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CIMdata News

BAE Systems Executive, Neil J. Fleming, to Present at CIMdata's PLM Road Map for the Aerospace & Defense Industry in collaboration with PDT Europe

18 October 2016

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces that Neil J. Fleming, IM&T Solution Design Manager at BAE Systems Maritime Submarines, will make a presentation on “Improving PLM Delivery Performance with Solution Adoption Measures Linked to Milestone Approval,” at PLM Road Map™ for the Aerospace & Defense Industry. PLM Road Map will take place on November 8 and will be followed by PDT Europe on November 9-10. The venue for both events is the Renaissance Paris La Defense, Paris, France.

Since 2010, BAE Systems Maritime Submarines has been running a major business change program to create an Integrated Product Delivery Environment (IPDE), including a new PLM solution implementation. In such a large and complex transformational program, a number of design and delivery challenges were encountered along the way, and by 2014 IPDE was under significant pressure to fulfill its full scope. Customer contractual requirements changed, requiring objective evidence of the business adoption of new tools and processes, which were to be linked to milestone payments for completion. The remaining IPDE deliverables were re-planned as a series of six releases to take place during 2015 and 2016. The content of each release was negotiated with stakeholders, and a series of business-focused adoption measures agreed and publicized. A requirements management toolset was used to ensure clear linkage between requirements and test/acceptance criteria, and resulted in great improvements to the quality of the releases. Delivery performance dramatically improved, and the program is currently on track to complete on plan and within budget. Mr. Fleming's presentation will describe the changes in the program management approach and the resultant improvements in delivery performance.

As the IM&T Solution Design Manager for BAE Systems Maritime Submarines, Mr. Fleming is part of the team responsible for implementing PLM in a major submarine program. After graduating from Paisley College of Technology, Mr. Fleming joined Vickers Shipbuilding & Engineering Ltd (now part of BAE Systems) where he carried out combat systems design and integration testing. He then moved to the Surface Ships department, where he set up and managed a Novell Netware PC/Mac network for tendering purposes. After transferring to the Program Management Office for a surface ship program, he became involved in a business change program which led to a move to the Engineering CAD Department.

PLM Road Map 2016 for the Aerospace & Defense (A&D) industry is the must-attend event for A&D industry executives and PLM practitioners globally—providing independent education and a collaborative networking environment where ideas, trends, experiences, and relationships critical to the A&D industry germinate and take root.

For more information visit: <http://www.cimdata.com/en/education/plm-conferences/2016-plmrm-ad-pdt>

About CIMdata

CIMdata, a leading independent worldwide firm, provides strategic management consulting to maximize

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

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

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CIMdata to Host Free Webinar on PLM Standards

17 October 2016

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces an upcoming free educational webinar, "Navigating the PLM Standards Universe." The webinar will take place on November 10, 2016 at 11:00 a.m. (EST).

CIMdata recently researched over 230 PLM-related standards. Over 60 of the standards that impacted engineering and manufacturing were researched in more depth. This enabled the development of a list of 20 standards that are really important for an organization's PLM vision. During the webinar the top standards will be discussed in detail. Webinar attendees will gain an understanding of why these standards are important and why the industry should care about them.

According to the webinar host, CIMdata's Practice Manager for PLM Success, Chris Gregory, "As PLM expands to encompass the entire product lifecycle, forwards into product ideation and outwards to the extended supply chain, PLM standards are becoming increasingly critical to our organizations. But which ones? CIMdata recently surveyed over 230 PLM-related standards. Which of them are the critical few that impact our organizations and partners? This webinar will address this vital topic."

Mr. Gregory has over 30 years of experience with major PLM solution providers, with broad experience and cross functional roles in services, product marketing, sales support, strategic alliances, business development, and program management. He has led PLM implementations for over 100,000 users, representing over US\$250 million in proven ROI. Chris has developed teams with US\$300 million in direct and indirect sales over his career.

The webinar will be an hour long and will show which PLM standards are important for your business, why PLM standards are needed, and where PLM standards are headed.

The webinar will be useful to PLM team leaders, PLM team members, PLM business champions, IT leadership and solution providers, or anyone who wants to learn more about important PLM standards.

During the webinar attendees will have the opportunity to ask questions about the topics discussed. To find out more, visit: <http://www.cimdata.com/en/education/educational-webinars/webinar-navigating-the-plm-standards-universe>. To register for this webinar please visit: <https://attendee.gotowebinar.com/register/6503065192249442305>.

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CIMdata Releases Series of Country-Specific PLM Market Analysis Reports

18 October 2016

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces the release of seven additional country-specific 2016 PLM Market Analysis Reports. These new reports follow the release of the 2016 China PLM Market Analysis Report earlier this year.

The CIMdata PLM MAR series presents CIMdata's analysis of the 2015 product lifecycle management (PLM) market. The complete global analysis provides CIMdata's perspective on PLM across a variety of industry and geographic sectors, identifies market trends, reviews investments in PLM-related software and services during 2015, and forecasts PLM investments for 2016 through 2020. It includes charts that present the overall PLM market and its various sectors as defined by CIMdata. These include collaborative Product Definition management (cPDm), tools and tools sub-sectors, and digital manufacturing.

In addition to its global PLM Market Analysis reports, CIMdata now offers eight country-specific PLM Market Analysis Reports:

- Brazil
- China
- Germany
- India
- Japan
- Russia
- South Korea
- United States

These reports focus on the PLM market in each country, including its main segments and the 2015 financial results for PLM solution and service providers. Each country report includes estimates of

spending by industry segment within the country, market presence within the country, growth of the top 10 suppliers in that country, revenue by global mindshare leaders, market shares in each measured segment, and five-year forecasts.

“The solid growth in most PLM segments in 2015 was mostly washed out by strong currency effects,” according to Stan Przybylinski, CIMdata’s Vice President of Research. “In U.S. dollars, the global PLM market only grew 2.8% in 2015, but CIMdata estimates the growth in constant currencies at 8.2%. At \$6.9 billion in 2015, the United States is the largest market and is forecast to grow at a compound annual growth rate (CAGR) of 4.6% through 2020. Germany was second in this group, with 2015 revenues of \$3.25 billion and a CAGR of 4.9%. PLM revenues in Japan were \$3.23 billion and a CAGR of 5.8 %. These three countries have dominated the PLM market for years, and will maintain that position. However, South Korea (at \$638.6 million and a 6.8% CAGR) and the emerging PLM economies of Brazil, China, Russia, and India have great potential. CIMdata estimates the 2014 PLM revenues in Brazil were \$263.5 million (7.0% CAGR), in India \$553.5 million (8.4% CAGR), and in Russia \$232.1 million (5.4% CAGR), and that these high growth rates (along with potential for Russia) will place them among the global PLM revenue leaders.”

The CIMdata country-specific PLM Market Analysis Reports are available for purchase at www.CIMdata.com.

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Company News

AVEVA Intends to Partner with Capgemini to Deliver Software as a Service Ecosystem on Amazon Web Services

19 October 2016

At its flagship annual industry conference, the AVEVA World Summit, AVEVA made two strategic announcements. Firstly, it intends to use Amazon Web Services to deliver “AVEVA Connect” a Software as a Service (SaaS) ecosystem for Engineering, Design and Information Management Products. Further, AVEVA announced “AVEVA NET Connect”, an Information Management as a Service offering, planned to be delivered with Capgemini Technology Services as the first solution on

the AVEVA Connect Platform.

AVEVA Connect intends to deliver new opportunities to drive down IT costs, improve flexibility to scale software usage to meet project demand and increase focus on core business activities without compromising security or user experience.

“With AVEVA NET Connect, the Digital Asset will have the capability to be rapidly deployed in the cloud, allowing cross-disciplinary teams to collaborate and share information with complete clarity on the engineered status, of the entire project or operating asset”, explained Dave Wheeldon, Chief Technology Officer (CTO) at AVEVA. “This will enable greater collaboration between all parties in the supply chain, and better decision making by Assets Operators.”

AVEVA has chosen Amazon Web Services to be its cloud technology provider for the launch of its Cloud-based SaaS offering and intends to have Capgemini Technology Services as its strategic delivery partner, because of its market position, global reach and its security and reliability credentials.

Ian Massingham, Chief Evangelist - Europe, Middle East & Africa (EMEA) at Amazon Web Services said, “AVEVA have been quick to recognise the benefits of moving to AWS and we are excited to support the delivery of AVEVA Connect to help them to lower costs and improve agility, flexibility and security for their customers.”

“For a business critical solution like AVEVA NET Connect the design and delivery of Information Management services is equally as important as the software solution so a simple ‘lift and shift’ to the cloud is not appropriate,” said Abdelmajid Boutayeb, Senior Vice President, Communications & Energy-Utilities at Capgemini Technology Services. “Instead we have worked closely with AVEVA for several years and applied our Cloud Choice methodology so AVEVA NET Connect can soon be delivered as an enterprise ready, cloud-hosted, business services solution in the challenging markets that AVEVA serves.”

“AVEVA has closely monitored the evolution of Cloud computing over the last few years”, said Richard Longdon, CEO, AVEVA. “We are committed to delivering a complete portfolio of solutions in the Cloud which will allow our clients to access all our solutions flexibly and cost-effectively, protecting investments in intellectual property, people and relationships with contractors.”

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Dodge Data & Analytics and Autodesk Collaborate to Make BIM Product Info and Data Available Through Autodesk Software

19 October 2016

Dodge Data & Analytics and Autodesk have initiated a collaboration to advance workflow integration and interoperability for design and construction industry professionals.

Through Dodge Data & Analytics' Sweets App for Autodesk Revit software, comprehensive product content is delivered through the application of Revit to help streamline the product selection process for architects, engineers and construction professionals involved in selection, purchase and installation of building products. The Sweets App for Autodesk AutoCAD software will also become available for download for AutoCAD subscribers.

"This collaboration reinforces Dodge's commitment to delivering analytic insights and developing solutions that create value at every stage of the construction process,' said Mike Petrullo, Chief Executive Officer, Dodge Data & Analytics. "Working closely with an industry leader like Autodesk strengthens our shared vision of an integrated platform that delivers the capabilities to give design and construction businesses an edge in a rapidly changing industry."

The Dodge-Autodesk collaboration will also define a roadmap to work on integrating both companies' workflow and data tools more broadly throughout the design and construction lifecycle, helping foster industry-wide adoption of Building Information Modeling (BIM). Increased integration of BIM technology is already reshaping processes and project management across the industry.

"We're excited to work with Dodge Data & Analytics because of the potential for development of innovative solutions that deepen connections between design and construction professionals," said Angi Izzi, Senior Industry Strategy Manager, Autodesk.

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Elmo Solutions Announces CAD/PDM/PLM Integration for SAP ERP Systems

18 October 2016

Elmo Solutions announces a strategic partnership agreement with SAP. Under the agreement, the leader in manufacturing data integration will introduce a connector for Agni Link, its live, bidirectional CAD/PDM/PLM-ERP data integration system, that will provide support for SAP ERP, SAP Business Suite and SAP Business One.

The new connectors will allow live, bidirectional integration between SAP ERP platforms and a number of CAD/PDM/PLM applications, including:

- SOLIDWORKS
- SOLIDWORKS PDM Professional, Enterprise PDM (EPDM)
- AutoCAD and its various "flavors" (Mechanical, Electrical, etc.)
- Autodesk Inventor
- Autodesk Vault

"We are excited to welcome SAP among our strategic partners. This represents an import milestone for the Elmo Solutions family of products," says Science Officer Ricardo Talbot. "Elmo Solution's development team is dedicated to providing the highest level of dependability to its SAP users. Knowing Agni Link is a SAP-compatible product will reassure these users they are achieving a very high level of productivity when using Agni Link and SAP."

Agni Link is a companion to CAD/PDM/PLM applications that provides real-time, bidirectional integration with ERP systems. It is the only application of its kind that offers a unique and reliable way to integrate CAD and ERP data, automatically resolving discrepancies, and allowing editing of CAD data using possible values obtained "live" from the ERP system, thus ensuring perfect synchronization of both data sets and completely eliminating redundant data entry as well as eliminating costly errors. Agni Link can process and synchronize a wide range of product data from either environment, including:

- Bills of Materials (BoMs)
- Jobs

- Estimating
- Sales Quotes
- Business Process Management (BPM) data
- Work Orders
- Production Orders
- Production Schedules
- Product Catalogs
- Product Configurations
- Parts Catalogs
- Technical Documentation
- Supply Chain Data
- Document Management
- CRM data

Agni Link addresses the needs of CAD/PDM/PLM and SAP users sharing product data throughout the enterprise. Designed with the end-user in mind, it includes powerful characteristics such as:

- An Integration Dashboard that allows validation of BoM data directly from the CAD environment
- A Configuration Builder that enables customers to create and edit an unlimited number of mappings.

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Lantek and Bystronic Announce an Innovation Partnership

17 October 2016

Bystronic has agreed to an innovation partnership with Lantek. The two companies have entered into a long term technology partnership and a strategic global alliance whereby Lantek will provide Bystronic with manufacturing management software systems and consultancy expertise.

Bystronic wants to satisfy its customers' needs with a reliable and robust manufacturing management system which has been widely tested worldwide to support its excellence in machines and its global sales network. Lantek brings its global presence, its software engineering expertise, and its unique and powerful manufacturing management system, providing an ideal match for the manufacturer. Together, Lantek and Bystronic will be able to accelerate the pace of key developments.

The aim is for the companies to collaborate to develop an MES system which will be seamlessly integrated with Bystronic's machine systems and software, resulting in a solution which will excel in cooperating with the Bystronic's systems, raising them to the next level of productivity and efficiency.

The collaboration will help in the realization of the digital factory for both Lantek and Bystronic customers. The combining of the resources and experience of these two industry pioneers in machine tools and software is a critical step in driving innovation and making the digital factory a reality.

Alberto Martinez, CEO, Lantek said, "I am thrilled that Lantek is now a technology partner for Bystronic, a symbol of innovation for machine tool builders worldwide. The Lantek technology

portfolio is wide and deep, and Bystronic's excellence in machine construction is world renowned. With innovation a part of the DNA of both companies, this partnership will help Bystronic's customers transform how they manage Bystronic machines and transcend the established boundaries in the sheet metal industry."

Bystronic CEO, Alex Waser, says: "With Lantek, we have gained a strong partner who will help us expand our existing software portfolio with new solutions. This partnership will provide our customers with twofold know-how. Together, Bystronic and Lantek will develop innovations that will guide users into a world of digitally networked manufacturing."

Both Lantek and Bystronic are celebrating their 30th anniversary this year, so the alliance marks this milestone for the two companies. For Lantek, the agreement will underpin its strategy which focuses on the digitalization of sheet metal companies worldwide.

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L&T Technology Services Inks Contract with Global Semiconductor Firm

19 October 2016

L&T Technology Services announced that it has secured a new multi-year, multi-million dollar contract with a large global semi-conductor company to provide verification support on their expansive portfolio of offerings and products. This strategic tie-up between the two companies will enable the customer to strengthen its product offering and capitalize on market opportunities with superior quality products.

"L&T Technology Services' focused effort on key customers is paying dividends. We have been awarded a multi-year partnership with one of the world's most respected technology companies. We will continue to provide cutting edge services and solutions to global customers," said Dr. Keshab Panda, CEO & Managing Director, L&T Technology Services.

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Tata Steel and BIMobject Sign Development Agreement

20 October 2016

BIMobject AB (BIMobject) and Tata Steel UK Ltd (Tata Steel) today announce that they have signed a development agreement with BIMobject. The agreement enables the two companies to work together in developing new tools for the advancement of data delivery for Building Information Modelling (BIM).

The technology will allow data to be applied to products across the virtual construction world, providing greater flexibility to designers and enabling data to be used for a multitude of purposes within the built environment.

Tata Steel use IBM solutions for its PIM (Product Information Management) system, which in combination with the BIMobject Cloud Platform which uses IBM Softlayer (including IBM Bluemix) creates exciting opportunities to improve data integrity. These capabilities significantly strengthen the single source of truth between PIM and BIM, by streamlining data access and information flows between the two data sets.

With the UK Government - and other governments worldwide - now requiring BIM for centrally funded projects, the need for accurate and relevant data to be provided by building product manufacturers is becoming paramount. This partnership will help lead the way for innovation in data delivery and encourage other manufacturers to invest in supporting the digital transformation in the Construction Industry.

"As BIM moves into an increasingly data rich environment it becomes even more important for building product manufacturers to make sure that they are providing accurate data and with the flexibility to adjust this as industry needs change. BIMobject Open Property Cloud (BOPC) already offer architects, designers, and manufacturers great flexibility in the management and provision of object data", says Stefan Larsson, Founder and CEO of BIMobject.

"The vision at Tata Steel, to better service their customers and to integrate existing Product Information Systems with BIM, strongly aligns with the BIMobject vision and we are delighted to be partnering with them in the development and deployment of these new advanced technologies" says, Alex Small, BIM manager at Tata Steel.

Alex Small continues, "With the UK Government, and many private companies, now asking for BIM level 2, Tata Steel need to ensure that they are able to deliver not just high quality products, but the data, technology and services that are required to accompany them.

The move towards BIM level 3, functional building efficiency and the 'Internet of Things' will all require new ways for Tata Steel to work with our customers and supply chain. There is no doubt that the company will need to work ever more closely with specifiers in the future and will therefore need to have digital tools that enable product information to be available to them in the formats they require."

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X-Rite Pantone Announce New File Format for Communicating Appearance for Virtual Design

20 October 2016

X-Rite Incorporated and its subsidiary Pantone LLC today announced the release of Appearance Exchange Format (AxF), a new file format that allows the full communication of visual appearance in a single, editable file in order to improve the virtualization process. A vendor-neutral format, AxF provides a standard way to store and share all relevant appearance data – color, texture, gloss, refraction, translucency, special effects (sparkles) and reflection properties – across Product Lifecycle Management (PLM), Computer-Aided Design (CAD), and state-of-the art rendering applications. AxF enables an entirely new level of consistency and accuracy in the digital representation of physical materials across these tools, streamlining the design process and accelerating time to market.

"For a growing number of brands in industries ranging from automotive to fashion and home goods, apparel, and media and entertainment, product appearance is a crucial element of the buying decision," said Dr. Francis Lamy, Executive Vice President and Chief Technology Officer, X-Rite Pantone.

"Appearance must, therefore, be an integral part of the design-to-production process and not just an afterthought. AxF makes this possible."

Integration of real world materials has always been the missing link in virtual product design. Traditionally, design teams have approximated the physical (optical) behavior of materials in digital tools through tedious and time-consuming, manual re-creation and editing. These 'hand-made' virtual representations are neither accurate nor able to be shared across the numerous design and rendering tools used at various stages of the workflow, creating significant challenges for designers.

AxF helps address these challenges by providing a vendor-neutral file format to convey all appearance attributes digitally. AxF enables the creation of full-scale digital mock-ups featuring even sophisticated materials such as special-effects paints, leather, plastics, fabrics, wood, and brushed metals. AxF accelerates time to market by reducing design time and approval cycles. By solving interoperability issues across PLM, CAD, and rendering software applications, AxF ensures that design and marketing teams achieve a consistent look and feel from digital prototyping to showroom and point-of-sale

environments.

X-Rite Pantone has a proven track record in developing global standards that ensure digital color information is accurately and efficiently communicated among technologies and across the entire supply chain. In 2015, the ISO TC130 committee adopted X-Rite Color Exchange Format version 3 (CxF3) as the standard for color data exchange and verification for the Graphic Arts industry.

In creating AxF, a format that identifies a material and describes all of its appearance properties, X-Rite gives designers a way to capture more than just color. This capability is critical for complex materials with characteristics such as gloss, translucency or special effects that influence perception of appearance.

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Events News

Additive Manufacturing Users Group Opens Conference Registration

28 October 2016

The Additive Manufacturing Users Group (AMUG) today announced that online registration is now available for its 2017 Education & Training Conference, which will be held in Chicago, Illinois, at the historic Hilton Chicago, from March 19 - 23, 2017. The users group conference, now in its 29th year, is open to owners and operators of commercial additive manufacturing (3D printing) technologies.

AMUG brings together engineers, designers, supervisors, plant managers and educators from around the world to share expertise, best practices, challenges, and application developments in additive manufacturing. The AMUG Conference will include technical sessions and hands-on workshops designed to help users get more from, and do more with, their systems. Through its Technical Competition and Awards Banquet, excellence in applying additive manufacturing and contributions to the industry will be recognized. The five-day event also includes the two-night AMUGexpo, networking receptions and catered meals.

Steve Deak, AMUG president, said, "The AMUG Conference attracts a broad cross-section of expertise from across the additive manufacturing space. This results in an unmatched energy between members at the conference and unprecedented sharing of ideas that challenges the additive manufacturing industry to improve." He continued, "I particularly enjoy the dialog between long-time members and the fresh ideas of our new members, which move the technologies forward."

The conference agenda is expected to contain over 200 presentations and hands-on workshops. One highlight will be the third annual Innovators Showcase. The showcase is an on-stage interview, which has the feel of a fireside chat, where attendees get to know an innovator in the industry and discover insights from that individual's experiences. For 2017, the special guest will be Carl Deckard, inventor of Selective Laser Sintering (SLS) and co-founder of DTM Corporation, which was acquired by 3D Systems Corp.

Deak noted, "Our agenda will keep attendees very busy, but we will provide ample time for networking. Year after year, we hear that the networking component of the AMUG Conference is what makes our event unique."

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ASCENT– Center for Technical Knowledge Brings Comprehensive Training Curriculum to the

American Society of Plumbing Engineers Expo

18 October 2016

Rand Worldwide today announced that its courseware division, ASCENT– Center for Technical Knowledge, will showcase training materials for design engineering CAD software tools most commonly used by those in the mechanical, electrical and plumbing industry at the American Society of Plumbing Engineers (ASPE) 2016 Convention and Expo in Phoenix, Arizona from October 31 to November 1, 2016.

“It’s a first for us to be in front of the members of the ASPE community, sharing our learning solutions and experience with mechanical, electrical and plumbing professionals at the ASPE Expo,” says Paul Burden, director of product development for ASCENT. “While attendees may be familiar with our training courseware for Autodesk, Dassault Systèmes and PTC, they may not know that ASCENT also offers customized courseware, eLearning solutions, and digital site licenses that allow unions and other large groups to print custom learning materials on-demand.”

Attendees are invited to booth #151 to browse ASCENT’s sampling of learning materials for Autodesk, Dassault Systèmes and PTC software products. As well, attendees will have an exclusive Q&A opportunity with ASCENT’s Autodesk Revit expert, Martha Hollowell. Martha is the author of ASCENT’s Autodesk Revit Architecture, Revit Structure and Revit MEP training materials. Visitors to the booth will also receive a promo code to save 25% off training materials. This code will be valid until December 31, 2016. ASCENT’s line-up of books at the booth include:

- eBooks for Autodesk, Creo and CATIA
- AutoCAD®/AutoCAD LT® 2017 (R1): Fundamentals
- Autodesk® Inventor® 2016 Tube and Pipe Design
- Autodesk® Revit® 2017 (R1) MEP Fundamentals
- Autodesk® Revit® 2016 Architecture: Review for Certification
- Introduction to Plant Design® 2016

ASCENT training courseware materials are available for purchase from ASCENT’s eStore and Amazon.com.

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Bentley Systems 2017 Year in Infrastructure Conference to be Held in Singapore

17 October 2016

Bentley Systems, Incorporated today announced that The Year in Infrastructure 2017 Conference will be held Oct. 10-12, 2017 in Singapore. The conference will take place at Sands Expo and Convention Centre at Marina Bay Sands. The Singapore location brings the conference to a city recognized globally for its innovation in infrastructure and for the first time to Asia.

Greg Bentley, CEO, Bentley Systems, said, “I have long admired Singapore for its innovative use of technology in the delivery and operation of infrastructure, and now it is leading the world with its BIM advancements. In 2015, Singapore was designated the most ‘Tech-Ready Nation’ by The World Economic Forum’s Global Information Technology Report. In addition to Marina Bay Sands’ unrivaled conferencing facilities and luxurious accommodations is its spectacular structural design and engineering. We are proud to note that this extraordinary building was structurally engineered using Bentley Systems software.”

The structural design of the Marina Bay Sands Resort was done by Arup and was the 2010 Be Inspired Award winner for Innovation in Structural Engineering. It includes three 55-story towers, 2,561 rooms, 1.3 million square feet of meeting space, a 300-store mall, a museum, two large theatres, restaurants, and the world's largest atrium casino. It is topped by a 1,120-foot-long Sky Park with a capacity for 3,900 people and a 490-foot infinity swimming pool—the world's largest public cantilevered platform.

Jeannie Lim, executive director, conventions, meetings, and incentive travel, Singapore Exhibition & Convention Bureau, said, “We are delighted to welcome Bentley Systems’ Year in Infrastructure Conference to Singapore in 2017, and we are honored to host it for the first time in Asia. Similar to Bentley Systems using software to advance infrastructure, Singapore is also gearing up to be a ‘Smart Nation’ by harnessing technology to empower citizens and further strengthen our economy. We wish the conference success, and hope that participants will have the opportunity to experience some of Singapore’s many unique attractions.”

The Year in Infrastructure Conference is a unique opportunity to learn about best practices in advancing collaboration and technological innovation among the architectural, engineering, construction, and operations disciplines and includes:

- global leaders in infrastructure design, construction, and operations sharing knowledge and best practices through presentations, interactive workshops, and projects nominated for the annual Be Inspired Awards;
- opportunities to learn from the Be Inspired Awards program, which recognizes the most outstanding BIM advancements and achievements in designing, engineering, constructing, delivering, and/or operating safer, more resilient, sustainable, and intelligent roads, bridges, buildings, plants, water distribution networks, and a host of other infrastructure assets; and
- networking opportunities with industry peers and thought leaders from around the world.

The Year in Infrastructure Conference is a global gathering of leading figures in the world of infrastructure design, construction, and operations. It features presentations, interactive workshops that explore the intersection of technology and business drivers, and the annual Be Inspired Awards that showcase and detail nominated projects and project finalist presentations on extraordinary projects that took advantage of Bentley Systems’ BIM advancements to enhance both project and asset performance. The conference will return to London in 2018.

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Dassault Systèmes’ 3DEXPERIENCE FORUM to Showcase Business in the Age of Experience

18 October 2016

Dassault Systèmes today announced that its annual 3DEXPERIENCE FORUM will be held at Levi Stadium in Santa Clara, Calif. on November 10. The event will address “Doing Business in the Age of Experience” and Marshall Van Alstyne, the co-author of Platform Revolution, will deliver the keynote presentation, leveraging his expertise on the power of platforms to disrupt industries.

To demonstrate how companies are driving their businesses to create winning and delightful experiences for customers, Dassault Systèmes has amassed thought leaders, customers, and senior executives from a variety of industries, including aerospace and defense, high tech, and energy processing & utilities. Attendees will hear from Dassault Systèmes’ Vice-Chairman of the Board of Directors, President & CEO Bernard Charlès on Showcasing the Experience Economy and Executive Vice President and Chief

Strategy Officer Monica Menghini on How the Age of Experience is Transforming the Economic Model.

“The Digital Economy is dominated by platforms that are disrupting traditional industries. As digital networks increase in ubiquity, businesses that do a better job of harnessing the power of platforms will win,” said Marshall Van Alstyne. “I look forward to speaking with attendees at Dassault Systemes’ 3DEXPERIENCE FORUM about how they can build successful platform companies and benefit from the platform revolution.”

In addition to the keynote and customer presentations, attendees will also be able to learn by discussing and sharing their experiences and thoughts at roundtables hosted by industry experts. The roundtables will focus on the role of platforms in the digital economy, the opportunities and challenges of the sharing economy, and innovative manufacturing. Attendees will be able to interact with some of Dassault Systemes’ innovative applications in the 3DEXPERIENCE Playground featuring both partners and customers.

“A new business model is emerging in today’s connected society in which consumers value delightful experiences above any product or service,” said Bruno Latchague, Senior Executive Vice President, Global Field Operations (Americas). “During the 3DEXPERIENCE FORUM attendees will hear from customers and experts as well as each other about the challenges and solutions that will help them succeed in the age of experience. They will also learn about how the 3DEXPERIENCE platform transforms the way IT platforms are perceived by connecting people, ideas, solutions and data.”

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Saab Aeronautics, Aeronamic, Romer Labs, Leonardo S.p.A. Helicopter Division and Nidec ASI S.p.A. to Present at ACE 2016 Europe

18 October 2016

Aras® today announced the agenda for the ACE 2016 Europe conference. ACE 2016 Europe convenes global leaders to collaborate and connect, with an agenda sharing approaches to the complex challenges facing manufacturing and engineering product teams. The 7th annual event takes place on November 8 – 9, 2016 in Berlin, Germany.

Peter Schroer, Aras CEO and founder, will open the event with a keynote address focusing on the need to rethink PLM and how it relates to the business of engineering rather than the science of engineering. Professor Dr. Martin Eigner of the University of Kaiserslautern will present the impacts of the Industrial Internet, Industry 4.0 and IoT on PLM.

Customer presentations from Saab, Aeronamic, Romer Labs, Leonardo S.p.A. Helicopter Division and Nidec ASI S.p.A. will focus on their experience with Aras and what role PLM plays in the management of their global development processes.

The agenda features an “unconferenced” session with Peter Schroer, Aras CEO and Founder, as well as Rob McAveney, Aras Chief Architect. In this open format session, attendees can engage with Aras leadership in an open dialogue about technology advances and the vision ahead for Aras PLM.

Other Topics Include:

- Integrated Manufacturing Process Planning, PLM
- Enterprise Search
- Quality Management Systems

- Enhanced Visual Collaboration

Conference Details:

- Date: November 8 - 9, 2016
- Location: Berlin, Germany
- Free to Attend. Registration is required

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Financial News

ANSYS to Release Third Quarter and YTD 2016 Financial Results on November 3, 2016

17 October 2016

ANSYS, Inc. announced today that the Company expects to release its third quarter and YTD 2016 financial results on Thursday, November 3, 2016. The Company will hold a conference call conducted by James E. Cashman III, president and chief executive officer, and Maria T. Shields, chief financial officer, at 10:30 a.m. Eastern Time to discuss third quarter and YTD 2016 results and future outlook.

What: ANSYS Third Quarter and YTD 2016 Earnings Conference Call

When: November 3, 2016 at 10:30 a.m. Eastern Time

Participants may pre-register any time, including up to and after the call start time.

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IBM Reports 2016 Q3 Earnings

17 October 2016

IBM today announced third-quarter 2016 earnings results.

"IBM's third-quarter performance, led by continued double-digit growth in our strategic imperatives, is a testament to our leadership in cognitive solutions and cloud," said Ginni Rometty, IBM chairman, president and chief executive officer. "Our ability to apply deep expertise and breakthrough technology, led by Watson and the IBM Cloud, to massive amounts of data is enabling us to build new markets and transform industries. Whether it is banks implementing IBM blockchain solutions, hospitals leveraging Watson to fight cancer, or retailers using cognitive apps built on the IBM Cloud to transform the customer experience, clients across all industries are tapping into a new kind of innovation value from IBM."

"Throughout the year, we have continued to invest where we see the greatest opportunities to create new markets and strengthen our enterprise IT leadership position," said Martin Schroeter, IBM senior vice president and chief financial officer. "This has included more than \$12 billion across capital expenditures, R&D and acquisitions so far this year. At the same time, we have returned more than \$6 billion to shareholders through dividends and share repurchases."

Strategic Imperatives

Third-quarter revenues from the company's strategic imperatives --- cloud, analytics, mobility and security --- increased 16 percent year to year (up 15 percent adjusting for currency). Cloud revenues (public, private and hybrid) for the quarter increased 44 percent (up 42 percent adjusting for currency). Cloud revenue over the trailing 12 months was \$12.7 billion. The annual run rate for cloud as-a-Service

revenue --- a subset of total cloud revenue --- increased to \$7.5 billion from \$4.5 billion in the third quarter of 2015. Revenues from analytics increased 15 percent (up 14 percent adjusting for currency). Revenues from mobile increased 19 percent and revenues from security increased 11 percent.

Full-Year 2016 Expectations

The company continues to expect operating (non-GAAP) diluted earnings per share of at least \$13.50 and GAAP diluted earnings per share of at least \$12.23. Operating (non-GAAP) diluted earnings per share exclude \$1.27 per share of charges for amortization of purchased intangible assets, other acquisition-related charges and retirement-related charges. There is no change to IBM's previously provided free cash flow guidance.

[Read the full report here.](#)

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Infosys Announces Results for the Quarter ended September 30, 2016

14 October 2016

Quarter ended September 30, 2016:

- Revenues were \$2,587 million for the quarter ended September 30, 2016 QoQ growth of 3.5% in reported terms; 3.9% in constant currency terms YoY growth of 8.2% in reported terms; 8.9% in constant currency terms
- Operating profit was \$644 million for the quarter ended September 30, 2016 QoQ growth of 7.0% YoY growth of 5.6%
- Net profit was \$539 million for the quarter ended September 30, 2016 QoQ growth of 5.5% YoY growth of 3.8%
- Earnings per share (EPS) was \$0.24 for the quarter ended September 30, 2016 QoQ growth of 5.5% YoY growth of 3.8%
- Liquid assets including cash and cash equivalents and investments were \$5,349 million as on September 30, 2016 as compared to \$4,918 million as on June 30, 2016 and \$4,894 million as on September 30, 2015.
- The Board of Directors declared an interim dividend of ` 11 per share (\$0.17 per ADS based on USDINR rate of 66.62). The record date for interim dividend is October 24, 2016 and the payment will be made on October 26, 2016

“We focused on strong execution in Q2 with our core IT services business showing good progress on the strength of our innovation and operational initiatives. While we continue to navigate an uncertain external environment, we remain focused on executing our strategy and increasing momentum of our software plus services model. Considering our performance in the first half of the year and the near-term uncertain business outlook, we are revising our revenue guidance.” said Dr. Vishal Sikka, CEO.

“Longer-term, I believe it’s increasingly clear that our industry’s future lies in evolving from a cost-based, people-only model, to one in IFRS – USD Press Release Infosys Limited – Press Release Page 2 of 10 which people are amplified by software and AI, and are freed to innovate in areas that are strategic to our clients’ future. And in this all-important transformation, I am glad to see us make continued progress.”

“We had well-rounded growth during the quarter in our market segments. Our delivery and support teams executed well on their plans for resource management during the quarter, leading to an uptick in

utilization.” said U B Pravin Rao, COO. “I am also pleased that the changes we made to employee engagement, policies and rewarding high performers continue to help retain our high quality workforce.”

“Our margins expanded during the quarter on the back of further improvement in operational efficiency.” said M.D. Ranganath, CFO. “Operating cash flows for the quarter were healthy and we effectively navigated a volatile currency environment through prudent hedging.”

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SAP Announces Third Quarter and First Nine Months 2016 Results

21 October 2016

SAP today announced its financial results for the third quarter and nine months ended September 30, 2016.

[Read the Quarterly Statement PDF here.](#)

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Tata Consultancy Services Reports Financial Results for Quarter Ended September 30, 2016

13 October 2016

Tata Consultancy Services reported its consolidated financial results according to IFRS in dollar terms for the quarter ended September 30, 2016.

Business Highlights for Quarter Ended September 30, 2016

- Total employees: 371,519; Gross addition: 22,665 employees
- Clients in \$50M+ revenue band by 1 and in \$20M+ revenue band by 6

Commenting on the Q2 performance, N Chandrasekaran, CEO and MD, TCS, said, “It has been an ‘unusual Q2’ for TCS. Growing uncertainties in the environment is creating caution among customers and resulted in holdbacks in discretionary spending this quarter. In addition, volatility in markets like India and Latin America also muted revenue growth. It has been a good quarter from a profitability perspective where despite multiple headwinds our disciplined approach and focus on operations has helped us deliver a strong margin performance.”

Chandrasekaran added, “With technology increasingly at the forefront of business, we are confident that this is temporary. We continue our strong tradition of investing in building IP and solutions as well as talent for the future. Over 180,000 TCSers are now trained with significant expertise in new Digital technologies.”

Rajesh Gopinathan, Chief Financial Officer, TCS, said, “This has been a quarter of good financial performance with sequential improvement in profitability and strong cash generation despite multiple headwinds including global currency and market volatility through the quarter.”

During Q2, growth was led by Life Sciences and Healthcare which grew at 4.7% sequentially in constant currency followed by Energy & Utilities (up 3.6%), Manufacturing (up 3.1%), Travel & Hospitality (up 2.3%) and Communication and Media which grew 2%.

From a geography perspective, Europe saw strong growth at 3.7% and Asia Pacific at 3.5% sequentially in constant currency while North America grew 1.4% sequentially and UK was flat. India declined by 7.6% sequentially and Latin America also continued to show volatility.

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Implementation Investments

Accenture to Enable Hess Corporation's Transition to the Cloud

17 October 2016

Accenture has been chosen by Hess Corporation to help realize its As-a-Service vision that is part of the Hess IT transformation strategy. The new cloud-enabled operating model can ramp up or down IT infrastructure and digital technologies during volatile industry cycles. The model is underpinned by Accenture's cloud services and ecosystem of partners that includes leading public cloud providers.

"We believe this model can help us be more efficient, agile, capable and secure," said Zhanna Golodryga, SVP, Services and CIO for Hess Corporation, "by giving us important capabilities that use the latest digital services and technologies."

Under the terms of the five-year agreement, Accenture and Hess will work on planning, design and implementation of a technology solution that links field assets to a network of cloud-based offerings, delivered as-a-Service, with consumption-based pricing focused on reducing cost, increasing production, and simplifying technology. The project includes migrating Hess' applications and servers to the cloud.

Accenture will support the migration and redevelopment of applications using its cloud transformation services with security applications, and leveraging features of leading public-cloud providers for scalability.

"Challenging industry headwinds and continued commodity price volatility make it clear that a Journey to Cloud transformation for our energy clients' core businesses gives them a competitive advantage in today's As-a-Service economy," said Jack Sepple, senior managing director, Accenture Cloud and Accenture Operations group technology officer. "By leveraging our Cloud First approach and leading industry and technology capabilities for a consumption-based mode, Hess will be able to tap only the services it needs when and where it needs them, reducing extraneous costs and burden of legacy IT."

"Hess is pioneering cloud capabilities, Big Data and Machine Learning technologies in the energy industry to reduce cost and inefficiency across the company, including maintenance and operations," said John Coffey, managing director, Accenture Energy. "Digital As-a-Service capabilities, such as predictive analytics, can improve not only maintenance and uptime by heading off incidents, but also well reservoir planning and design; drilling and completions; and remote well monitoring."

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Addnode Group Signs PLM Agreement with Global Leading Train Manufacturer

17 October 2016

TechniaTranscat, a subsidiary to Addnode Group, has signed a new agreement with Stadler, a leading train manufacturer, covering implementation, software and services of a product lifecycle management system. The delivery consist of more than 2,000 user licenses.

Stadler employs approximately 7,000 people and the company has more than 75 years of history when it comes to train manufacturing. The company has its current headquarters in Switzerland. The PLM solution is based upon the 3DEXPERIENCE platform from Dassault Systèmes and proprietary software from TechniaTranscat. The assignment is to develop and implement a user friendly software to optimize product development and improve efficiency in larger processes and information flows. The fully

implemented platform will have more than 2 000 users.

“The acquisition of German Transcat PLM in 2015 was a huge step for us and we are now the market leader on the European PLM market with a strong capability to serve global organizations. That Stadler, with their high complexity and requirements, choose us as a strategic business partner shows that last year’s acquisition is strengthening our offering,” says Staffan Hanstorp, President and CEO of Addnode Group.

“Our leadership within digital product information and collaboration tools puts us in a unique value adding position for global organizations. The combination of Dassault Systèmes’ product portfolio together with our service agreement including our software components makes us a competitive player in an international market,” says Jonas Gejer, CEO at TechniaTranscat and President of Addnode Group PLM.

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Airbus Safran Launchers Selects Siemens to Fully Transform its Product Lifecycle Process

18 October 2016

Airbus Safran Launchers has selected Siemens to help transform its entire product lifecycle process in order to maximize quality and efficiency and minimize costs associated with the development and realization of all its launcher programs. Airbus Safran Launchers is a joint venture equally owned by Airbus Defence and Space and Safran, created by the desire of the two groups to take the European space industry to the highest possible level. It develops and supplies innovative and competitive solutions for civil and military space launchers. With estimated sales of 2.5 billion euros, it employs more than 8,000 highly qualified staff in France and Germany.

This new space industry leader will standardize on Siemens’ integrated aerospace solution –which leverages its product lifecycle management (PLM) and manufacturing operations management (MOM) software portfolios– to establish a common digital product development and realization platform. Airbus Safran Launchers cited the “end to end solution” of Siemens’ aerospace industry software and expertise as critical selection criteria.

“As we are implementing a new way of producing launchers, Siemens has challenged our working methods the most and enabled us to define the end to end solution of our PLM and manufacturing needs,” said David Quancard, Chief Operating Officer at Airbus Safran Launchers. “We appreciated the benefits from Siemens’ working methodology from the start, including the bidding and implementation phases. They were able to offer us both software tools and project management capabilities compatible with our requirements. With the introduction of this innovative PLM system, Siemens has become a key partner to help us successfully achieve our goals of integrating our teams and working methods to enhance our competitiveness and efficiency.”

Airbus Safran Launchers aim is to reduce its product development cycle and time-to-market, as well as maintenance costs. The new system should ensure full traceability of products and improve team collaboration.

“We are honored and proud to be associated with an aerospace industry leader like Airbus Safran Launchers,” said David Riemer, VP Aerospace & Defense at Siemens PLM Software. “The complexity of space launchers requires a systems-based product development approach, which combines systems engineering and an integrated product definition and realization. We are confident that our integrated aerospace industry solutions and expertise, combined with the impressive Airbus Safran Launchers leadership team will create great value for the organization and the industry.”

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Australia's Moose Toys Selects Magic Software's Integration Platform

19 October 2016

Magic Software Enterprises Ltd., a global provider of software platforms for enterprise mobility, cloud applications, and business integration, and an Oracle Cloud Select partner and Platinum level member of Oracle PartnerNetwork (OPN), announced today that global toy leader, Moose Toys, headquartered in Australia, selected the Magic xpi Integration Platform to help drive innovation and efficiency by introducing business process automation (BPA) across multiple Oracle systems, including Oracle's JD Edwards EnterpriseOne, Oracle Product Lifecycle Management (PLM) Cloud, Oracle Project Portfolio Management (PPM) Cloud, as well as by automating EDI services. Magic's Australasian representative, Integral Limited, signed the deal.

Moose Toys is using the Magic xpi Integration Platform to handle most of its integration needs, including complex EDI integrations with leading global retail customers in US and Australia. These integrations will provide Moose Toys with significant process efficiency and improve the visibility and timeliness of data for the company's US operations. In addition, Magic xpi will be used for integrations with various applications including Oracle Cloud applications, Oracle's JD Edwards and Oracle Demantra.

"We were looking for an enterprise-grade integration platform that was cost-effective, low-maintenance, and could easily manage business processes between disparate on-premises and cloud systems. Magic xpi ticked all the boxes," said Ben Dart, COO Moose Toys. "Since we had recently adopted multiple Oracle enterprise systems, Magic's Oracle Platinum and Cloud Select Partnership, Oracle Validated Integration status, and Magic and Integral's history of successful integrations sealed the deal."

"Leading its industry through innovation, Moose Toys understands the critical importance of business process automation and access to real-time information to speed processes and improve decision making," said Avi François Polak, Managing Director of Distribution at Magic. "With its code-free visual approach, broad connectivity and robust IMDG-based architecture, Magic xpi provides Moose Toys with a highly-productive, business-oriented integration solution that also gives them the flexibility to easily integrate more applications and services when their business requires. We're really excited that every Moose toy will come with a little more Magic."

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Brentwood Originals Selects Simparel Enterprise and PLM Solution

21 October 2016

Simparel, Inc. announces that Brentwood Originals, the country's largest manufacturer and distributor of decorative pillows and chair pads, will soon begin implementation of the Simparel® Enterprise solution. Brentwood Originals, Inc. will replace its legacy ERP system with the end-to-end business software at its three regional offices in California (corporate headquarters), Mississippi and Ohio.

According to Brentwood Originals SVP and CFO Joel Fierberg, "Our old system was primarily focused on distribution capabilities. While that is a big part of what we do, we also needed more development and manufacturing tools to manage the growth and change we are experiencing. After a lengthy evaluation of systems, we decided that Simparel was our best solution to remove obstacles in our business and improve our ability to meet changing and expanding customer needs. We believe that this

initiative will enhance our retail partnerships and drive even greater business opportunities going forward.”

When fully implemented, Brentwood Originals expects the Simparel software to be used by about 120 managers and team members across all functional departments. “A big part of the attraction of Simparel is the integration of all tools and information in a single platform,” continued Fierberg. “An important goal for us with the new system is to gain greater integrity in our data. Simparel will allow us to simplify from holding often-conflicting data in multiple locations to a single source of up-to-date and accurate information. That will give us greater visibility and empower all of us to make faster, better-informed business decisions across our three locations and the entire business.”

Another example of the power of the all-in-one solution for Brentwood Originals is the capabilities found in Simparel PLM (Product Lifecycle Management). Originally considering a component for future use, the company discovered significant product development benefits in the module during the evaluation and has decided to accelerate its deployment.

“We are pleased with the opportunity to work with such a professional and capable team at Brentwood Originals,” noted Simparel Strategic Account Director Jill Powers. “We applaud their efforts to identify their needs and conduct a thorough evaluation. In addition to ensuring a great system fit, this has helped to quickly establish a very comfortable working relationship. We look forward to a strong partnership.”

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Centric Software Helps Varner Accelerate

20 October 2016

Centric Software announces that Varner, a leading apparel group in Scandinavia with fourteen brand and retail concepts, had a successful go live of their Centric Product Lifecycle Management (PLM) project for the jersey and underwear divisions of the Cubus ladies brand and their coats and Jersey divisions at Dressmann.

"In the short time since we began working with Centric, Varner has already launched one new brand, called A-Z, bringing over expert resources from other concepts to secure our success," says Ole Martin Holt-Jacobsen, Head of Business Applications. "Using the Centric PLM platform to optimize processes and standardize working environments across brands and product categories will make the process of starting a new brand more seamless in the future."

As part of this culture of enthusiasm and experience, Varner has developed an initiative to cement these business-wide changes, referred to internally as "The Way We Work". The two brands chosen for the first phase of the Centric PLM implementation were selected on the basis of their different markets and varied methods – making them ideal candidates for further standardization. Cubus sells clothing for men, women and children, and is one of Scandinavia's largest fashion chains. Dressmann leads the regional market for menswear, with 380 stores in the Nordic countries, Germany and Austria.

"We share a common vision with Centric's local and European experts – a passion for making complex processes as easy as possible with the right information available at the right time," adds Øyvind Bustnes, Varner CEO. "Our partnership with Centric is leading a perfectly-phased implementation. I am pleased that our long-held principles are being reflected in the way our users are adopting PLM."

Designers, buyers and production controllers in Norway now use Centric to create new styles within Centric's Adobe Illustrator module. These teams work directly from their native Adobe Illustrator environment to access key product related information managed by Centric, easily turning creative

elements into actionable product information. In addition, select suppliers and production offices in Turkey are the first external users in an implementation that will eventually reach at least eight countries.

"The partnership between Centric and Varner is built on innovation, teamwork and expertise," says Chris Groves, President and CEO of Centric Software. "We are proud to play a key role in helping Varner streamline and accelerate operations laying the foundation for new brands and retail formats. We are thrilled to have delivered a successful implementation on time and under budget and look forward to continuing our partnership."

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Product News

Altair to Reveal New Design Processes and Software Tools for Additive Manufacturing at formnext in Frankfurt

18 October 2016

Altair will present at this year's formnext 2016, in Frankfurt, showcasing the latest versions of its simulation software suite HyperWorks® 14.0, concept design and optimization tools solidThinking Evolve® as well as Inspire® 2016, highlighting new design processes for the development and manufacturing of innovative products. In addition, Altair and its customers will also present their projects developed with Altair's software solutions at the formnext conference from November 15-18, hosted by TCT.

Highlights at the booth will be Altair's Simulation-driven Innovation™ approach, the development process chain of the Airbus APWorks' Light Rider, the world's first prototype of a 3D printed electric motorcycle, the 3D printed antenna bracket by RUAG Space and the entire development and manufacturing processes of a cast aluminum component, developed jointly with Altair's partners HBM nCode and voxeljet.

The frame design of the Airbus APWorks' Light Rider that will be displayed at the event is an excellent example of the symbiosis of topology optimization and additive manufacturing. Its structure is based on optimization results generated with Altair's OptiStruct® technology, supported by HyperMesh® for pre-processing tasks such as meshing, and HyperView® for post-processing the analysis results. All products are part of the HyperWorks CAE simulation suite. Applying a typical topology optimization OptiStruct run, the APWorks engineers first defined the design space (areas where the optimization technology can and cannot remove material, such as fixing points or access holes) and applied general loads and boundary conditions. The optimization software then created a design proposal that fulfilled the frame's structural requirements, by generating highly innovative geometries.

The cast aluminum component also to be displayed at the booth was designed and optimized with Inspire, then nCode DesignLife was applied to conduct a fatigue analysis and finally solidThinking's Click2Cast® software was used for a casting simulation. The created design resulted in a casting mold, 3D-printed by voxeljet. This process ensured that the component benefited from all of the positive characteristics 3D printing and casting offer.

“We are very much looking forward to presenting our solutions, including our Simulation-driven

Innovation approach at formnext," said Mirko Bromberger, Director Marketing and Additive Manufacturing Strategies at Altair Engineering. "Additive manufacturing (AM) is making headlines across industry as companies discover and take advantage of the inherent flexibility as well as the potential weight advantages the method offers, when combined with design optimization techniques. As we will present with the example of the Light Rider, when topology optimization and additive manufacturing are combined, it is possible to produce a structure that is lighter and stiffer than a traditionally manufactured part. The visitors of formnext can expect a very broad and informative program, highlighting solutions for the different production and engineering disciplines."

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EMA Puts SiliconExpert Part Insight into the OrCAD Design Environment Reducing Supply Chain Risk

18 October 2016

EMA Design Automation® today announced the addition of SiliconExpert to its PCB design portfolio. This provides three new capabilities to the EMA customer base: Part Search for electronic component data and business intelligence for millions of components, BOM Manager to proactively monitor the supply chain risk factors that affect a business, and the CIP Compliance Module for OrCAD which integrates part search and analysis capabilities directly inside OrCAD.

"Our customers can now select parts based on component lifecycle status, environmental compliance, inventory and more all without leaving the OrCAD design environment," said Manny Marcano, president and CEO of EMA. "This capability alone has the potential to save weeks of manual part research, while ensuring that parts with the required specifications are used in the designs. This translates to a significant time savings, while managing risk, avoiding redesigns, and mitigating obsolescence."

The SiliconExpert component database is continuously updated with the latest data on millions of integrated circuits, passives, and electromechanical parts from thousands of leading component manufacturers. Along with BOM management, these tools empower engineers, supply chain and procurement professionals to make the right decisions at the right time. By using partial part numbers or description searches, design teams have access to millions of up-to-date electronic parts and can quickly and easily determine if parts will meet environmental and regulatory compliance requirements.

They will also learn upfront if new components are aligned with product lifecycle and manufacturing yield objectives, as well as enabling them to gain insight into obsolescence and counterfeit risk using advanced lifecycle algorithms. Form-fit-function replacements are easily identified in order to eliminate costly redesigns and to ensure product delivery schedules are met. When the design is complete, BOM scrubbing and management tools ensure there are no surprises when moving to production.

A significant portion of the cost of a company's end product is determined by components chosen by engineers during the design phase. The CIP Compliance Module is built into OrCAD to put crucial component selection criteria onto the designer's desktop, driving several downstream supply chain efficiencies for easier procurement, higher quality products, and streamlined manufacturing functions.

These new offerings come on the heels of EMA's recent announcement regarding the EMA Enterprise Connect family of products which establish linkages to an OrCAD customer's internal supply chain through bi-directional PLM, ERP, and MRP integration. Adding SiliconExpert intelligence addresses OrCAD customers' needs for visibility into their external supply chain as well.

"Enabling intelligent component selection early in the design phase greatly reduces the likelihood of

unexpected component changes late in the process, or even after design completion,” added Marcano. “Streamlining the development process with these types of integrated capabilities allows companies to get to market faster with less risk.”

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Loftware Partners with PTC, Announces New Medical Device Solution

19 October 2016

Loftware, Inc., a leader in Enterprise Labeling Solutions, today announced that it has partnered with PTC Inc. to provide medical device companies with the technology to more easily meet evolving regulations and increasing labeling complexities. Loftware's new integrated labeling solution allows manufacturers to create and author content, configure format, review and approve, manage changes, generate and print labels with UDI information, and retain digital replicas.

To create this comprehensive offering, Loftware Spectrum, the industry's only 100% browser-based Enterprise Labeling Solution, integrates directly with PTC's Windchill® Product Lifecycle Management (PLM) software to access correct, approved content, which is combined with data from other data sources to generate and print compliant labels. Centralized label designs from Loftware integrate directly with PTC Windchill for proper review and approval. Also, label content including IFUs, warnings and artwork managed in PTC's Arbortext® Advanced Print Publisher is submitted to PTC Windchill, which manages change control, content, UDI information and serves as a digital system of record.

"Pairing Loftware Spectrum's Enterprise Labeling capabilities with PTC Windchill creates a comprehensive solution for medical device manufacturers that require unparalleled quality and control over labeling," said Swapan Jha, Vice President, GTM, IoT Solutions Group, PTC. "Now manufacturers can more easily support "case for quality" initiatives with complete oversight of label content, while having seamless control over label formatting and printing as well as label retention," he added.

Providing a fully closed loop solution, a full digital replica of the label is saved and made available to support future CAPA (Corrective And Preventative Actions) events to streamline tracking and recalls. In addition, the ability to leverage mobile devices to scan UDI barcodes and rendezvous back to PTC Windchill allows users to easily view eIFUs (electronic Instructions For Use).

"As the recognized leader in Enterprise Labeling for 30 years, Loftware has a long history of developing solutions that empower medical device manufacturers to manage the complexity of labeling printing amidst ever increasing regulations and change," commented Bob O'Connor, Loftware President and CEO. "We are delighted to partner with PTC to combine our unique capabilities to solve critical problems in the medical device supply chain," he added.

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MathWorks Introduces Risk Management Toolbox

19 October 2016

MathWorks today announced Risk Management Toolbox, which offers risk managers a set of functions and apps in MATLAB to develop and validate risk models and perform risk simulation. By supporting the development of models and helping to simulate scenarios, Risk Management Toolbox allows for accurate assessment of risk factors when performing credit and market risk analysis, modeling, and simulation.

Financial, quant, and risk professionals can now model probabilities of default, create credit scorecards, perform credit portfolio analysis, and backtest models to assess potential for financial loss. Risk Management Toolbox offers an open and customizable platform for mathematical modeling, visualization, and integrated risk analysis, modeling, and simulation across risk domains, helping to assess corporate and consumer credit risk, as well as market risk models. The toolbox runs within MATLAB, which provides an environment for mathematical exploration with royalty-free options for production deployment.

Key features of the toolbox include a Binning Explorer app for automatic and manual binning for credit scorecards, credit portfolio simulation tools to analyze credit portfolio risk, and backtesting tools for value-at-risk (VaR) models. Risk Management Toolbox, when combined with additional MATLAB products, provides a scalable solution that meets research and production applications needs across varied projects and timeframes, and offers interactive customized apps and detailed reports.

“In today's rapidly changing and volatile markets, risk modeling, validation, and stress testing are integral to financial services firms. Success depends on the accuracy of the models used and the velocity at which these organizations can innovate, while maintaining low risk exposure,” says Stuart Kozola, computational finance product manager, MathWorks. “With Risk Management Toolbox, these companies can now speed creation, validation, and performance of what-if scenarios on credit and market models to satisfy regulatory and compliance needs, and to navigate market movements.”

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Modelon Announces Multi-Platform Strategy for its Comprehensive Suite of Modelica Libraries

19 October 2016

Modelon is pleased to announce their Multi-Platform strategy for Modelica Libraries. This strategy makes the Modelon Libraries available on a broad range of Modelica tools allowing users to select the Modelica solution architecture and compiler that best fits their needs.

The proven and feature rich family of Modelica Libraries enable users to quickly start comprehensive, reliable model based system level simulations. Modelon's extensive FMI support further allows an easy integration of the Modelon Libraries with other FMI compliant tools or modules developed by users. With the multi-platform approach, Modelon is advancing the open concepts of Modelica by giving access to Modelon's powerful industry standard Libraries on the user-preferred Modelica Platform.

The Multi-Platform Strategy delivers on the promises of open standards model-based development:

- Strengthening collaboration within the enterprise and extended enterprise by enabling sharing of simulation models between departments or between an OEM and a supplier across different platforms.
- Long term protection of enterprise investments in model IP development and maintenance by relaxing dependencies on a particular platform

Modelon supports an expanding list of Modelica platforms which currently includes the following:

- ANSYS - Simplorer
- Dassault Systèmes – Dymola and 3DEXperience DBM
- Maplesoft – MapleSim
- Modelon - OPTIMICA
- Ricardo - IGNITE

“Model-Based Systems Design and Simulation is a key technology as products become more and more complex”, says Hubertus Tummescheit, CSO of Modelon. “We are proud to announce an open strategy to support multiple Modelica platforms and thereby help enable broader access and usage of our industry standard Modelica Libraries. We are finally achieving the vision of smooth interoperability that I had in mind when I joined the Modelica initiative almost 20 years ago!”

Available Libraries from Modelon include the following:

- Electric Power Library
- Engine Dynamics Library
- Environmental Control Library
- Fuel Cell Library
- Fuel Systems Library
- Heat Exchanger Library
- Hydraulics Library
- Hydro Power Library
- Liquid Cooling Library
- Pneumatics Library
- Thermal Power Library
- Vapor Cycle Library
- Vehicle Dynamics Library

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NEC Develops IoT Mobile Edge Computing Platform

20 October 2016

NEC Corporation today announced the development of the "IoT Service Enabler," a platform capable of automatic network management and control which can also be used for Mobile Edge Computing (MEC), an architecture for next-generation wireless infrastructure.

The IoT Service Enabler incorporates application interfaces for services, network interfaces defined by 3GPP, and interfaces for sensors and cameras defined by OneM2M, a global standards initiative for Machine to Machine (M2M) communications and the Internet of Things (IoT). These interfaces allow the IoT Service Enabler to carry out real time monitoring and analysis of information from sensors and cameras used for IoT services, network status updates and other data.

Moreover, the IoT Service Enabler automatically manages and controls network resources based on analyzed information and the network performance required for each IoT service. For example, when an automated driving service that requires low latency communication operates on the same network as a vending machine inventory management service that requires communication once every few hours, the IoT Service Enabler will automatically assign more network resources to the automated driving service.

Shigeru Okuya, general manager, SDN/NFV Division, NEC Corporation, said, "Using the IoT Service Enabler as an MEC platform will make it possible for carriers to efficiently operate various IoT services

with different traffic characteristics on a single network."

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Siemens Announces New Product Development with End-to-End Additive Manufacturing Solution

19 October 2016

Siemens' product lifecycle management (PLM) business announces a new comprehensive solution to unleash the full potential of the burgeoning additive manufacturing revolution. The new solution, which will begin rolling out in January 2017, is comprised of integrated design, simulation, digital manufacturing, data and process management software. The new set of offerings will help companies fully leverage the benefits of the latest additive manufacturing technology, also known as 3D printing.

The integrated solution will use smart product models through all phases without the need for conversion or translation between applications or processes. The solution will enable automated generative design using the new topology optimization capabilities which often result in organic shapes that would be difficult for a human designer to envision, and impractical or impossible to produce with traditional manufacturing techniques. This technology, combined with Siemens' new advanced additive manufacturing software, could enable companies to reshape everything for optimal performance at a reduced cost. In addition, the ability to 3D print an optimized part shape could reduce the number of parts in an assembly, thereby decreasing weight and increasing strength. As a result, industries such as automotive, aerospace and medical devices could realize dramatic value.

"Siemens PLM Software is pushing the additive manufacturing envelope by developing solutions to help create functionally optimized geometry that is inconceivable based on conventional design and manufacturing methods," said Dr. Ken Versprille, Executive Consultant, CIMdata. "Previously unsolvable design and manufacturing challenges are now quite feasible with these new software and production technologies. Siemens PLM Software has a vision for how the technology fits together from end-to-end and is putting that vision in place to move the industry forward."

Designers are trained to create parts with traditional production technologies in mind, which can limit creativity and innovation. Today, production parts are either stamped, molded, cast or machined. By providing engineers and designers with a completely new way to design and manufacture parts, Siemens is helping them reimagine the next generation of products. Companies can create unique, better performing designs with significantly increased strength/weight ratios and apply advanced integrated simulation and analysis technology to predict design performance. This new transformative technology will help increase design innovation.

"In order to make additive manufacturing a true industrial production process, manufacturers need to have seamless digital integration across design, production and automation, including control and monitoring of machine performance," said Joachim Hoedtke, CEO, Hoedtke GmbH & Co. KG, an innovator in additive manufacturing and Siemens customer. "Siemens is bringing together multiple software tools with new technologies focused on additive manufacturing to help companies accomplish this goal."

The new additive manufacturing solution will include Siemens' NX™ software, an integrated computer-aided design, manufacturing and engineering (CAD/CAM/CAE) solution, the newly announced Simcenter™ portfolio, a robust suite of simulation software and test solutions, Teamcenter® software, the world's most widely used digital lifecycle management system, and SIMATIC IT Unified Architecture Discrete Manufacturing and SIMATIC WinCC, two elements of Siemens' recognized Manufacturing Operations Management (MOM) portfolio for production execution and manufacturing

automation.

Two of the new technologies included in the solution that enable automated generative design, are Convergent Modeling and topology optimization. Convergent Modeling, which was announced with the latest release of NX, is the first technology of its kind. It will help engineers optimize part design for 3D printing, speed up the overall design process and provide scan-to-print functionality, which makes reverse engineering more efficient. It is a brand new modeling paradigm that greatly simplifies the ability to work with geometry consisting of a combination of facets, surfaces and solids, without the need for time-consuming data conversion. Topology optimization, another new technology will help analysts automate the iterative process for designing and optimizing parts for multi-physics performance including vibration, fluid dynamics and heat transfer. The integrated simulation and predictive engineering analytics capabilities help evaluate the design for manufacturability to provide greater confidence needed to move forward with designs optimized for additive manufacturing.

In addition to these new technologies, Siemens is also introducing a new 3D print preparation solution for both metal and plastic parts that will use the same smart product models from the design and simulation phase to help automate design changes and streamline the entire process. The new solution assists operators in preparing parts for powder bed and multi jet fusion printing. For 3D printed metal parts, NX provides model preparation for laser metal deposition and NC programming. This includes simulation for hybrid additive machine tools, where metal deposition is incorporated with subtractive methods in a single machine tool environment. For extruded materials such as plastics and carbon fiber reinforced nylon, a new multi-axis robotic fused deposition modeling (FDM) programming technology has been developed and is being field tested. After parts are printed, the same integrated NX system is used for post-printing NC operations such as intuitively programming the removal of support structures, machining of precision surfaces and other processing and inspection operations.

“This is just the beginning of a new generation of manufacturing capabilities, and Siemens is focused on delivering software technology to support an optimized end-to-end process with tools such as Convergent Modeling, topology optimization and 3D print preparation that are developed specifically to industrialize additive manufacturing,” said Tony Hemmelgarn, president and CEO, Siemens PLM Software. “Siemens continues to invest in innovation and work with technology partners to develop new solutions to drive advances in additive manufacturing capabilities to make the 3D printing of production parts a reality.”

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solidThinking Launches Extrusion Simulation Software

19 October 2016

solidThinking is pleased to launch the Click2Extrude suite consisting of Click2Extrude Metal and Click2Extrude Polymer as the next generation environment of the industry leading HyperXtrude suite.

Together with this new user friendly environment, the Click2Extrude suite is being licensed and distributed by a powerful network of distributors around the world with a focus on offering fast, easy, accurate and affordable solutions to manufacturing communities.

"Our new environment is designed for beginners and experts alike, to deliver an exemplary user experience by keeping all the complexities away from the users," explains Ravi Mayavaram, Director, Solver Development – Manufacturing Products. "Our focus is to improve both the quality of the extrusions and the profitability of our customers."

"A big step ahead in the model meshing for extrusion simulation," states Tommaso Pinter, Chief

Technology Officer of Alumat & Almax Mori Group. "We reduce the time required by 50% and the element's quality is drastically better. Click2Extrude is also easy to use; a new engineer can become independent in a month's time."

Key updates for Click2Extrude Metal 2017 include:

- Seam weld location and strength predictions to identify internal defects
- Charge weld and skin tracking to identify scrap and backend defects
- Die failure prediction

Key updates for Click2Extrude Polymer 2017 include:

- Die swell prediction and profile shape defects
- Co-extrusion analysis and material interface
- Clam shelling and mandrel shift

As a result of the updated features of Click2Extrude, users are able to drastically reduce the time of the extrusion simulation process. "With Click2Extrude's newly designed interface, I have cut my modeling and preprocessing time on average from 2 hours to 10 minutes," explains Jeff Skinner, Sales & Technical Representative of Thumb Tool & Engineering."

Due to the demand for lightweighting in aerospace, automotive and other fields, the interest in aluminum extrusion for these applications is rapidly growing. Regardless of the well-established extrusion industry, the challenges that come with complex profile shapes and new alloys are putting tremendous pressure on extruders to innovate in order to meet the stringent strength and tolerance requirements. Click2Extrude is designed to help die designers and extruders meet these demands.

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Tukatech Releases Affordable 3D Product Development Solution with High-Functioning Features

18 October 2016

Tukatech, Inc. has launched the Enterprise Edition of its TUKA3D system for virtual product development. This edition will include the same high-functioning 3D development capabilities at a more attainable price.

TUKA3D EE (Enterprise Edition) will integrate modules of TUKA3D for virtual product development, TUKAcloud for digital collaboration, and TUKAdesign EE (Enterprise Edition), used to prepare the 2D pattern for 3D development, as well as to adjust the pattern if needed. As with any TUKA system, unlimited training, implementation, and consulting are also included for the first year.

The TUKA3D system package traditionally has included a module of TUKAdesign PE (Professional Edition), TUKA3D, TUKAcloud, custom virtual models and animations, and unlimited training, etc. This package is now considered TUKA3D PE (Professional Edition).

TUKA3D is built on Autodesk's 3D Studio Max program. This platform allows TUKA3D users to use real-time motion simulation, and to create high-quality output for presentations and analysis, all within the same software. These functions are incorporated with both editions of TUKA3D.

Both editions also include model selection from Tukatech's diverse database of 3D virtual fit models. Hundreds of models represent dozens of brands and bodies that range from tiny infants to plus size adults. These models are animated to walk, run, sit, reach, pose, climb, or any other motion that would be performed during a live sample fitting. Brands for which Tukatech has developed virtual models

CIMdata PLM Late-Breaking News

include Adrianna Papell, Lilly Pulitzer, Levi's, Lucky, and more.

"Many brands in the UK and USA allowed us to measure, photograph and even scan their fit models so Tukatech could make the replica models. We use 3D virtual sample development for brands like Avirate, Maggy London, Polo Ralph Lauren, and Marks & Spencer," comments Arshad Sattar, Managing Director of Timex/Avirate in Sri Lanka

"We know there are companies who want to adopt virtual sample-making programs like TUKA3D that just don't have the capital. I've always believed that companies of all sizes should have the same access to advanced technology," comments Ram Sareen, Founder and CEO of Tukatech, Inc.

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