announces Enhancements with Revit Express Tools for 2015

4 June 2014

CAD Technology Center, a leader in developing Autodesk Revit add-ins, announces the release of BIM Project Suite and BIM Manager Suite for Revit 2015. These tools are members of the Revit Express Tools product line. These tools can be accessed as free trials for Revit 2013, 2014 or 2015 from revitexpresstools.com CTC continues to develop add-ins for Revit that automate tasks and save users time.

With this release comes the addition of two new free tools, for a total of 23 tools, 10 of which are free. Quick Select and Length Calculator are the two new free tools added to BIM Project Suite. Quick Select allows users to filter a selection of Revit elements by specific categories or parameter values. Length Calculator is designed to assist with calculating a run length for selected duct, pipe, conduit and cable tray elements.

Notable New Features:

- Significantly enhanced user interfaces for BIM List and Cobie2 Link
- Include content from other project files in BIM List
- Spreadsheet Link now supports a worksheet template workflow
- Sort parameters alphabetically in family libraries using Family Processor (2015 only)
- View Creator can create 3D views for each user workset and configure the graphic option

“The new BIM List is amazing!” said Rolly Stevens Virtual Design Manager at Ryan Companies. “It’s nice to see the new tools as well as enhancements to your existing tools. I hadn’t even thought of using a renumbering add-on to renumber views on a sheet. Every time I open the Revit Express Tools, I find another workflow I can use them for.”

“Our new BIM List solves many of the challenges firms have with Revit content,” said Jeff Burbank, Product Manager for Revit Express Tools. “We’ve seen our clients struggle to manage their families, system families and views. By expanding BIM List’s ability to incorporate the additional content types and adding features like user favorites and live search, we continue to provide tools that decrease the time spent searching and increase the time available for design.”

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EditNC Release 10.2.1 Available at DataCAD

5 June 2014

DataCAD Software & Services GmbH has announced the availability of the latest release [EditNC v10.2.1](#). All R10 users should install this new version. The CNC program editor is designed to complement CAD/CAM systems, and provides powerful capabilities for manual G-code programming. EditNC includes a large number of CNC programming features like: edit, review, calculate, analyze, compare and backplot. With EditNC manual G-code programming becomes as easy as child’s play. Data

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can be converted quickly and easily, a fast data transfer to the machines is possible. Various file analysis like min/max values or calculation of cycle times are done rapidly with EditNC.

EditNC version 10.2.1 offers a great number of new features, like the new extract program file function that splits a file into multiple files, each containing a single program segment. The new merge program function quickly locates missing sub programs and merges files.

The backplotter supports G65 and G66 macro calls, variables, macro commands, expressions and operations, B-axis indexing, as well as breakpoints. Furthermore EditNC implies a new “Macro Explorer” that displays variable contents and shows G65, G66, M98, M97 results.

“Our customers are very excited about the powerful features of the latest release,” explains Ulrich Oehler, CEO of DataCAD Software & Services GmbH. “Interesting is of course also the price – EditNC is already available at € 295,00, that is a real bargain.”

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GTX Corporation Announces GTXRaster CAD® 2015 Series for AutoCAD® 2015

5 June 2014

GTX® Corporation announced the newest release of its popular **GTXRaster CAD® 2015 Series for AutoCAD 2015**.

The new **GTXRaster CAD 2015 Series for AutoCAD 2015** enhancements and features include:

- **Full AutoCAD 2015 DWG** compatibility
- **Support for Microsoft® Windows® 8 and Windows® 7, 32- and 64-bit operating systems**
- **New User Interface** with enhanced Icons, Ribbons, and Toolbars which incorporate the new Light and Dark Environments of AutoCAD 2015
- **Reengineered Rasterization Engine** supports the new CAD entities including blocks with attributes, angled text and geometry
- **New Installation** for Windows 8 and Windows 7 PCs to alleviate any security permission issues
- **Improved Licensing - Package and Borrow** facility options for Network Flex LM licensing.
- **PDF support**, open and save a color or black and white PDF file – once open, the files can be edited and then saved to a TIF format or a PDF
- **Intelligent Object Picking™ (IOP)** raster selection enhancements include selecting raster within a Rotated Rectangle and selecting raster inside & crossing a rotated rectangle -- allowing users to have more precise raster selection
- **Includes Raster editing commands** that support Raster Text, HybridMode, and Rotated Rectangles
- **22+ Raster editing commands** — including raster snap modes
- **Software licensing** – FLEXENABLED™ using Flexera® FLEXnet Publisher licensing technology for either standalone single-user installation or for multiple users with networked installation
- **Automatic Image Cleanup** — noise removal and deskew (U.S. Patent No. 7,016,536)

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- **GTXRaster CAD 2015 Series** – now available in Italian, as well as the English, French and German
- **Enhanced ‘HELP’** mechanism and easier installation

In addition, the new GTXRaster CAD2015 Series products are optimized and tested to run in AutoCAD2015 utilizing the full advantage of the performance and other improvements for this latest environment. With the GTXRaster CAD 2015 Series for AutoCAD 2015 being fully ported to the 64-bit platform, it can run as a native 64-bit application directly on the Microsoft® Windows 8 64-bit Edition and Windows 7 x64 Edition.

“GTX Corporation has never been more focused on the needs of engineering design teams than with our latest release of the GTXRaster CAD 2015 Series. With its many improvements including the support for Microsoft® Windows 8, 64-bit operating systems, PDF support, Package and Borrow Licensing options, organizations can really take full advantage of the programs enhancements and simplify their engineering design tasks,” stated Andrew Ling, President and CEO. Mr. Ling added, “Every year we strive to improve our customers’ productivity and efficiency. And, with the benefits of Microsoft Windows 8, innovative technology, and exceptional customer service, our customers using the GTXRaster CAD 2015 Series will be able to manage their archival files with ease.”

The GTXRaster CAD 2015 Series includes four product modules—GTXRaster Tools™, GTXRaster CAD®, GTXRaster R2V™, and GTXRaster CAD®PLUS.

The GTXRaster CAD 2015 Series, the "AutoCAD for Raster," provides image enhancement and clean up tools as well as raster and hybrid editing, Raster-to-Vector conversion and Intelligent Character Recognition. They are available as a plug-in for all AutoCAD releases.

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Ideate, Inc. Offers Panzura Global File Systems

4 June 2014

[Ideate, Inc.](#) today announced that it has partnered with Panzura, the provider of global locking file systems, to address the critical need for cross-site CAD/BIM (building information modeling) collaboration.

Trends within AEC have prompted the demand for sophisticated global locking file systems amongst architects, engineers, and construction companies. Teams within the industry are increasingly geographically dispersed and models have grown in size and complexity. New compliance mandates and regulations (as well as project owners) are requiring the use of highly evolved solutions such as BIM. In turn, the need for advanced data storage, sharing and management capabilities has grown in lockstep.

Panzura’s Global Locking File System provides enterprise-class file services that also reduces storage costs, reduces the need for expensive MPLS networks, while increasing the security of the data. Regardless of the project size or scope, Panzura's global file system provides geographically distributed enterprises with a common view of files across all locations, accessible anytime, anywhere. This provides end-users with significantly improved user experience in all their locations, reduced local storage provisioning, and streamlined IT operations. This new partnership with Panzura enables Ideate’s customers to smooth the project delivery process and allows AEC organizations to overcome the challenges associated with collaboration on live building information models across distributed sites:

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- Consistent global file system for a common view of all files across all locations at all times, accessible from anywhere.
- Full cloud integration providing low cost, infinite scalability, and data protection via continuous replication.
- Up to 10,000 user-managed snapshots per controller for self-service recovery of deleted files.

“Panzura is a great solution for Ideate’s customers as it provides a technology that removes workflow barriers and makes our AEC customers stronger and faster at providing design and construction solutions for the building industry,” said David Haynes, Director of Consulting at Ideate, Inc. “The ability to share data and resources efficiently is critical to the overall time spent on projects. Ideate is excited to partner with Panzura, and provide clients an option for improved BIM workflows.”

"We have enabled global organizations ranging from oil-and-gas and entertainment to healthcare and legal to collaborate across offices just as easily as they do in a single office," said Barry Phillips, Chief Marketing Officer at Panzura. "We began talking with Ideate several months ago regarding a partnership around AEC and Panzura has benefited from Ideate’s scrupulous attention to detail in the validation process as well as their counsel on specific points related to the AEC market. We look forward to a long and mutually beneficial working relationship."

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IGC Announces Brava! Enterprise 7.2 for Alfresco One 4.2

3 June 2014

[Informative Graphics Corporation \(IGC®\)](#), an Alfresco Technology Partner and a leader in viewing, collaboration and redaction technology, announced the release of its latest Brava!® Enterprise universal viewer for Alfresco One. The new release adds vector viewing, enabling clear, readable document text and high-fidelity viewing of CAD files -- including control of layer states and the ability to view block attributes. This release has been certified by Alfresco for the latest version of Alfresco One, Version 4.2.

The Brava Enterprise HTML5 client, the first HTML viewer to support vector, offers crisp views at any zoom level. The zero-footprint Brava viewer runs within a web browser, so users across the enterprise can view and annotate documents on PCs or Macs -- there's no need to install expensive native software on every desktop. This version also allows Brava to be set as the default viewer, providing a consistent viewing experience for users, regardless of how they launch a document from Alfresco.

Other enhancements include a handy Verify tab that steps users through every redaction in a document so that none are overlooked, the option to generate PDF/E or Fast Web View files, and the ability to integrate Brava to an Alfresco installation on a Linux environment.

"All users will appreciate the new vector support, as it provides significant improvement when zooming in on fine print or large-scale drawings," said Mark Farlin, IGC director of product management. "IGC's ability to deliver device and platform flexibility with support for CAD is unique and we're very excited to bring this to the Alfresco community."

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Intergraph® Announces Release of FreeView® to View CADWorx® 3D Plant Design Models and Their Information on Apple® iPad®, the First Mobile Solution for CADWorx Plant Suite

5 June 2014

Intergraph has announced the release of its Intergraph FreeView® application that lets users of Intergraph CADWorx Design create, publish, and share intelligent AutoCAD®-based CADWorx Plant models for viewing on an Apple® iPad®. Rick Allen, president, Intergraph CADWorx & Analysis Solutions, made the announcement during his keynote address to over two-hundred (200) attendees at CADWorx Analysis University 2014 (CAU2014) taking place at HxGN LIVE in Las Vegas, June 2 - 5, 2014.

Intergraph FreeView is free of charge, and allows for truly portable review and collaboration by letting iPad users access the intelligent information contained in their published models. Intuitive tools let users modify views by isolating sections of the model based on line numbers and component type, as well as easily hide or adjust the transparency of individual or groups of components.

The three-finger view selection makes easy work of changing between various plan, elevation, and isometric views. With a simple finger-tap selection, users can easily view animations and model markups from the published model.

"We have seen a real need for users to share information on the go in ways that are both intuitive and familiar to them," said Patrick Holcomb, EVP of Global Business Development and Marketing. "We are in an ever more connected world where tablets are becoming the norm. That is why we are excited about today's launch of Intergraph FreeView for iPad because it allows mobile stakeholders to effectively collaborate quickly and easily - wherever they are."

In the coming months, the capabilities of Intergraph FreeView will be extended to allow the viewing of Intergraph Smart™ 3D models. This product strategy will provide a single easy-to-use iPad free viewer that can be used by all CADWorx and Smart 3D users for their basic viewing needs throughout the asset lifecycle.

For true ease of sharing, Intergraph FreeView for iPad also allows users to download their published models from email or from cloud content vendors such as Apple iCloud® or Box® so the most up-to-date models are available at any time, and anywhere, as needed. Intergraph FreeView for iPad will be offered on the Apple iTunes® Store free of charge at <https://itunes.apple.com/us/app/intergraph-freeview/id882831755?ls=1&mt=8>. For more information on Intergraph FreeView for iPad, visit www.coade.com/products/freeview.

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Luxion Releases KeyShot 5: Fast, Streamlined 3D Rendering and Animation

29 May 2014

Luxion is pleased to release KeyShot 5, the next generation of Luxion's 3D rendering and animation solution.

With Luxion rendering technology bringing faster rendering speed and capabilities, creating images, animations and interactive visuals throughout the product development process has never been easier.

KeyShot 5 introduces enhanced usability and pro level features that allow engineers, designers and 3D professionals to make their workflow more efficient and take their visuals to the next level.

Overview

With KeyShot 5, we wanted to make the interface that revolutionized 3D rendering and animation even more simple to use with new ways to share resources, faster ways to work with materials, more powerful animation features and advanced capabilities.

The KeyShot Cloud leads features with the ability to download new resources and share custom assets. With this, a more streamlined interface delivers a completely updated user experience, smoother interaction of materials and options, a new Ribbon menu for common tools, Favorites and advanced material display. Rendering workflow enhancements introduce Instancing, ability to retain textures, seven new procedurals and speed increases for rendering large models. Animation users gain more power with the introduction of Fade Animation, Motion Blur and Events, while Pro users will receive NURBS ray-tracing, HDRI Editor updates with a new Sun & Sky System, Perspective matching and output to common 3D printer formats.

KeyShot 5 Features

The entire list of features in KeyShot 5 can be seen and downloaded in a What's New guide that includes information on how each feature works. Visit keyshot.com/whats-new/. A video of the new features can be viewed [here](#). Highlights include:

KeyShot Cloud

The KeyShot Cloud is the online library where users can download new resources, and share their own custom assets. Opening the KeyShot Cloud enables easy drag-and-drop downloading of new resources into their local KeyShot Library, and quick search features and filters to find the perfect resources for a scene. All resources remain on a user's computer with a copy of the resource uploaded to the KeyShot Cloud and no scene or personal info stored online. The KeyShot Cloud is accessible directly from inside KeyShot and online at cloud.keyshot.com.

NURBS Ray-tracing

NURBS ray-tracing delivers more accurate geometry with smoother edges. This new import feature gives users the option to import and render NURBS geometry from their favorite 3D modeling application. The advantage is crisper visuals and smaller file sizes over data imported as triangle that can display edges and gaps on close detail shots. NURBS import is currently available for all geometry formats, including Creo, CATIA, Inventor, NX, Rhino, SolidWorks, Solid Edge, STEP, IGES, Parasolid and ALIAS. Available with KeyShot Pro versions.

Instancing

Instancing allows users to duplicate parts in KeyShot and on import without increasing file size. Instancing of parts is available within KeyShot as a Pattern tool and completely automated in select KeyShot plugins. All instances can be treated separately for quick appearance studies or linked to apply materials quickly, but will all update when LiveLinking or update geometry is used.

Fade Animation

The new Fade animation allows users to quickly apply an animation that fades parts from one opacity level to another. Through KeyShot Animation users add individual transforms that add animations with a click of a button instead of managing keyframes. Just as simple, Fade animations can be applied while adjusting the opacity of parts and groups on-the-fly which allows users to see the update in real-time as animations are created. Available with the KeyShot Animation Add-on.

Sun & Sky System

KeyShot 5 introduces a new Sun & Sky system for automatic creation of physically accurate geographic lighting. Preset resolutions and locations together with day selection, time and turbidity sliders allow the creation of unlimited daylight scenarios. Custom Sun & Sky environments can be created by users as well and combined with other lighting options available in the KeyShot HDRI Editor. Available with KeyShot Pro versions.

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Materialise to Implement 3-matic STL for Additive Manufacturing in the Altair Partner Alliance

4 June 2014

Today, the [Altair Partner Alliance](#) (APA) announced that 3-matic STL by [Materialise](#) will be available through the program in 2014. This software enables design modification, remeshing, and the creation of 3D textures, lightweight models and conformal structures, all on STL level. 3-matic STL is used to quickly prepare computer-aided design (CAD) files from topology optimization, as well as to clean them up for 3D printing.

"We are very pleased to join the Altair Partner Alliance. We believe that our technologies are complementary and thus strengthen each other," said Lieve Boeykens, Brand Manager for Materialise. "We are happy that we can offer Altair's customers a more complete solution when they are working with topology optimization, and look forward to welcoming them as our own customers. Together, Altair and 3-matic STL offer a complete toolbox to *materialise* topology-optimized files into real parts."

With 3-matic STL, design modifications may be made directly on the STL, the scanned model or the CAD data. Rough STL files can be smoothed, reconstructed and simplified, creating a cleaner part. Making changes at this level ensures that the file is immediately ready for further finite element analysis or 3D printing. Additionally, 3-matic STL can add lattice structure to the design, saving even more material.

"The combination of topology optimization and additive manufacturing methods not only creates expanded possibilities for design but also introduces interesting new challenges," said James Dagg, Chief Technology Officer at Altair. "By working as partners, Altair and Materialise can help the engineering community overcome these challenges, drive innovation and leverage the full potential of additive manufacturing."

Belgium-based Materialise will be visiting Detroit for the upcoming Society of Manufacturing Engineers (SME) RAPID Conference and Expo, taking place June 9-12 at Cobo Center. The conference is the longest-running exposition dedicated to additive manufacturing and rapid prototyping, including 3D printing and scanning.

Materialise teams up annually with SME to host an evening networking reception during RAPID, to which Jim Scapa, Altair's Chief Executive Officer, has been invited as a guest of honor in 2014. During the reception, Materialise will host a slot car competition to promote 3D printing and the Motor City. Altair's solidThinking team will participate with an entry developed using solidThinking Inspire® software.

Materialise will also be sponsoring the [2014 European Altair Technology Conference](#) taking place in

Munich, Germany from June 24-26.

3-matic STL is expected to be made available through the APA program for Altair HyperWorks® users later this year.

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OMAX® and Spatial Co-Develop 3D Tool Pathing Solution for Waterjet Machining

4 June 2014

[Spatial Corp.](#), provider of 3D development components for manufacturing applications and OMAX Corporation, provider of advanced abrasive waterjet solutions, have combined their technologies to create what could be considered the market's easiest-to-use 3D tool pathing solution. The new Intelli-CAM™ software tool for OMAX JetMachining® Centers generates 3D tool paths from solid 3D models as well as quickly performs 3D to 2D file conversions.

Intelli-CAM incorporates Spatial's [3D InterOp](#) to import CAD files from a variety of 3D sources, including CATIA, SolidWorks®, Solid Edge, Autodesk® Inventor®, Siemens® NX, Pro/E®, Creo® and much more. Intelli-CAM then applies custom solutions from OMAX and Spatial to convert the geometry into full 3D paths suitable for waterjet cutting.

The OMAX JetMachining Center's controller then uses the 3D paths to automatically apply cutting models using OMAX's AutoPath functionality, which ensures the most precise part in the least amount of time and with minimal operator involvement.

"Helping OMAX expand the 3D capabilities of Intelli-CAM highlights the power of the Spatial component platform and the value our partnership with OMAX," explained Vivekan Iyengar, vice president of research and development for Spatial. "For Spatial, [data reuse](#) means delivering data in a manner that allows applications to more easily integrate into existing workflows with minimal disruption and high reliability. Reliability is important to OMAX. To their end user, any problem in the workflow has an associated cost and is typically seen as a problem in the application, not as a problem in the integrity of the incoming CAD model. 3D InterOp does the most to prevent the user from ever seeing those problems by automatically cleaning and repairing the CAD model during the import process."

According to Carl Olsen, lead software engineer for OMAX Corporation, Spatial's 3D InterOp technology allows OMAX to provide extremely robust and proven 3D file import capabilities to its JetMachining Center owners. "Our customers can now import practically any major 2D or 3D CAD drawing out there, which is especially beneficial to job shops because they often don't know the original CAD system for a file," he said. "Plus, they don't have to purchase expensive CAD software filter packages."

Olsen also noted that OMAX customers doing 3D programming for 5-axis waterjet cutting will find Intelli-CAM greatly simplifies those operations, suggesting that Intelli-CAM "may be the easiest to use 5-axis CAM software ever."

Intelli-CAM, which interfaces directly with OMAX's intuitive Intelli-MAX® Software Suite, is available as a free update to OMAX JetMachining Center owners and is backed by the company's unparalleled support.

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Tekla Field3D is Now Available for Download

2 June 2014

Tekla Field3D is a high performing mobile BIM tool for handling large data sets and constructable, detailed models. Now also the models on mobile devices can carry all the building information you need.

With the new mobile application AEC professionals can conveniently take BIM to the field with their iOS mobile devices. Tekla Field3D users can collaborate with all project members, including those without access to desktop BIM software or any deeper knowledge about 3D modeling.

As Tekla is strongly committed to supporting [Open BIM](#), the offering including the new mobile solution allows users to work efficiently with open standard IFC models. With Tekla Field3D, you can combine IFC models on your iOS device and view and share building information models on the go.

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Viewpoint Provides Tools and Support for SaaS Project and BIM Collaboration in Asia-Pacific Region

4 June 2014

Viewpoint Construction Software® has furthered its commitment to increase and scale its SaaS-based project collaboration solution throughout the Asia-Pacific Region with the availability of Viewpoint For Project Collaboration and the opening of a new data centre in Australia. This data centre will provide Viewpoint's Asia-Pacific project collaboration customers improved performance as well as additional flexibility on their data hosting options.

Viewpoint For Project Collaboration is a new solution providing project and BIM collaboration tools that extend and expand the abilities of traditional project management solutions and provide improved communications and collaboration among multiple project stakeholders on both internal and external teams, including owners, architects, engineers, contractors and sub-contractors. Included is Viewpoint BIM Manager, an easy to use browser-based application for BIM collaboration with functionality that permits any project team member to review and interact with 3D models quickly and easily, access and update design specification and project as-built information, as well as attaching tasks and defects to the models without any complicated software or advanced training.

Viewpoint will deploy Viewpoint For Project Collaboration on a fully compliant AWS elastic cloud (ISO, SOC 1 and SOC 2, and FIPS 140-2) providing both scalability and redundancy to avoid data loss, along with consistent and reliable uptime and data access.

Andy Cameron, Vice President of Global Data Center Operations and IT at Viewpoint states, "The addition of an Australian-based data centre along with our current services in the UK and the US provides Viewpoint both a nimble and flexible cloud environment. It allows us to serve customers with high performance, low latency and virtually infinite scale to best meet customer demands across all the regions we serve."

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