

Contents

CIMdata News	2
3DEXperience Forum: New Name, Expanded Vision: a CIMdata Commentary	2
Company News	4
AEC Systems Earns Autodesk Structural Engineering, Simulation, Consulting, MEP Systems Engineering and Process Plant Specialisations	4
CENIT Achieves a Microsoft Silver Server Platform Competency	5
CONTACT Software Joins the CPO Core Team	6
Joint Venture Framework Agreement between AVIC-BIAM and ESI Group	7
Mastercam 2013 Innovator of the Future Competition Encourages Young Adults to Get Involved in Manufacturing	8
Microsol Resources Earns Product Support Specialization by Autodesk	9
Nemetschek Vectorworks Promotes Maria Bible, CPA, to Chief Financial Officer	10
PROLIM Corporation and CAD 'N ORG (CNO) Engineering and Consulting GmbH Announce Strategic Partnership	11
Siemens PLM Software is named 2012 China's Best CAE Supplier for its Advanced Simulation Solution	11
Events News	12
BETA CAE Systems S.A. Announces the 2012 ANSA & µETA Indian Open Meetings, in Bangalore and Pune	12
CimatronE Live Machining Demo with Spinner at EMAF, Portugal	13
Delcam India to Show Vortex High-Speed Roughing at IMTEX	14
ESI's 23 rd Japanese User Forum Will Take Place on 21 & 22 November 2012	15
IMAGINiT Technologies and ASCENT Experts Speak at Autodesk University and ATC Summit 2012	17
MachineWorks and Polygonica Software Toolkits at Euromold	18
ModuleWorks to Show Latest CAD/CAM Components at Euromold	19
Sescoi: Productivity Solutions @EuroMOLD Include the Latest Developments in WorkNC CAD/CAM Solutions and a Preview of WorkNC Robot	20
SURFCAM 6 to be Demonstrated at EuroMold 2012	22
Financial News	23
Agilent Technologies Reports Fourth-Quarter 2012 Results	23
HP Reports Fourth Quarter and Full Year 2012 Results	24
Synopsis Announces Earnings Release Date for Fourth Quarter and Fiscal Year 2012	25
Implementation Investments	26
AVEVA Enterprise and AVEVA Plant Solutions Selected by Lundin Norway AS	26
Delcam CAD/CAM Used for Machining of Laser-Sintered Metal	27
Korea District Heating Engineering Company Selects Intergraph® SmartPlant® Enterprise	28
Manufacturers, Engineering Firms Choose Autodesk Simulation 360	29
Samsung Heavy Industries Selects Intergraph® SmartMarine® 3D for Offshore Projects	31
Product News	31
Agilent Technologies Ships Newest GoldenGate Software Release for RFIC Designers	31
Aras Announces VPLM for Autodesk Vault	33
AVEVA Publishes New Business Paper - Plant Design for Lean Construction	36
Dassault Systèmes Announces the V6 Release 2013x of its 3DEXPERIENCE Platform	37
Equalis Introduces Code Generation Modules for Xcos and Microchip Technology	38

CIMdata PLM Industry Summary

Famic Technologies and Linde Hydraulics Collaborate to Produce the Linde Pumps and Motors Catalogue for Automation Studio™ P6	39
InfiniteSkills Release "Learning Autodesk Revit Families Training Video" - Taught By Leading Expert	40
New KOMPAS-3D V13 Plus is Available	41
Nemetschek Vectorworks Releases Spanish-language Vectorworks 2013 Product Line	43
Siemens and Bentley Systems Initiate Strategic Collaboration to Unify Product and Production Lifecycles with Factory Infrastructure Lifecycles	44
Sybox Announces Autodesk Learning Video Series	45

CIMdata News

3DEXperience Forum: New Name, Expanded Vision: a CIMdata Commentary

20 November 2012

Key takeaways:

- *Dassault Systèmes rebranded their customer events “3DEXperience Forums,” a new name consistent with their extensive repositioning and global corporate advertising campaign.*
- *Dassault Systèmes believes that creating unique “experiences” the path to sustainable competitive advantage.*
- *Systems engineering, based on integral support for the RFLP approach, is at the core of the V6 offerings.*

On November 5-7, 2012, Dassault Systèmes held their North American customer event, rechristened the “3DEXperience Forum,” a new name that is consistent with their extensive repositioning and global corporate advertising campaign. Approximately 800 people (including about 450 customer representatives) attended the Orlando event.

Author Joseph Pine played informal MC, providing comments in each plenary session. His 1999 book “The Experience Economy” is right on target for Dassault Systèmes 2012 messaging around “experiences” as today’s product differentiator. A key point of his day 1 talk is that, to create value, companies are providing services associated with their products. However, those services can become commoditized and lose their value differentiation. When you can customize services around a product by providing unique customer experiences, you create differentiation and, potentially, sustainable competitive advantage. But are these experiences tangible, building on the shoulders of strong PLM strategies and solutions, or are they mere “theatre” on a “stage” as suggested in the subtitle to his book?

While it is easy to focus on “3D” in the 3DEXperience messaging, much of what is happening under the covers is repurposing and packaging much of Dassault Systèmes’ existing functionality. They then add new capabilities to create solutions such as “Winning Program,” an experience-based solution for aerospace and defense (A&D) companies to compete and win. As highlighted at the event, Winning Program applies existing program management, simulation, and process management capabilities to

CIMdata PLM Industry Summary

help proposal teams make their bids come alive to their prospective customers, and make those bids profitable by helping assess the downstream impacts and costs of decisions made during the bid process. Such industry tailored, role-based solutions will provide specific capabilities across product and project teams. Many of the solutions use simulations and analyses of different types to drive the experience. Dassault Systèmes claims they will create such experiences for all of their 12 industries.

A big question is will this resonate with their long-time customers who are still heads down in their PLM journeys? The answer provided by GE Energy is a resounding “yes.” According to John Shorter, CIO at GE Energy, a long time MatrixOne/ENOVIA customer, they did not really understand PLM until MatrixOne was acquired by Dassault Systèmes in 2006. The scope of their implementation is impressive: they claimed to have 60,000 users spread across 18 global sites, managing 15 million models and drawings, and moving 1 million parts per hour around the globe. His passion for the move to experiences and how ENOVIA V6 was powering their business was evident. One possible reason the move to experiences is important to GE Energy is that over half their revenue comes from services, which reinforces Pine’s message about the need to differentiate services through providing high-value experiences for customers.

Glenn Isbell of Bell Helicopter Textron, Inc., provided an update on their “Relentless” program, a rethinking of their entire enterprise software strategy and implementation. Mr. Isbell described how ENOVIA V6 is at the core of their new enterprise strategy, enabling collaboration across multiple functions.

Another consistent theme across many of the sessions was the criticality of systems engineering in multiple industries. This is consistent with CIMdata’s experience working with end user customers, as documented in presentations at our recent PLM Market & Industry Forums. More products rely on software to deliver their differentiating value. (Interestingly, the most passionate discussions about systems engineering occurred at our Shanghai session, showing how the Chinese recognize this trend and know they need to embrace it to move their products up the global value chain.) To support this trend, Dassault Systèmes has put Requirements–Functional–Logical–Physical (RFLP) modeling at the core of V6. RFLP is the heart of the systems engineering discipline, and supported by the International Council on Systems Engineering (INCOSE). While the practice of systems engineering is more mature in A&D and automotive, significant work is still required to continue its maturation in those industries and to bring that knowledge and experience to other industries, a process that CIMdata plans to support through our newly formed Systems Engineering Knowledge Council.

In summary, Dassault Systèmes, a company that views their history and evolution in a series of epochs (they are now at DS4), took a solid step forward with this rebranded event with an agenda of customers who believe in this new experience approach to product development and lifecycle management. The early “experiences” look promising and we look forward to seeing more details as they roll out. There will still be a tension between PLM and “beyond PLM,” as some at Dassault Systèmes position it, but if they can deliver experiences that can help their customers win new business profitably, more customers will get behind this expanded direction.

About CIMdata

CIMdata, an 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). CIMdata provides world-class knowledge, expertise, and best-practice methods on PLM. CIMdata also offers research, subscription services, publications, and education through international conferences. To learn more about CIMdata's services, visit our website at <http://www.CIMdata.com> 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.

 [Click here to return to Contents](#)

Company News

AEC Systems Earns Autodesk Structural Engineering, Simulation, Consulting, MEP Systems Engineering and Process Plant Specialisations

19 November 2012

AEC Systems today announced that it has earned the Structural Engineering, Simulation, Consulting, MEP Systems Engineering and Process Plant Specialisation designations for value added resellers (VARs) from Autodesk, Inc. As an Autodesk Specialised Partner, AEC Systems has shown that they have made significant investment in their people, have a solid business plan specific to their specialisation area, have customer references, and that they can provide a high level of experience and support to customers in the industry.

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

“The addition of these specialisations serves to further demonstrate our commitment to support the industry. At AEC Systems, our focus remains on the complete lifecycle of the design and implementation process,” advised Managing Director, Fari Fanaeyan.

Technology, and more recently the Building Information Modelling (BIM) concept has revolutionised the Architectural, Engineering & Construction (AEC) industries – we're now experiencing the biggest change in the industry since the adoption of CAD in the early 80's.

AEC System's approach to technology is that modelling designs correctly from the start is the key to success not just for large BIM jobs, but for ensuring the company standard is being achieved for all projects. We're moving to a digital age but Drawings are still the primary deliverable – AEC has an emphasis on establishing the highest possible standard for Drawing Production and "BIM Compliance".

CIMdata PLM Industry Summary

“We see both of these as a result of our structured approach to achieving general best practices around product, training, consulting and implementation. We have put this under the banner of Intelligent Modelling and are forming a complete range of modular service offerings around this.” Mr. Fanaeyan shared.

 [Click here to return to Contents](#)

CENIT Achieves a Microsoft Silver Server Platform Competency

20 November 2012

CENIT, today announced it has achieved a Silver Server Platform competency, demonstrating its ability to meet Microsoft Corp. customers' evolving needs in today's dynamic business environment. To earn a Microsoft silver competency, partners must successfully demonstrate expertise through rigorous exams, culminating in Microsoft certifications. And to ensure the highest quality of services, Microsoft requires customer references for successful implementation and customer satisfaction.

CENIT supports the business processes of customers with tailored solutions and services in Enterprise Information Management and Product Lifecycle Management. The software development and support has a focus on the optimal use of Microsoft products in the different customer environments.

"This Microsoft Silver Server Platform competency showcases our expertise in today's technology market and demonstrates our knowledge of Microsoft and its products," said Kurt Bengel, CEO CENIT AG. "International corporations and medium-sized businesses will take advantage of CENIT's 'best practice' experiences as a Microsoft partner."

"By achieving a silver competency, organizations have proven their expertise in specific technology areas, placing them among the top 5 percent of Microsoft partners worldwide," said Jon Roskill, corporate vice president, Worldwide Partner Group at Microsoft Corp. "When customers look for an IT partner to meet their business challenges, choosing a company that has attained Microsoft competencies is a smart move. These are highly qualified professionals with access to Microsoft technical support and product teams."

The Microsoft Server Platform competency demonstrates partner expertise in architecting, deploying and supporting the Windows Server operating system, infrastructure and applications. From Active Directory and Terminal Services to Hyper-V and High-Availability Clustering, partners that invest in this competency are ready to meet the demands of customers looking to get the most value and efficiency out of their datacenters.

The Microsoft Partner Network helps partners strengthen their capabilities to showcase leadership in the marketplace on the latest technology, to better serve customers and, with 640,000 Microsoft partners in their ecosystem, to easily connect with one of the most active, diverse networks in the world.

 [Click here to return to Contents](#)

CONTACT Software Joins the CPO Core Team

19 November 2012

CONTACT Software extends its commitment to open IT systems and end-to-end processes in the field of product lifecycle management (PLM). The company is now campaigning to make the Codex of PLM Openness (CPO) a more binding reflection of the industry's requirements. Following its admission to the CPO Core Team, CONTACT will contribute to the further development of the codex and call for its aims to be implemented. The CPO initiative was launched in 2011 by the CIOs of the German automobile manufacturers and leading suppliers. BMW, Daimler and Volkswagen, leading businesses from the PLM sector, and the ProSTEP iViP Association all cooperated in the drafting of Version 1.0 of the codex.

The aim of the jointly developed CPO is to secure the voluntary commitment of producers of standard software to technical interoperability and fair business models. The objective of the criteria defined in the codex is to ensure that once data has been created, companies are able to use it throughout the entire product lifecycle. The primary aim is to protect the interests of users. Many enterprises – and in particular those in the automotive industry and other high-tech sectors – have invested billions in their CAD models and want to be able to exploit and continue use their own expertise free from system-related constraints.

According to CONTACT's managing director, Karl Heinz Zachries, the CPO is a very important initiative intended to reduce the high level of dependence of customers on their system suppliers and associated proprietary data formats. However, he goes on to stress that "the current version of the CPO does not go far enough. One example is access to the CAD vendors' partner programs. Commitment to openness means nothing if, to further their own interests, system suppliers decide who is allowed to use interfaces for the development of their own commercial products. This fails to take account of customers' interests and competition is restricted."

For over 20 years, CONTACT has been using an open, standards-based solution architecture and is a pioneer in its demands for open IT systems. Thus, for example, in early 2010 the company lodged a complaint with the EU Competition Commission relating to the business practices of major CAD suppliers and succeeded in awakening interest in a question that is of considerable importance to industry. In its continuing work on the codex, the PLM supplier wants to ensure that the demanded voluntary commitment focuses even more clearly on users' interests and needs.

For more information on CONTACT's commitment to the Codex of PLM Openness, go to www.contact.de/cpo.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Joint Venture Framework Agreement between AVIC-BIAM and ESI Group

19 November 2012

[ESI Group](#) announces the signature of a joint venture framework agreement with [BIAM](#), the Beijing Institute of Aeronautical Materials. Executed during the [9th Zhuhai International Airshow](#), a biennial aerospace trade show and the largest showcase for China's aviation and aerospace industry, this agreement builds on a [strategic partnership agreement signed in Paris on 13 June, 2011](#).

As one of the core scientific Research Centers of [AVIC](#) (the Aviation Industry Corporation of China), BIAM is responsible for Research in Materials Technology and the manufacturing of advanced materials for aeronautical applications. BIAM's mission naturally complements the focus of [ESI Group](#) on Virtual Manufacturing and Virtual Testing as the foundation [of Virtual Prototyping](#) and of the holistic vision of Virtual Engineering. The new joint venture will engage in providing solutions that are based on realistic and reliable material modeling, and proven physical manufacturing and performance testing by proven virtual processes.

At the signing ceremony held in Zhuhai on 15 November, Dr Dai ShengLong, President of BIAM, stated "Today, sciences, technology and economy are developing fast. In this key stage of strategic transformation, BIAM will collaborate with ESI as a world class partner by joining expertise in complementary technologies. Together, we will establish a Joint Research & Development Center and Joint Venture Company. Our aim will be to transform innovation technology and marketing, and to create a new future for advanced materials science, technology and industry development."

Dr Alain de Rouvray, Chairman and CEO of ESI Group, responded to Dr Dai by commenting that "Today new materials are at the core of industrial innovation and business competitiveness". Adding: "A successful partnership requires three symbiotic constituents: Trust, Alignment, and Ambition. BIAM and ESI have, through several years of successful collaboration, experienced and shared all three. The Joint Venture will consolidate the commitment to "co-create" the innovative solutions of the future."

Echoing this sentiment, and recalling the signing of the partnership agreement in 2011, Mr Xu Zhanbin, Vice President of AVIC, commented: "The Joint Venture company between AVIC-BIAM and ESI is not only an important decision, leading to action and implementation of AVIC's strategy to expand international technical cooperation, but also a strong commitment to reform, to upgrade technology and to spur innovation in AVIC. This framework agreement demonstrates a willingness to open domestic marketing, to establish a win-win situation, and to bring technical innovation, development and also strong business profit for both parties."

The scope of business of this new Chinese Joint Venture company will include the distribution of [ESI's](#) Virtual Engineering software solutions; associated hardware; related technical support services; and customized software development to meet specific Chinese user needs. It will have a strong focus on

China's emerging commercial, business and general aviation sector and will enable the adoption of strategic manufacturing technologies developed at BIAM. Both parties share the conviction that their many technical synergies and spirit of team work will cause their joint venture to prosper, delivering sustainable and mutual success.

 [Click here to return to Contents](#)

Mastercam 2013 Innovator of the Future Competition Encourages Young Adults to Get Involved in Manufacturing

19 November 2012

CNC Software, Inc., producer of Mastercam CAD/CAM software, announces the 2013 Mastercam Innovator of the Future (IOF) national competition. This competition entices students and young adults with a real-world manufacturing challenge, celebrity judge, and a chance to win \$1,000 towards their schooling needs. The competition provides instructors with a powerful motivational tool to get students excited about learning CAD/CAM and the manufacturing process, and gives parents an opportunity to get their children involved in manufacturing.

The Challenge

For the 2013 competition, students are challenged to design and machine 1 of 3 parts—a connecting rod, racing wheel, or short shifter. The winning part will be selected based on several criteria including accuracy, creativity, and cleanliness of the part.

The Celebrity Judge

The 2013 IOF competition will be judged by a team of experts at VAC Motorsports. VAC Motorsports, located in historic Philadelphia, PA, is the world's ultimate source for serious BMW performance and racing parts. On top of providing parts, they operate a state-of-the-art body shop, full service repair shop, full engine and manufacturing machine shop, providing new and used parts from a facility that covers more than 14,000 square feet. There is no job that is too large or small for VAC Motorsports, and they use Mastercam to get it all done.

The Awards

Everyone who enters the competition receives an exclusive Mastercam IOF shirt. The student who creates the winning entry will be awarded a \$1,000 check to defray educational expenses, as well as a seat of Mastercam Mill Level 1 software. In addition, the winner will receive a trip for two to visit VAC Motorsports and a day on the race track. Mastercam IOF recognition plaques will also go to the winner and their school (or parent).

Competition Rules

All entries to the Mastercam 2013 IOF competition are subject to the following requirements:

- The part must be programmed with a licensed copy of Mastercam software.

CIMdata PLM Industry Summary

- The part must have a professional look and remain consistent with the theme industry standards.
- The part must adhere to the specifications.
- Tell us the story behind your part entry; the inspiration for its design, materials used, etc.
- Include photos of you holding the part, the machine shop, or the CNC machine. Electronic files are preferred.
- The entry must consist of one finished, unpainted part.
- All entries become the property of CNC Software, Inc. Parts cannot be returned.
- All designs become the property of CNC Software, Inc.
- All entries and completed entry forms must be **received** by **May 15, 2013**.
- The IOF contest is open to any individual between the ages of 16 and 25 with access to a machine shop to cut the entry.
- While we welcome past winners to submit entries, past winners are not eligible to win the grand prize.

For more information on the 2013 Mastercam Innovator of the Future competition, including the entry form and part specifications, please visit www.mastercamiof.com.

 [Click here to return to Contents](#)

Microsol Resources Earns Product Support Specialization by Autodesk

19 November 2012

Microsol Resources Corporation is pleased to announce that it has earned the new Product Support Specialization designation for value added resellers (VARs) from Autodesk, Inc.

This recognition complements the recent specializations Microsol Resources has earned over the past few months, including the designations for Simulation and MEP Systems Engineering. It also follows the news of client feedback demonstrating that the company exceeds Autodesk's highest quartile ranking of customer satisfaction in the U.S. and Northeast.

The company's passion for fostering customer loyalty starts at the top with its president. Matching business needs with products and support is an area in which Microsol Resources has consistently delivered, allowing the company to not just survive, but thrive in a challenging and competitive environment. Among the factors in this success are strong, talented technical and sales support professionals, the majority with backgrounds in architecture and engineering. Customer support is built into every interaction and sale, so that clients have multiple avenues to get the help they need when they need it, without worrying about additional support costs.

“Providing timely and accessible product support has always been an integral part of our product lifecycle and client satisfaction approach. We are pleased to receive this latest accolade and intend to continue growing our support offerings for the benefit of our valued customers,” stated Emilio Krausz,

CIMdata PLM Industry Summary

President of Microsol Resources.

Microsol Resources has earned numerous awards for its superior leadership in providing excellent support through a team of talented CAD/BIM Applications Experts. As an Autodesk Specialized Partner, Microsol Resources has shown a significant investment in professional staff, a solid business model, a growing base of repeat customers, and a consistent positive support experience to customers in the building industry. By completing the required curriculum and training, as well as meeting levels of service and standards set by Autodesk, Microsol Resources demonstrates what it means to be a trusted adviser to Autodesk customers throughout the world. In business since 1986, the company is also celebrating its 25th year as an Autodesk reseller.

 [Click here to return to Contents](#)

Nemetschek Vectorworks Promotes Maria Bible, CPA, to Chief Financial Officer

16 November 2012

Nemetschek Vectorworks, Inc., is pleased to announce the promotion of Maria Bible, CPA, to Chief Financial Officer. Bible assumed her role in September 2012, following six successful years as the company's controller.

As CFO, Bible drives efficiency improvements across several areas, including systems and the accurate and timely reporting of historical financial information. She also oversees the company's capital structure and determines the best mix of debt, equity and internal financings.

“Over the last few years, our sales have grown substantially and have become increasingly complex due to the success of our Vectorworks Service Select subscription program,” said Sean Flaherty, Chief Executive Officer at Nemetschek Vectorworks. “Maria's financial acumen and strong leadership skills will capably ensure that the accounting department keeps up with such demands while striving to increase the efficiency of all accounting transactions. Maria is intensely deadline-driven and directs her team to follow a strict schedule to meet all internal and external reporting requirements. I welcome her to the executive team.”

Bible's previous experience includes working as a Financial Operations Principal for Capital Financial Group's \$45-million-dollar broker-dealer H. Beck, Inc. In this role, she was responsible for coordinating financial reporting to the executive team, as well as the timely filing of required reports with the SEC. She also coordinated the company's periodic regulatory and annual financial statement audits. She gained additional experience in mutual funds, contracts, and accounting while serving in various roles at the State of Maryland's Office of Legislative Audits, Alex Brown (later purchased by Deutsche Bank), and Chevy Chase Bank.

Bible received a bachelor's degree in accounting from the University of Maryland, College Park. She earned her Certified Professional Accountant (CPA) credential in 2006, and is a member of the Maryland Association of CPAs.

 [Click here to return to Contents](#)

PROLIM Corporation and CAD 'N ORG (CNO) Engineering and Consulting GmbH Announce Strategic Partnership

19 November 2012

PROLIM Corporation, an IT, PLM and engineering services consulting firm, has announced that they have entered into a strategic partnership with CAD 'N ORG (CNO) Engineering and Consulting GmbH. This strategic partnership will allow both companies to provide clients with seamless, consistent solutions around the world, while also contributing additional services and personnel to new and existing clients. Through the CNO partnership, PROLIM reinforces its global offering of end-to-end solutions from inception to implementation. This integration also provides high-end PLM services, Teamcenter Monitoring tools at attractive prices and creates a very good opportunity for both companies to leverage their complementary knowledge areas within their home countries. “This partnership is a perfect fit for both PROLIM’s and CNO’s strategic growth plans and provide immediate access to European, U.S. and Indian market,” said Prabhu Patil, President and CEO of PROLIM, Prasanna Basabhat, Managing Director of PROLIM India and Jagadish Hiremath, Managing Director of PROLIM (Able Design) Engineering Services. “We must be able to provide our full line of services to our multinational clients wherever they are across the globe. By combining our resources, we will be able to accomplish much more globally than we ever could individually.” To learn more about PROLIM, please visit www.prolim.com.

“As a highly specialized PLM system and solution company we need to expand to new markets and industrial segments. Therefore the partnership with PROLIM offers us a exciting chance to introduce our leading TC Monitor solutions to other customers beside Germany and Europe,” said Klaus von Versen and Hendrik Meyer, CEOs of CNO. To learn more about CNO, please visit www.cadnorg.de.

 [Click here to return to Contents](#)

Siemens PLM Software is named 2012 China’s Best CAE Supplier for its Advanced Simulation Solution

20 November 2012

[Siemens PLM Software](#) was named “2012 China’s Best CAE Supplier” for its computer-aided-engineering (CAE) solutions within the [NX™ software](#) portfolio, an integrated set of solutions for CAE, computer-aided design (CAD) and computer-aided-manufacturing (CAM). The award was presented during China’s largest and most influential professional technology conference for the domestic CAE field, the 8th Annual China CAE Conference.

“Siemens PLM Software provides a comprehensive suite of simulation solutions designed specifically to coordinate the simulation needs of multiple users within engineering enterprises,” said Wang Jihong, the

CIMdata PLM Industry Summary

Secretary General of The Working Group on Industry-University-Research Collaboration of The Chinese Society of Theoretical and Applied Mechanics (CSTAM) of The Chinese Society of Theoretical and Applied Mechanics. “These solutions are suitable for application in China’s enterprises, which are actively undergoing transformation. The high-level NX CAE simulation solution integrates Siemens PLM Software’s world leading technologies and is widely used in the machinery, aerospace, automobile, defense and shipbuilding industries. The breadth and flexibility of Siemens PLM Software’s advanced technology has won the recognition of many industry experts and customers, which makes Siemens the natural choice for the ‘2012 Best CAE Supplier’ award.”

The unique advantage of Siemens’ NX CAE software is the integration of its powerful multi-discipline simulation capability with world-class product lifecycle management (PLM). NX CAE integrates advanced analysis modeling and simulation solutions with Siemens’ simulation data management platform which is part of its [Teamcenter® portfolio](#). A unified PLM approach creates a rare and powerful set of tools for manufacturers who are facing increasing global competition and expanding global markets. Siemens’ NX CAE advanced simulation solutions can be deployed across a global organization and virtual supply chain to manage CAE models, results, reports and CAE best practice processes, creating an environment that facilitates smarter decision making in product development. Moreover, its advanced simulation capabilities provide reusable, knowledge-driven CAE for manufacturing enterprises.

“Siemens PLM Software is proud to be named as China’s ‘2012 CAE Best Supplier’,” said Leo Liang, vice president and managing director, Greater China, Siemens PLM Software. “Siemens PLM Software is committed to working collaboratively with our customers to deliver open solutions that enable them to be more competitive. Our NX CAE advanced simulation solutions help our customers understand, predict and improve product performance digitally to better leverage product data throughout the entire product lifecycle management process.”

 [Click here to return to Contents](#)

Events News

BETA CAE Systems S.A. Announces the 2012 ANSA & μETA Indian Open Meetings, in Bangalore and Pune

20 November 2012

BETA CAE Systems S.A. has the pleasure to invite the public to the 2012 open meetings in India, hosted by the Products Group of EASi. The **two events** will take place: on **December 11th, 2012, in The Chancery Pavilion in Bangalore**, and on **December 13th, 2012, in Le Méridien Pune, in Pune**.

These events aim to introduce the latest developments in ANSA and μETA Pre- and Post-Processing suite and to showcase its application in various CAE disciplines. The Technical Discussion session that will follow each event's closing will give participants the opportunity to meet in person with our

CIMdata PLM Industry Summary

engineers and discuss about the software features and their application.

BETA CAE Systems S.A. and EASi Engineering would like to express their appreciation to the invited speakers for their contribution.

The language of the events will be English.

The attire will be business casual.

Coffee servings and lunch are courtesy of EASi Engineering.

There is no participation fee for these events.

However, for the better organization of the event, we would appreciate if you register by email no later than December 7th, 2012.

[Agenda and Registration for the event in Bangalore, December 11th, 2012 >](#)

[Agenda and Registration for the event in Pune, December 13th, 2012 >](#)

 [Click here to return to Contents](#)

CimatronE Live Machining Demo with Spinner at EMAF, Portugal

21 November 2012

[Cimatron Limited](#) today announced that its CimatronE integrated CAD/CAM software will be demonstrated at the EMAF trade show in Porto, Portugal, from November 21-24, 2012.

"The challenge facing tool shops and manufacturers worldwide is finding ways to reduce the time taken for design, NC programming, and machining," said Mr. Ira Bareket, Cimatron's VP Sales and Marketing.

"CimatronE offers a cutting-edge solution to this challenge. As a fully integrated CAD/CAM solution, CimatronE provides dramatic time savings across the entire production process, with an advanced range of capabilities tailored specifically to mold and die makers and manufacturers of discrete parts."

CimatronE's ability to enhance turnover time will be showcased at the EMAF trade show, with a live machining demonstration on a Spinner U5-1520 machine of a part programmed with CimatronE's acclaimed 5-Axis functionality. The machine will be situated at the booth of machine tool seller TecMill (booth 2A30).

CimatronE will also be displayed at EMAF at the booth of reseller S3D (booth 3B20). On display will be the software's existing CAD/CAM capabilities, as well as a preview of the new and enhanced features of CimatronE 11, to be released in 2013.

 [Click here to return to Contents](#)

Delcam India to Show Vortex High-Speed Roughing at IMTEX

20 November 2012

Delcam India will demonstrate the new Vortex strategy for high-speed area clearance on at the IMTEX 2013 machine-tool exhibition to be held in Bangalore from 24th to 30th January. Vortex will be the major enhancement for the 2013 release of Delcam's PowerMILL CAM system for high-speed and five-axis machining. The new strategy will also be added to the FeatureCAM software for feature-based programming and the PartMaker system for programming Swiss-type lathes and turn-mill equipment later in the year.

Vortex, for which Delcam has a patent pending, has been developed by the company specifically to gain the maximum benefit from solid carbide tooling, in particular those designs that can give deeper cuts by using the full flute length as the cutting surface. It can be used for two- and three-axis roughing, three-plus-two-axis area clearance and for rest machining based on stock models or reference toolpaths.

Vineet Seth, Delcam's Managing Director for the India & Middle East regions, commented "Vortex is an in-house development by Delcam that has taken high-performance machining to a new level. The strategy controls the tool engagement to provide for efficient cutting using solid carbide end mills. This is particularly helpful for die/mould and aerospace applications alike, since it aids faster material removal of the stock. The controlled engagement angle ensures that machining corners and high concentration areas will no longer be stressful on the cutting tool. The best part of Vortex, is that it will be provided free of cost to customers paying maintenance when they upgrade to the 2013 version of PowerMILL."

Like other Delcam roughing strategies, Vortex toolpaths are calculated to give more efficient machining by following the shape of the part and by keeping air moves to a minimum. This is particularly important for rest machining operations.

One fundamental problem with conventional area-clearance strategies is that the optimum cutting conditions only occur during a straight-line cut. Any internal corners within the model significantly increase the engagement angle of the cutter. To protect the cutter, this increase needs to be balanced by setting a lower feed rate. The user then has the choice of using this lower rate over the whole toolpath, which increases the machining time, or varying the feeds and speeds as the cutter moves around the model and so increasing wear on the cutter.

Unlike other high-speed roughing techniques that aim to maintain a constant theoretical metal-removal rate, the Vortex strategy produces toolpaths with a controlled engagement angle for the complete operation. This maintains the optimum cutting conditions for the entire toolpath that would normally be possible only for the straight-line moves. As a result, the cutting time will be shorter, while cutting will

CIMdata PLM Industry Summary

be undertaken at a more consistent volume-removal rate and feed rate, so protecting the machine.

Because Vortex toolpaths have a controlled engagement angle, tools will never be overloaded and so will achieve the maximum tool life. Shock loading caused by changes in the contact angle is minimised, preventing chipping of the flutes. In addition, the stability of the cutting conditions gives more consistent edge temperatures, so prolonging the life of the tool coating and removing heat damage to the surface of the part. Finally, the ability to use stepdowns of up to two, or even three times, the tool diameter spreads the tool wear evenly over the cutting surface of the tool, again contributing to longer tool life.

"Anyone using the Vortex strategy will be able to hear the difference immediately," claimed Mark Forth, Product Manager for Delcam's Advanced Manufacturing Solutions. "Conventional roughing produces a sound of varying pitch, which indicates tool overload and chatter, while Vortex roughing gives a constant pitch, showing that the tool is operating under consistent conditions. Users will also be able to see the difference in the regular size and thickness of the chips produced, providing further evidence of the consistency of the cut."

The new Vortex toolpaths benefit from the general advantages of PowerMILL, including support for 64-bit computing and multi-processor operation to minimise calculation times, plus the comprehensive options for leads and links. Furthermore, they can be used in association with the step-cutting strategy introduced in PowerMILL 2012 R2. This approach minimises the terracing that can result from using a large stepdown by moving back up the part and automatically generating extra toolpaths to remove additional material at intermediate slices. It optimises the amount of material that can be removed with a single tool as well as helping to maintain a more consistent removal rate by increasing the feed rate for the intermediate slices.

 [Click here to return to Contents](#)

ESI's 23rd Japanese User Forum Will Take Place on 21 & 22 November 2012

19 November 2012

[ESI Group](#) announces the program of its 23rd PUCA, ESI's Japanese User Forum. This year's edition will take place on 21 & 22 November at the Hilton hotel in Shinjuku, Tokyo.

The conference will bring together experts, senior practitioners and decision-makers from industry, as well as representatives from prestigious institutes and universities; allowing them to share experiences and to exchange information on their current imperatives.

Vincent Chaillou, COO ESI Group, will open the Plenary Session by presenting his view on the synergies between Computer Aided Engineering (CAE), R&D and innovation in today's highly competitive industrial context.

CIMdata PLM Industry Summary

Masayoshi Suehiro from Nippon Steel & Sumitomo Metal Corporation will share his expert knowledge of manufacturing processes through a presentation focusing on the “*Practical use of CAE towards application of high strength steel to automotive bodies*”. The audience will learn how these new materials are enabling automotive manufacturers to efficiently reduce the weight of their new vehicles.

François Gurkini, from ArcelorMittal Japan, will then present the company’s latest use of CAE for “*Hot Stamping with Usibor1500PR*”, a steel product specifically developed for use in automotive structural and safety components, with the aim to meet vehicle weight reduction requirements.

Mitsuhiro Takayama from Honda R&D Co., Ltd and **Masato Uemura** from F.TECH. Inc. will close the Plenary Session with a presentation entitled “*Study of durability estimation by accounting for production process of press parts*”. They will highlight the need to precisely assess manufacturing processes, their consequences and possible coupling effects when setting performance targets, including durability.

The afternoon sessions will focus on the key industrial challenges of [ESI](#)’s customers across various industry sectors, with a focus on transportation, energy and heavy industry.

The transportation session will gather presentations from Autoliv Japan, Nissan Motors Co., Honda R&D Co., F.TECH.Inc, Mazda Motor Corporation, Y-tec Corporation and Osaka University. In the energy session, ESI will welcome presentations from Japan Atomic Agency, Toyo University, Gifu University, Shizuoka University and Tohoku University.

The second day of the conference will investigate the latest applications of [ESI](#)’s complete offering by trade, including Virtual Manufacturing, Virtual Performance and Virtual Environment. Speakers will include current ESI users, partners and prestigious Universities: ATHENASYS Co., Mazda Motor Corporation, Yokohama National University, AP&T, Press Kogyo Co., Nissan Motor Co., Railway Technical Research Institute, Doshisha University, Panasonic Corporation, Humanetics Innovative Solutions Japan Inc., NEC Saitama, Pacific Consultants Co. and Waseda University.

Following ESI’s recent acquisition of [OpenCFD Ltd.](#), a leader in open source computational fluid dynamics, a parallel session running on both days will be dedicated to exploring the [OpenFOAM](#) business model, to CAE model management using [OpenFOAM](#) (pre & post processing and GUI), and to other technical aspects of the OpenFOAM open source toolkit that is maintained and supported by [OpenCFD](#).

Throughout the event, attendees will have the opportunity to experience [IC.IDO](#), ESI’s [Virtual Reality](#) solution, which uses the latest immersive 3D visualization technologies to build a platform for collaborative virtual engineering.

To view the full agenda of PUCA 2012, please [click here](#).

For more ESI news, visit: www.esi-group.com/newsroom

 [Click here to return to Contents](#)

IMAGINiT Technologies and ASCENT Experts Speak at Autodesk University and ATC Summit 2012 20 November 2012

[Rand Worldwide](#) has announced that 13 industry experts from two of its divisions, [IMAGINiT Technologies](#) and [ASCENT - Center for Technical Knowledge](#), will lead 17 different sessions at Autodesk University and the ATC Summit 2012. The summit and conference takes place November 26 – 29, 2012 at the Mandalay Bay Resort and Casino in Las Vegas.

The IMAGINiT Technologies exhibit booth (#836) will showcase IMAGINiT products, services and support offerings. Rand Worldwide’s educational courseware publishing division, ASCENT, will also have its own booth located in the Autodesk Authorized Training Center (ATC) Pavilion and Bookstore (Booth #703).

“Each year, I am impressed by how many thought leaders and industry experts from both our IMAGINiT and ASCENT divisions are invited to present at Autodesk University,” says Marc Dulude, chief executive officer, Rand Worldwide. “This event truly showcases the best-of-the-best, and it’s an honor to be contributing in such a large capacity. Beyond our speaking efforts, we enjoy the AU experience because it gives our team the ability to personally connect with a broad range of our customers, face-to-face.”

From across North America, IMAGINiT technical experts and ASCENT educational courseware authors and trainers will be addressing some of the biggest concerns of Autodesk customers.

IMAGINiT and ASCENT Class Line-Up for Autodesk University 2012

Building Presentations:

- AutoCAD Plant 3D: An Interoperable Plant Project
- Virtual: A Few Million Points - Scan to BIM
- Virtual: Extending Autodesk Revit Server with IMAGINiT Clarity

Infrastructure Presentations:

- Virtual: AutoCAD Civil 3D Survey: From the Ground to the (Point) Clouds
- Breaking into the Vault: Implementing Autodesk Vault Collaboration AEC in a Civil/Survey Firm
- Virtual: Cracking the Vault: Implementing Vault Collaboration AEC into Civil/Survey Firms
- Virtual: Hydraulics & Hydrology: Autodesk Infrastructure Design Suite tools in your toolbox

Manufacturing Presentations:

- Autodesk Alias Design Primer: How to Start Creating
- Autodesk Alias for the Autodesk Inventor User
- Don't Let the Word "Factory" Get in the Way: The Broader Uses of Autodesk Factory Design Suite
- The Suite Life: Autodesk Product Design Suite Workflows for Machine Design
- The Secret Life (Cycles) of Autodesk Vault

ASCENT Training Presentations:

- Be Dynamic and Improve Your Efficiency with Dynamic Blocks in AutoCAD
- Virtual: Incredible AutoCAD Civil 3D Users: Prove your Credibility with Civil 3D Certification, Part 1
- Virtual: Incredible AutoCAD Civil 3D Users: Prove your Credibility with Civil 3D Certification, Part 2
- Out of the Vault
- Suite Training: Individual Products or Workflow Specific?

 [Click here to return to Contents](#)

MachineWorks and Polygonica Software Toolkits at Euromold

19 November 2012

MachineWorks technology will be showing the latest full machine simulation and solid healing technology at Euromold 2012 in Frankfurt, Germany, 27th-30th November on Hall 8, Stand B20.

MachineWorks display - is that fast enough for you?

MachineWorks latest interactive simulation demos will be showing visitors how they could benefit from the seamless combination of the MachineWorks family of engines and how different engines would suit different machine simulation requirements.

Users may not want to simulate large or complex toolpaths with millions of cuts - they may just require a quick result to verify the job and only animate the problematic areas. Fast simulation may prove too fast for the human eye to detect errors. Accuracy may be vital for precision parts and tolerances need to be tight. Other jobs may require maximum speed. MachineWorks version 7.2 allows that kind of flexibility; some customers have reported a 30-40% increase on performance after an easy upgrade.

How is that possible? MachineWorks has spent 17 years solving challenging development requirements for more than 60% of the CAM industry in the component market. Thanks to this deep understanding of the customer needs and the continuous commitment to deliver innovative solutions, MachineWorks has developed a true solid engine capable of sweeping volumes without missing clashes for optimal accuracy; MachineWorks has enhanced its sampling technology for the desired performance;

CIMdata PLM Industry Summary

MachineWorks has patented its infinite-zooming engine for the combination of speed and accuracy.

"We are at Euromold to directly support our customers around the world and help them to make greater and better use of MachineWorks " says Mike Nicholson, Sales & Marketing Director. "Our stand is always populated with technical staff happy to sit down with customers to discuss optimisation".

Polygonica Display - show me the magic

Polygonica will be demonstrated at Euromold but demonstrating Polygonica is like showing a magic trick. See this open model? Now it is open, press this button, now it is closed. There is not much to see but there is a lot to take in.

Solid models around the world are causing bottlenecks while waiting to be fixed, waiting to be made watertight, waiting to be 3D printed. Polygonica has been developed to help reduce those by automatically closing models, slicing models, re-orienting triangles, fixing self-intersections, simplifying geometry, profile offsetting, arc fitting and performing other Boolean operations.

All those 17 years of developing MachineWorks have created a robust core engine that allows STL repair and manipulation of polygonal solid models.

 [Click here to return to Contents](#)

ModuleWorks to Show Latest CAD/CAM Components at Euromold

19 November 2012

ModuleWorks will be showing the latest toolpath generation and simulation technology at Euromold (Hall 8, booth E112) from 27-30th November 2012.

ModuleWorks continue to be at the forefront of 5-Axis machining and Simulation technology, providing component software that powers more than 50 CAM industry partner applications.

At Euromold, they will be showing the recent release of their CAD/CAM components, 2012.8, and previewing the upcoming 2012.12 version, the 3rd major update of 2012. The full range of products will be on display including components for 3-Axis machining, 4/5-Axis machining and Simulation. At the booth they will be showcasing the latest 3-Axis and 5-Axis roughing strategies, which offer fast and efficient material removal for mold making and many other manufacturing applications.

ModuleWorks adaptive roughing provides dramatically faster stock removal by maintaining constant tool load with a smooth toolpath, leading to reduced cycle times, improved tool life and optimum surface finish. It can be used as a 3-Axis or as a full 5-Axis strategy, where additional tilt as applied to suit the target geometry. It can be applied to surface, solid and STL geometry.

CIMdata PLM Industry Summary

David Plater, Technical Director for ModuleWorks comments “Roughing is critical to almost all machining applications. Faster material removal rates combined with optimal tool life give mean shorter manufacturing times and reduced costs. Our partners and their customers have had excellent results with our latest roughing strategies and we will continue innovate in this aspect of CAM technology.”

 [Click here to return to Contents](#)

Sescoi: Productivity Solutions @EuroMOLD Include the Latest Developments in WorkNC CAD/CAM Solutions and a Preview of WorkNC Robot

19 November 2012

Engineers wishing to get a preview of next year’s WorkNC V22 will want to visit SESCOI’s booth (Hall 8 F22) co-located with partner, Ingersoll, at the upcoming EuroMOLD exhibition in Frankfurt. As well as its flagship WorkNC CAD/CAM software, the company will also be previewing its new WorkNC Robot software. Additionally, visitors will be able to enjoy demos of all the latest developments in WorkNC CAD Hybrid Modeling, WorkNC Wire EDM, WorkNC Electrode, WorkNC Dental, WorkXPlore 3D Viewer V3 and the WorkPLAN ERP system.

SESCOI Engineers will be demonstrating the new WorkNC Robot software which can handle robot applications with as many as 15-axes. Normally the robot needs to be taught the desired moves, and this can take as much as three weeks to complete. With WorkNC Robot the same task can be completed in little over an hour, and the simulation and collision checking will be right first time. WorkNC Robot can be used for milling, laser hardening, welding, trimming and polishing applications

Next year’s V22 version of WorkNC CAD/CAM features a number of advanced stamping die toolpaths. These include new Flat Surface Roughing and Finishing strategies which will shorten cycle times, improve quality and simplify programming without the need for a stock model. For vertical walls, a new Wall Finishing strategy makes it easy by drilling down the length of the vertical surface, new Tangent to Curve machining is ideal for features on 2D parts and stamping tools, and the new Chamfering toolpath makes cutting a chamfer safe and simple.

For 3D applications, new surface machining strategies have been designed with automotive applications in mind. These will further enhance the quality of the part and include features such as ISO machining, avoidance of waterfall moves, automatic collision testing and Z level moves in Pencil Trace operations where necessary.

For 5-axis machining the previous 12 strategies have been simplified down to six, rationalizing the programming. Furthermore, toolpath rapid movements and moves to a safe position can now be graphically edited, allowing the optimum safe cutterpath to be generated while considering the machine

CIMdata PLM Industry Summary

kinematics.

Sescoi will also be running live machining demonstrations on its booth. A Hermle C30 5-axis machine will be used to mill a scale model of the record-breaking PlanetSolar boat which sailed around the world using just solar power. German Boat builder [Knierim Tooling](#) produced the full sized molds for the hull and deck of this remarkable craft using WorkNC CAD/CAM.

Other showcase parts milled with WorkNC CAD/CAM 5-axis, including Ironman, Spiderman and Mr Incredible, have been travelling to all the world's top shows and creating buzz in social media. Visitors can see these parts on the SESCOI booth and even have their photo taken with their favorite character for posting on the [WorkNC Facebook](#) page.

WorkNC engineers will share their expertise at Euromold's Rapid Prototyping Lecture Forum delivering a free presentation on 'Short Tools - Innovative manufacturing with WorkNC'.

Also being demonstrated on the SESCOI booth, WorkNC Electrode benefits from WorkNC CAD's solid modeling making it easy to extract electrodes from the geometry and keep the datum right through the manufacturing process. Standard libraries of electrode holders and the ability to machine across multiple electrodes in one setting will further speed up production while ensuring high quality. The WorkNC Wire EDM CAD/CAM software also draws on the modeling capabilities, as sections for 4-axis wire cut operations are extracted directly from the geometry. Features such as part tagging, multiple roughing and finishing cuts and slug destruction simplify the process.

WorkNC Dental has been designed for the easy and automatic machining of dental prostheses for dental technicians who are not machining experts. The fully open dental CAD/CAM system is capable of machining a very wide range of materials, yet gives the user the flexibility to generate new techniques. At the show, visitors will be able to see the latest developments in the 5-axis implantology module for customized abutments and watch a 5-axis dental part being machined live on a Datron D5.

SESCOI's design engineers will be demonstrating the recently released Version 3 of WorkXPlore 3D, SESCOI's high speed 3D viewing, mark-up and analysis software. This system provides a low cost way of importing and sharing model data from multiple CAD systems. New in V3 is Brep technology which increases accuracy and makes it easy to interrogate edges and points, even on scanned STL data. Extra import and export capabilities include STEP and IGES export and JT and Autodesk Inventor import, further increasing the large number of compatible CAD formats supported by WorkXPlore 3D.

Version 3 of WorkPLAN Solutions has added to the capability of the ERP system for controlling management tasks and providing transparency throughout the production process, by including a customer relationship management module. The CRM makes it easy to manage sales opportunities, quotations, contacts and prospects. Additionally, live data feeds produce up to date and accurate management information and mobile applications make it possible to run and interrogate the system on the move.

 [Click here to return to Contents](#)

SURFCAM 6 to be Demonstrated at EuroMold 2012

19 November 2012

Surfware, Inc., developer of SURFCAM CAD/CAM systems, in cooperation with SURFCAM Reseller 3D Concepts GmbH is pleased to be demonstrating the newest release of SURFCAM at EuroMold 2012. EuroMold is the world-wide trade fair for Moldmaking, Tooling, Design and Application Development where visitors can see the latest products, services, and technologies as well as catch a glimpse into future trends and technology.

Surfware, Inc. and 3D Concepts GmbH, 2011 International Reseller of the Year, invite visitors to stop by Hall 8, Booth F110 at the Exhibition Center in Frankfurt / Main, Germany from November 27 – 30, 2012 for an opportunity to see demonstrations of SURFCAM 6's powerful functionality, ease of use, and the latest of the new features included in this new version. Some of the new features in SURFCAM 6 include:

- A 64-Bit Version
- New Tools and Material Database Engine
- Faster and Improved Verification Technology
- Updated Interface
- Completely redesigned Help System
- Four (4) new toolpath strategies
- Updated CAD translators (plus RHINO CAD translator now included)
- Updated and New Post Processors (MPost and SPost)
- New Productivity Utilities
- Updated Digitizer Interfaces
- New versions of editNC and SDNC
- Enhanced TRUEMill toolpath calculator and toolpath algorithms
- ...Plus much more

"We have found this newest version of SURFCAM 6 to be one of the best and most exciting of releases of SURFCAM software. It is a very solid and stable release," says SURFCAM Reseller Erwin Eggert in Germany. "Our customers have noticed the benefits of all the updated internal technologies put into this version to bring it to the competitive state it is in today. Our users now have all the power and flexibility in SURFCAM 6 to easily create toolpaths from simple 2-Axis toolpaths to the most complex of 5-Axis toolpaths, as well as seamless G-Code with the post processors we develop and support."

"SURFCAM has been our programming software of choice for over 13 years in our machine shop," says SURFCAM customer, Richard Staab. "Now with the release of SURFCAM 6, we again can take

advantage of all the new features and functionality of this version to maintain our competitive advantage in our machine shop.”

 [Click here to return to Contents](#)

Financial News

Agilent Technologies Reports Fourth-Quarter 2012 Results

19 November 2012

Highlights:

- GAAP net income of \$425 million, or \$1.20 per share
- Non-GAAP net income of \$303 million, or \$0.86 per share⁽¹⁾
- Orders of \$1.75 billion, flat with a year ago. Revenues of \$1.77 billion, up 2 percent from one year ago
- First-quarter fiscal year 2013 revenue guidance of \$ 1.68 billion to \$1.70 billion and non-GAAP earnings guidance of \$0.65 to \$0.67 per share⁽²⁾
- Fiscal year 2013 revenue guidance of \$7.0 billion to \$7.2 billion. Non-GAAP earnings guidance at \$2.80 to \$3.10 per share⁽²⁾

Agilent Technologies Inc. has reported revenues of \$1.77 billion for the fourth fiscal quarter ended Oct. 31, 2012, 2 percent above one year ago. Fourth-quarter GAAP net income was \$425 million, or \$1.20 per share. Last year’s fourth-quarter GAAP net income was \$289 million, or \$0.82 per share.

During the fourth quarter, Agilent had intangible amortization of \$52 million; acquisition, integration and transformation costs of \$40 million; and a donation to the Agilent Technologies Foundation of \$10 million. The company also recognized a tax benefit of \$227 million. Excluding these items and \$3 million of other net charges, Agilent reported fourth-quarter adjusted net income of \$303 million, or \$0.86 per share⁽¹⁾.

Agilent CEO Bill Sullivan said, “Agilent’s performance in the fiscal fourth quarter met our revenue guidance and exceeded EPS guidance. Despite a very challenging economic environment, the strength of our operating model was evident, with operating margins for the quarter and the year at an all-time high.”

Electronic Measurement fourth-quarter revenues declined 5 percent compared to the prior year. Revenues declined across all key markets with the exception of computer and semiconductor markets. Operating margins were 23 percent.

Chemical Analysis revenues were down 3 percent compared to a year ago. Environmental and chemical

CIMdata PLM Industry Summary

markets were down, offset by growth in the food and forensics markets. Operating margins were 25 percent.

Life Sciences revenues were flat with last year. Growth in the pharma and environmental markets was offset by a decline in academia and government markets. Operating margins were 18 percent.

Diagnostics and Genomics, which includes the Dako acquisition, had revenues of \$156 million, up 125 percent over last year or 1 percent excluding the effects of the Dako acquisition. Operating margins were 17 percent.

Agilent generated \$485 million of cash from operations in the quarter. Fourth-quarter ROIC was 19 percent⁽³⁾.

Fiscal first-quarter 2013 revenues are expected to be in the range of \$1.68 billion to \$1.70 billion. Fiscal first-quarter non-GAAP earnings are expected to be in the range of \$0.65 to \$0.67 per share⁽²⁾.

For the full fiscal year 2013, Agilent expects revenue of \$7.0 billion to \$7.20 billion and non-GAAP earnings of \$2.80 to \$3.10 per share⁽²⁾.

To view an unabridged version of this press release, visit: <http://www.agilent.com/about/newsroom/presrel/2012/19nov-gp12022.html>

 [Click here to return to Contents](#)

HP Reports Fourth Quarter and Full Year 2012 Results

20 November 2012

Highlights:

- Full year fiscal 2012 non-GAAP diluted earnings per share of \$4.05, within the previously provided outlook of \$4.05 to \$4.07
- Full year fiscal 2012 GAAP loss per share of \$6.41
- Full year fiscal 2012 net revenue of \$120.4 billion, down 5% from the prior-year period and down 4% when adjusted for the effects of currency
- Fourth quarter non-GAAP diluted earnings per share of \$1.16, down 1% from the prior-year period
- Fourth quarter GAAP loss per share of \$3.49
- Fourth quarter net revenue of \$30.0 billion, down 7% from the prior-year period and down 4% when adjusted for the effects of currency

CIMdata PLM Industry Summary

- Cash flow from operations of \$4.1 billion, up 69% from the prior-year period
- Returned \$384 million in cash to shareholders in the form of dividends and share repurchases
- Fourth quarter and full year fiscal 2012 results include a non-cash goodwill and intangible asset impairment charge of \$8.8 billion relating to the Autonomy business within the Software segment

HP today announced financial results for its fourth fiscal quarter and full fiscal year ended Oct. 31, 2012.

For the full year fiscal 2012, net revenue of \$120.4 billion was down 5% from the prior-year period and down 4% when adjusted for the effects of currency.

Full-year GAAP loss per share was \$6.41, down from diluted earnings per share (EPS) of \$3.32 in the prior-year period. Full-year non-GAAP diluted EPS was \$4.05, down 17% from the prior-year period. Full year non-GAAP earnings information excludes after tax costs of \$20.7 billion, or \$10.46 per diluted share, related to the impairment of goodwill and purchased intangible assets, restructuring charges, amortization of purchased intangible assets, charges relating to the wind down of non-strategic businesses and acquisition-related charges.

The complete news release is available at: <http://h30261.www3.hp.com/phoenix.zhtml?c=71087&p=irol-newsArticle&ID=1760639&highlight=>

 [Click here to return to Contents](#)

Synopsys Announces Earnings Release Date for Fourth Quarter and Fiscal Year 2012

14 November 2012

Synopsys, Inc. has announced it will report results for the fourth quarter and fiscal year 2012 on Wednesday, Dec. 5, 2012, after the market close.

A conference call to review the results will begin at 2:00 p.m. PT (5:00 p.m. ET) and will be hosted by Aart de Geus, chairman and co-chief executive officer, and Brian Beattie, chief financial officer.

Financial and other statistical information to be discussed on this conference call will be available on the corporate website at <http://www.synopsys.com> immediately before the call. A live webcast will also be available on this site. Participants should access the live webcast at least 10 minutes prior to the start of the call. A webcast replay can be accessed on the corporate website beginning Wednesday, Dec. 5, 2012, at approximately 5:30 p.m. PT. The replay will remain available until Synopsys announces its first quarter of fiscal year 2013 results in February 2013. In addition, a dial-up replay of the conference call will be available beginning Dec. 5, 2012 at 4:00 p.m. PT, ending on Dec. 19, 2012 at midnight. The

replay telephone number is USA (800) 475-6701, and International (320) 365-3844, Access Code 271818.

 [Click here to return to Contents](#)

Implementation Investments

AVEVA Enterprise and AVEVA Plant Solutions Selected by Lundin Norway AS

19 November 2012

AVEVA today announced that Lundin Norway AS, a key operator on the Norwegian Continental Shelf (NCS), has signed an agreement to implement a broad range of AVEVA technology for use on its first operated oilfields in the North Sea. Included in the contract are AVEVA's Enterprise Asset Management solution, AVEVA WorkMate, and 3D engineering design solution AVEVA PDMS. Lundin will benefit from WorkMate's ability to visualise work planning and to identify areas of risk that can be rapidly addressed. At the same time, the greater design efficiency of AVEVA PDMS will help it to compress project schedules and reduce rework.

Lundin will also be deploying AVEVA's Control of Work solutions: AVEVA Safe Job Analysis and AVEVA Work Permit Manager, along with AVEVA Global for project work sharing.

'AVEVA offers a complete, integrated solution for Owner Operators and provides domain expertise to assist us preparing for operations' said Kari Nielsen, Field Operations Manager, Lundin Norway. 'AVEVA WorkMate will ensure all future maintenance work is planned effectively and executed safely, a key goal for us. In addition the implementation will include integration to our legacy back-end finance systems. We also have the option to extend our future use of AVEVA software, to include its range of Engineering Information solutions.'

'I would like to thank all the reference customers who supported our bid by advocating our technology and knowledge in this area,' added Derek Middlemas, COO and Head of Enterprise Solutions, AVEVA. 'AVEVA has been able to prove to Lundin that we are the right long-term partner to deliver the best software and service to support the growth of their business. Through our considerable experience in offshore operations, we understand the challenges that Lundin face as an operator on the NCS. By offering our best-in-class asset management and design solutions, with the potential for future additions, we believe our joint efforts will help to set new standards in safe and efficient operations of offshore installations.'

Under the terms of this agreement, Lundin will be able to further expand its Operations Integrity Management strategy by using additional AVEVA technology, and is keen to investigate the benefits offered by the AVEVA NET product family. This application-agnostic collaboration hub provides data quality control and validation that enables an even greater degree of information management.

AVEVA WorkMate, an AVEVA Enterprise solution, allows plant operators to optimise output, minimise downtime, extend working life and maintain regulatory compliance. AVEVA PDMS 3D design software is part of the AVEVA Plant portfolio, delivering maximum design productivity and capability on all types of plant projects, from small upgrades to major new builds.

Lundin Norway AS is an oil and gas operator on the Norwegian Continental Shelf.

 [Click here to return to Contents](#)

Delcam CAD/CAM Used for Machining of Laser-Sintered Metal

16 November 2012

Additive manufacturing and machining are usually regarded as competing processes. However, the two technologies are being combined in a project at the French research centre PEP, where Delcam's PowerSHAPE CAD software and PowerMILL CAM system are being used to finish machine parts created by laser sintering.

PEP is in the French plastics industry, specialising in the injection moulding of thermoplastics. It was founded in 1989, with the support of the French government, by companies in the Rhône-Alpes region, an area known as "plastics valley" because of the high concentration of moulding companies and mouldmakers. For more than 20 years, PEP's mission has been to provide expertise and services to the country's plastics companies, in particular to develop their productivity, both through collaborative research projects and through individual contracts.

The main areas of expertise of PEP's researchers and engineers include design and simulation of parts and processes, injection moulding processes and tooling, and plastics materials.

The Delcam software was first chosen by PEP for PLATINNO, a technological innovation platform for tooling undertaken in association with CETIM, France's main research centre for mechanical engineering. The aim of the project is to provide support – technical, human resources and financial – for companies working in the French plastics sector.

The first step in the project was to acquire a Roders high-speed machining centre to perform finishing operations on metallic parts created by laser sintering from an EOS machine already owned by PEP. The second step was to choose the right CAD/CAM solution.

PEP's specifications were detailed: the organisation wanted CAD for electrode design, excellent 2D and 3D milling, including support for continuous five-axis operation, and a technology for on-machine verification. The overall aim was to reduce the programming and machining times, but the system also needed to offer the ability to develop specific macros and strategies for moulding, aerospace and

medical projects.

With support from CETIM, which has undertaken research into high-speed machining for many years, PEP was introduced to all the main CAD/CAM vendors to assess their systems. The organisation particularly liked the Delcam software, not least because the company could meet all of its needs. It acquired PowerSHAPE, PowerMILL, PowerINSPECT and ArtCAM.

PEP has become subsequently much more than a typical customer, with close relationships established with the staff from Delcam France. The organisation is developing as an important partner, with a series of joint technical days undertaken already this year. For Delcam France, the high profile of PEP in the plastics industry, and in the region, will help to attract many more customers to the software.

 [Click here to return to Contents](#)

Korea District Heating Engineering Company Selects Intergraph® SmartPlant® Enterprise

14 November 2012

Korea District Heating Engineering Company Limited (KDHEC) has selected Intergraph® SmartPlant® Enterprise solutions for new energy plant projects in Korea and around the world.

KDHEC is a subsidiary of Korea District Heating Corporation (KDHC), and it is a leading engineering, procurement and construction (EPC) company, providing design and engineering services for combined heat and power plants, as well as district heating systems. To continue driving growth in its EPC business, the company sought technology that would deliver better functionality and improved performance. KDHEC chose Intergraph because of its intelligent and production-driven technology, as well as its proven global position, with top local and international engineering companies adopting Intergraph technology for projects worldwide. Intergraph's reliable and advanced engineering solutions will help the company deliver enhanced safety, quality and productivity to its energy plant projects.

"We want to revamp our engineering design platform and Intergraph is the best fit as we look at updating our systems to drive further growth of our business," said Park Keum Yeol, senior engineer at KDHEC. "Intergraph offers a comprehensive portfolio of integrated SmartPlant Enterprise engineering solutions, which will enable us to address our requirements for all disciplines across the entire project life cycle."

Gerhard Sallinger, Intergraph Process, Power & Marine president, said, "Intergraph has been supporting leading engineering companies in Korea for nearly 30 years, and we welcome this new partnership with KDHEC. The use of Intergraph's 3D modeling and visualization solutions will help KDHEC to be more effective and efficient in the management of KDHC's energy plant facilities."

SmartPlant Enterprise offers a powerful portfolio of design and data management solutions, enabling

CIMdata PLM Industry Summary

companies in the process, power and marine industries to capture integrated engineering knowledge at the enterprise level for the competitive advantage needed in today's and tomorrow's market. SmartPlant Enterprise's integrated suite of solutions enables proven productivity gains, improving engineering efficiency by up to 30 percent. This is why the majority of plants built worldwide are designed using Intergraph solutions.

 [Click here to return to Contents](#)

Manufacturers, Engineering Firms Choose Autodesk Simulation 360

19 November 2012

Manufacturing companies and engineering firms worldwide have selected [Autodesk Simulation 360](#) from [Autodesk, Inc.](#) to make simulation part of their daily design and engineering processes.

First introduced in September, Autodesk Simulation 360 features a comprehensive set of tools delivered securely in the cloud for designers, engineers and analysts to more easily predict, optimize and validate the performance of things in the world around us. The virtually infinite power of the cloud allows complex engineering tests that were once limited to simulation specialists to be performed by mainstream designers.

Companies turning to capabilities of Autodesk Simulation 360 include Asahi Kasei Plastics North America, a custom plastic resin manufacturer in Fowlerville, Mi., and Venmar CES (Venmar), a Canada-based leading manufacturer of energy recovery systems. Consulting engineering operations also selecting Autodesk Simulation 360 include Bard, Rao + Athanas (BR+A) Consulting Engineers of Boston, and CFR Engineering (CFR) in Germantown, Md.

“The big advantage of Autodesk Simulation 360 over traditional CFD (computational fluid dynamics) software is the recent implementation of Autodesk cloud computing,” said Jason Sambolt, a mechanical engineer with CFR. “CFR Engineering can now upload its CFD models to the cloud to run simulations in lieu of running the simulations on hardware in the office. This maximizes employee productivity and hardware resource allocation.”

CFR, which provides comprehensive mechanical, plumbing and electrical engineering design services for the building industry in various market sectors, uses Autodesk Simulation 360 to support their project designs. Autodesk Simulation 360 helps CFR and its clients fully understand how a design will function prior to starting construction in order to maximize the efficiency of the design. In turn, this helps CFR to confidently implement new technology and ideas through proof of concept verification.

Autodesk Simulation 360: A Complete Simulation Solution

The engineering team at Asahi Kasei Plastics looks to Autodesk Simulation 360 as a complete solution

CIMdata PLM Industry Summary

given its plastic flow simulation, structural analysis and CFD capabilities that allow the company to read any CAD data provided by customers and easily convert it to simulation file types.

Asahi Kasei Plastics specifically leverages the [Autodesk Simulation Moldflow](#) capabilities in Autodesk Simulation 360 to support its injection molding customers, according to Donald Kosheba, technical services Moldflow specialist at the company.

“With a lower cost of entry, fully functioning user interface and fees only for the time you need, Autodesk Simulation 360 allows us to provide a total engineering solution in simulation on the go,” said Kosheba. “This is by far the best tool we have to support injection molders and mold makers to solve the most challenging plastic processing problems.”

Similarly, BR+A uses the CFD capabilities in Autodesk Simulation 360 for various simulation design tasks, including optimization of architectural and HVAC systems integration.

BR+A designs state-of-the-art healthcare, research, educational and commercial facilities for major corporations and institutions — incorporating [building information modeling](#), energy modeling and lifecycle cost analyses to optimize client investment. BR+A leverages the CFD capabilities in Autodesk Simulation 360 in combination with Autodesk Revit to accelerate project analysis and provide more timely feedback.

“The tools in Autodesk Simulation 360 software are robust tools that give you the real-world information you’d expect when designing an integrated system,” said Jacob Knowles, director of Sustainable Design at BR+A. “The technology hits the sweet spot for our CFD modeling needs.”

Likewise, Venmar uses the CFD capabilities in Autodesk Simulation 360 to perform fluid dynamics studies on its products from packaged light commercial Energy Recovery Ventilators (ERVs) and classroom unit ventilators to semi-custom light commercial ERVs and full-custom Dedicated Outdoor Air Systems.

Study of the air flow pattern and thermal behavior in air handling systems helps Venmar improve design of its products to increase efficiency and reduce production cost, according to Mohammad Afshin, Venmar R&D design engineer. Afshin explained he also appreciates the user-friendliness of the Autodesk Simulation 360 CFD interface, in addition to its easy work flow process and powerful help and support from the Autodesk team.

“The Autodesk cloud environment also allows us to perform multiple simulations simultaneously without advanced computer hardware requirements,” said Afshin. “The other strong aspect of this software is its powerful post processing tools that create very clear, easy to understand images of complicated geometries. These images can also be used in marketing to display our engineering superiority to the customer.”

 [Click here to return to Contents](#)

Samsung Heavy Industries Selects Intergraph® SmartMarine® 3D for Offshore Projects

20 November 2012

Samsung Heavy Industries (SHI) has selected Intergraph® SmartMarine® 3D for its Offshore division. SHI has been a longtime user of the industry-leading solution, deploying it in full production within its Shipbuilding division, and has now extended the use of SmartMarine 3D for its offshore projects.

SHI is headquartered in Korea and it is a global leader in the offshore and shipbuilding industry. The company is one of Intergraph's marine partners and customers. SmartMarine 3D's automated, rule-based technology has enabled SHI to achieve its objective of delivering a higher volume of the most complex and technically advanced vessels on the market today.

Due to the success of SmartMarine 3D for its shipbuilding projects, SHI decided to implement the next-generation solution for its offshore projects as well. SHI deployed SmartMarine 3D successfully for its pilot project, and has since applied the Intergraph solution for its current offshore projects. SmartMarine 3D has delivered significant productivity gains by helping SHI to streamline its design process, reducing production man-hours and project costs.

"We have been a longtime user of SmartMarine 3D for our shipbuilding projects, and we are highly impressed by its application for the offshore industry," said Yeong Soo Bae, executive vice president of research and development at SHI. "SmartMarine 3D's automation capabilities has delivered a tremendous saving in man-hours over our traditional design methods for our offshore projects. We will continue using the solution for the shipbuilding industry, and we look forward to expanding the use of SmartMarine 3D across all our existing and new offshore projects."

Gerhard Sallinger, Intergraph Process, Power & Marine president, said, "We are pleased to further extend our partnership with SHI, one of the world's leading engineering companies. Intergraph has been working closely with SHI to continue enhancing SmartMarine 3D for the industry, and SHI's expansion of SmartMarine 3D into its Offshore division will help SHI deliver increased safety, quality and productivity for both its offshore and marine projects."

 [Click here to return to Contents](#)

Product News

Agilent Technologies Ships Newest GoldenGate Software Release for RFIC Designers

16 November 2012

CIMdata PLM Industry Summary

Agilent Technologies Inc. has announced shipment of its [GoldenGate 2012.10](#) RFIC simulation, verification and analysis software.

The 2012 release offers RFIC designers a host of technology enhancements for accelerated design verification, extended design-for-manufacturing solutions and improved links to system design. Additionally, new licensing models offer users greater purchasing flexibility.

GoldenGate 2012 accelerates design verification through a number of technology enhancements that allow users to set up distributed simulations, run them with unmatched performance, and display and analyze massive amounts of data.

Agilent also offers GoldenGate users an extended parallel simulation license at a fraction of the cost of the base GoldenGate simulator license. It is supported in any scenario launching a parallel simulation, including ADE-XL in Cadence Virtuoso.

X-parameters* generation is another key capability of GoldenGate 2012. It allows designers to capture the nonlinear behavior of active components such as amplifiers and save the data for quick use in simulation models in RF system or circuit designs, while also hiding all intellectual property.

Other new and improved capabilities in GoldenGate 2012 include:

- AC stability analysis, which provides simplified setup, analysis and results processing for Bode stability analysis using the Middlebrook technique. The analysis allows the circuit's open-loop gain and phase characteristics to be determined while the loop remains closed and requires no changes to the schematic.
- Improved links to system-level simulation, including enhancements to the Fast Circuit Envelope model export from GoldenGate to SystemVue and the ability to export and evaluate Application Extension Language expressions during Virtual Testbench evaluation with Ptolemy.
- A broad range of usability enhancements, including improvements in RFIC simulation, support for advanced analysis and millimeter-wave design, and wireless standard-compliant verification.
- Licensing improvements and enhancements that enable more robust license behavior with improved licensing logic. A new License Manager and Product Selector ensure an easier license experience.
- A design-for-manufacturing enhancement that integrates GoldenGate 2012 into the MunEDA WiCkeD tool suite for the analysis, sizing and modeling of circuits. The integration enables automatic compensation of process variations and parasitic influences, and helps reduce the overall power consumption and noise in RF circuits.
- Expanded foundry support.

[GoldenGate](#) is a trusted simulation, verification and analysis solution available for integrated RF circuit design within the Cadence Virtuoso design flow. Its unique simulation algorithms are optimized for the demands of today's complex RF circuit designs, enabling full characterization of complete transceivers

prior to tape-out. GoldenGate is part of Agilent's RFIC simulation, analysis and verification solution, which also includes Momentum for 3-D planar electromagnetic simulation, SystemVue and Ptolemy wireless test benches for system-level verification, and the Advanced Design System data display for advanced data analysis.

 [Click here to return to Contents](#)

Aras Announces VPLM for Autodesk Vault

19 November 2012

Aras® today announced the launch of a new solution designed specifically for companies that run Autodesk® Vault with Inventor and AutoCAD. Aras VPLM™ for Autodesk Vault provides packaged functionality out-of-the-box for corporate-wide PLM business processes, enabling global companies that run Autodesk software to improve product quality, accelerate time to market and achieve greater profitability.

Global Cross Functional Processes

Built on top of Autodesk Vault Professional, Aras VPLM extends the capabilities of Autodesk Vault to drive PLM processes throughout a company and its supply chain for collaboration across organizations including product development, operations, quality, purchasing, sales and marketing, and other groups worldwide. Scalable and secure, Aras VPLM is a business-ready solution for New Product Development and Introduction (NPDI), Complex Configuration Management, Enterprise Change Management, Outsourced Manufacturing, Quality Compliance and more.

“Companies expect their Enterprise PLM solution to exhibit the power and capability necessary to meet the demands of hundreds and even thousands of people throughout the extended organization, especially their partner / supply chain. Power, capability, and accessibility are core Enterprise PLM requirements common across all industries,” notes Autodesk in the Gartner research newsletter ‘Autodesk Extends Benefits of PLM to Everyone at Anytime, from Anywhere’.

“We've been working with Autodesk users for years and know that Autodesk Vault is by far the best CAD file manager for designers using Inventor and AutoCAD. Companies are looking for a way to keep what's working and preserve their investment while they address cross-functional, enterprise-wide PLM business processes,” said Peter Schroer, President of Aras. “So, we've taken our open source PLM solutions, included new out-of-the-box functionality that connects directly to Vault Professional and is optimized for those designers, and we packaged it all up to create a totally new commercial offering that provides companies that rely on Autodesk design software with an option they can run on their own servers and network.”

Easy-to-Use & Powerful

Web-browser screens with a familiar Microsoft look and feel make the application easy to learn and use for everyone, and the highly flexible pure Web architecture includes robust scalability, advanced security and multi-site replication for deployments with users located around the world.

CIMdata PLM Industry Summary

“With VPLM Aras is delivering a powerful PLM extension to Autodesk Vault,” said Martin van derRoest, President of the vdR Group and Autodesk Partner. “The ability to manage complex electro-mechanical product structure configurations and enable cross-functional processes for everyone enterprise-wide is a huge gain for global manufacturers.”

Business Ready Out-Of-The-Box

Item-based and process-oriented, Aras VPLM is designed for the most demanding and complex PLM requirements.

In addition to Inventor and AutoCAD comprehensive multi-CAD capabilities include CATIA, NX, Pro/ENGINEER, SolidWorks, Solid Edge and more, as well as, EDA systems such as Allegro, OrCAD, DxDesigner / DxDatabook, PADS, Expedition, Altium, Zuken CR-5000 and others.

Product Structure & BOM Management:

- Product Structure & BOM Management
- Classification
- Item-based BOMs
- Multi-level Indented BOMs
- Revision & Version Control
- BOM Redlining
- Lifecycle States
- Alternates & Substitutes
- Effectivity
- Baselines
- Design-to-Goal
- Product Costing
- Make vs. Buy Parts
- Approved Vendor / Manufacturer List (AVL / AML)
- Where-Used
- Flat Parts Lists
- Customizable BOM Reports
- Search
- Unlimited User-defined Attributes & Customization Capabilities

Enterprise Change Management:

- Graphical Online Change Processes
- Multiple Affected Items
- Include Unlimited Files & Items

- Impact Analysis
- Cost of Proposed Change
- Effectivity & Release Date
- Fast Track Option
- Email Notifications & Alerts
- Role-based Assignments
- Escalation and Delegation
- Group Voting
- Executive Veto
- Configurable Security
- Real-time Status Visibility
- Audit Trail
- Reports, Dashboards and Scorecards
- Customizable Processes
- Robust Integration Capabilities

Integrated Project Management:

- Project Portfolio Dashboard
- Stage-Gate Project Management
- Backward, Forward or Milestone Scheduling
- Gantt Charting
- Integrated PLM Deliverables
- Milestones
- Tasks & Activities
- File Attachments
- Project Collaboration Workspaces
- Role-based Team Assignments
- Resource Scheduling
- Team Member Work Progress Tracking
- Configurable Project Templates
- Traffic Light Indicators
- Email Notifications & Alerts
- Configurable Security
- Reports and Custom Reporting
- Comprehensive Customization & Integration Capabilities

CIMdata PLM Industry Summary

Extensive additional functionality is included for Configuration Management, Supplier Collaboration, Quality Compliance and much more.

Aras VPLM for Autodesk Vault is a commercial offering available from select Autodesk resellers. Additional details, videos, screenshots and more at www.aras-vplm.com

Learn more and see a live demonstration on the Aras VPLM webcast on Wednesday, December 12, 2012. Registration at <http://aras.com/plm/001686>

 [Click here to return to Contents](#)

AVEVA Publishes New Business Paper - Plant Design for Lean Construction

20 November 2012

AVEVA today announced its release of a new business paper focused on the adoption of a Lean Construction philosophy by Engineering Procurement and Construction (EPC) companies. The paper looks at what is required from the next generation of plant design products to make a step change in project execution efficiency and presents AVEVA's insight on how to apply Lean principles in the plant industries.

“When we first devised the concept for the Future of Plant Design, Lean Construction was the key driver”, said Dave Wheeldon, CTO & Head of Engineering Design Systems, AVEVA. “Lean Construction is founded on three key principles: respect for people by empowering all levels of an organisation, eliminating non-value adding activity by adopting a zero tolerance of wastage, and maximising the efficiency of activities that add value.

“It has always been a challenge to adopt the Lean philosophy to major capital projects due to the fragmented nature of the supply chain and the one-off nature of the project itself. There is now evidence that companies are open to change and thinking about new contracting styles to improve efficiency. New technologies such as affordable laser scanning and mobile computing have already allowed AVEVA to create an innovation which can enable EPCs to adopt a version of Lean Construction for EPC projects.”

AVEVA's new product, AVEVA Everything3D (E3D), enables the realisation of Plant Design for Lean Construction. It reduces project execution duration and allows increased productivity for quicker ROI. Enhanced feedback from fabrication and construction to design will enable EPCs to benefit by eliminating or managing rework early in the design processes rather than by crisis management on the construction site.

Wheeldon added “The move to Lean is a significant challenge, but the benefits are plain to see. As this paper demonstrates, the approach will add competitiveness, increased profitability, improved delivery success and an enhanced brand image for the EPC. Operators will enjoy faster time to first production or first oil and receive a 3D model which is a true reflection of their constructed asset.”

To download the business paper, or for more AVEVA E3D product information, visit: www.aveva.com/futureofplantdesign.

 [Click here to return to Contents](#)

Dassault Systèmes Announces the V6 Release 2013x of its 3DEXPERIENCE Platform

21 November 2012

[Dassault Systèmes](#) today announced the latest release of its 3DEXPERIENCE platform. V6 Release 2013x includes the general availability of Dassault Systèmes' Simulation Lifecycle Management (SLM) capabilities, improved access to Big Data, new composite materials design capabilities, secured exchange workspaces for suppliers, and support for new STEP standards. This release also covers a strong set of industry solutions enhancements for consumer packaged goods, energy, aerospace and defense, transportation and mobility, marine and offshore, and high tech.

More specifically:

- **Availability to all customers of the Simulation Lifecycle Management** application. By managing simulation data, deploying best practices, and sharing simulation results, customers improve collaborative decision making and maximize their ROI in simulation. SLM is the result of extensive work in partnership with many customers in aerospace and defense, transportation and mobility and consumer packaged goods;
- **New enhancements on platform openness:**
 - **Better access to Big Data** thanks to a new connector for Hadoop HDFS, improved performance for WebSphere and SharePoint connectors, as well as new navigation and visualization options for data search, exploration and analysis;
 - **Support for the STEP AP242 standard**, an automotive and aerospace standard which allows import and export of ISO standard BREP and tessellated data to enable engineering, exchange, and visualization for the adoption of a 3D master process; and
 - **Secure access to Supplier Exchange Workspaces.**
- **New Enhancements on CATIA V6:**
 - Easy switching between online and offline mode for CATIA V6. At the click of a button when an Internet connection is not available, designers can protect IP and maintain data integrity. Before going into offline mode, the designer reserves parts for modification, and at the push of a button, these are downloaded to his laptop. Once back online, modified designs can be re-synchronized and active collaboration with the rest of the design team can resume; and
 - **New composites materials fiber simulation capabilities** to optimize ply shapes and ensure accurate composites manufacturing. This technology, based on the recently acquired Simulayt, is routinely used to analyze complex surfaces, particularly in aerospace, motorsports and the energy sector.

CIMdata PLM Industry Summary

“This new release of the 3DEXPERIENCE platform confirms our commitment to explore and realize state of the art applications while also improving the openness of our platform,” said Dominique Florack, Senior Executive Vice President, Products, R&D, Dassault Systèmes. “Each new release is the tangible proof that we care for customer requirements, but especially that we are inspired by their business goals.”

New enhancements for industry solutions:

- Systems enhancements tailored for the [energy](#), [aerospace & defense](#), [transportation & mobility](#) and [industrial equipment](#) industries, including five new dedicated model libraries to simulate and analyze the behavior of engine, electrical, hydro, liquid cooling and thermal power systems. V6R2013x also features requirements effectivity enhancements to support decision making on design configuration alternatives, enabling, for example, faster market reaction in [high tech](#);
- Copy and artwork management for the [consumer packaged goods](#) and [life sciences](#) industries, including capabilities for product managers and other marketing professionals to define, review, and approve copy and artwork content leveraging the same data used during product development;
- Business data access and productivity enhancements to 3DVIA Store, the premier solution for simulating retailing and brand merchandising settings. For example, [consumer packaged goods](#) or [consumer goods](#) products in a gondola can be highlighted based on the value of key business indicators. Accessing business statistics information on the 3D shelf is a major step forward in merchandising decision making;
- A new [marine & offshore](#) manufacturing planning application provides the foundation for all 3DEXPERIENCE shipbuilding manufacturing solutions and delivers a dedicated environment to perform manufacturing process planning, and large manufacturing assembly definition; and
- Virtual 3D manikin posture prediction for the [transportation & mobility](#) industry via new Ergonomics for Vehicle Design within the DELMIA application.

For a detailed listing of new enhancements in V6 Release 2013x, please visit www.3ds.com/products/v6/latest-release.

 [Click here to return to Contents](#)

Equalis Introduces Code Generation Modules for Xcos and Microchip Technology

16 November 2012

Equalis has announced the availability of its Coder and Embedded Coder for Microchip Technology modules. The modules leverage Xcos as well as Gen-Auto platforms. Xcos is a dynamic systems modeler and interactively simulates complex electrical, mechanical, or physical systems developed by the Scilab Consortium. Gen-Auto is an open-source toolset for converting models to executable program code which was developed as a result of an ITEA project by a European consortium of partners

CIMdata PLM Industry Summary

from France, Estonia, Belgium, and Israel.

Now with Equalis Coder users are able to quickly develop portable, readable C code directly from their Xcos models automatically without the time consuming task of manual coding. User can then extend their workflow with the Equalis Embedded Coder for Microchip, which includes specific blocks to efficiently target Microchip's 8, 16 and 32-bit PIC® microcontroller devices and boards. With this new comprehensive solution engineers experience huge productivity gains in developing both real-time and non-real time systems for simulation, rapid prototyping, and hardware-in-the-loop testing.

Equalis provides premier software modules on top of the Scilab open source platform and industrial grade support through subscription programs; typically 90% less than purchasing equivalent software applications. Training, deployment and consulting services are also available for a fast start. Equalis' premier modules include: Communications, Connectivity, Control and Power Systems, Fixed Point, Instrument Control, Neural Networks, Parallelization, Signal Processing, SoftCruncher (software performance enhancement), and many more.

The Equalis Coder and Embedded Coder for Microchip are bundled as an option to the Equalis Pro Plus solution and are available with prices starting at only \$2,995 per user. Existing Equalis Pro Plus subscribers can download these new modules as add-ons.

“With the introduction of Equalis Coder and Embedded Coder for Microchip we have empowered our users with a powerful code generation capability from within a single environment that enables the rapid development and prototyping of complex systems,” said Carmine Napolitano, CEO and Co-founder, Equalis. “This new capability further expands the range of problems our solutions can solve for our customers from within a single environment thus maximizing productivity.”

“We are delighted that Equalis is supporting our 8, 16 and 32-bit PIC microcontrollers, which enables cost-effective development for our mutual customers,” said Derek Carlson, Vice President of Development Tools, Microchip Technology Inc. “Not only can designers use Equalis' solutions to help lower costs, but they can also help improve the quality of their development on our MPLAB® platform.”

 [Click here to return to Contents](#)

Famic Technologies and Linde Hydraulics Collaborate to Produce the Linde Pumps and Motors Catalogue for Automation Studio™ P6

19 November 2012

Famic Technologies, creator of Automation Studio™, the design and simulation CAD software for fluid power, electrical and automation, is proud to announce its collaboration with Linde Hydraulics, a manufacturer of heavy-duty hydraulic drive technology, to release one of the most advanced manufacturer's catalogues available in Automation Studio™ P6.

CIMdata PLM Industry Summary

This new catalogue of Linde pumps and motors is available in Automation Studio™ P6 and offers innovative modular symbol structures with enhanced simulation data. Application engineers are given a new perspective of each component and a clearer understanding of how to apply Linde's products to their advantage. Mrs. Elke Karnarski, Head of Marketing at Linde Hydraulics, says, "With this new product catalogue users are now in the position to configure the system components exactly to the needs of the machine considering at the same time the advantages of the selected components like response time or energy consumption."

Each component in the catalogue was created and virtually-tested within Automation Studio™ to ensure it meets Linde product parameters and behaviour specifications. Specialists will get an exclusive look into the inner workings of Linde pumps and motors, known for precision performance. Furthermore, pumps and motors can be configured according to the designer's needs in order to meet today's demanding level of system performance and efficiency.

Mr. Charbel Nasr, President of Famic Technologies, says, "The Automation Studio™ user community has been widely requesting the Linde catalogue. They will be pleased to know that they can count on a catalogue that was thoroughly verified thanks to a high synergy of collaboration with Linde Hydraulics' team. The catalogue gives OEM's, system integrators and designers that use Linde products significant benefits in terms of fuel efficiency, quicker product lifecycle and already built-in training capabilities."

 [Click here to return to Contents](#)

InfiniteSkills Release "Learning Autodesk Revit Families Training Video" - Taught By Leading Expert

19 November 2012

Software training firm InfiniteSkills Inc. this week introduced its "Learning Autodesk Revit Families Tutorial," an advanced course for Revit users that teaches how to create and use custom objects—families—in the Revit environment.

"Families" is the term Revit applies to all the objects within a design. Certain classes of families are usable only within a given project. However, others can be created for use across multiple projects and shared within a company or even as an industry standard.

The InfiniteSkills Learning Autodesk Revit Families Tutorial teaches everything students and professionals need to know to begin designing and sharing object families, creating custom CAD standards.

Course author Simon Whitbread is a professional in architecture and building services. He has near

CIMdata PLM Industry Summary

twenty years of experience in the CAD industry setting up CAD systems and standards. Since 2002, Whitbread has been focused specifically in Revit training and implementation for a major Autodesk solutions provider.

"I'd like to take you on a journey," Whitbread says. "It begins with the Revit family interface and the tools for creating objects and carries through to a series of exercises aimed to display a variety of techniques and best practices that will aid you in becoming a master of family creation."

Whether using Revit as a smart drafting and documentation tool, or in a multi-disciplinary project environment, consistency is a crucial element in computer assisted design.

Revit families accomplish just that goal, and Whitbread covers all the skills and concepts you need to efficiently and quickly begin using families in your workflow.

With InfiniteSkills' Learning Revit Families Video Training, students begin with with an introduction to Revit families and an overview of the Family Editor interface tools. From there, Whitbread explains in detail with how to create families and plan families for specific projects, including using Revit templates. Following chapters cover parameters, formulas, and how to add detail to models.

The course concludes with chapters dedicated to special family-types such as electrical and plumbing fixtures, how to annotate families, and use Revit's data importing capabilities.

"I really appreciate the opportunity to help people learn," Whitbread says, and especially creating consistent objects is crucial. It allows you to link your standards with company or industry standards. So what you create can benefit a larger community of users."

Free demo videos and a full list of course contents can be found on the Learning Autodesk Revit Families Tutorial training page of the InfiniteSkills website:

<http://www.infiniteskills.com/training/learning-autodesk-revit-families.html>

 [Click here to return to Contents](#)

New KOMPAS-3D V13 Plus is Available

19 November 2012

ASCON Group is pleased to announce the release of KOMPAS-3D V13 Plus. This professional computer-aided design system for mechanical engineers is distinguished by its powerful functions for the 3D and 2D design process, along with its user-friendly interface, easy to learn features, and flexible collaboration with third-party software – all enhanced by reasonable pricing.

CIMdata PLM Industry Summary

This new Plus release features more than 100 enhancements that give customers the ability to increase their productivity through faster operations, improved usability, and simplified product development – with fewer errors throughout the design-to-product process.

The primary new features in KOMPAS-3D V13 Plus include the following:

- Support for 64-bit operating systems
- Improved 3D solid and surface modeling
- Faster view generations
- Enhanced printing
- Better import and export
- Strengthened add-ons

Support for 64-bit Operating Systems

KOMPAS-3D now supports 64-bit hardware and operating systems. This means that KOMPAS-3D now accesses as much RAM as is in the computers of users. The larger memory means that they can load and work with larger and more complicated assemblies.

For users of older systems, the 32-bit version of KOMPAS-3D continues to be available.

Improvements to 3D Solid and Surface Modeling

KOMPAS-3D has the new ability to arbitrarily edit the shapes of faces on bodies and surfaces. After users execute the new Spline Form command, the selected face transforms into a spline surface, and KOMPAS-3D switches to a special operation mode automatically.

The Array construction commands have been revised, allowing more complex arrays of objects.

Functions that work with large assemblies are improved and expanded. Using new ways of loading model files considerably accelerates the processing of large assemblies, such as rebuilding and redrawing models after they are rotated or moved.

Faster View Generation

If the computers of users employ multi-core processors with 8GB or more RAM, then creating and rebuilding associative views runs faster due to the addition of parallel processing. The Parameters dialog box lets users select the CPU processing method.

Enhanced Printing

The Special Print command is useful for printers that support multiple page sizes. For instance, users can now send a multi-page document containing pages of different sizes to a virtual XPS printer. The result

is a single XPS file with the size of each page fitting the paper size of the output document.

Better Import and Export

To improve handling of translated models, KOMPAS-3D now has an option to import arcs and polylines from STEP files, as well as to export these objects back to STEP files. To more easily translate models, users can now use the same parameters for importing models from STEP as for exporting them to the same format.

KOMPAS-3D can now export the attributes of macro objects to DXF and DWG files. Attributes of macro objects become attributes in DWG/DXF blocks.

Strengthened Add-Ons

The APM FEM Strength Analysis add-in for KOMPAS-3D has been improved in the following areas:

- Displays pointers for maximum/minimum values in result charts
- Adds an option for inserting custom leaders in the result charts
- Includes new view filters for maximum/minimum values and custom values
- Adds to the dialog box information on modal structural weights, displaying the results of frequency calculations
- Includes MKL Subspace, a new method for frequency calculations

 [Click here to return to Contents](#)

Nemetschek Vectorworks Releases Spanish-language Vectorworks 2013 Product Line

19 November 2012

Nemetschek Vectorworks, Inc., is pleased to announce the release of the Spanish-language version of the Vectorworks® 2013 line of design software, including: Vectorworks Designer, Architect, Landmark, Spotlight, Fundamentals and Renderworks®. The Spanish-language version will be available throughout the Americas, the Caribbean and Spain.

“This new release of Vectorworks significantly reinforces its strength as a BIM modeler,” said David Oliveira, owner of CAD Technology, the Vectorworks distributor in Brazil and South America. “With features like Detailed Viewports, Auto Hybrid and Surface Array, as well as support for several new export/import formats, Vectorworks 2013 became an even more complete and professional BIM solution for architects and designers.”

The Vectorworks 2013 product line contains more than 80 improvements, including new commands and tools. Performance in many areas of the program has also been improved. Examples of this include wall

CIMdata PLM Industry Summary

network manipulation, hidden line rendering, changes to Vectorworks Spotlight lighting devices and 2D navigation of Vectorworks scenes.

Also, the Portuguese localized version of Vectorworks 2013 software was released in Brazil on November 13. A recording of the Vectorworks 2013 Brazil launch virtual event is currently available online: www.vectorworks.com.br/vw2013/login/.

All Spanish- and Portuguese-language customers have the option to become members of the subscription program [Vectorworks Service Select](#), which includes access to [Vectorworks Cloud Services](#). Language options vary by country.

Please visit www.vectorworks.net/espanol for Spanish-language brochures, FAQs, videos and other materials and www.vectorworks.net/2013 to learn more about Vectorworks 2013 software.

 [Click here to return to Contents](#)

Siemens and Bentley Systems Initiate Strategic Collaboration to Unify Product and Production Lifecycles with Factory Infrastructure Lifecycles

19 November 2012

Siemens and Bentley Systems today announced a strategic collaboration to advance the integration of digital product design and manufacturing processes design with information modeling for facilities lifecycle design. According to the Memorandum of Understanding the collaboration will enable the two companies to deliver intelligent and sustainable digital factory infrastructure. Initially the companies will focus on the digital factory for automotive and discrete manufacturing.

The Siemens Division Industry Automation and Bentley Systems will initially, based on their longstanding commitment to openness in information technology, collaborate on common file formats and content, integrated workflows for factory layout, and the convergence of process and layout. This work is an extension of earlier collaborations between the two organizations that resulted in each deploying technology offerings developed by the other. In the longer term, the companies will explore opportunities for jointly developed technology to expand industry-centric solutions and further collaboration interoperability between Siemens' Teamcenter and Bentley's ProjectWise software.

Teamcenter product lifecycle management software helps companies deliver increasingly complex products while maximizing productivity and streamlining global operations. It provides the right information for people to make the right product decisions – from planning and development through manufacturing and support. The ProjectWise system of collaboration servers and services empowers work sharing, facilitating the use of virtual talent, dynamic review for improved project quality, and content reuse for extended value.

CIMdata PLM Industry Summary

Dick Slansky, senior analyst, PLM research director, ARC Advisory Group, said, “ARC Advisory Group has long advocated for a common, interoperable environment for sharing and exchanging equipment design information and facility design information. We believe this announcement of a strategic collaboration between Siemens and Bentley Systems should go a long way toward enabling the integration of digital equipment design and manufacturing process information with the AEC and infrastructure design/build information solution. Specifically, this collaboration will enable Siemens’ design/build solutions such as Teamcenter, NX, and Tecnomatix to openly interoperate with Bentley solutions such as ProjectWise, MicroStation, and AssetWise. ARC will be following this collaboration closely to gain a better understanding of the overall, and potentially significant, benefits to all of the industrial sectors affected.”

Siemens Industry Automation Division CEO Anton S. Huber said, “Together we will drive the paradigm shift that will establish unified and fully collaborative product and production lifecycles for our customers. This will facilitate workflow efficiencies moving our users to the next level of productivity. Today, it is more important than ever to make full use of all optimization opportunities over the entire lifecycle of a machine or plant. This starts with planning and engineering, and continues into operation and maintenance right through to expansion and modernization. Now, as we seek to extend this to include facilities lifecycles, we have determined that Bentley Systems is the right partner to help us bring this new value proposition to realization.”

Bentley Systems CEO Greg Bentley said, “We at Bentley have redefined asset performance management to span OPEX and CAPEX and are bringing our information mobility technologies to bear on the unification of the project and asset lifecycles. With Siemens converging product and manufacturing process lifecycles, the digital factory seems the ideal inaugural target application for a combined and expanded unification effort. Working smarter, together, Bentley and Siemens will empower our shared users to speed the delivery and outfitting of manufacturing facilities, accelerate the start of production, reduce design, construction, and operating expenses, and improve the operational and energy performance of their factories. We’ve also identified fruitful future endeavors involving our AssetWise software for asset lifecycle information management, including our new Ivara EXP asset performance management software that helps owner-operators obtain the best performance, reliability, and safety from their assets.”

For further information, please visit: www.siemens.com/automation

 [Click here to return to Contents](#)

Sybox Announces Autodesk Learning Video Series

20 November 2012

[Sybox](#) announces a new Learning video series for Autodesk software in collaboration with video2brain, an online video training company. These in-depth video training courses from Sybox and video2brain will help users quickly become proficient in AutoCAD 2013, Autodesk Revit 2013 and Autodesk Maya

2013.

Each video training course features more than seven hours of detailed, step-by-step instruction from leading trainers in the industry who have years of real-world experience using the software. Lessons are presented in immersive, high definition video and the interactive interface lets users quickly navigate to whatever lesson interest them, add custom bookmarks and easily access the related tutorial files. Sybex Learning Video courses are available as DVDs or video downloads, come with closed-captioning and work on Macs, PCs, smartphones and tablets.

The Sybex Autodesk Learning videos include:

- Learning AutoCAD 2013: A Video Introduction
- Learning Autodesk Revit Architecture 2013: A Video Introduction
- Learning Autodesk Maya 2013: A Video Introduction

For additional information about the Sybex Autodesk Learning videos, visit <http://www.sybex.com/go/learningvideos/autodesk>.

 [Click here to return to Contents](#)