PLM Industry Summary

Jillian Hayes, Editor

Vol. 17 No. 9 Friday 6 March 2015

Contents

Acquisitions

FARO® Expands Presence in Architecture, Engineering and Construction with Acquisition of kubit
3 March 2015

FARO Technologies, Inc. , announces the acquisition of kubit GmbH, a leader in the development of software for surveying and as-built documentation. The acquisition also includes substantially all of the assets of its U.S. distributor kubit USA, Inc.

Located in Dresden, Germany, kubit has been developing field-proven software products to enable and simplify the use of real world objects in CAD applications since 1999. Initially launched to link total stations directly to AutoCAD, today kubit is the industry leader in providing tools to integrate 3D laser scan data with CAD environments such as Autodesk Revit and AutoCAD. kubit's software is hardware independent, giving customers the flexibility to utilize any hardware offering, thus ensuring maximum productivity.

kubit software is used in a large number of applications, including but not limited to:

- Building Information Modeling (BIM)
- Archaeology
- Architecture
- Plant survey
- Construction
- Built heritage conservation
- Facility management
- Interior outfitting
- Police and security forces
- Surveying

"The acquisition of kubit is an exciting step in FARO's strategy to develop integrated, disruptive 3D documentation product offerings for the Architecture, Engineering and Construction market," stated Jay Freeland, FARO's President and CEO. "By adding kubit's products to our portfolio, customers now have significantly enhanced software options to serve a vast array of point cloud modeling, analysis

needs, and measurement capabilities with very high connectivity to the Autodesk suite of products."

The all cash transaction includes an initial payment as well as future earnout payments.

⬆️*Click here to return to Contents*

Infosys Completes Acquisition of Panaya

5 March 2015

Infosys completed the acquisition of Panaya, Inc., a provider of automation technology for large scale enterprise software management. The acquisition is in accordance with the terms set out in the agreement announced on February 16, 2015.

This acquisition will further strengthen Infosys' dual strategy of Renew and New by enhancing the competitiveness of its current service lines by leveraging automation, machine learning and artificial intelligence.

⬆️*Click here to return to Contents*

Mentor Graphics Acquires Tanner EDA

3 March 2015

Mentor Graphics Corp. today announced it has acquired the business assets of Tanner EDA, a tool provider for the design, layout and verification of analog/mixed-signal (AMS) and MEMS integrated circuits. With this acquisition, more designers will now have access to Tanner's AMS products based on the strength and reach of the Mentor Graphics global sales organization. All Tanner EDA products as well as existing AMS products from Mentor will continue to be available and supported.

"Tanner EDA has built an outstanding reputation as the price performance leader for the design, layout and verification of AMS ICs, MEMS and IoT devices," said Greg Lebsack, President of Tanner EDA. "We are excited to join Mentor Graphics where we can leverage their extensive technology leadership and global footprint. We view this transaction as very positive for Tanner EDA's customers, employees and the industry as a whole."

Harvest Management Partners, LLC advised Tanner Research, Inc. regarding the sale of the assets of Tanner EDA. Terms of the deal were not disclosed.

⬆️*Click here to return to Contents*

Company News

3D Systems and Henry Schein Enter Multi-National Distribution Agreement
2 March 2015

[3D Systems](#) announced it has entered into a multi-national distribution agreement with Henry Schein, Inc. , the provider of healthcare products and services to office-based dental, animal health and medical practitioners. Under the new agreement, Henry Schein will offer 3DS' dental 3D printers to its dental laboratory customers in the United States, Canada, France, Germany, Australia and Thailand. The agreement substantially expands 3DS' dental labs reach and integrates its printers into Henry Schein's complete digital dental solution.

Under the terms of this agreement, Henry Schein will market and sell 3DS' micro-SLA [ProJet® 1200](#) and its new [ProJet®3510 DP*Pro*](#) as part of its digital dental laboratory offering, which includes 3D scanners, software, installation and post-sales support.

"3D Systems is an industry leader in high-fidelity, precision 3D printing," said Robert Gottlander, Vice President, Global Prosthetic Solutions, Henry Schein. "We are very pleased to offer our dental lab customers 3D Systems' high-performance 3D printers as part of our integrated digital dental solution."

Engineered specifically for the demanding dental lab environment, the new multipurpose ProJet 3510 DP*Pro* 3D printer provides round-the-clock printing capabilities and features a large build volume, allowing lab managers to rethink maximum throughput and tighten production schedules. With the ProJet 3510 DP*Pro*, labs can print enhanced, highly accurate wax-ups for crowns, bridges and partial denture frameworks, in addition to working models for crown and bridge, orthodontic, partial dentures, and dental models in USP Class VI-capable VisiJet® Stoneplast.

The desktop ProJet 1200 puts industrial-grade SLA 3D printing in an affordable lab bench-top package. With specially engineered materials, including VisiJet® FTX Green and VisiJet® FTX Cast, this compact machine quickly produces dental wax-ups — for copings, bridges and pressed ceramics — that are compatible with traditional workflows.

"We are excited to work with a leading digital dental solution provider of the caliber of Henry Schein," said Kevin McAlea, Chief Operating Officer, Healthcare Products, 3DS. "This agreement provides unprecedented access for our latest dental 3D printers with a world-class organization that is uniquely qualified to deliver integrated digital dental solutions, services and support to our mutual dental customers."

3DS' dental solutions were showcased at the LMT LAB DAY Chicago February 27 – 28, 2015, and will also be on display at IDS 2015, March 10–14, 2015, in Cologne, Germany.

Canon enters 3D Printing Market through UK Distribution Agreement with 3D Systems
27 February 2015

Canon Europe announces a distribution agreement with 3D Systems. Under the arrangement, Canon will market, sell and support 3D Systems' advanced manufacturing 3D printers, including the ProJet 1200,

3500 series, 4500, 6000 and 7000 in the UK and Ireland, with a view to rolling out across Europe.

Through the partnership, customers will have access to 3D Systems' advanced 3D printing technology underpinned by Canon's exceptional service and support. This partnership reflects Canon's ongoing growth strategy of expansion into new technology domains that deliver significant value to its diverse customer base and builds on the 3D Systems distribution agreement with Canon Marketing Japan announced in March 2014.

Focusing on prototyping for rapid product development, Canon will offer the 3D printers to its substantial customer base in the UK and Ireland, across the engineering, manufacturing and architectural market segments.

Enabled by advances in technology and driven by the demand from the manufacturing sector for increased production efficiencies and customisation, the 3D printing market is growing rapidly. Research and advisory company, Gartner, has predicted that end-user spending on 3D printers is expected to increase from $1.6 billion in 2015 to around $13.4 billion in 2018[1].

Jeppe Frandsen, Head of Production Printing Group, Canon Europe, said: "At Canon we're continually assessing new market opportunities where we believe we can make a difference to our customers. It's clear that, because of the potential business benefits it can deliver, 3D printing is one such opportunity. Not only does this add to an extensive technology portfolio that few can match, but we also believe we can deliver an exceptional sales and service experience to fully support our customers in this innovative and dynamic area of the market."

Frandsen continued: "This partnership, together with Canon's own significant investment in R&D, reflects both our long term commitment to 3D printing and our ongoing dedication to deliver advanced technology and support to our customers to help them improve the performance and profitability of their businesses."

"We are excited to team up with a proven and experienced partner like Canon Europe to expand our distribution across the UK and Ireland," said Michele Marchesan, Vice President and Chief Revenue Officer, 3D Systems. "Canon is a trusted provider of industry solutions with strong service and support, and we are thrilled to extend our advanced 3D printing technology to a wider range of customers and applications."

Canon will start selling printers from the 3D Systems advanced manufacturing portfolio in the UK and Ireland at the beginning of March.

[⬆]*Click here to return to Contents*

Domain Name BIM.COM Acquired to Expand Global Brand Recognition
2 March 2015

BIMobject® announces that the company has acquired the top level domain name BIM.COM. Internationally recognized term BIM, stands for Building Information Modeling.

A premium domain like BIM.COM will improve and protect our digital platform as the premier destination. It will improve search engine rankings and generate traffic as well as being a virtual asset.

BIM.COM creates a unique value proposition to the Building Product Manufacturers as a part of their

digital marketing strategy within BIM. Ownership of BIM.COM domain gives BIMobject an unprecedented advantage over the competition.

"Acquiring BIM.COM is an exciting step toward increasing our market penetration. BIM.COM is an under utilised asset that we can unlock to reach its full potential", says, CEO and founder, Stefan Larsson.

⬆ *Click here to return to Contents*

Global Design Contest Challenges Engineers, Entrepreneurs, and Students to Create the Future
3 March 2015

The 13th annual "Create the Future" Design Contest (www.createthefuturecontest.com**),** sponsored by COMSOL and Mouser Electronics, along with Analog Devices, is now open for submissions and runs through July 1, 2015. Design an innovative new product idea that benefits society and the economy for the opportunity to receive global recognition and win a cash prize of $20,000.

The "Create the Future" Design Contest has been responsible for bringing attention to product designs that increase the quality of life, improve the efficiency and quality of healthcare, and help to reduce dependence on non-renewable energy sources.

"The Create the Future Design Contest does an amazing job of shining light on new product ideas and innovators. That is why COMSOL is delighted to be sponsoring the contest for the 11th year running," said Bernt Nilsson, COMSOL Senior VP of Marketing.

"Advancing technological innovation is at the core of what we do here at Mouser Electronics and we are very excited to support design engineers by helping once again to sponsor this global design contest for them," said Kevin Hess, Mouser Electronics' Vice President of Technical Marketing.

Past contests have generated over 10,000 design ideas from engineers, entrepreneurs, and students in more than 100 countries. Previous grand prize winning entries include a computerized construction method that rapidly 3D prints large-scale structures directly from architectural CAD models; a ChemoPatch capable of delivering quality early stage chemotherapy in developing countries; and an economical, rapid screening device that prevents foodborne illness.

This year's categories include: Aerospace & Defense, Automotive/Transportation sponsored by KAMAN, Consumer Products, Electronics sponsored by Imagineering, Inc., Machinery/Automation/Robotics sponsored by Maplesoft, Medical Products, and Sustainable Technologies. In addition to product concepts, designs for products that have been introduced to the market within the past 12 months are eligible.

Contest entries can be submitted by an individual or a team. An independent industry panel will judge the entries. Web site visitors are invited to vote for their favorite entry. For more information on how to enter the contest, go to www.createthefuturecontest.com.

⬆ *Click here to return to Contents*

GRAITEC Announces Partnerships with HungaroCAD, Hungary and CADLAB, Greece

3 March 2015

[GRAITEC](#) announces two new strategic distribution agreements with Hungarian-based HungaroCAD and CADLAB in Athens, Greece.

These agreements entitle both HungaroCAD and CADLAB to promote, sell and support the GRAITEC and Autodesk® Advance product ranges throughout Hungary and Greece respectively.

Autodesk® Gold Partner, HungaroCAD, has almost 25 years' experience with Autodesk software and has established itself as a leading company in the field of Architectural Engineering and Construction (AEC). Based in Budapest, Hungary, HungaroCAD has been forthcoming in the distribution and development of design systems for the construction, mechanical and electrical engineering industry.

Over the past decade CADLAB has developed integrated solutions, tools and expertise, in the field of engineering software and consulting services, to support the rapid development and investment in technologies, by Greek construction and consultancy companies driven initially by the 2004 Olympic Games in Athens.

Mr Sabathiel Balázs, HungaroCAD, Budapest comments: "HungaroCAD was established almost 25 years ago as one of the first resellers of Autodesk software. Today we are an Autodesk Gold Partner with more than 20 employees in the field of Architecture Engineering and Construction, as well as Manufacturing, Mechanical Engineering and Plant Design. We look forward to our cooperation with GRAITEC as we believe the Advance line of products represent the highest quality in steel and concrete design."

Mr Kostas Katsaras of CADLAB, Athens, states: "We have been a dedicated Autodesk® Partner, Reseller, Developer and Training Center since 2005, specializing in the AEC industry. Currently we lead civil and architectural sales in Greece and this partnership agreement with GRAITEC allows us to strengthen our position in the market further as well as reach new customers."

Francis Guillemard, GRAITEC CEO adds: "Increasing our coverage in Europe is a key part of our overall global strategy. We are very pleased to welcome such strong partners, HungaroCAD and CADLAB to our channel of Authorized Resellers delivering GRAITEC's established technologies. I believe the experience and expertise of these organizations will provide real benefits to customers and help strengthen GRAITEC technologies in the Hungarian and Greek market."

Graphics Systems Named Top SOLIDWORKS Subscription Provider

3 March 2015

Graphics Systems Corp., was named the Top SOLIDWORKS Subscription Provider in North America at the SOLIDWORKS World 2015 Awards Banquet in Phoenix, AZ on February 11, 2015. This award, presented by SOLIDWORKS Dassault Systèmes, is awarded annually to the SOLIDWORKS provider with the largest percentage of customers who renewed their SOLIDWORKS licenses. Through continued world-class customer service, over 96 percent of Graphics Systems customers renewed their software subscriptions with Graphics Systems in 2014. This is the company's fourth time receiving this

award.

"We're proud to honor Graphics Systems Corp. as the Top SOLIDWORKS Subscription Reseller in North America," says Ken Clayton, vice president of worldwide sales professional channel for Dassault Systèmes. "Their passion for customer service and support consistently ranks them among our top resellers. To win this award for the fourth time is a testament to Graphics Systems' commitment to the success of their customers."

Dave Kasinskas, president of Graphics Systems Corp., credits customer support for this recognition. "We sincerely thank our customers for their loyalty, as this award would not be possible without them. That over 96% of them choose to renew their subscriptions through us speaks volumes to the level of support and service they receive. The need for a higher level of support from a reseller is the reason we started the company 25 years ago."

Graphics Systems Corporation received additional recognition for their commitment to customer service excellence. For the 11th consecutive year, Graphics Systems was awarded the "Elite 190 Club Award" which signifies that a value-added reseller exceeds the highest standards for customer retention, subscription support renewals, and software support for first-time users. Graphics Systems was also named to the "President's Club" for their efforts in re-enrolling 100's of customers in their support and software maintenance programs.

SOLIDWORKS offers complete 3D software tools that let you create, simulate, publish, and manage your data. SOLIDWORKS products are easy to learn and use, and work together to help you design products better, faster, and more cost-effectively. The SOLIDWORKS focus on ease-of-use allows more engineers, designers and other technology professionals than ever before to take advantage of 3D in bringing their designs to life.

Click here to return to Contents

Hagerman & Company, Inc. Appointed as an Autodesk Platinum Tier Partner
25 February 2015

Hagerman & Company announced that Autodesk has promoted the firm to an Autodesk Platinum Tier Value Added Reseller (VAR). Only a small number of Autodesk Value Added Resellers worldwide have achieved Platinum Tier status.

"Our Platinum Tier acknowledges the instrumental role these companies play in delivering world-class design solutions, products and services," said Steve Blum, senior vice president of Worldwide Sales and Services at Autodesk. "Whether through the services they deliver, or their notable customer satisfaction scores, these partners constantly show that they can provide exemplary services and capabilities to their customers."

Platinum partners provide their customers with best-in-class full solutions from pre- and post-sales support, consulting, training, implementation, and customization. Hagerman & Company works closely with Autodesk to help customers design, simulate and analyze their ideas, increase operational efficiencies and maximize their return on investment in Autodesk software solutions.

"Hagerman & Co., Inc. has a long standing initiative to deliver world class products and support", said Hagerman & Company CEO Sandy Hagerman. "We are pleased to be awarded the Autodesk Platinum Tier Partner status. Meeting and exceeding the requirements of this exclusive award was driven by our

commitment to offer value and innovation to our customers."

Click here to return to Contents

Infor Announces New Partnerships for Public Sector

3 March 2015

Infor today announced momentum behind new partnerships focused on the public sector. Altum, Gcom Software, and Cybermedia Technologies (dba CTEC) have all joined the Infor Partner Network (IPN) to provide implementation support and services for Infor public sector customers across North America. These additions will help organizations that include state, local and federal government agencies, schools and libraries, and public safety and utilities. By partnering with Infor, each company will benefit from exclusive IPN tools such as Infor Launchpad. As a result, customer organizations will have more direct access to local resources and experienced consultants whose expertise lies specifically in technology for the public sector.

"This year Infor will continue to focus on expanding the IPN with well qualified partners such as these who can provide valuable, industry-specific assets to our customers," said Lynn Sauder, vice president, Global Alliances, Infor. "We also plan to consistently enhance our enablement initiatives to help partners bring added value to each phase of the product lifecycle and become an integral component of our company-wide strategy to deliver beautiful business applications with deep micro-vertical functionality."

Gcom Software, an IT project management organization concentrated on state and local governments, will primarily focus on delivery of the Infor Public Sector Suite (Hansen) and Infor Enterprise Asset Management (EAM). The Infor Public Sector Suite is designed specifically to help public organizations provide more responsive services to citizens by better managing everything from equipment maintenance and permitting to billing and emergency dispatch. By selecting Infor's integrated suite of applications, agencies can create a holistic technology environment for faster problem resolution through improved communication and collaboration backed by industry-specific capabilities.

Both Altum and CTEC, service providers dedicated to Federal government agencies, will now deliver multiple Infor technologies including Infor Dynamic Enterprise Performance Management (d/EPM), Infor Ming.le™, Infor ION®, Infor Talent Science, Infor Human Capital Management (HCM) and Infor Approva Continuous Monitoring to customer agencies. Innovative and built on open standards, these platforms provide flexible deployment options so agencies can manage operations in the cloud, on premise or both. With a common user interface and the ability to integrate with both Infor and third-party systems, employees are equipped to make better-informed decisions through faster, easier access to critical data.

"Infor continually invests in resources for its partner community, which shows us that they recognize the mutual benefit of these relationships and are committed to equipping partners with the tools necessary to succeed," said Raj Ramesh, chief executive officer, CTEC. "Our in-depth knowledge of the public sector will allow Infor customers to capitalize on the skills and insight we've developed over the last twenty years, helping them to maximize their return on investment from leading technologies such as Infor ION and Infor Ming.le."

ITRI Shaping Taiwan CNC Industry with MachineWorks Software
2 March 2015

MachineWorks Ltd has been working together with the Industrial Technology Research Institute of Taiwan (ITRI), developing software that is shaping the CNC machining landscape of Taiwan.

The CNC machining industry in Taiwan has evolved to become one of the most innovative in the world supplying advanced manufacturing equipment globally to a range of industries from aerospace to oil.

ITRI is leading the way in this sophisticated market by being the research ground for the development of high precision machining, multi-axis CNC controllers, multi-axis universal heads and optimised software. Their goal is to increase the overall competitiveness of machine tools industry.

The integration of MachineWorks Simulation and Verification Technology into ITRI's own CNC controllers, has enabled the Research Centre not only to create real-time simulation online but to develop an anti-crash system.

The benefits of this tight collaboration between MachineWorks and ITRI have been extended to other machine tool manufacturers in Taiwan who are now able to provide simulation on their own CNC controllers and are working to create collision avoidance systems. Vision Wide, YCM, Quaser, Dahlih, YIDA and Feeler are among the manufacturers that are collaborating with ITRI's cutting edge technology.

"Embedding MachineWorks Software within their applications allows machine tools to simulate any type of CNC machining and detect any crash or gouge in the full machining environment in real time," says Mike Nicholson, Sales & Marketing Director at MachineWorks ," by doing that, the machine operators can find any programming errors before any machining takes place and they can monitor the cycles throughout the actual machining."

The Taiwan International Machine Tool Show (TIMTOS) will be bringing many of these machine tool builders together in Taipei between the 3rd and the 8th of March. ITRI will be displaying their latest technological advances at the Nangang Exhibition Hall in booth N0620. The MachineWorks team will be busy supporting their customers during TIMTOS 2015.

Lectra holds its 7th International Education Congress
3 March 2015

Lectra recently hosted its 7th Education Congress in Paris.

The 2015 Lectra Education Congress brought together over 60 professors, department heads and directors from 33 international fashion schools and universities, around the theme of change and transformation in the fashion industry. The event was held on the banks of the Seine river at the French

Fashion Institute (IFM) which is housed in Paris' *Cité de la Mode et du Design*.

"This congress organized by Lectra and welcoming fashion schools and industry players helps highlight the importance of technology in fashion today. Our industry is both creative and traditional. Development techniques and information systems are constantly evolving and becoming increasingly sophisticated, thus allowing us to combine these aspects in an optimal way, while better managing the supply chain and the integral management of all processes," said Dominique Jacomet, Dean of IFM.

The congress highlighted transformational shifts in the industry and the impact on both fashion companies and also on fashion education. Major industry trends were explored: globalization, the digital disruption, new consumer expectations and the continued rise of luxury.

Stéphane Wargnier, Executive President of la Fédération Française de la Couture presented a study on the changes now occurring inside the industry, such as the emergence of new job roles and thus the need for new competencies. "Every brand uses collaboration as part of its strategy today," he noted, "and thus companies need talent who know how to work in a collaborative, yet innovative, manner."

"Students have changed a lot over the last 10 years. It's our role as teachers to adapt to these changes and this new generation who no longer have same way of behaving vis-à-vis teachers and education in general. They are much more active in their learning; they challenge teachers' knowledge, because with the internet, they feel that they can check everything the teacher says. Education and teaching has become more a concept of support and co-operative learning," explained Chantal Fouqué, Director of French fashion institute La Fabrique.

The importance of industry in education, was underlined by Michael Ernst Professor of Textile Product Development at Germany's University Niederrhein "At universities you can bring students to a certain level but they need to do internships or start working together with companies so it is not just a university thing or otherwise there is a gap."

This observation was illustrated by the UK's De Montfort University as their delegates joined French lingerie company Aubade to present their joint student competition using Lectra solutions. While representatives from French companies agnes b. and Paule Ka participated in discussions providing insight into the current challenges faced by their companies and gave schools the opportunity to hear what companies are looking for in today's graduates.

"Lectra has done that great thing of bringing together industry and education. We can cross over and pollinate ideas and talk about the future and the past to aid and benefit education and our students," concluded Sharon Blackford, Senior Lecturer at the London College of Fashion, University of the Arts London, UK. Fiona Dieffenbacher Director of the BFA Fashion Design program at Parsons, USA agreed, "It is an opportunity for us as international peers to come together and share with those who are may be grappling with similar issues. From the presentations we saw how other curriculums are run and gained an overview of the issues facing the fashion design industry from the perspective of Paris."

Mastercam Reaches Their 200,000th Installation
5 March 2015

CNC Software, Inc. is proud to announce that Mastercam has reached its 200,000th installation. Specialised Orthotic Services is a UK-based company dedicated to providing customized seating for

anyone needing specialized seating for correct posture and support.

"Our new Mastercam-programmed robotic cell will further our ability to provide the best possible innovative special seating systems and other rehabilitation products," says Operations Manager, Stuart Pegg, "coupled with quality service no matter how complex our clients' disabilities."

Specialised Orthotic Services now belongs to the largest CAD/CAM community, and is obtaining the benefits of all the Mastercam knowledge and support out there. If you are a Mastercam customer, what does this mean for you? How can you benefit from the 200,000 Mastercam installations out there?

Looking for Experienced Mastercam Users

Shops around the world are always in need of experienced machinists and programmers to keep their business running smoothly and efficiently. If you are a shop owner, and looking to hire, it's good to know that there are so many qualified Mastercam programmers in the workforce. Mastercam has the most installations of any CAM vendor, and you can use this to your advantage to find a machinist who is already experience and trained in Mastercam. Or, if you are looking for a job, knowing the most widely-used software out there can help you find a job. Shops are always posting job openings, and many are looking for that Mastercam experience.

Ever-Expanding User Community
The Mastercam Community is constantly expanding with each new installation, and this means you have access to the largest community of CAM users on the planet. There is always someone out there who can help you in a time of need. With social media, user groups, and forums, you are never alone and can always get your questions answered.

Mentor Graphics Appoints Paul Mascarenas to Board of Directors
4 March 2015

Mentor Graphics Corp. announced that Paul Mascarenas, OBE, former chief technology officer at Ford Motor Company, was appointed to serve on the company's board of directors effective March 4, 2015.

"We welcome Paul Mascarenas to the Mentor Board, and look forward to benefiting from his deep expertise and wide knowledge of the automotive industry, which represents a major target market and growth opportunity for Mentor Graphics " said Walden C. Rhines, chairman and CEO of Mentor Graphics.

Paul Mascarenas serves as president and chairman of the Executive Board of the International Federation of Automotive Engineering Societies (FISITA), an umbrella organization for national automotive societies around the world. He is also presently serving as a special venture partner (SVP) at Fontinalis Partners, a sector-focused investment firm that invests exclusively in next-generation mobility opportunities. In addition, he currently serves on the Board of ON Semiconductor Corporation.

Prior to retiring in October of 2014, Mr. Mascarenas spent 32 years at Ford Motor Company, most recently as chief technical officer and vice president, Research and Advanced Engineering, with responsibility for innovation activities, including the strategy, development and implementation of key

technologies in all Ford and Lincoln brand vehicles. Previous positions at Ford included several years each as vice president, Global Engineering; vice president, Vehicle Programs; executive director, Product Development, for medium and large vehicles in North America; and chief program engineer for the Ford Mondeo in Europe.

Mr. Mascarenas holds a B.S. degree in Mechanical Engineering from the University of London, King's College. He is also a Chartered Engineer, Fellow of the Institute of Mechanical Engineers, and an SAE International Fellow. In June 2013, he received an honorary doctorate degree from Chongqing University in China. In 2015, he was awarded an OBE by Her Majesty Queen Elizabeth II for his services to the automotive industry.

SAP Joins the Industrial Internet Consortium to Accelerate the Internet of Things and Help Shape the Business of the Future
4 March 2015

[SAP SE](#) today announced it has joined the Industrial Internet Consortium, which aims at accelerating and promoting the business use of the Internet of Things (IoT). SAP has been a strong supporter of the Industry 4.0 in Europe and supports the importance of industry-wide, international standards for easier interoperability for customers. SAP helps customers implement practical business solutions with a wide variety of cloud-based IoT solutions that include the SAP Predictive Maintenance and Service solution, SAP Connected Logistics software and SAP Manufacturing Execution application. In addition, SAP received a 2014 M2M Evolution IoT Excellence Award for its IoT connected trade asset intelligence software. The announcement was made at [Mobile World Congress](#) (MWC), being held March 2-5 in Barcelona.

SAP solutions for IoT are powered by SAP HANA® Cloud Platform, a core application development and enablement platform that enables enterprises to generate real-time insights from sensor data and advanced features, such as in-memory computing and geo-spatial functionality. The platform also supports telematics, predictive analytics and complex event processing. In addition, SAP HANA Cloud Platform offers open APIs that allow third-party providers to develop IoT applications.

"With the SAP HANA Cloud Platform and next-generation IoT solutions we already bring to our customers, SAP intends to combine the untapped potential of digitization and connectivity that is the cornerstone of the IoT. IIC membership shall ensure that SAP customers can drive value for their business without disruption in harmony with other IoT systems and solutions," stated Michael Lynch, Global Co-Lead, IOT, SAP.

SAP is working closely with the more than 140 other Industrial Internet Consortium members to deliver use cases, test beds, reference architecture and frameworks and security. The Internet of Things is expected to allow companies to connect their core business systems to the devices at the edge of the network, transform their business processes to gain operational efficiencies and reimagine their business models from the ground up.

A key component will be the influence that Industrial Internet Consortium will bring to various IoT standards activities and solutions for driving interoperability of the growing involvement of virtually every major open standards organization. Industrial Internet Consortium is also working closely with the

German Industry 4.0 initiative to bring global input and help ensure that Industry 4.0 leverages the work of Industrial Internet Consortium in its solutions for computerization of the manufacturing industry.

"SAP believes strongly in the Industry 4.0 initiative and is making the same commitment to the IIC. We see that by joining the IIC and continuing our efforts with Industry 4.0, we will try to ensure that our customers will be the true beneficiaries from both IoT initiatives," said Nils Herzberg, global co-lead, IoT, SAP.

"We are very excited to have SAP become a member of the IIC," said William Hoffman, President, Industrial Internet Consortium. "SAP is already playing a role in the German-led initiative, Industry 4.0. Now, as an IIC member, they will be able to play a similar role on a global scale."

SAP also received a 2014 M2M Evolution IoT Excellence Award presented by TMC and Crossfire Media for IoT connected trade asset intelligence software. The 2014 M2M Evolution IoT Excellence Award honors innovative products that support deducing, inferring and gathering information directly from sensors, systems and anything else that supports better business and personal decisions.

The winners of the 2014 M2M Evolution IoT Excellence Award will be highlighted in the first quarter edition of M2M Evolution Magazine and on www.m2mevolution.com. For more information, please visit www.tmcnet.com.

Siemens Grants $30 Million in Software Licenses to the George Washington University
4 March 2015

Siemens and George Washington University announced a $30 million in-kind grant of software licenses to enhance programs in the School of Engineering and Applied Science and strengthen a long-standing partnership between the technology company and the university.

The in-kind grant builds upon Siemens' existing partnership with the George Washington University. With its U.S. headquarters in Washington, D.C., Siemens has worked with the university on a variety of programs including: recruiting graduates to build a talent pipeline in U.S. industries, fostering interest in science, technology, engineering and math (STEM) fields through the Siemens Competition in Math, Science & Technology, and executing energy efficiency and building automation projects.

"As the University expands its focus on research, Siemens is pleased to grow our relationship with George Washington University to include leading edge technology and training initiatives. Access to our software will help better prepare these students for high-quality STEM and advanced manufacturing jobs," said Eric Spiegel, President and CEO, Siemens USA.

Students at the George Washington University 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 aerospace, automotive, medical devices, machinery, shipbuilding and high-tech electronics.

"We are deeply grateful to Siemens for so generously providing these invaluable tools to our faculty and students," said GW President Steven Knapp.

As software plays an increasing role in the next era of manufacturing, the School of Engineering and Applied Science will incorporate PLM software into student course work and research related to

computer-aided design, engineering simulation, creative engineering design, digital manufacturing and manufacturing management. For example, students in the Department of Mechanical and Aerospace Engineering will use Siemens' PLM software for a variety of applications, including the design of off-road vehicles and rockets for collegiate competitions.

"Grants like this, which support student innovation, create their own ripple effect for good, as some of the ideas they spawn eventually make their way out to the larger society in the form of better engineering products," said David Dolling, dean of the School of Engineering and Applied Science.

Through this enhanced alliance, students can develop the advanced manufacturing and design skills sought after by the more than 77,000 global customers who utilize Siemens' PLM software and technology solutions, including hundreds of businesses throughout the greater Washington metro area.

⬆️*Click here to return to Contents*

Simparel Names Fashion Sales Executive Jill Powers to Lead West Coast Efforts
3 March 2015

Simparel, Inc. (http://www.simparel.com), has recruited enterprise sales executive Jill M. (Simmons) Powers to lead Western U.S. business development efforts in the newly formed position of Strategic Accounts Director. Working from her Southern California base, Ms. Powers will focus her more than twenty years of industry experience and sales leadership to help apparel and other fashion-related companies in the region identify and leverage the business improvements available through the latest in ERP, PLM, SCM and other IT solutions.

"We are excited to have Jill joining the Simparel team," said John Robinson, Senior Vice President of Sales and Marketing. "Having known and worked with her for many years, I am confident that our current and future clients will benefit from her expertise and professional approach. With her help, we look forward to expanding our footprint in the fast-changing and competitive West Coast market."

Powers most recently served as Senior Account Executive for merchandise management solutions provider 7thonline. She previously held a number of executive-level management and sales positions with CAD, CAM, and PLM providers Gerber Technology, Lectra, and EAT Inc.

"I am pleased to have the opportunity to join Simparel in a period of rapid growth," noted Powers. "Working together with the local and national Simparel teams, I look forward to growing the business here by helping our brands, manufacturers and retailers achieve the business improvements needed to build and sustain their competitiveness in the market."

⬆️*Click here to return to Contents*

Tata Technologies, CIMdata to Co-Host Webinar on Maximizing Product Development Efficiency through PLM
25 February 2015

Tata Technologies has teamed up with CIMdata to provide a comprehensive and informative webinar targeting product development efficiency. The complimentary webinar titled Realizing Your Product

Development Performance Potential: 5 Metrics for Change is set for 11 a.m. EST March 10.

Tata Technologies Product Lifecycle Management (PLM) thought leaders Chief Strategy Officer Richard Welford, Head PLM Strategy Consultant Lionel Grealou and PLM Consultant Chris Hind will be joined by John MacKrell, vice president and systems engineering lead for CIMdata, in an intriguing discussion of five metrics for improving product development performance through a mature PLM strategy. Registration for the webinar begins immediately.

"We are excited to share our PLM experience and knowledge and to illustrate some of the product development efficiency challenges that we have helped our customer overcome," Grealou said.

Chief engineers are striving for cost-effective solutions to support their product development priorities—creating more innovative, better and cost-effective products. A well-executed PLM strategy uniting people, processes and technology is a critical success factor for manufacturing companies large and small.

While PLM can be a major performance driver, realizing this success can be a challenge. According to a recent CIMdata study, 75 percent of executives reported not getting the returns expected from their PLM investments.

The webinar will reveal:

- Top five metrics leading manufacturers are using to get maximum value from their PLM
- Top three most commonly overlooked areas of PLM maturity hindering company-wide performance
- The number one PLM priority manufacturers are investing in for 2015
- Practical advice on aligning your organization for PLM success
- Important pitfalls to avoid when considering implementing PLM solutions

Webinar attendees are eligible to receive a PLM Analytic Benchmark Assessment, a 17-point, high-level analysis that compares the performance of a company's PLM environment against industry best practices and also identifies areas for potential value realization.

Register for the webinar at the link below:

https://attendee.gotowebinar.com/register/113346819415195137

↑Click here to return to Contents

Western University Engineering Students to Benefit from Major Siemens PLM Software Grant
4 March 2015

Western University will now use the same technology in its Faculty of Engineering classrooms that businesses around the world employ to design some of today's most sophisticated products thanks to an in-kind software grant from Siemens PLM Software. The new academic partnership was announced earlier today.

Siemens PLM Software is a leading global provider of product lifecycle management (PLM) software and services for a wide variety of industries including automotive, aerospace, machinery, medical

devices, shipbuilding and electronics.

By utilizing Siemens PLM Software for course work, research and other academic studies, Western Engineering students will develop the advanced skills required by the more than 77,000 global customers who already utilize Siemens' software and technology solutions, including 29 of the world's top 30 automakers.

This in-kind grant for Western includes Siemens PLM Software's NX software, a leading integrated solution for computer-aided design, manufacturing and engineering. The commercial value of the in-kind software grant is $522,039,200.

"Siemens PLM Software is committed to providing students with the opportunity to learn on the PLM tools used by many leading manufacturers and technology companies. Through our academic partnership with Western University, we are empowering the next generation of engineers," says Dora Smith, Global Director, Academic Partner Program, Siemens PLM Software.

Western Engineering Dean Andrew Hrymak is pleased to partner with a global corporation that is on the leading edge of PLM technology.

"This partnership enables us to meet the needs of employers while preparing our students for a variety of STEM-related careers," says Hrymak. "Our students will gain real-world experience during their studies by using the same technology in the classroom that is used by companies all over the world."

London, Ont.-based Longterm Technology Services Inc., a Siemens Channel Partner, worked closely with Western and Siemens PLM Software on this landmark partnership.

⬆️*Click here to return to Contents*

Events News

BOGDAN & VAN BROECK's Leo Van Broeck and McGregor Coxall's Adrian McGregor to Keynote Vectorworks Design Summit in Philadelphia
4 March 2015

Designers who dream of transforming the world are invited to join a community of visionaries at the 2015 Vectorworks Design Summit on April 27-29 at the Sofitel Hotel in Philadelphia, PA. The event features breakout sessions by leaders in the architecture, landscape and entertainment industries, as well as opportunities to network with Vectorworks® software engineers, power users, third-party partners and other professionals during educational sessions, meals and evening events. Registration is now open at www.vectorworks.net/design-summit.

"Every day, designers choose Vectorworks because it's a tool that allows great design to materialize from inspiration, exploration and discovery," says Nemetschek Vectorworks' Chief Marketing Officer Stewart Rom. "The Design Summit will provide a gathering point for our community of users to generate new energy for upcoming projects, sharpen their vision and share pioneering designs. I hope attendees leave the event feeling moved to continue creating unexpected and exciting design solutions."

Keynote Speakers

The Vectorworks Design Summit begins Monday, April 27 with optional, pre-conference training in Vectorworks software and a welcome dinner. Tuesday's schedule opens with a presentation by CEO

Sean Flaherty, who will discuss how Nemetschek Vectorworks supports the creative process and helps designers in their journey toward working smarter and more efficiently.

Flaherty's presentation will be followed by an inspirational keynote message from design visionary Leo Van Broeck, a founding partner of BOGDAN & VAN BROECK in Belgium. Van Broeck will share his theory that the design of attractive, dense and high-quality urban areas is a catalyst for changing how much space people think they need to lead enjoyable and meaningful lives, and how that belief has led to his active participation in the promotion of spatial quality and awareness, the domain of urban density and optimal land use.

Nemetschek Vectorworks' Chief Technology Officer Dr. Biplab Sarkar will open Wednesday's sessions with a keynote address, providing unprecedented development insight into the Vectorworks line of CAD and BIM design solutions, including features that will be in Vectorworks 2016.

Adrian McGregor, FAILA, RLA, MAIH, MPIA, managing director of Australian landscape architecture and urban design firm McGregor Coxall, is Wednesday's Closing Speaker. McGregor transforms public spaces across the world into living, breathing works. His firm has completed work in six nations, focusing on sustainable design in the public domain and urban settings, going beyond the reduction of environmental damage and using regenerative approaches to actively advance each site's ecology. McGregor has been recognized for his work in sustainable design, as well as in mediation, helping communities, authorities and developers to work together to create better-informed designs.

Breakouts and Expo Hall

Confirmed breakout session speakers at the Design Summit represent firms and industry partners including ROJO Architects, MORRIS, Holcombe Norton Partners, Inc., Exhibit Logic, LEVENBETTS, The Small Group, Bluebeam Software, Architecture Is Fun and more. Sessions will examine a wide range of topics from communicating design ideas, moving from 2D to 3D and using smart CAD tools for sustainable site design to utilizing Vectorworks as a BIM tool and rendering for success. Vectorworks engineers and product experts, as well as third party partners like MAXON Computer, Asite and Synchro Software, will also provide product training and answer attendee questions in the Design Summit's Expo Hall.

For the academic community, a student track offers tips on what design firms look for when hiring and University of Pennsylvania graduate student Diego Bermudez shares how he turned a school project into $10,000 as the winner of the 2014 Richard Diehl Award and a Vectorworks Design Scholarship. There will also be speakers representing Columbia University, Parsons The New School for Design, School of the Art Institute of Chicago, and Philadelphia University.

Click here to return to Contents

CGTech to Showcase VERICUT Applications at AeroDef
5 March 2015

At the 2015 AeroDef Manufacturing Conference & Exposition with Composites Manufacturing, CGTech will be demonstrating how critical simulation is when trimming composite parts. Throughout the show, in booth 443, CGTech will also be demonstrating VERICUT Composite Applications: VERICUT Composite Paths for Engineering (VCPe), VERICUT Composite Programming (VCP) & VERICUT Composite Simulation (VCS).

"Because composite workpieces have a significant amount of process time and labor in them prior to machining, they can be more expensive than even some exotic metal alloy workpieces," said Bill Hasenjaeger, CGTech's Product Marketing Manager. "It's usually not possible to repair a composite workpiece damaged during machining. Thus, validation of the part program is extremely critical."

CGTech will be exhibiting its latest version of VERICUT software. VERICUT is CNC machine simulation, verification and optimization software that enables users to eliminate the process of manually proving-out NC programs. VERICUT simulates all types of CNC machining, including drilling and trimming of composite parts, water jet, riveting, robotics, mill/turn and parallel kinematics. VERICUT runs standalone, but can also be integrated with leading CAM systems.

Visitors to CGTech's booth will also have the opportunity to receive a thorough overview of the steps needed to get from a CAD designed composite part to CNC programs that drive an Automated Fiber Placement (AFP) or Automated Tape Laying (ATL) machine. There will be information on new projects that highlight the implementation and use of machine independent off-line NC programming software for AFP and ATL machines, such as the work being done at NASA's Langley Research Center using a 16-tow Electroimpact automated fiber placement machine. Current customer projects to be highlighted include extensive use of robots, lasers, probing, and ultrasonic knifes.

David Brin and Mark R. Anderson to Keynote COFES 2015

27 February 2015

Cyon Research announced that David Brin will give the Friday keynote and Mark R. Anderson will give the Saturday keynote at COFES 2015. COFES: The Congress On the Future of Engineering Software will be held in Scottsdale, Arizona from April 16-19 at the Scottsdale Plaza Resort.

The two keynotes resonate with the COFES 2015 theme: "Stepping Back to See the Big Picture."

Engineers and software professionals spend the majority of their time getting things done, tightly focused on execution of tasks and plans. Along the way, they are continuously faced with choices, big and small. Too often, decisions are made in the narrow context of what is directly in front of them. This year, COFES takes a giant step backwards in order to challenge attendees to broaden their view: to think about thinking about the bigger picture.

Brin's keynote is "The murky road ahead: from an Internet of Things to human augmentation and AI… Looking beyond the five year ROI horizon." According to Brin, responsible companies and chief engineers must focus on the five year return on investment, but they must also consider other horizons. If they do not, they could face the same demise as great companies like Polaroid, Kodak and Xerox. His keynote will focus on determining how much time/energy/budget should be spent on exploring the realm of "what-if" possibilities.

Anderson's keynote is centered on "Security, Risk, and Software: Protecting Crown Jewels from State-sponsored Theft." Anderson explains that it is impossible to gauge risk levels in the protection of corporate secrets today without understanding the role of national business models built upon crown jewel IP theft. In his keynote, Anderson will describe the latest research into the causes and levels of effort behind large-scale, state-sponsored Advanced Persistent Threat (APT) attacks. Lastly, having briefed the White House, CIA, NSA and other government agencies here and abroad, he will share some

of the same suggestions on pragmatic ways to address these risks.

"David Brin and Mark R. Anderson are both highly sought-after for their depth and breadth of knowledge and their proven ability to foresee major changes to society and the economy," said Brad Holtz, president and CEO of Cyon Research Corporation. "Their vision and insights will leave attendees with significant takeaways, knowledge, and a bigger picture perspective."

⬆️*Click here to return to Contents*

Delcam to Show new PowerSHAPE Pro Reverse Engineering Tools at Develop3D Live
2 March 2015

Delcam will launch the 2015 R2 version of its PowerSHAPE Pro software for the design of products and tooling at the Develop3D Live Conference and Exhibition to be held at Warwick Arts Centre on 26th March. The new release includes a number of new options for reverse engineering as well as improvements to speed up and simplify the editing of product designs to make them more suitable for manufacture.

By offering a combination of solid, surface and direct modelling, together with reverse engineering, 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 any product-development process that requires both reverse-engineering and CAD functionality.

PowerSHAPE Pro can connect directly to most scanning hardware to capture and display scan data in real time. The 2015 R2 version includes a new split-screen alignment option that makes it quicker and easier to combine multiple scans, taken, for example, from the opposite sides of a part. The new method also allows more accurate snapping of alignment points, giving greater accuracy in the resulting single model.

PowerSHAPE Pro can be used to take cross-sections through the scan data to generate wireframe for the generation of surfaces. The wireframe can be simplified automatically into lines and arcs, reducing the number of points needed to describe the item and giving more precise geometry for the re-engineering of the model.

Another new option is the ability to morph a complete solid or surface model to a mesh. This can be used to compensate for spring-back when pressed parts are released from their tooling. Morphing can be used to update a nominal CAD model to match the part as it is made in reality or to modify the surfaces of the tool so that the part can be produced in the desired shape represented by the CAD model.

On the modelling side, analysis of models has been made easier as the Smart Feature Selector now displays the type and parameters of each feature interactively as the cursor is moved around the model.

In addition, the ability of the Smart Feature Selector to find, select and edit multiple similar features has been extended. Now, any number of items of the same type, not just similar features, can be edited in a single operation. For example, all the arcs within a model could be set to the same diameter or all the holes could be made the same depth.

Two enhancements have been made to the tools for the creation and editing of curves. Firstly, the Composite Curve tool has been more efficient so that it needs fewer clicks to create the curve, even when following fragmented edges. Secondly, the Re-point dialog now displays the deviation between

the original curve and the new one, and it is also possible to re-point a curve to a known tolerance. This makes it even easier to create high-quality, smooth surfaces when re-engineering scan data or when remodelling an existing design to allow it to be manufactured.

Findings of Once-in-a-Lifetime Simulation Summit to be presented at COFES 2015
5 March 2015

IntrinSIM and Cyon Research announced that the key findings of their jointly held summit: ASSSESS (Analysis, Simulation and Systems Engineering Software Summit will be presented on Thursday, April 16, at COFES 2015.

ASSESS, the Analysis, Simulation, and Systems Engineering Software Summit was a watershed event. Modeled after the great summits in the sciences of the early 20th century, bringing together influential representatives from major engineering corporations, leading industry analysts, software and hardware vendors, and distinguished members of the academic and financial communities. The ambassadors to the summit were among the leading thinkers of our industry, and people of substantial influence with the power to effect change. The summit was underwritten by the non-profit Center for Understanding Change (http://c4uc.org) and hosted by the Santa Fe Institute (http://santafe.edu). The list of ambassadors and sponsors can be found at http://cofes.com/assess

The Summit was designed to put a stake in the ground and prioritize issues facing the simulation software market as a whole, and to discuss how we can address these issues. The ambassadors raised 108 issues addressing the Analysis, Simulation and Systems Engineering Software community. These issues were organized into five major areas for consideration by five working breakout groups. Each group then presented their top priority issues to the plenary of ambassadors.

The plenary then discussed and debated the relative importance of the presented issues, resulting in a ranked list, with seven issues standing significantly higher than the others. The summit concluded with seven ambassadors volunteering to present and discuss in depth and these key issues, at COFES 2015. The issues (and presenters) are:

- Analysis and Optimization pre-CAD
  - Presented by Dipankar Choudhury, of ANSYS
- The Ability to combine heterogeneous models in an automated and reliable way
  - Presented by Steve Coy, of Timelike Systems, with Hubertus Tummescheit, of Modelon
- Unsexy stuff is key
  - Presented by Mary Fortier, of General Motors
- Knowledge Capture and reuse of simulation output (i.e., turning data into knowledge) for design, model and simulation construction, problem formation, and system performance (not SLM, SDM, or SPDM)
  - Presented by Marc Halpern, of Gartner
- Web, Cloud, Mobile (platform)

- o   Presented by Jon Hirschtick, of Onshape
- Design-Centered Workflow
  - o   Presented by Keith Meintjes, of CIMdata
- Usability
  - o   Presented by Malcolm Panthaki, of Comet Solutions

Brad Holtz, president and CEO of Cyon Research, and Joe Walsh, President of intrinSIM, will continue work with those in attendance to discuss the next steps for an ASSESS (Analysis, Simulation and Systems Engineering Strategy) initiative.

This special ASSESS session at COFES is free of charge but by invitation only. COFES 2015 is also by invitation only (fee required). Interested parties should contact Brad Holtz of Cyon Research or Joe Walsh of intrinSIM to obtain an invitation. It is highly recommended that those attending this ASSESS summary review also consider attending COFES as this will enable ongoing discussions with many of the original ASSESS ambassadors and others interested in the ASSESS initiative.

⬆*Click here to return to Contents*

NAFEMS Industry Focus: Oil & Gas
5 March 2015

NAFEMS, the International Association for the Engineering Analysis Community, has announced a series of events and free downloads related specifically to the use of engineering analysis and simulation in the oil and gas industry. This specific industry focus will see free webinars and downloads available at nafems.org/offshore as well as industry specific seminars taking place in both Houston (USA) and Aberdeen (UK) in the coming months.

A host of challenges face the oil and gas industry at the moment, with increasing pressure to minimize costs, safety risks, downtime, and emissions. As the industry looks to become ever more safe and efficient, simulation and analysis has a key role to play going forward. The accurate representation of the reality of loading and response of offshore installations and their mechanical components requires a multidisciplinary approach, as well as knowledge of current best practices & standards to deliver the innovative solutions which are required by industry.

As with many industries, simulation is now becoming a vital part of the engineering design process. With this reliance on the technology comes the need for increased use of the wealth of knowledge organizations such as NAFEMS can provide, in order to ensure that companies and individuals are leveraging best-practices in their day-to-day work, as well as carrying out simulation to recognized standards and as efficiently and accurately as possible.

"NAFEMS' program of events and technical publications cover simulation and analysis across every industry, providing a global overview of the technology in a software-independent way", commented Matt Ladzinski, VP Americas at NAFEMS. "Coordinating a series of events specifically focused on the use of simulation in a particular industry allows attendees and presenters to focus directly on the multitude of issues which are prevalent in their own day-to-day work, maximizing the take-away value for all involved."

Registration and free downloads are available now at nafems.org/offshore

⬆️*Click here to return to Contents*

Financial News

GRAITEC Reports 40% Growth for 2014
27 February 2015

GRAITEC reports a turnover of 47.2 million Euros for the fiscal year ending December 31st 2014. This represents a growth in turnover of over 40% compared with 2013, with an EBITDA ratio of 7.5%. This increased revenue was achieved through organic growth and planned strategic acquisitions.

GRAITEC continues its role as an ambitious player in the AEC market and is set to be a key worldwide Autodesk BIM partner. Thanks to the European reach of the Autodesk Platinum agreement, signed in 2014, covering UK, France, Germany, Italy, Czech Republic, Poland and Romania, GRAITEC has already secured a number of large multi-national contracts with several enterprise customers looking for an independent, fully proficient supplier to implement BIM to optimize their costs and improve service quality across their offices.

To view an unabridged version of this press release, visit:
http://www.graitec.com/Us/news.asp?NewsID=814

⬆️*Click here to return to Contents*

Stratasys Reports Fourth Quarter and Fiscal Year 2014 Financial Results
2 March 2015

Stratasys Ltd. announced financial results for the fourth quarter and fiscal year 2014.

Q4-2014 Financial Results Summary:

- Revenue for the fourth quarter of 2014 was $217 million, representing a 40% increase over the $155.1 million for the same period last year.
- GAAP net loss for the fourth quarter was $92.0 million, or ($1.81) per share, compared to a loss of $2.0 million, or ($0.04) per share, for the same period last year.
- Non-GAAP net income for the fourth quarter was $24.9 million, or $0.48 per diluted share, compared to non-GAAP net income of $25.8 million, or $0.50 per diluted share, reported for the same period last year.
- Revenue from MakerBot branded products and services contributed $26.6 million to fourth quarter revenue.
- The Company invested a net amount of $21.4 million in R&D projects (non-GAAP basis) during the fourth quarter, representing 9.8% of net sales.
- The Company generated $14.9 million in cash from operations during the fourth quarter, and finished the year with approximately $443 million in cash and cash equivalents and short-term

bank deposits. The cash balance includes a $50 million drawdown on the company's revolving debt facility.

- EBITDA for the fourth quarter amounted to $29.6 million.

- As previously announced, in December 2014, the Company updated the goodwill impairment analysis of its MakerBot reporting unit. As a result, the Company recognized a non-cash, non-tax-deductible goodwill impairment charge of $102 million in the fourth quarter.

- The Company sold 11,214 3D printing and additive manufacturing systems during the quarter, and on a pro-forma combined basis, has sold a total of 121,661 systems worldwide as of December 31, 2014.

Fiscal 2014 Financial Results Summary:

- Non-GAAP revenue for fiscal 2014 was $750.4 million, representing a 54% increase over the $486.7 million for the same period last year. GAAP revenue for fiscal 2014 was $750.1 million compared to $484.4 million for fiscal 2013.

- GAAP net loss for fiscal 2014 was $119.4 million, or ($2.39) per share, compared to a loss of $27.0 million, or ($0.64) per share, for the same period last year.

- Non-GAAP net income was $103.6 million for fiscal 2014, or $2.00 per diluted share, compared to non-GAAP net income of $82.0 million, or $1.84 per diluted share, reported for the same period last year.

- Fiscal 2014 reported revenue and earnings were within the company's pre-announced ranges provided on February 2, 2015.

- Backlog at the end of 2014 amounted to $14.3 million, versus $28.5 million at the end of 2013.

David Reis, chief executive officer of Stratasys, said, "Growth in our core business reflects the increasing demand for additive manufacturing, and our leadership within the marketplace. During the fourth quarter, MakerBot was affected by challenges associated with the introduction and scaling of its new product platform and its rapidly evolving distribution model. As market adoption continues to evolve and to the extent MakerBot continues to establish and expand sales channels, the Company expects MakerBot growth rates to ramp up to, or exceed, overall Company averages by 2016."

To view an unabridged version of this press release, visit:
http://investors.stratasys.com/releasedetail.cfm?ReleaseID=899095

Click here to return to Contents

Implementation Investments

Atmel Uses ANSYS Simulation Solutions to Power the Internet of Things

3 March 2015

Atmel® Corporation is using engineering simulation solutions from ANSYS to model, analyze and optimize its broad Internet of Things (IoT) product portfolio from scalable embedded microcontrollers and microprocessors to wireless connectivity gateways.

Power consumption, data security and communication standards compliance are critical design

requirements for IoT applications. Striking an optimal balance among such concerns as power efficiency, antenna integration performance, security and cost is a key design challenge faced by engineers developing devices that enable the proliferation of IoT.

Atmel's SmartConnect WINC1500 low-power WiFi 2.4GHz IEEE 802.11 b/g/n system-on-chip (SoC) and the latest ARM® Cortex®-M0+ microcontroller (MCU) deliver extreme low power, compact size and comprehensive connectivity. The Atmel design teams around the world leveraged ANSYS® HFSS™, ANSYS RedHawk™ and ANSYS Totem™ to design and validate these complex SoCs and platforms used across multiple IoT application segments. ANSYS simulation solutions help enable Atmel to meet stringent power/performance requirements, ensure reliable operations across a wide range of frequencies and deliver products with tight time-to-market constraints.

"As a leading provider of IoT solutions, we are committed to delivering the most comprehensive and highly integrated IoT solutions with world-class accuracy, performance, reliability and ease-of-use," said Marc Rougee, vice president of strategic initiatives, Atmel Corporation. "ANSYS engineering simulation tools give us the confidence that the design of our products will meet our customers' power and performance targets to enable next-generation secure and connected designs for IoT."

"IoT is creating tremendous growth opportunities for the entire electronics ecosystem, from semiconductor manufacturing to systems integration to applications development. ANSYS is excited to be a partner to the Atmel design teams as they develop innovative technologies that fuel machine-to-machine communication and the industrial Internet," said Aveek Sarkar, ANSYS vice president.

[↑]*Click here to return to Contents*

FOTON Motors India Operations (FIO) Selects Aras for PLM across Design and Manufacturing Processes
4 March 2015

Aras® today announced that Foton Motors Manufacturing India Private Limited (FIO), has selected the Aras Innovator suite for enterprise Bill of Materials (BOM) management, product costing and engineering data management. Foton Motor Co. Ltd is one of the world's largest commercial vehicle manufacturers and the company is setting up a new factory in Chakan near Pune, India to produce commercial vehicles for the India market.

Foton will implement multiple Aras solutions, for document management, CAD file management, BOM management and product costing management. Working with Aras authorized system integration partner SteepGraph Systems, Foton will implement Aras Innovator for improved collaboration between product development teams and downstream functions including manufacturing and supply chain operations.

"We intend to develop an integrated IT architecture for enterprise-wide collaboration where Aras will play an important role. We have sought the help of SteepGraph Systems for their expertise." said Mr. Jagdish Amane, General Manager – IT of Foton Motors India. "The Aras Innovator suite is a flexible

platform and will help us extend product data from engineering to downstream operations."

Foton India plans to manufacture and launch a range of vehicles in India. Foton India is in the process of the design and development to localize existing products for the Indian market from Foton China including product development activities both in-house and with the collaboration of suppliers.

Smoove Selects ThingWorx® Internet of Things (IoT) Platform for Connected Bike-Share Service
3 March 2015

ThingWorx, a PTC® business and Internet of Things (IoT) platform provider, announced today that Smoove, a French developer of bikes and bike share systems, has selected the ThingWorx IoT Platform to power its bike-share service in cities throughout the world. This commitment extends Smoove's 2009 selection of PTC Creo® and PTC Windchill® for the design and development of its bike components.

Bicycle sharing is a service that is growing across large cities around the globe as an alternative to traditional motorized transportation in order to reduce traffic congestion and its associated environmental impact. The program makes bikes available for shared used to people on a short term basis, typically 30-45 minutes.

With the prevalence of mobile, Internet-connected technologies, many apps can show nearby stations that have available bikes and open docks. To address this trend, Smoove has developed the Smoove Box which is placed on the bike to use the sensor systems currently present to guide riders to the appropriate station docks. With the ThingWorx IoT Platform, the data collected can be shared with city administrators to facilitate better access and placement of bike stations to accommodate actual customer use and preferences. This ability enables Smoove to have a vision where bike-share systems can genuinely integrate the Internet of Things and not just isolated business software solutions.

"We chose the ThingWorx IoT Platform for its flexibility and versatility in use and the opportunities for enhancing the diversification of our offer," said Denis Mercat, chief technical officer, Smoove. "Without a doubt, the ThingWorx platform will enable Smoove to reduce integration and adaptation times in an international context and to develop new services to promote the values of sharing, ecology and respect for modern and sustainable urbanism. We are counting on ThingWorx to support us in our medium and long-term international development."

The ThingWorx IoT Platform, via local Clouds, can monitor and analyse a multitude of complex data to optimise the use and management of the Smoove bike-share service. Additionally, it is an open application that is ready to use, easy to deploy, and very fast to configure with systems already installed. These key capabilities are of significant value, most notably at the international level where the Smoove technology has to adapt to extremely varied standards.

"Smoove is a good example of how IoT technology can enable improvements in the quality of urban life, in pollution and mobility," said Russ Fadel, president, ThingWorx. "The ThingWorx platform will enable Smoove to simplify and speed its development, reducing the time it takes Smoove to deploy bikes and its bike-share services. Additionally, the proven performance and scalability of ThingWorx will support Smoove throughout their international expansion."

Using both PTC and ThingWorx technology, Smoove is able to design, manufacture and provide after

sales follow up and maintenance of bike share systems and services. Towns, municipalities, transport operators and business can receive personalized data-driven dashboards that deliver meaningful and actionable data about its bike-share system.

⬆️*Click here to return to Contents*

Product News

3DSemantix Announces 3DPartFinder™ Solutions for Oracle AutoVue and Agile PLM Solutions
2 March 2015

3DSemantix is happy to announce at the Oracle European Value Chain Summit 2015 the release of 3DPartFinder™ for Oracle AutoVue and Agile PLM Solutions to accelerate Product Development and productivity through reuse of Assets and related data. With 3DPartFinder™ for AutoVue everyone involved in the process of creating new products achieve their goals more efficiently!

No need to have a CAD station to locate the most similar parts with 3DPartFinder in AutoVue. Manufacturing engineers can use 3DPartFinder to locate the most appropriate manufacturing process, quality inspection check-list or any other document within the Oracle Agile PLM system or other systems such as your ERP. Purchasing teams can quickly identify suppliers for a new part, compare cost for similar designs using shape as a key characteristic for their search.

"Manufacturing companies are continually challenged to bring innovative and profitable products to market faster. With 3DPartFinder for AutoVue, companies can fully exploit the value of existing intellectual property," says Thierry Bonfante, senior director, Product Development AutoVue and Fusion Visualization at Oracle. "With advanced shape-based search capabilities, engineers and librarians can quickly and efficiently locate optimal parts for reuse. Candidate parts are ranked by similarity and securely displayed in AutoVue, where users can analyze and compare models and make a final selection; thereby reducing costs and speeding up time-to-market."

"Our Customers have been looking for shape-based search for quite some time. It was only when we met the 3DPartFinder Solutions we knew we had found the best product for our Clients. By integrating the advanced geometric search capabilities of 3DPartFinder in AutoVue and Oracle Agile PLM, our Customers can now access their key assets for reuse very efficiently," explains Denis Senpere vice president, enterprise product lifecycle management Solutions at Oracle EMEA.

3DPartFinder allows leveraging data stored in the Oracle Agile PLM systems. No need to copy existing 3D model for indexing, no need to install a new part management system or whatsoever.

Every user can trust 3DPartFinder to locate the most appropriate part and related information available in Oracle Agile PLM. 3DPartFinder supports leading CAD files formats and CAD systems environments like: CATIA V5, NX, PTC Creo, Autodesk Inventor, Solid Edge or SOLIDWORKS.

With High accuracy 3DPartFinder Analytics, Enterprises get full control of part creation and can identify automatically any duplicate or nearby duplicate design created. Team leaders can quickly review the situation and prevent triggering the entire process of creating a new part. 3DPartFinder Analytics can supply a full Diagnostic Dash Board to help Oracle PLM customers' measure their progress with their reuse strategy and generate their own KPI's. 3DPartFinder Analytics allows Oracle

PLM customers clean-up the 3D model database from any duplicates or assist standardization teams to create standard parts and reduce inventory cost. With process speed of one million parts per hour, it won't take long before getting a full diagnosis!

"With 3DPartFinder Solutions, Oracle AutoVue and Agile PLM Customers can count on the most adapted shape-based search solutions for each group of users from design to manufacturing and purchasing. And on top of that, 3DPartFinder is not only simple and efficient to use but also to implement!" comments Bertrand Houle vice president sales of 3DSemantix.

Increase product development and productivity through reuse of key assets and related data with 3DPartFinder for AutoVue from Oracle!

AVEVA Partners with EMC to Deliver Integrated Solution for Capital Projects and Asset Operations
2 March 2015

AVEVA announced today that it has collaborated with EMC Corporation's Enterprise Content Division to deliver an integrated software solution for the management and control of engineering data and associated documents. Designed for the specific needs of Owner Operators (OOs) and Engineering, Procurement, Construction companies (EPCs) in the plant and power markets, the integration will provide increased efficiency and information accuracy to support safe and compliant capital project execution and asset operations.

'By combining two best-in-class product suites into a single solution, AVEVA and EMC are delivering a set of capabilities that provides truly comprehensive decision making,' said Derek Middlemas, COO and Head of Enterprise Solutions, AVEVA. 'This supports all business processes in capital projects and asset operations where the requirement for high integrity documents and associated engineering data to maintain safety and compliance is vital.'

With equal strength in data management and document control, this unrivalled solution is enabled by a seamless bi-directional interface between AVEVA NET based Digital Information Hub (DIH) solutions and the EMC® Documentum® Engineering, Plant and Facilities Management (EPFM) solution suite. This comprehensive solution creates, captures, reviews, edits and publishes documents and associated engineering data through a controlled and auditable process.

'Effective management and control of asset information is critical to the success of major capital projects and efficient asset operations,' said Chris McLaughlin, CMO, EMC Enterprise Content Division. 'By bringing together AVEVA NET and the EMC Documentum EPFM solution suite, OOs and EPCs can quickly relate data and document information, empowering customers to gain new levels of efficiency without compromising safety and compliance.'

Based on years of experience in the energy and engineering industries, Documentum EPFM solution suite was specifically designed to address information management challenges throughout the project, plant or asset lifecycle - from design and construction of new facilities, to operations and maintenance and eventual decommission. The solution suite combines industry best practices with the enterprise-level capabilities of EMC Documentum, and an architecture that enables tight integration with existing systems.

Mr Middlemas added, 'The business benefits that result from being able to effectively manage

engineering data and associated documents from multiple sources are well known. This partnership means OOs and EPCs no longer have to select separate vendor solutions or rely on a less capable product from a single supplier.'

⬆*Click here to return to Contents*

Collaborativ™ PLM Software for Apparel & Footwear Announced

3 March 2015

Apparel and footwear industry software experts Xperia Solutions have launched the new Collaborativ™ Product Lifecycle Management (PLM) software suite to speed up the product development cycle, lower costs, improve communications, and enable customers to rapidly bring apparel and footwear products to market. The software, which is integrated with the company's Comprehensiv™ Enterprise System (ERP), is easy to learn and use.

"Gaining every competitive advantage is critical for success in today's highly competitive fashion industry," said Xperia Vice President of Sales and Marketing Alan Robezzoli. "Yet many apparel and footwear PLM solutions fail to deliver the ease-of-use needed to collaborate effortlessly and efficiently with a company's internal development team and supply chain. Xperia's Collaborativ™ PLM Suite delivers on all of this and more."

Software benefits include:

- A robust PLM functionality optimized for the apparel and footwear fashion industries.
- Easy-to-learn and quick-to-implement programs mean customers can be up and running in a few weeks.
- Increases efficiency and speeds up collaboration among development team and supply chain members.
- Organize and browse by brand, season, product, customer, license, supplier, or any combination, and receive online notification of comments and approvals.
- Enables tighter control of samples, costs, approvals and schedules throughout the product development process using a centralized approval system and flexible templates to track and approve lab dips, fit, materials, testing and more.
- Replaces multiple copies of tech packs and confusing emails by using a central repository and threaded messaging.
- Built-in version control with real-time updates so everyone is on the same page.
- Flexible and configurable to capture all specifications such as colors, sizes, graphics, graded measurement specs, and full bill of materials, with all changes are logged for easy auditing.
- Integrates seamlessly with Xperia's Comprehensiv™ ERP to save time and eliminate duplicate data entry.
- Easily create RFQs and sample requests with just a few clicks.

- Full visibility by season, buyer, supplier, customer, type (prototype, fit, top of production, etc.)

- Share access with suppliers for order confirmation and keep everyone on the same page and focused on meeting delivery dates.

- Grant controlled supplier access to tech packs, sample requests and approvals, and allow suppliers and factories to update workflows.

- Affordable cloud-based solution provides easy access to team members worldwide.

- Stay on track with configurable workflows that help users track critical milestones and identify delays fast.

Click here to return to Contents

Dassault Systèmes Announces General Availability of Release 2015x of the 3DEXPERIENCE Platform
3 March 2015

Dassault Systèmes today announced the general availability of Release 2015x of the 3DEXPERIENCE platform. R2015x offers a simplified and improved user experience with elegant and powerful enhancements that significantly increase productivity on premise, as well as on public or private cloud.

All of Dassault Systèmes' cloud customers were successfully and seamlessly upgraded to R2015x within a few hours and over the whole scope of the 3DEXPERIENCE platform, including design and engineering, 3D design, IP governance and lifecycle, simulation and manufacturing, making it the largest cloud portfolio in the market.

"Every single cloud customer is already taking advantage of the volume of new enhancements we've implemented in R2015x, demonstrating the power of the cloud model," said Dominique Florack, Senior Executive Vice President, Research & Development, Dassault Systèmes. "We are the first to truly take advantage of this model, in its simplicity, for our customers of all types and sizes."

In the age of experience, as business complexities grow, more companies are looking for one business platform to create innovative experiences from product to point-of-sale. Providing companies with functional tools that both add value and simplify tasks is crucial.

R2015x combines new user interface, applications, services and cloud infrastructure enhancements to offer a more robust performance and improved quality and usability, all while delivering the 3DEXPERIENCE platform's full social collaboration capabilities that customers rely on. Business units that employ Dassault Systèmes' portfolio of Industry Solution Experiences and day-to-day users of its brand applications in the company's twelve industries now enjoy increased productivity and an enriched user experience.

R2015x also includes hundreds of industry-specific enhancements to the platform's on premise and public or private cloud portfolio of Industry Solution Experiences. For example, users can now benefit from more than 250 new capabilities within the transportation and mobility industry alone, such as composites braiding and – in systems engineering - the ability to openly exchange models with support of the functional mock-up standard and to include kinematics. In the architecture, engineering and

construction industry, civil engineers can prepare for infrastructure design by creating a realistic 3D model of ground and underground. In life sciences, the portfolio addresses collaborative authoring and engineering of biological entities and pathways, as well as navigation of scientific information.

In addition, R2015x introduces groupings of applications called 'roles' to best match users' needs. They are designed to cover a broader set of activities that users need to accomplish in industry-specific domains. Users of the platform can access and select roles directly from the 3DCompass of the user interface. Examples of roles include: creative designer, project manager, stress analysis engineer or process planner. In R2015x, there are 219 roles on premise, 115 roles on public cloud and 115 roles on private cloud.

Among R2015x's key user interface developments, users can enjoy touch-friendly ease of use and can effortlessly customize their interface and toolbars, which is a particular advantage for expert tasks. All applications are touch enabled, and a real or virtual touch pad allows faster and easier access to a customized set of applications. Simplified editing features, accelerated loading of large sessions and better contextual toolbar availability further contribute to the quality of the user experience.

Dassault Systèmes is also committed to the continuing compatibility and synchronization between V5 and V6. R2015x offers an ease of interface that lets V5 customers benefit from their existing deployments and take advantage of V6 applications, as well as powerful openness and coexistence capabilities for a heterogeneous environment with a user's suppliers and other software.

"R2015x offers quality and robustness that will particularly resonate among industrials seeking to unify the user experience across multiple processes for enhanced and more efficient innovation," added Dominique Florack.

IndiaCADworks Announces New 3D Printing CAD File Creation Services
2 March 2015

IndiaCADworks is pleased to announce the immediate availability of advanced 3D printing CAD file creation services for businesses and individuals throughout the world — especially architects, building engineers, real estate developers, furniture designers, furniture manufacturers and 3D printing companies. Customized 3D printing file creation services supplied by IndiaCADworks help clients to cut model-building cost and time without sacrificing quality. ICW outsourcing customers will be able to scale models more quickly without hiring new employees.

IndiaCADworks can get started with 3D printing CAD file creation services as soon as clients provide detailed drawings and specifications for texture, color and finishes — and drawings can be hand-drawn sketches. ICW's output capabilities include .CTL, .WRL, .OBJ and .STC formats. ICW always provides 100 percent compatibility for all 3D printers. IndiaCADworks has advanced expertise involving specialized printing technologies such as FDM (Fused Deposition Modeling).

As noted by a Senior Operations Manager at IndiaCADworks, "ICW offers at least seven cost-effective benefits when you outsource 3D printing file creation and other CAD services to us. Among the competitive advantages of outsourcing 3D printing CAD file creation and modeling needs to IndiaCADworks are our 24/7 availability and 14 years of specialized CAD experience — our clients can eliminate many of the most expensive CAD-related software upgrade costs and don't need to invest in

additional infrastructure or employees to get the job done quickly and right. One of the best reasons for outsourcing your 3D printing file creation requirements to IndiaCADworks is that we're always ready to operate on your schedule. When you need our help, we'll be ready!"

IndiaCADworks provides a choice of pricing plans for its 3D printing file creation services — per file, hourly and full-time-equivalent pricing. If clients are uncertain about which option to choose, IndiaCADworks can provide cost estimates using all three approaches.

Exclusive and customized 3D printing file creation services offered by IndiaCADworks will provide benefits to a wide group of stakeholders — especially 3D printing businesses, architects, furniture manufacturers, real estate development professionals and other individuals who regularly develop creative ideas that involve model-making.

⬆️*Click here to return to Contents*

KISTERS 3DViewStation V2015.0 goes 2D

2 March 2015

KISTERS has announced the release 2015.0 of the 3DViewStation. The KISTERS 3DViewStation is known for the modern user-interface, high performance 3D-viewing and Digital MockUp (DMU), current and mature CAD-importers for i.e. Catia, NX, Creo, SolidWorks, JT, 3D-PDF and STEP plus a reasonable set of functional tools to view, analyze and communicate 3D-data as i.e. STEP, JT or 3D-PDF.

3DViewStation V2015.0 ships with a fresh Office compliant user interface and provides functionality, which can be leveraged by the user quite intuitively. The focus of the latest developments has been set to significantly enrich the 2D file format support.

There have been several 2D file formats been added: besides 2D-PDF and CatDrawing KISTERS 3DViewStation now also supports DWF, HPGL, HPGL/2, Gerber, BMP, CALS, GIF, JPG, JPEG2000, PBM, PNG, PNM, PPM, TIFF. Support for DWG, DXF and Office is under development right now. Regarding 3D file formats KISTERS 3DViewStation now offers support for latest NX 10, Solidworks 2015, JT 10 and Parasolid 27. Catia Piping objects are also supported and a STEP healing function has been added.

Other news include explosion of solids into faces, a convex hull calculation, improved clash detection and transparency handling.

The KISTERS 3DViewStation is developed very close to customer requirements, available as Desktop, ActiveX and HTML5 WebViewer product-version. All product flavors are intended to be used together with a PLM-, ERP- or other management system – all necessary APIs are provided. For cloud, portal and web-solutions there is a HTML5-based Browser solution available, which does not require any client installation at all. All file formats can be used in combination with the intelligent navigation- and hyperlinking features to address needs of complex integration scenarios.

⬆️*Click here to return to Contents*

MathWorks Expands Support for Xilinx Zynq-7000 All Programmable SoCs and Altera SoC FPGAs
5 March 2015

MathWorks announced its expanded support for targeting Altera® SoC FPGAs and Xilinx® Zynq®-7000 All Programmable SoCs. The newest release of MATLAB and Simulink allows engineers and scientists using Model-Based Design to reduce their time-to-production with a higher degree of confidence, all within a single tool environment.

Devices in the Xilinx Zynq-7000 family and the Altera SoC family incorporate a dual-core ARM® Cortex®-A9 coupled with powerful programmable logic fabric. This combination enables engineers and scientists to design and implement algorithms on a single chip that consumes less space and power. Now, MathWorks provides a guided workflow to develop and simulate algorithms which can be validated quickly and deployed onto these SoC devices, leveraging automatically generated C and HDL code.

In addition to existing support for the Xilinx ISE® Design Suite and the Zynq Intelligent Drives Kit, the extended support provides integration with the Xilinx Vivado® Design Suite, Zynq SDR development platforms, and Altera SoCs. As a result engineers and scientists can prototype quickly on a hardware platform and then incorporate the generated C and HDL code into production environments through the use of Altera and Xilinx tool sets.

"MathWorks expects semiconductor vendors to continue to expand their offerings of heterogeneous, programmable SoCs" said Amnon Gai, manager, corporate development and partner programs at MathWorks. "As applications are migrating from processor-only technology to programmable SoCs, the ability to generate C and HDL code from MATLAB and Simulink makes MathWorks uniquely positioned to address the growing demand for a unified hardware/software workflow using Model-Based Design."

The expanded support for Xilinx Zynq-7000 All Programmable SoCs and Altera SoC FPGAs is currently available in Release 2014b. MathWorks also offers a two-day training class to help engineers get up and running quickly on this technology. For more information, visit the Release 2014b highlights page.

⬆️*Click here to return to Contents*

MecSoft Releases RhinoCAM 2015
3 March 2015

MecSoft Corporation has announced the availability of RhinoCAM 2015, a major version release for MecSoft's integrated CAM solution for Rhino.

RhinoCAM 2015 includes four CAM modules known as RhinoCAM-MILL, RhinoCAM-TURN, RhinoCAM-NEST, and RhinoCAM-ART, each of which run integrated inside the Rhino 5 CAD program and can be bought and licensed independent of each other. All CAM modules were significantly enhanced and improved in this 2015 release to provide customers with a powerful and complete manufacturing platform.

"In this new release of RhinoCAM, we have not only significantly enhanced all of our CAM modules

but are also introducing our first automatic machining functionality. With the introduction of Hole Feature detection and the automatic machining of these hole features, we are significantly increasing the productivity of our customers. All of this new functionality makes the Rhino and RhinoCAM 2015 combination one of the best design and manufacturing systems in the market today, even when compared with systems that cost significantly more." stated Joe Anand, President and CEO of MecSoft Corporation.

⬆*Click here to return to Contents*

PTC Introduces PTC Mathcad Prime 3.1

2 March 2015

PTC today announced the availability of PTC Mathcad Prime® 3.1 engineering calculation software, designed for engineers who want to analyze, solve, document and share vital calculations and design intent. This new version allows users to better connect engineering calculations to other applications and processes including PTC Creo® 3.0 and other third-party tools.

This enhanced integration with PTC Creo allows users to embed a PTC Mathcad Prime 3.1 worksheet directly in their CAD model, at the part or assembly level. Embedding a worksheet allows better capture of design intent that stays with the model automatically. Calculation results can be used to drive the geometric model in PTC Creo, and parameters from PTC Creo can be used as inputs to engineering calculations in PTC Mathcad®. This new ability to quickly and easily document engineering knowledge and design intent within the PTC Creo 3.0 model provides engineers with a powerful digital engineering notebook.

Boston Engineering, a product design and engineering services firm (and PTC reseller), has been a long-time PTC Mathcad user. The firm leverages the software throughout the product development lifecycle - from design specifications through the engineering calculations. Historically, if a CAD model was "spun off" to create a new revision or model, the team needed to update and map the calculation file to the new product. But with PTC Mathcad Prime 3.1, users can embed the worksheet directly within the PTC Creo model at the part or assembly level. It then becomes part of the model and part of any iteration that's leveraged from the part or file.

"Being able to link these calculations with the part or assembly that we are developing is incredibly beneficial because that saves time managing two completely different files," said Mike Conry, Boston Engineering's Advanced Systems Group (ASG).

Additionally, PTC Mathcad Prime 3.1 features several new enhancements designed to make the product a single solution for engineers and design teams to capture and communicate their critical design and engineering knowledge.

- **New, Improved API:** Integrate PTC Mathcad Prime 3.1 with any CAD platform, design software, analysis tool, PDM systems or other application.
- **Large Data Handling:** Data sets to be analyzed can now utilize all available machine memory – no longer is there a system-imposed 2GB memory ceiling.
- **Expanded, Extensive Library of Pre-Built Worksheets:** Draw from over 700 pre-built templates for calculations across mechanical, electrical, civil & structural and chemical engineering, as well as applied mathematics and education.

- **Integration with Other Tools:** Connect to Prode© physical properties, CoolProp© fluid properties, read and write in HDF5 file format, read and write to any ODBC-compliant database, and export matrices to C++ code.

"We are very pleased to share PTC Mathcad Prime 3.1" said Brent Edmonds, Senior Director of PTC Mathcad. "In this release we worked very hard to provide a solution that makes sharing vital engineering calculations and design intent a simple, cost-effective process. Gone are the days of having to waste time going back and updating and mapping the calculation files to a new product each time a design is modified. With PTC Mathcad Prime 3.1 we are essentially giving our users back the time – and cost – of setting up new projects."

Click here to return to Contents

STL, the Standard Format for 3D Printing, is now Available at TracePartsOnline.net
4 March 2015

TraceParts allows designers to validate their project parts with 3D printing.

Just like open-access CAD content, which has been widely available for the last 15 or so years, 3D printing is on the verge of revolutionizing the industrial parts market. For industrial design professionals, minimizing the development cycle for new products is a top priority. With an engineering platform such as TracePartsOnline.net, they can now identify, view and download the part that they need for their design project in the CAD format of their choosing.

However, the final stage of validating their design project, which involves producing models or prototypes, raises certain challenges. This is where 3D printing really comes into its own.

To date, design professionals have only had one solution for producing their prototypes, namely reaching out to manufacturers or vendors, requesting samples and waiting for delivery before getting started on assembling the prototype. Thanks to 3D printing, they can now freely download the CAD models for each part in STL format (STereoLithography) and begin printing.

Parts suppliers can save precious time for their customers with 3D printing, while significantly reining in the costs associated with storage, administration, obsolescence and delivery from their stock of samples.

"Our manufacturer and distributor customers are constantly wondering how they can deliver superior quality of service to engineering and design firms, while streamlining operating costs. Our download solution, which is compatible with 3D printing and accessible from our TracePartsOnline.net industrial parts library, means that they can build a win-win strategy with specifiers", concludes Christian Baumgärtner, Managing Director of TraceParts GmbH.

Click here to return to Contents

TCS Launches Business Process Innovation, Simulation & Visualization as a Service (VaaS)

2 March 2015

Tata Consultancy Services (TCS), today announced the launch of Business Process Innovation and Simulation & Visualization as a Service (VaaS) in a strategic partnership with iRise, a leader in enterprise visualization and simulation software. TCS' new offerings will enable customers to realize business solutions faster by accelerating time to value.

The partnership will help enterprises achieve business agility through integration of rapid simulation and visualization capability into established TCS Software Development processes. TCS' VaaS offerings on iRise 10 software will enable customers to more precisely collaborate globally on application design, user scenarios, and specifications that drive development of business requirements, while covering all critical stages of customers' business initiatives. Recently launched, iRise 10 brings iRise's groundbreaking collaborative prototyping and requirements features to the browser, allowing enterprises to scale creation, distribution and collaboration of visualizations in more powerful and impactful ways.

In addition, TCS' Global Business Solutions Lab is creating Business Process Innovation through a new Visualization Center of Excellence (VCoE), providing one of the largest interoperable platforms on a private cloud for driving faster adoption of niche technologies and innovation with technology interoperability across various industries. This CoE, within TCS' Business Solutions Unit, will create visualizations that deliver value for development of all interoperable solutions at TCS, including proof of concepts and technologies. This approach will enable joint TCS and iRise teams to bring "first-time right" business processes, software and development methodologies, product engineering expertise and guidance, as well as best practices to the VCoE.

"TCS and iRise's partnership enables customers to drive agility on business critical initiatives including business analytics, big data, connected network and real-time intelligence," said TCS' Raman Venkatraman, Global Head of Alliances & Technology Unit. "The power of iRise 10's visualization and simulation software along with TCS systems integration capabilities and solution accelerators will yield rapid business value driving digital re-imagination, simplification and governance."

Emmet B. Keeffe III, CEO and Co-Founder of iRise, said, "Once again TCS is pioneering a new way for businesses to drive value through IT investments. Speed of delivery has never been more critical, and we anticipate TCS' new capability will help CXOs and their teams conquer this challenge. TCS is at the leading edge in harnessing the power of visualization, and we are very excited to partner with them on this initiative."

Click here to return to Contents