

Contents

CIMdata News	2
Factors Impacting Product Success Poll Results	2
Opinion Poll: Which of the following PLM supporting areas would you say holds the most untapped savings potential?	3
Company News	3
ESI Expands Its ISO 9001:2008 Certifications Worldwide with a Focus on Asia	3
Jasper Names HASS Technology Distributor for China	4
NEi Software Celebrates 15 Years of Providing Femap Support	5
Online Contest for High School Teams Seeks to Inspire Love of Engineering	5
Right Hemisphere Selects Nextspace as Global Education Partner	7
Events News	8
aPriori 7 Delivers Significant Expansion of Manufacturing Processes and VPE Configuration	8
Boeing and Northrop Grumman Join Forces for First Joint Global Product Data Interoperability Summit	9
CAM-TOOL v5.0 Official Launch	10
Delcam to Show Latest Aerospace Machining and Inspection Developments	12
Inforum 2009 Brings Together Infor Customers, Experts and Partners to Drive Business Innovation	13
Intergraph® and Customers to Present SmartMarine® 3D Design Use and Successes at 2009 International Conference on Computer Applications in Shipbuilding	14
Planit to Showcase Latest Releases of World Class CAD/CAM at EMO 2009	15
Sescoi Participates in Die and Mold Seminars Across India	16
Valor to Present at PCB West	17
ZWSOFT Announces Success of First Global Partner Conference	17
Financial News	18
Delcam Maintains Development Investment Despite Downturn	18
Implementation Investments	21
ANSYS Harnessing the Power of Ocean Waves	21
AVEVA Instrumentation Selected by AMEC	22
Catalog Data Solutions Catalog adopted by Gates Corporation Industrial Power Transmission Business Unit	22
Delcam's ArtCAM Speeds Jewellery Design	23
Emirate of Sharjah's Directorate of Town Planning and Survey Deploys Bentley's Cadastral Solution to Streamline Workflows	24
Global Engineering Consultancy Atkins Achieves Significant Increases in Productivity Leveraging HyperWorks Simulation Platform	25
High Modulus Achieves Exceptional Productivity Gains by Standardizing on the HyperWorks Virtual Design Suite	26
Indian Institute of Science Selects COMSOL Multiphysics for Training in MEMS	27
Japan's Kyushu University Selects Intergraph® SmartMarine® 3D Design and Engineering Software for Education Program	27
Mentor Graphics Catapult C Synthesis Selected by Fujitsu Microelectronics Solutions Limited for Design and Consulting Services	28
Mentor Graphics Veloce Emulation System Adopted by MIPS to Accelerate Verification for Processor IP	29
MIT and Stylus Automotive have chosen ThinkDesign to design the eco friendly car, VDS Vision 100, designed for India	30

CIMdata PLM Industry Summary

ROWA Tunneling Logistics AG Standardizes On PTC® CoCreate® For Complex International Projects	32
Shin Kurushima Dockyard Starts Implementation of Intergraph® SmartMarine® 3D	32
Ubixum Achieves Product-Ready Design at First Silicon with Synopsys Galaxy Custom Designer Solution	33

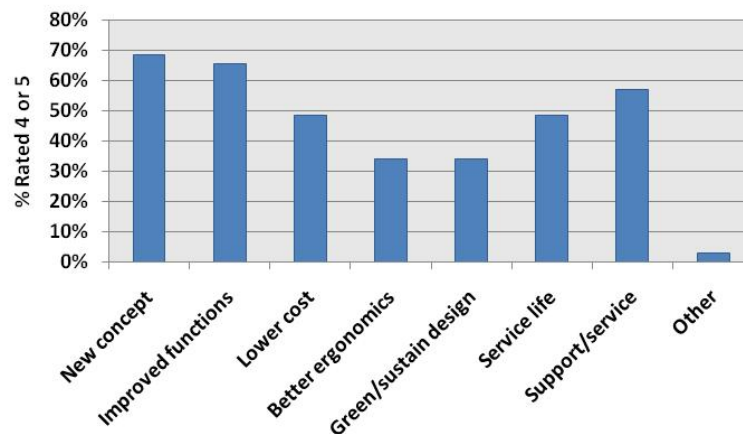
Product News	34
ANSYS Launches Immersed Boundary Module for Rapid Design Evaluation	34
ArchiCAD 13 Revolutionizes BIM Collaboration	35
Cadence and GLOBALFOUNDRIES Announce Broad, Multi-Year Technology Agreement	37
CGTech Ships VERICUT 7.0	38
Dynamic Machining in Mastercam X4	40
80/20 Inc. Empowers Distributors with 8020edge Widget Using VizSpace	40
EVE's New Emulation System Supports High-Capacity Designs of Up to One-Billion ASIC Gates	41
IBM Unveils Enterprise Content Management Software to Help Clients Increase Efficiency	42
Lattice Technology Releases 3ds Max Converter V 4.0	43
Lectra and AB-Inventech Sign Cooperation Agreement for the Expanding Wind Energy Market	44
Mentor Graphics Launches Precise-IP Vendor-independent IP Platform for FPGA Design	45
ROHR2 Update 30.3c; New Features and Improvements	47
Siemens PLM Software Announces Version 5.0 OF Teamcenter Express cPDM	48
SolidWorks 2010 Products: Work Smarter and Faster with Powerful New Capabilities	49
ValGenesis, Inc., the Leading Provider of Validation Lifecycle Management Solutions to Regulated Life Science Companies, Today Announced Support for EMC Documentum v.6.5	51
Z Corporation Brings Multicolor 3D Printing Capabilities to SolidWorks 2010 Users	52
Zuken Announce the Availability of E ³ .WireWorks	53

CIMdata News

Factors Impacting Product Success Poll Results

4 September 2009

In CIMdata's latest opinion poll, participants were asked to indicate how different factors impact product success. The following chart shows the percentage of respondents rating an item either highest impact (5) or second-highest impact (4).

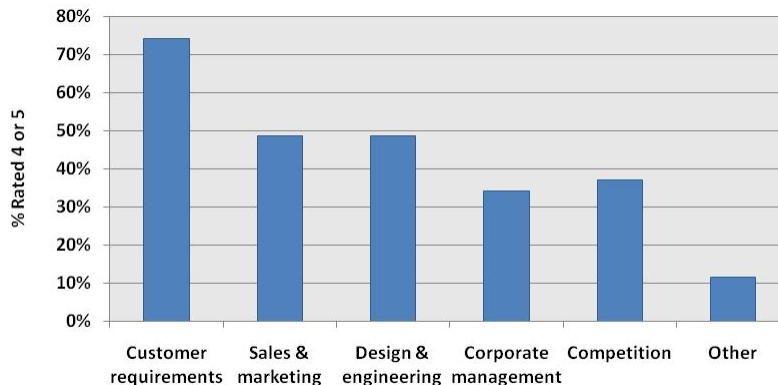


The results show that bringing a completely new product or significantly improving an existing product can have the most impact on the success of the product in the market. It also illustrates the importance of good service and support on customer satisfaction. Interestingly, lower cost and longer service life,

CIMdata PLM Industry Summary

while important, were considered less an impact on success. This would indicate that respondents believe that customers are willing to pay more for new and improved products. This has been true in the past when a first-to-market product (or significantly improved product) has been able to command premium pricing until the competition can catch up. Green/sustainable design is considered less important than other factors, but CIMdata thinks it will grow in importance in the coming years.

When asked who sets priorities for new product design, customer requirements were most important. The following figure shows that after customer requirements, sales and marketing, and design and engineering have an equal role in setting product design priorities. It is interesting to note that reacting to competition was considered less important and than sales and marketing, or design and engineering. However, requirements and priorities from those two groups often reflect competitive factors, e.g., sales and marketing requesting a product feature already available in their competition.



Corporate management was rated the least important when compared to the other factors in the poll; however, many of their priorities may have already been included in sales and marketing requests. The bottom line is that creating new and improved products that meet or exceed customer expectations and requirements is still the best path to success in today's highly competitive markets.

NOTE: The results of these polls are anecdotal, not scientific.

If you have a suggestion for a poll you'd like to see contact us at info@cimdata.com.

[↑ Click here to return to Contents](#)

Opinion Poll: Which of the following PLM supporting areas would you say holds the most untapped savings potential?

Help us learn more about this important topic. Vote [here](#).

The results of these polls are tabulated as you vote. The results are completely anonymous.

[↑ Click here to return to Contents](#)

Company News

ESI Expands Its ISO 9001:2008 Certifications Worldwide with a Focus on Asia

3 September 2009

[ESI Group](#) announced the [ISO 9001:2008](#) certification of its two main subsidiaries in Asia: ESI ATE in

CIMdata PLM Industry Summary

China and Nihon ESI in Japan. These certifications recognize well-implemented Quality Management Systems (QMS) in the head offices (Beijing, China and Tokyo, Japan) as well as others (Guangzhou, China; Osaka and Aichi, Japan) providing software solutions, training, technical support, and related consultancy in the field of Simulation-Based Design.

ESI Group's software development entity earned its first ISO 9001 certification in 2000 to meet customer expectations throughout an ever-growing network covering more than 30 countries. ESI's goal, by promoting the process approach, is to bring about true customer satisfaction for the quality of products and services provided.

"The fundamental prerequisite for any business success is the focus on customers and the fulfillment of their requirements – especially in terms of quality", said Dominique Grolade, Corporate Quality Manager at ESI Group. "The extension of our certification perimeter highlights ESI's focus on customer requirements. This shared culture of quality is fundamental in continuing to satisfy requirements for our core customer base and for increasingly diverse domains and industries such as Energy, Powertrain, Electronics and Defense".

2009 is proving to be a significant year with regards to quality standards, as ESI's 3 candidacies for certification have all been confirmed, starting with Mecas ESI (Czech Republic) in January, followed now by ESI ATE and Nihon ESI. These three recent certifications confirm ESI's commitment to meet the challenging, internationally recognized quality requirements for software development and engineering services. Indeed, Mecas ESI, ESI ATE and Nihon ESI's QMS are a result of the teams' hard work over the past several years towards one objective: develop and maintain a system fully matching quality standards to best support ESI customers with products of constant quality meeting their expectations.

The expansion of ESI's ISO 9001:2008 certifications allows current and future customers to rely on an even more transparent and reliable global solution provider.

"The recent ISO certifications in Asia are important steps as ESI Group moves towards a global Quality Management System", stated Dr. Christopher St John, CEO of the Asia Pacific territory, ESI Group. "ESI is on the path to a unified method of operations worldwide; assuring consistent practices and a high level of expertise at every level in our organization. Very importantly, these certifications are also pre-requisites for the services projects which we are now undertaking for the re-invigorated Nuclear Power industry in Asia".

 [Click here to return to Contents](#)

Jasper Names HASS Technology Distributor for China

1 September 2009

[Jasper Design Automation](#), provider of advanced formal technology solutions, has named HASS Technology as its distributor in China and Taiwan.

HASS Technology is a new distributor with offices in Taipei and Shanghai headed by industry veteran Thomas Wang, President of HASS Technology, who was previously Sales Director of ForteLink, Inc. Under the terms of the agreement HASS Technology will sell and support all Jasper products.

"HASS has the market experience and technical acumen to help us reach our goals in China and Taiwan where we see unlimited potential," Kathryn Kranen, Jasper President and CEO said. "This is a very exciting time to be in this market, and I believe having a distributor with such deep roots in this territory

and the EDA business will be of great benefit to Jasper.”

“Jasper has an excellent reputation for its products, and outstanding customer support,” Wang said. “It will be very exciting to introduce their technology to a wider audience in China and Taiwan.”

 [Click here to return to Contents](#)

NEi Software Celebrates 15 Years of Providing Femap Support

1 September 2009

NEi Software is celebrating 15 years of excellence in support of Femap[®] Finite Element Modeling Pre- and Post-Processing software. [Femap](#) by Siemens is a Windows-based Finite Element pre- and post-processor used by engineering organizations worldwide to model various products, processes, and systems. In combination with [NEi Nastran](#), Femap delivers an intuitive environment in which many companies have been able to excel their process of engineering. By providing support in sales, training, technical expertise, and assisted development, NEi Software has been instrumental in the growth of Femap. Bill Dickert, Western US Channel Manager, is quoted as saying, "We here at Siemens have enjoyed a long standing strategic relationship with NEi. They have established a strong base of Femap customers by proving a complete solution of software, training and world class support. We applaud their accomplishments and look forward to their continued success."

NEi Software provides expertise in the following areas:

Development

Training

Technical Support

Mentoring

In celebration of this milestone, see why customers have turned to NEi Software to meet their engineering needs.

[Training](#)

[Nastran.TV](#)

[Testimonials](#)

Free webinars are just one example of how NEi Software serves Femap users. Visit www.NEiSoftware.com/webinar/FemapTips to register for this month's online seminar, which will share tips to make users more productive with Femap, give a quick introduction to the Femap API, and also cover new features in version 10.1.

 [Click here to return to Contents](#)

Online Contest for High School Teams Seeks to Inspire Love of Engineering

3 September 2009

VizSeek and 80/20 Inc., with the support of the National Science Foundation, are launching an online industrial design competition to inspire high school students to pursue an engineering and technology path.

CIMdata PLM Industry Summary

The Internet Community-based Interactive Technology Environment (INCITE) contest is open by invitation only to teams from the US FIRST Robotics Competition (FRC). The teams will use the online design widget 8020edge in VizSpace, VizSeek's online industrial community networking platform, to create 3D designs for industrial applications using 80/20 parts.

[VizSeek](#) plans that INCITE will be the first of many contests that companies like 80/20 Inc. will host in their VizSpaces, as both a promotional and an educational tool to bring together the worlds of social networking, industrial engineering and technology, and education.

"The U.S. is losing its manufacturing base, and fewer and fewer American students are graduating in engineering and technology fields. Competitions, especially in an online format that's both fun and easy to use, are a great way to inspire creativity and generate interest," said Nainesh Rathod, CEO of VizSeek. "Through VizSpace and contests like INCITE, we're providing a way for the manufacturing and industrial community to reach out to our future engineers, while also promoting their products and services."

The US FIRST Robotics Competition teams eligible for this competition are made up of high school students from around the country, who work throughout the year with the help of faculty advisors to build robots for specific purposes to compete against other teams' robots. Steve Florence is a teacher of Engineering/Technology at West Lafayette High School who serves as the faculty advisor to the high school's FRC team and is also working as an advisor to VizSeek in developing the INCITE contest. According to Florence, "The INCITE contest is a natural extension of the FRC competitions, where the kids use technology to solve a common problem. The online tools, the use of social networking, and the 80/20 parts will already be familiar to them, so this contest gives them the opportunity to put them all together to really be creative and innovative in their thinking."

As the sponsor and host of the contest, 80/20 will be displaying the designs in the contest VizSpace, where VizSpace members from the industrial community will be able to vote for and comment on the designs. The design with the most votes will be declared winner. Doug Wood, partner and general manager of 80/20 Inc., says that, "80/20 Inc. is excited to be able to support young people with a love of engineering and design. The 8020edge tool will give the teams the freedom to use 80/20 parts to design anything they can imagine within the contest rules, and we're looking forward to seeing some creative submissions."

Contest Details

The students will work as teams, using VizSeek's VizSpace to create team VizSpaces where they can add and use the online design widget 8020edge to create designs within the theme of "Material Handling," using 80/20 parts. With the widget, students create a design and generate a bill of materials for the design, which must have a cost no higher than \$1,000. Each team can submit up to five designs, and members of VizSpace from the industrial community will vote on the designs. The team with the winning design will receive either the 80/20 parts to create their design or a credit of \$1,000 toward 80/20 parts that they can use in the robotics competition. A picture of the winning team and their design will also appear in the Made with 80/20 Stuff book, 80/20 Inc.'s flip book showcasing the many different ways their products are used.

Registration begins September 8, 2009, and only the first 50 teams to register will be eligible to compete. More information on INCITE is available at <http://www.vizseek.com/Info/aboutcontests.aspx>.

About 80/20 Inc.

CIMdata PLM Industry Summary

80/20 is the leader in modular framing systems that adjust to fit any industry and application. From light- to heavy-duty, the 80/20 modular framing system provides secure and OSHA-approved guards, displays, workstations, and more. More information is available at <http://www.8020.net>.

 [Click here to return to Contents](#)

Right Hemisphere Selects Nextspace as Global Education Partner

2 September 2009

Right Hemisphere® and leading 3D visualisation consultancy [Nextspace](#) announced that Nextspace has been selected as Right Hemisphere's global education partner. In this capacity, Nextspace will distribute the 3D visualisation tools developed for Right Hemisphere's Fortune 1000 clients to universities, community colleges and K-12 institutions. In addition to distribution, Nextspace will collaborate with educators to develop learning strategies and student assessments that incorporate 3D visualisations in teaching and learning tools.

[Right Hemisphere](#) software, such as Deep Exploration™ and Deep Server™, is available to education institutions at significant discounts. The software processes and generates 2D and lightweight 3D visual interactive content that can be embedded into websites and common documents like Microsoft Word, PowerPoint and Adobe PDF.

Brenda Frisk, Nextspace business development director and education lead, says 3D visuals increase the students' engagement and promote better knowledge retention. They also encourage enquiry and authentic learning, critical thinking and collaboration, and bring real world tasks into the classroom. "Visual literacy skills are increasingly in demand and need to be developed alongside traditional forms of literacy. Using 3D models provides the opportunity to learn by interacting and doing rather than passively receiving information -- ideal for students used to video games and modern media."

"In the commercial market companies are leveraging 3D data and incorporating it into their mainstream business processes every day because it makes them more productive," said Rix Kramlich, vice president of worldwide business development at Right Hemisphere. "Bringing 3D visual content into higher education curricula not only enables a new media type, it also equips students with the necessary skills to enter the workforce."

Kramlich continued, "Nextspace, with its 3D expertise and passion for the education market, will make an excellent Right Hemisphere ambassador to this community."

The Nextspace education team has extensive experience in both the commercial and education sectors, and has developed digital strategies for secondary, tertiary and adult education institutions in North America and the Asia Pacific.

This experience includes working with community colleges to develop 3D learning resources for engineering, automotive, plumbing, nursing, health and safety, horticulture and hospitality courses. A national K-12 distance education school is working with Nextspace to incorporate 3D into its cross curriculum online learning courses. The company has also developed industry training tools for health and safety training in industrial plants and to train plumbers and gas fitters how to install solar hot water cylinders.

 [Click here to return to Contents](#)

Events News

aPriori 7 Delivers Significant Expansion of Manufacturing Processes and VPE Configuration

3 September 2009

aPriori announced the availability of aPriori 7, the newest version of its [Product Cost Management](#) software platform. aPriori provides manufacturers real-time visibility to product cost that supports:

- Launching New Products at or Below Target Cost
- Maximizing Cost Savings on Re-Work Projects
- Never Overpaying for Outsourced Parts
- Increasing the Accuracy and Speed of RFQ Responses

With aPriori 7 discrete manufacturers can quickly and reliably cost a wider range of manufacturing processes than ever before, configure [Virtual Production Environments \(VPEs\)](#) to include manufacturing processes and capabilities for a specific factory, and simplify the process of maintaining their VPEs. A summary of new functionality introduced with this release is provided below:

Expanded Capabilities to Cost Additional Manufacturing Processes and Configure VPEs – examples of the capabilities now possible through aPriori Services with aPriori 7 include:

Adding progressive die stamping at a Sheet Metal VPE

Implementing an alternative casting process such as permanent mold or investment casting at a Casting VPE

Configuring machining operations such as tapping, thread milling, and deep drilling at a Machining VPE

Configuring special surface treatment steps such as chrome plating or heat treatment at a VPE

Configuring a VPE to support user specification of manufacturing details, such as special handling times

Configuring a VPE to display additional output information, such as the total number of hits estimated for a turret press

Enhanced Sheet Metal Cost Model – A new version of the aPriori Sheet Metal process group is now available with several substantial enhancements over prior versions, including:

Routings – Users now have access to a more flexible set of routings and easier control over the inclusion or exclusion of optional routing steps, such as painting or plating.

Manufacturing Rules – aPriori will now automatically alter a routing based on available tolerance and roughness information on part features or specific Geometric Cost Drivers.

Geometry Analysis – Sheet Metal geometry analysis has been improved to include handling parts with rounds on the part edge, enhanced handling of blind holes, and substantial improvements in analyzing candidate setup axes for secondary machining.

Enhanced VPE Maintenance – The VPE management tool has been improved to enable customers to define, edit, and maintain all data at their VPEs, including: maintaining material, machine, workcenter,

CIMdata PLM Industry Summary

lookup table (e.g., cut rate), toolshop and tool material data. These capabilities, coupled with our VPE Creation module will allow a customer to rapidly build VPEs to meet their evolving use cases of their user base, and maintain those VPEs with little to no assistance from aPriori

Complete 3D CAD Independence – Since version 6.0, aPriori expanded support for all major CAD platforms including CATIA v5, Siemens NX, Solidworks and Autodesk Inventor. With aPriori 7, complete 3D CAD independence has been achieved by providing the capability to cost STEP and Parasolid parts & assemblies. Support for the STEP neutral file format will allow customers to cost models from any other 3D CAD application that may still be in use at their facility.

“The aPriori product management and development teams have spent a significant amount of time working with customers over the past year to understand what are the most important development projects from their perspective,” said Jeremy Rishel, Chief Technology Officer at aPriori. “By far, completeness of cost ranked the highest across our entire customer base. With aPriori 7, our Product Cost Management software platform has taken a significant step forward toward achieving this objective by enabling the addition of numerous specialized manufacturing processes to existing process groups. In most manufacturing process groups, the quantity of operations now available has more than doubled. Furthermore, the ability to implement a wide variety of customizations to aPriori VPEs will allow customers to finely tune their virtual factories and yield an accurate cost assessment in a way that was never possible before.”

Webinar Scheduled for September 17th

aPriori will showcase the newest version of their Product Cost Management platform on September 17th, from 2:00pm to 3:00pm EDT, in a public webinar available to everyone. For more information and to register for this event, please visit this website:

<https://www1.gotomeeting.com/register/368809576>

 [Click here to return to Contents](#)

Boeing and Northrop Grumman Join Forces for First Joint Global Product Data Interoperability Summit

27 August 2009

The Boeing Company and the Northrop Grumman Corporation are teaming up for a Global Product Data Interoperability Summit in Mesa, Arizona, Nov. 9-12, 2009.

It is the first time the companies have co-hosted such an event, which this year combines three previous separate conferences into one: The Boeing Product Data Exchange Conference, the Boeing SOA Deep Dive and the Northrop Grumman PLM Summit.

The Summit's theme, "Common Information in a Changing World," reflects its focus on service-oriented architecture (SOA), product lifecycle management (PLM) and the shared data standards these product development solutions depend on.

"We've been dedicated to communicating the importance of data exchange and SOA for years," said David Koshiba, Boeing Research & Technology director, Advanced Lean Enterprise. "Bringing these three events together increases collaborative knowledge sharing, facilitates access between attendees and vendors, and helps keep everyone's costs in line in view of the current economy."

"PLM is at the foundation of our ongoing focus on process improvement and management," said Todd

CIMdata PLM Industry Summary

Norwood, vice president, ERP and Enterprise Programs for Northrop Grumman. "We are looking forward to broadening the scope of discussion about the key supporting role that interoperability plays throughout product development."

Attendees at this year's Summit -- being held at the Arizona Golf Resort/Hotel/Conference Center in Mesa -- will benefit from a wide selection of presentation topics across the SOA, PLM, and CAD/CAM/CAE domains. Some forums are open only to employees of the two sponsoring companies, while others are available to vendors and the invited public. Those who wish to be invited to participate and/or give presentations at the conference should contact event coordinator Elysium Inc.

"Interoperability between systems is critical to success in today's global markets," said Ken Tashiro, vice president, Elysium Inc. "This year's combined event format allows aerospace employees, software suppliers, academics and others in the PLM space to communicate with industry leaders who are using best practices for data exchange between applications." Presentation tracts will address key issues in Processes, Tools, SOA, Data and Migration. The deadline for registration and for submitting presentation abstracts is Sept. 23, 2009.

For more information and registration please visit

<http://www.elysiuminc.com/Events/eventdetail.asp?eID=72> or contact Ken Tashiro of Elysium Inc. at 248-799-9800 X1303 (Ken.tashiro@elysiuminc.com)

 [Click here to return to Contents](#)

CAM-TOOL v5.0 Official Launch

4 September 2009

Due to the overwhelming response to our last version upgrade seminar we at [GPNA](#) will be offering 5 dates and locations at which you can attend this year's event. CAM-TOOL v5 has many new tool paths and features that we want all of our customers to become experts at. In these trying economic times it becomes even more important to do things faster, better and more accurately than your competition. That is why this year's seminar also includes a training session to teach many tools and techniques to help you improve your productivity. As always our goal at CAM-TOOL is your success. Please make a point to attend one of these seminars and also please let us know ASAP which location you will be attending at. See you there.

AGENDA IN BRIEF

Chris Renaud From Cam-Tool

A chapter and verse walkthrough of Cam-Tool version 5.0

Including Q & A.

Advanced techniques training session.

Machining demos at some locations.

Locations:

Creative Evolution

981 Lunt Ave

Schaumburg, IL

CIMdata PLM Industry Summary

Phone: (847) 301-0700

Thursday, Sept 10

10:00am-5:00pm

5x & 3x Machining Demonstration.

Lunch will be provided.

Crowne Plaza Hotel

Minneapolis North

2200 Freeway Blvd

Minneapolis, Minnesota

Hotel Front Desk: (763)566-8000

Hotel Fax: (763)561-9531

Wednesday, Sept 16

9:00am-1:00pm

Discount room rates have been negotiated for out of town attendees.

Minnetonka Room. Coffee & Donuts provided.

Gosiger Michigan

14600 Keel Street

Plymouth, Michigan 48170

Phone: (734) 582-2100

Wednesday, Sept 23

9:00am-4:00pm

5x machining demonstration.

Lunch will be provided.

Gosiger Dayton

108 McDonough St.

Dayton, Ohio 45402

Phone: (937) 228-5174

Thursday, Sept 24

9:00am-4:00pm

3x machining demonstration.

Lunch will be provided.

Graphic Products North America

CIMdata PLM Industry Summary

2160 Fasan Drive

Windsor, ON, Canada

Phone: (519) 737-6009

CALL FOR DIRECTIONS ...

Tuesday, Sept 29

1:00pm-5:00pm

If interested in attending please contact:

Randy Nash, President

Graphic Products North America Inc.

2160 Fasan Drive

Oldcastle (Windsor), Ontario, Canada

N0R 1L0

Phone 519-737-6009

Fax 519-737-1647

Cell 440-465-2799

randy@camtool.com

 [Click here to return to Contents](#)

Delcam to Show Latest Aerospace Machining and Inspection Developments

3 September 2009

Delcam will demonstrate its latest developments for the machining and inspection of aerospace components at the Aero Engineering exhibition and conference to be held in Manchester on 10th and 11th November. These will include the new releases of its PowerMILL machining software for high-speed and five-axis machining, and of the PowerINSPECT inspection software, plus a range of adaptive machining solutions to allow more accurate manufacture and repair of complex components.

The latest release of the PowerMILL CAM system, version 10, offers the fastest-ever toolpath generation on multi-processor computers. It incorporates the latest background-processing and multi-threading technologies, and so uses the full power of recent hardware developments to reduce calculation times and increase output. Other enhancements to further increase productivity include reduced memory usage when programming the largest and most complex parts, and improved ordering to give faster cycle times on the machine tool.

With PowerMILL 10, users can prepare data in the foreground while calculating toolpaths in the background. This eliminates the need for the user to wait for each calculation to be completed before he can start preparing the next operation. Productivity is also increased because the computer can continue with a series of calculations during the user's breaks or even overnight. Calculations can be queued by the operator and the software will automatically start the next operation as soon as each toolpath is generated.

CIMdata PLM Industry Summary

Version 6 of PowerINSPECT includes a range of enhancements to make it easier and more flexible to use. The most obvious change is a completely new interface for undertaking “simple” measurements. This will make it much easier to undertake basic tasks, such as measuring the distance between two points or two planes, or the centres of two circles, or checking the thickness of a section.

A number of improvements have been made to the ways in which data within geometric features can be handled. This will make it easier to see where the problems areas are, especially in bigger parts with large numbers of measurements. It will also be possible to use individual points within multiple features.

Increased flexibility will also come from the new ability to display feature measurements as surface points for comparison with the CAD model. This will make it easier to spot errors when, for example, a circle is perfect in its own dimensions but is not in exactly the correct position on the part.

Delcam will also demonstrate new ways in which machining and inspection can be integrated to give adaptive machining. One example of this integration is electronic fixturing with the NC-PartLocator program. With this technique, toolpaths are adjusted to match the actual position of the surface of the workpiece, rather than trying to align the part into exactly the nominal position specified in the CAM system. This approach can overcome the problems encountered when machining large, heavy components or flexible composite panels.

The first stage in this approach is to create a probing sequence in the inspection software, preferably using off-line programming so there is no interruption to the machine tool’s cutting time. This sequence is used to collect a series of points from the workpiece, which can be used map the surface of the part. Any mismatch can then be calculated between the nominal position used in the CAM system to generate the toolpaths and the actual position of the workpiece surface in relation to the machine-tool bed. A modified set of toolpaths can then be created within the CAM system that will give accurate machining of the part.

 [Click here to return to Contents](#)

Inforum 2009 Brings Together Infor Customers, Experts and Partners to Drive Business Innovation

27 August 2009

Infor's annual user conference, [Inforum 2009](#), is the backdrop for a two-day discussion of enterprise software innovation that enables mid-market companies to improve operations and bolster profitability. Held October 20-21, this year's conference will be hosted virtually, allowing a greater number of customers to interact with Infor experts and peers through product-focused educational sessions, networking opportunities, multimedia demonstrations, and post-session question and answer forums.

Inforum is the largest annual gathering where Infor customers, partners and experts connect and learn about innovative technology developments designed to help companies solve today's complex business challenges, while reducing total cost of software ownership (TCO) and maximizing their return on maintenance. The conference will feature approximately 90 sessions in 14 different tracks and include discussion on Infor's product roadmaps, solution-specific training and customer case studies. Registration for the event begins September 14, 2009.

Highlights of Inforum 2009:

Keynote, Chairman and CEO Jim Schaper will share his thoughts on improving performance by driving business innovation Tuesday, October 20 at 11:00 a.m. EDT

CIMdata PLM Industry Summary

Solutions Expo, a high-energy interactive environment where attendees can visit Infor and partner booths, participate in live chats and presentations, access product information, view video demonstrations, and download valuable business information into a virtual "briefcase" on their desktop

Networking Square, a central conference networking space designed to promote online group discussions and one-on-one live chats with members of Infor's product management team and other users

"As the recent economic climate has shown, the most innovative and successful companies are those with a robust technology infrastructure that enables them to dynamically adapt to market fluctuations while providing the flexibility to maximize performance in good times and in bad," said Jeff Abbott, vice president, field and solutions marketing, Infor. "Inforum 2009 offers outstanding networking and educational opportunities and will deliver the insights, tools and strategies that will engage, inspire and empower our customers to achieve new levels of business performance through software innovation from Infor."

Additional Resources

Inforum 2009 Website - <http://sn.im/inforum2009>

Infor Blog "Inforum 2009: A Real Event for You, Our Customer, in a Virtual World" - <http://sn.im/inforumblog>

 [Click here to return to Contents](#)

Intergraph® and Customers to Present SmartMarine® 3D Design Use and Successes at 2009 International Conference on Computer Applications in Shipbuilding

31 August 2009

Intergraph and customers including Samsung Heavy Industries and COSCO Shipyard Group, will present how its next-generation SmartMarine Enterprise 3D design solution increases productivity and accelerates vessel completion at the 14th International Conference on Computer Applications in Shipbuilding (ICCAS) Sept. 1-3 in Shanghai, China.

The presentations will include: "Automated Drawing Production From 3D Models" by Tom Szoka, Intergraph, and Jinsup Cheong, Samsung Heavy Industries; and "SmartMarine 3D Implementation at COSCO Shipyard Group" by Gu Xiang, COSCO Shipyard Group Co. Ltd. In addition, Intergraph marine software subject matter experts will conduct two other presentations during the conference: "Model Data-Reuse and Experienced Ship Design" by Yann Limon-Duparcmeur and Cecile M. Turnbull; and "Geometric Constructions: The Next Level of Rule-Based Design Automation" by Kristin Cochran and Patrice Blanchard.

SmartMarine Enterprise is an integrated solutions suite that provides the design, construction, materials, and engineering data management capabilities needed for the creation, safe operation and maintenance and capital Project Lifecycle Management (cPLM) of ships and offshore devices. SmartMarine 3D is the data-centric, rule-driven design component of the multidiscipline SmartMarine Enterprise portfolio for streamlining design processes while preserving existing data and making it more useable/re-useable over the operation, maintenance and modification life cycle of a device. The design software has proved to reduce costs and shorten project schedules and couples engineering, automatic drawings generation, production planning and manufacturing.

CIMdata PLM Industry Summary

ICCAS is an annual conference that reviews operational experience from existing computer applications in the design and build of ships and offshore structures, as well as examines the advances in information technology which have contributed to increased productivity in both shipbuilding and maritime operations.

Gerhard Sallinger, Intergraph Process, Power and Marine president, said, "ICCAS 2009 will provide an opportunity to see firsthand the quality results that SmartMarine 3D enables our customers to achieve. We look forward with our customers to sharing why Intergraph is rapidly becoming the preferred solution for the world's leading shipbuilders and offshore designers."

Intergraph will demonstrate SmartMarine 3D 2009, the newest version of its multidiscipline, integrated design software at ICCAS booth #9.

An Intergraph white paper, capital Project Lifecycle Management (cPLM) vs. Product Lifecycle Management (PLM) for Shipbuilding, Marine and Offshore Industries, also will be released at the ICCAS conference. The paper, which includes an introduction by Professor Jang-Hyun Lee, Ph.D. with the Department of Naval Architecture and Ocean Engineering at Inha University in Incheon, South Korea, explores the technical and business differentiators between cPLM and PLM. It also looks into the inherent differences between the two technologies as they apply to the shipbuilding, marine and offshore industries. The paper is available for download at <http://www.intergraph.com/promo/cplm>.

About ICCAS

ICCAS 2009 will be the 14th International Conference on Computer Applications in Shipbuilding. The 2009 conference will be held in Shanghai, China, September 1-3, 2009

The conference will review operational experience from existing computer applications in the design and build of ships and offshore structures. It will also examine the advances in Information Technology which have contributed to increased productivity in both shipbuilding and maritime operations; including increasing co-operative working between shipyards, marine equipment and system manufacturers, engineering partners and shipping companies.

 [Click here to return to Contents](#)

Planit to Showcase Latest Releases of World Class CAD/CAM at EMO 2009

3 September 2009

Planit (Hall 9/Stand A26/A28/A30) will be demonstrating significant CAD/CAM developments at EMO, the largest European exhibition for metalworking and manufacturing technology, held in Milan, from 5th to 10th October 2009.

Planit provides CAD/CAM software solutions to companies looking to gain the most from their machine tools, attaining an efficiency advantage over their competition. Planit will be promoting its full range of CAD/CAM software solutions for metalworking, which includes Alphacam and Edgecam for prismatic and cylindrical machining as well as Radan for sheet material.

Planit's commitment to developing its products will be demonstrated at EMO 2009, where it will present the latest developments for Alphacam, Edgecam and Radan with its 2010 software. With each release Planit's development teams focus on ensuring that its software solutions provides its customers with the functionality to get the most from their machine tools and work as efficiently as possible, as Russell Franks, Chief Technical Officer highlights: "Software development is as essential to our customer's

CIMdata PLM Industry Summary

business as it is our own, and its particularly important at this time when companies are looking to optimise efficiency and reduce costs. The releases on show at EMO will deliver leading CAD/CAM performance and functionality, enabling our customers to get the most from their machine tools and remain competitive - crucial in the current business climate.”

With the release of the latest industry reports from [CIMdata](#), Planit has continued to be the world’s fastest growing CAD/CAM supplier and has the largest installed user base and this success is set to continue. To ensure you are able to see Planit’s latest releases of software you can visit <http://www.planit.com>.

 [Click here to return to Contents](#)

Sescoi Participates in Die and Mold Seminars Across India

1 September 2009

Sescoi is building on the success of its WorkNC CAM/CAD system and ERP solutions in the Indian market by participating [in a series of Die and Mold seminars](#) organized by IMTMA, the Indian Machine Tool Manufacturers Association. The fourth in the series, held in Hyderabad at the end of July, welcomed owners and engineers from the many die and mold companies based in this area.

Sescoi experts were on hand to explain the cost advantages of an automated CAM/CAD system such as WorkNC and a presentation was given clearly outlining the benefits of using an ERP system such as MyWorkPLAN and WorkPLAN Enterprise software.

In this latter presentation, a leading SESCOI ERP consultant explained that accurate costing and quotation production are key elements of ERP systems, which use historic and real time data to capture an exact snapshot of the status of the factory at any given time. He went on to show how managers can use the power of ERP to ensure that the price for a job is realistic, track its progress to ensure on time delivery, monitor its quality status and check for cost overruns. Furthermore, reports tailored to the needs of each company keep track of key performance indicators to ensure that profitability levels are on target.

Sescoi developed MyWorkPLAN and WorkPLAN Enterprise specifically for project based companies such as mold and die and special purpose machine manufacturers. It used its 20 years of experience within the industry to tailor the software exactly to the needs of its customers, so that installation and implementation is easy and operation of the software simple.

According to SESCOI, many of the challenges faced by Indian mold and die manufacturers can be overcome through the implementation of ERP or job management software. Efficient use of existing resources and accurate costing will have a huge impact on profitability and productivity. However, SESCOI also warns against excessively customized software that is complex to operate, has high start up costs and may well fall into disuse after implementation.

Following the seminar presentations, engineers visited local company, Vasantha Toolcrafts’, toolroom where they could see some of the technology in action and hear how this very professional company is investing in improving their working process to become even more competitive in worldwide markets. To this end Vasantha Toolcrafts has recently acquired SESCOI’s MyWorkPLAN job management system.

The success of the first four seminars has prompted the IMTMA to plan to replicate the sessions in other Indian cities so that many more Indian die and moldmakers can learn about latest technology, best practice, SESCOI’s ERP and CAD/CAM experience in the domain, and determine how best to apply the knowledge to their own operations.

 [Click here to return to Contents](#)

Valor to Present at PCB West

September 2009

Valor Computerized Systems, Inc. announced that it will feature its Design for Manufacturability Software - Enterprise 3000 and its PCB Matrix Library Generation Software - LP Wizard and Symbol Wizard at the upcoming PCB West Conference & Exhibition, scheduled to take place September 15-16, 2009 at the Santa Clara Marriott in Santa Clara, CA.

Valor's Design for manufacturability (DFM) system, Enterprise 3000, enables OEMs to create virtual prototypes of their Printed Circuit Boards and to check their designs for potential manufacturability issues concurrent with the design process. With Enterprise 3000, designs are optimized for both fabrication and assembly using a physical design model of the PCB. Revision spins are reduced significantly, and users benefit from faster time to market, lower development costs, and improved product quality.

The secret to the functionality of Enterprise 3000 is Valor-developed ODB++, an intelligent format for data exchange. ODB++ consolidates CAD/EDA intelligence and the PCB manufacturing knowledge base into a single, open, expandable database. Vertical integration throughout the electronics interconnect industry is finally achieved, with ODB++ delivering a simple, yet intelligent and powerful bridge between design and manufacturing.

Valor's PCB Matrix subsidiary has long recognized the need for automating the task of generating libraries for PCB design. The LP Wizard builds IPC 7351B compliant CAD library parts in a few minutes with unbelievable precision. Or create your personal rule file to build customized parts just as easily. Using component dimensions, an optimized land pattern is automatically generated by the LP Wizard and graphically displays the physical component superimposed on the lead-free land pattern with built in DRC checking. Creating complex parts with the numerous features required for CAD libraries no longer requires up to three hours of work. The software reduces the time required to build CAD libraries by up to 91 percent. Valor's recently released Symbol Wizard adds the automation of custom schematic symbol models using advanced component Web search and links to deep, rich content, or extract data directly from PDF file datasheets. Symbol Wizard is integrated with LP Wizard for cross-probing and verification error checking. Together, these tools significantly reduce the engineering product development cycle time, with reduced resources.

"Valor is pleased to be presenting our technology at the PCB Design Conference West 2009. In addition to our best in class design for manufacturing (DFM) software Enterprise 3000, we will be showcasing our PCB Matrix applications which add value to both the electrical engineer and PCB designer's desktop," said Dan Weitzman, President of the Americas.

 [Click here to return to Contents](#)

ZWSOFT Announces Success of First Global Partner Conference

28 August 2009

ZWCAD Software Co., Ltd. ("[ZWSOFT](#)") announced the successful conclusion of its inaugural Global Partner Conference held on August 5-28, 2009, in Guangzhou, China. The event was attended by roughly 100 people from 31 countries and regions, making it ZWSOFT's largest and most successful

CIMdata PLM Industry Summary

forum to date for international ZWCAD partners presented and discussed the most important sales, marketing and technical issues of ZWCAD.

The event comprised two tracks: Official Meeting and Free Talk Sessions. Each track aimed to keep ZWCAD partners informed about the latest trends in sales, marketing and technical management solutions. Senior ZWSOFT executives and experienced ZWCAD distributors provided insight into the future and development of ZWCAD.

The biggest highlight of the conference was the Awards Ceremony for ZWCAD's Excellent Distributors of 2008-2009 on August 25. The ZWCAD Excellent Distributor Awards Program was started in 2008 to reward ZWCAD partners who have provided exemplary service and solutions to their customers during the past year.

One of the Top 10 ZWCAD Excellent Distributors honored during the conference, Jose Augusto Da Silva, director of authorized ZWCAD distributors in Brazil, remarked that the event was a platform for him to communicate with and learn from other distributors.

The conference also focused on in-depth information about ZWSOFT's R&D (research and development) roadmap, the latest product updates, and new ways of promoting the forthcoming ZWCAD 2010. During the session for the ZWCAD 2010 Promotion Plan, ZWSOFT expressed its willingness to cooperate with its international partners in marketing activities.

Another key element of the conference is customer feedback. As is known to all, customer feedback plays an important role in improving technology and customer service. Therefore, in order to provide better service and support for users, ZWSOFT is implementing a wish list project by using ZWCAD wishes and questions collected from its partners before and during the conference. During the four-day conference, all the decision-making ZWCAD partners, together with ZWSOFT executives, spoke candidly about the issue of how to provide better service & support for ZWCAD users.

 [Click here to return to Contents](#)

Financial News

Delcam Maintains Development Investment Despite Downturn

28 August 2009

CADCAM developer Delcam has maintained its leading levels of research and development expenditure during the first half of 2009 despite feeling the effects of the global economic downturn. The company invested over £4.7 million in R&D during the period, a small increase from the £4.5 million invested in the first half of 2008. This strategy is in marked contrast with some other suppliers in the CAM market, which have cut their investment in development as their sales have fallen.

Delcam also continued to invest in other areas of its business, including the opening of a new Asian office based in Singapore for its Professional Services Group and the addition of a large five-axis machine tool in its Tooling Services Division.

Sales during the opening six months of £16.1 million were less than 5% down from the £16.9 million achieved in the equivalent period last year. This reflected the very challenging market conditions, which saw the company's manufacturing customer base deferring its expenditure on software.

Within this total, recurring maintenance revenues, derived from software maintenance and support

CIMdata PLM Industry Summary

contracts, increased by 13% to £5.8 million compared with £5.1 million in the first half of 2008. This increase shows the value that Delcam customers put in the regular upgrades to the company's software and the high quality of the technical support provided.

Despite the fall in sales and its continued high levels of R&D expenditure, Delcam remained profitable. Pre-tax tax profit for the first six months of 2009 was £0.3 million, against £1.4 million in the first half of 2008. Net cash at the end of the period was a very healthy £5.8 million. This financial strength will leave Delcam well placed to take full advantage of any improvement in market conditions.

Commenting on the results, Delcam Chairman Peter Miles, said, "Reflecting the global financial and economic crisis, the trading environment in 2009 has been challenging and the impact of the downturn in the manufacturing sector has been even harder than we initially anticipated at the end of last year. With many companies postponing their investments in capital equipment, it is to be expected that the associated software sales should also be delayed."

"However, as we stated in our 2008 annual report, given Delcam's strong financial position and high level of recurring income, we believe that the business is well placed to see out the near-term challenges. In particular, we are continuing to invest significantly in product development and marketing. This provides us with an increasing commercial advantage and will help to support our ambitions to build our market share during the downturn."

A copy of the full statement follows:

Delcam Chairman Peter Miles Statement

Reflecting the global financial and economic crisis, the trading environment in 2009 has been challenging and the impact of the downturn in the manufacturing sector has been even harder than we initially anticipated at the end of last year. However, as we stated in our 2008 annual report, given Delcam's strong financial position and high level of recurring income, we believe that the business is well placed to see out the near-term challenges. In particular, we are continuing to invest significantly in product development and marketing. This provides us with an increasing commercial advantage and will help to support our ambitions to build our market share during the downturn.

Against a very difficult trading backdrop, results for the first half of the financial year, traditionally our weaker trading period, are in the circumstances pleasing. Our strong global distribution channels and our diversification into a broader range of industries, in particular into the medical, dental and footwear sectors, continue to help to underpin our performance.

Financial Results

Sales for the six months to 30 June 2009 were £16.1 million compared to £16.9 million in the first half of last year. Income from maintenance revenues, derived from software maintenance and support contracts, increased to £5.8 million over the period from £5.1 million in the first half of last year. This recurring, highly predictable revenue stream accounted for 36% of revenue.

In line with our strategy, the Company continues its investment in product development at the high levels we believe to be necessary for our long-term success. This resulted in £4.7 million (2008: £4.5 million) being invested over the period.

Profit before tax for the period amounted to £0.31 million compared with £1.42 million during the first six months of 2008 and basic earnings per share were 3.2p against 14.9p last year.

The balance sheet remains strong with net cash of £5.8 million (31 December 2008: £6.4 million).

CIMdata PLM Industry Summary

Dividend

We are pleased to declare a maintained interim dividend payment of 1.35p per ordinary share (2008: 1.35p). This will be paid on 28 September 2009 to shareholders on the Register as at 11 September 2009. The ex-dividend date is 9 September 2009.

Review

The reduction in global manufacturing has affected new sales across the full range of Delcam's products. Many of our software sales are made to companies that are expanding their manufacturing capacity. With many companies postponing their investments in capital equipment, it is to be expected that the associated software sales should also be delayed. While this represents the general global picture, revenues from India and China have continued their growth, albeit at a lower rate than in recent years. Revenues from our international business have been insulated to a certain extent by the depreciation of Sterling against the US Dollar and the Euro. However, Sterling's weakness also resulted in higher administrative expenses in our overseas subsidiaries. The overall net benefit of its depreciation was therefore reduced somewhat.

Income from software maintenance and support services from our existing customers continues to grow strongly. This reflects the high value that our users place on the regular enhancements to our software products and on the high level of service support they receive from our organisation.

Sales of our newer software products for the medical, dental and footwear industries continue to show encouraging growth. We believe that these markets represent very good growth areas for us and have increased the proportion of our development and marketing resources devoted to them. Our experience and expertise in developing software for the design, machining and inspection of complex shapes can be transferred to the benefit of these new customers and used by them to reduce their production costs, shorten their lead times and improve the quality and consistency of their manufacturing processes.

We have continued to increase the investment in our Professional Services Group and our Tooling Services Division which work together to provide process development and pre-production manufacturing services. In February, we opened an Asian Division of the Professional Services Group based in Singapore and have added a new large five-axis machine tool in the Tooling Services Division.

We are pleased that the latest industry survey, published by independent global consulting analysts, CIMdata, shows that we have moved up to third place in the overall rankings of developers of NC software and services and have strengthened our position as the world's leading specialist supplier of CAM software.

New Managing Director

At Delcam's Annual General Meeting in May 2009, we were delighted to announce that Clive Martell, the Company's Operations Director, would be taking up the role of Managing Director on 1 August 2009. Clive was previously responsible for the day-to-day management of the Company's operations worldwide. His appointment as Managing Director followed Hugh Humphrey's decision to retire from that position after 20 years' stewardship. We are pleased that Hugh is remaining on the Board as an Executive Director and Deputy Chairman. These role changes have now taken effect.

Outlook

The current global economic uncertainty makes it harder than usual to predict how well the Company will perform in the second half and especially in the last quarter, which historically is our most

important trading period in the year. However, we anticipate an improvement in profitability in the second half of the year. Our strong balance sheet, broad portfolio of existing products and new products scheduled for release during the remainder of the year mean that we are well positioned to respond to any increase in manufacturing activity. In addition, we believe that the spread of our activities across a diverse range of industries and geographic territories will help us to perform better than many of our competitors.

Looking further ahead, we continue to view long-term prospects for the Company positively.

Peter Miles

Chairman

28 August 2009

 [Click here to return to Contents](#)

Implementation Investments

ANSYS Harnessing the Power of Ocean Waves

2 September 2009

ANSYS, Inc. announced that software from ANSYS is helping transform the relentless forces of waves into electricity. [Green Ocean Energy Ltd.](#), a U.K.-based renewable energy company, is using technology from ANSYS to develop devices that will reliably generate renewable power from the motion of the seas. The project's complex development process includes rigorous technical requirements, severe environmental conditions and strict product delivery deadlines. Green Ocean Energy identified the advanced engineering simulation tools from ANSYS as a critical element in getting the product to market in a cost-effective and timely manner.

With rising fuel costs and environmental concerns, governments and organizations around the world are focusing on clean, safe, sustainable, and alternative energy sources for power generation. Green Ocean Energy is developing two innovative devices that will harness the waters of the north Atlantic: the Ocean Treader and Wave Treader. They are designed to bob on the surface of the ocean while waves cause attached floating arms to move up and down to power on-board generators. Electricity is sent back to shore via underwater cables. Each machine is designed to produce 500 KW of electricity — enough to power 125 homes — so a farm of 30 such devices would have a rating of 15 MW.

Hydrodynamic and structural analysis tools from ANSYS are being applied to address one of the primary challenges: reaching a balance between structural strength and weight restrictions. With an expected 25-year design life, the machines must withstand rough waters and gale-force winds; conversely, structural members must be lightweight to keep production costs within budget and to allow for sufficient floatation.

“Because prototypes cost over \$3 million dollars each and take months to construct, numerous rounds of hardware test-and-redesign cycles are impractical,” said George Smith, managing director of Green Ocean Energy Ltd. “The virtual prototyping capabilities of the ANSYS tools have been a critical element in getting the products to produce maximum energy output as well as to operate effectively for decades. As a result, engineering simulation is helping our company meet all technical requirements, deadlines and business objectives.”

CIMdata PLM Industry Summary

Though the idea of wave-powered energy has captured the imagination for centuries, this renewable energy source has not been economically feasible till recently. “Significant engineering hurdles must be overcome to develop efficient, reliable and economical wave-powered electrical generation systems that could be deployed on a mass-production basis. Green Ocean Energy is a company successful at leveraging solutions from ANSYS to reach their business objectives, and improve the environment at the same time,” said Dipankar Choudhury, vice president of corporate product strategy and planning at ANSYS, Inc. “Because our technology provides detailed insight into the behavior of designs, it is ideal for developing a wide range of products that can benefit the environment — inventing low-mileage and clean energy automobiles, tracking pollutant plumes, increasing efficiency of wastewater treatment plants, optimizing energy production from fossil fuels, and engineering safer and more sustainable buildings. [ANSYS](#) offers proven solutions to help organizations be at the forefront of clean and green.”

 [Click here to return to Contents](#)

AVEVA Instrumentation Selected by AMEC

2 September 2009

AVEVA announced the latest release of its new [AVEVA Instrumentation](#) product with the news that [AMEC](#), a leading international engineering and project management company, has confirmed its adoption of AVEVA Instrumentation for Instrumentation and Control design and engineering for its Mining and Metals business in Canada.

AVEVA Instrumentation is the outcome of an important technology acquisition by AVEVA, announced on 30 March 2009. During its evaluation of the technology, AVEVA invited AMEC, a long-standing power user of AVEVA solutions, to provide an independent user's evaluation, comparing AVEVA Instrumentation with competitive products.

AMEC's Mining & Metals business invested in the new product as soon as it was released. AMEC have now deployed AVEVA Instrumentation on a number of projects, in conjunction with the integration of the existing AVEVA portfolio of applications.

The system offers fully customisable reporting options and interfacing, to enable efficient production of project deliverables. It offers efficiency and cost savings for project execution and error-free design for construction.

Commenting on this latest agreement with AMEC, Dave Gibson, AVEVA Instrumentation Project Manager, said: "We are delighted that they have chosen to invest in this new technology and look forward to working with them on this market-leading product."

 [Click here to return to Contents](#)

Catalog Data Solutions Catalog adopted by Gates Corporation Industrial Power Transmission Business Unit

1 September 2009

[Catalog Data Solutions](#) (CDS) announced that Gates Corporation's Industrial Power Transmission business unit has adopted a CDS designed and developed online catalog, including CAD model downloads, called PartView™ (www.gates.com/partview).

Gates manufacturers, supplies and supports V-belt and synchronous belt drive systems. Detailed

CIMdata PLM Industry Summary

information is available at the Industrial Power Transmission section of www.gates.com/pt.

“Belt information sheets and CAD drawings for metal previously found in Design View® software are now available through PartView™ - the new Industrial Power Transmission electronic catalog with 2D/3D CAD files,” said Todd Mueller, Manager, Business Development, at Gates Corporation. “In addition, PartView™ enables customers to quickly find components and technical information on standard products. PartView™ features include:

- Part number search
- Parametric search by drill-down
- Detailed product information, including specifications, PDF catalog page, 2D specification sheets and 3D CAD models”

“We are delighted that Gates Corporation has selected CDS for their Industrial Power Transmission Catalog and CAD downloads,” said John Major, CEO Catalog Data Solutions. “Studies show that over 90% of designers and engineers now use the Internet to locate components for their new designs. Parametric and attribute based catalogs are vital sales and marketing tools for all industrial manufacturers and distributors to ensure their products are easy to find and select online. Once a product is selected, offering 3D CAD model downloads often ‘locks’ products into a design so suppliers later benefit from the sales success of that design.”

 [Click here to return to Contents](#)

Delcam’s ArtCAM Speeds Jewellery Design

4 September 2009

The use of Delcam’s ArtCAM JewelSmith CAD/CAM software has increased the speed of jewellery design and manufacture at Saint Petersburg’s Jewelry Plant “Alfa”. In addition, the software allows designers to present several variants of any new design, together with prototype models, to a customer so they can make a final decision on the piece.

Jewelry Plant “Alfa” was founded in Saint Petersburg towards the end of 1992. Now it is one of the largest jewellery enterprises in Russia, employing more than 200 professional specialists in various aspects of jewellery. However, the company’s products have a much longer history. The factory is part of the Fabergé tradition through its exclusive agreement with Tatiana Fabergé, granddaughter of Carl Fabergé, to use the trade mark “The Imperial Collection by Tatiana Fabergé”. It also has the right to manufacture copies of pieces from the Hermitage collection in coordination with the museum’s arts council.

The ArtCAM software is used together with a 3D scanner and a Roland CNC milling machine. “Using our ArtCAM software enables us to save a lot of time when creating repeated elements of designs,” said one of the Plant’s leading designers, Alexey Marfichev. “In addition, ArtCAM is unbeatable in creating text and geometric shapes that brought a lot of headaches in our previous manual design process. The flexibility of the software allows us to use different source data, such as manual artwork, scanned data, and 2D computer designs, to get final models for products of practically unlimited complexity.”

“ArtCAM JewelSmith software has been successfully used in our company for more than five years so we’ve gained the experience to be able to solve practically any problems in the design and manufacture of new items in very short timescales,” he added. “The new functionality in the later versions has increased our capabilities even more, simultaneously opening new horizons for creativity in our designs. Now, we can’t imagine a design process that didn’t use modern computer technologies.”

 [Click here to return to Contents](#)

Emirate of Sharjah's Directorate of Town Planning and Survey Deploys Bentley's Cadastral Solution to Streamline Workflows

2 September 2009

Bentley Systems, Incorporated announced that the Emirate of Sharjah, Directorate of Town Planning and Survey (DTPS), United Arab Emirates, has successfully deployed Bentley's fully integrated cadastral solution. The solution incorporates an enterprise geospatial information system (GIS) based on Bentley Geospatial Server and a computer-aided design (CAD) data editing system based on Bentley Cadastre. Called the Integrated Land Management Solution (ILMS), the new system replaces one configured using separate GIS and CAD workflows. Because data from each workflow was stored in independent silos, DTPS often faced data inconsistencies between CAD files and the spatial data store, along with data validation and quality control problems. In addition, the legacy system failed to provide an enterprise workflow with standardized approval processes or audit trails, leading to inefficiencies and further quality issues. The new ILMS overcomes these challenges by integrating DTPS's GIS and CAD workflows and creating a single spatial data store. As a result, all of the departments within DTPS now benefit from standardized workflows and approval processes, high-quality data, and enhanced efficiencies -- enabling them to better meet the needs of the citizens and organizations they serve within the emirate.

"Our frustration with the quality of data in our legacy GIS focused our attention on integrating our GIS and CAD workflows," said Mr. Ahmed Al Khatib, head of GIS data management, DTPS. "Bentley's ability to provide an enterprise GIS that works seamlessly with Oracle Spatial met our needs for standardized workflows, audit trails, security, enterprise printing and plotting, and more. Moreover, the unique capabilities of Bentley Cadastre as an editing environment are attractive to any organization involved with land management and parcel management workflows."

Mr. Al Khatib continued, "The DTPS is a forward-looking and progressive government corporation. Our mandate is to consistently provide the citizens, businesses, industries, and institutions within the Emirate of Sharjah with the highest level of services, and we firmly believe the capabilities of our new Bentley cadastre and land management solution will enable us to do just that."

The Bentley Geospatial Server provides the DTPS staff with ready access to the spatial data store. This enables all of the departments within DTPS, including survey, planning, public services, land registration, and GIS, to leverage authorizations, audits, and logs of actions taken to help expedite the services they provide. At the same time, those staff members editing CAD files can access the spatial data stored in Oracle Spatial 10g to insure data consistency and quality across the enterprise. The Bentley Geospatial Server also provides DTPS with enterprise printing and plotting, and controlled, standardized workflows for editing and approvals.

All data editing is being done using Bentley Cadastre's specialized capabilities. Built on the powerful Bentley Map desktop GIS, Bentley Cadastre is an efficient application for creating, maintaining, and analyzing land information. It can address any type of land management requirement, including parcel management and taxation, agricultural land management, easement, and right-of-way maintenance.

DTPS has also implemented Bentley Descartes for imaging and document conversion. Fully integrated with MicroStation, Bentley Descartes provides high-performance raster operations and enables users to quickly warp, reference, resample, mosaic, and reproject images. Users also can create image scenes for

CIMdata PLM Industry Summary

visualization and analysis with 3D terrain draping.

For additional information about Bentley Geospatial Server, visit www.bentley.com/geospatialserver.
For additional information about Bentley Cadastre and Bentley Descartes, visit

<http://www.bentley.com/mapping>.

 [Click here to return to Contents](#)

Global Engineering Consultancy Atkins Achieves Significant Increases in Productivity Leveraging HyperWorks Simulation Platform

1 September 2009

[Altair](#) Engineering, Inc. announced that international engineering and design consultancy Atkins has selected HyperWorks' pre- and post-processing solutions, HyperMesh and HyperView as standard tools for future design projects. The decision follows measured business benefits from the suite including productivity and efficiency gains, the flexible business model and a common platform for supporting Atkins' multi-solver environment.

"The majority of cost incurred when performing finite element (FE) analysis is during the initial model-generation phase, so reducing the amount of time spent at this stage is extremely valuable to us and our clients," said Jon Gittoes, FE team leader at Atkins. "Basically it comes down to minimising the time it takes to get from initial geometry to a working model, and that's what HyperMesh does so well. HyperMesh has excellent geometry idealization, which significantly improves our design efficiency and has a large impact on the overall project timescales."

As a leader in engineering and design consultation to the aerospace market, Atkins is an approved supplier to leading international aerospace OEMs. Atkins' recent project work includes aircraft heavy landing and bird-strike analysis for Airbus, Rolls-Royce gas turbines development and even the 1000mph BLOODHOUND Supersonic Car project. The efficiencies of the HyperWorks suite have played an important part in helping Atkins deliver successful projects to its global client base.

"The continuing trend towards composite materials and non-linear analysis is significantly increasing the complexity of analysis pre- and post-processing. Using a common tool to build models for a variety of analysis codes allows our engineers to work on a wide variety of projects," Mr. Gittoes added. "We are using [HyperWorks](#) to investigate problems as varied as the design of turbomachinery transmission test rigs, assessing aircraft heavy landings and the concept design of the BLOODHOUND SSC. HyperWorks has the features that we need to develop and manage large models, which is particularly important for our non-linear impact work."

"Altair's customer support team have also helped us integrate HyperWorks into our existing design processes and quickly train our engineers," Mr. Gittoes noted. "The Altair support team regularly visits and helps solve any of our technical issues. The most important advantage HyperWorks has given us is the flexibility to meet our clients' needs. Whether that's in terms of their timescales or in using the most appropriate solver code, it's really about being able to deliver the results our clients need, when they need them."

In addition to HyperMesh and HyperView, Atkins has successfully deployed HyperWorks' optimization solution, OptiStruct, in the BLOODHOUND SSC project with excellent results. The technology is now being assessed broadly across Atkins' aerospace projects to minimize material usage and component weight.

CIMdata PLM Industry Summary

"It is gratifying to see [Atkins](#) realizing all the business benefits working with Altair and the HyperWorks simulation suite offers," said Maurice Linscott, regional director, Altair UK operations. "With increasing pressure on consultancies to deliver projects on shorter timescales coupled with the drive for weight reductions and materials savings across the aerospace industry, it is vital that our clients are able to concentrate their efforts on activities that add value to their customers. Model generation is a vital, but functional, step in designing innovative products; HyperWorks is enabling our clients to significantly reduce this stage and to focus on delivering innovation throughout their design process."

 [Click here to return to Contents](#)

High Modulus Achieves Exceptional Productivity Gains by Standardizing on the HyperWorks Virtual Design Suite

3 September 2009

[Altair Engineering, Inc.](#) announced that High Modulus Europe, the UK office of a world-leading supplier of composite technology and structural engineering services, has selected the HyperWorks simulation suite to enhance its composite design process.

This decision is part of High Modulus' strategy to standardize its virtual composite design technology on HyperWorks tools throughout its global offices. The computer aided engineering (CAE) suite and its integrated solver solution, RADIOSS, were selected because of their ease of use and ability to significantly decrease the timescales involved with complex composite structural design tasks.

"As a consultancy, we have to stay responsive and commercially competitive, without compromising the high service quality our clients have come to expect from High Modulus," said James Anderson, senior design engineer and FE team leader, High Modulus. "When I joined the company, we were using an alternate virtual design solution at our head office in New Zealand, and despite having very experienced staff, it was taking us a considerable time from start to finish of an FEA project. We halved this time by switching to HyperWorks, so this solution was the clear choice when assessing the design tool requirements for our European office. The CAE suite has allowed us to be extremely flexible for our clients, since we can perform more design iterations more quickly."

High Modulus has a long history of supplying composite design services and materials to the marine industry and is now expanding into new industries that also wish to benefit from the use of composites. The HyperWorks suite and, in particular, its pre- and post-processors, solvers and optimization technologies are now being leveraged to deliver more efficient composite solutions to High Modulus' automotive, energy, architectural and general industrial clients in significantly reduced timescales.

"Altair HyperWorks enables us to be more flexible, by allowing us to tailor our services to match our clients' requirements at every stage of their project cycle. The clean-up tools are invaluable at the initial concept evaluation stage where we often have to work fast, with incomplete or untidy geometry," continued Mr. Anderson. "[HyperWorks](#)' reliable solvers and the ability to model complex composite lay-ups and tailor material properties to match our own test data are invaluable in detailed design. We have significantly improved our productivity through the efficient use of the very powerful optimization tools for composite structures. They help us determine patch size and ply orientation and even drive the whole manufacturing process."

As a global organization, High Modulus also demands local support for its regional design teams to keep them informed of product updates and to ensure they are well trained and being as productive as possible.

CIMdata PLM Industry Summary

"Working with the local representatives of Altair gives us the responsiveness and service quality of a small local company and the reliability and product quality one expects from a large multinational," Mr. Anderson emphasised.

"It is satisfying to see more and more composite specialists adopting the HyperWorks enterprise suite as their virtual design tool of choice," said Maurice Linscott, regional director, Altair UK operations. "Composite materials represent new opportunities for engineers, but they also bring with them new complexities and challenges within the design process. Designing lightweight products with optimum material usage is vital across many industry sectors, and HyperWorks is empowering manufacturers and consultants to deliver truly innovative solutions in reduced timescales and at reduced overall cost."

About High Modulus

[High Modulus](#) is a leading supplier of composite technology, materials and structural engineering solutions. With a pedigree stretching 30 years and over 3000 projects, the company has offices in New Zealand, Australia, China and Europe. As well as providing composite engineering services to a full range of marine and industrial applications, High Modulus supplies the B3 SmartPac solution to customers around the world, and composite materials to customers in New Zealand and Australia.

 [Click here to return to Contents](#)

Indian Institute of Science Selects COMSOL Multiphysics for Training in MEMS

3 September 2009

COMSOL Multiphysics Pvt. Ltd. announced last week that the Indian Institute of Science, under a national program on MEMS, in collaboration with the Institute of Smart Structures and Systems has selected the COMSOL Multiphysics engineering software to promote learning and education among Indian universities.

The Indian Institute of Science will distribute the class kit licenses to about 65 colleges across the country over the coming months. COMSOL will also be providing training for students and faculty on the effective use of this software.

"Engineering education in India needs to emphasize hands-on learning if we want to produce world class engineers. Adoption of COMSOL in education will be a step in that direction," said Prof. K.J. Vinoy, from the Electrical Communication Engineering Department in the Indian Institute of Science.

"Adoption of computer aided education by a premier institution such as IISc is heartening for us," said Dr. Vineet Dravid, Manager Director, COMSOL Multiphysics Pvt. Ltd.

COMSOL started its India operations in December 2008. The India office markets and sells the multiphysics simulation software from COMSOL and provides technical support services to its customers.

Full details about COMSOL Multiphysics and related products are available at <http://www.comsol.com>

 [Click here to return to Contents](#)

Japan's Kyushu University Selects Intergraph® SmartMarine® 3D Design and Engineering Software for Education Program

3 September 2009

CIMdata PLM Industry Summary

Kyushu University, one of Japan's top maritime and naval architecture academic centers, has selected Intergraph® SmartMarine® 3D design and engineering software for use in its Department of Marine Systems Engineering to teach students shipbuilding design and operation training. The curriculum will also integrate [Lloyd's Register](#) rules calculation software solutions to provide the analysis and evaluation of ship structure strength against classification rules.

Kyushu University will change its existing manual drafting education program to a new program consisting of SmartMarine 3D design and engineering software. Students will be able to create ship structure models and export these data to Lloyd's Register's RulesCalc software for structural assessment during the initial design process. Together these solutions help improve efficiency, integrating ship design and assessment with classification knowledge and experience. They also will offer better opportunities for students to use their skills upon graduation, many of whom will join major Japanese shipyards. Kyushu University is the first higher education institution in Japan to use SmartMarine 3D in its curriculum.

SmartMarine 3D is a key component of Intergraph's multidiscipline SmartMarine Enterprise portfolio which provides all the capabilities needed to design and build offshore devices or ships from design to fabrication to operations and maintenance – all in a single, integrated environment. It is a data-centric, rule-driven solution for streamlining design processes while preserving existing data and making it more useable/re-useable over the operation, maintenance and modification life cycle of the device.

“[Kyushu University](#) prides itself on its ability to prepare students for industry and innovation, providing them the best educational tools and personnel available,” said Dr. Akiji Shinkai, professor of Engineering at Kyushu University. “Intergraph's SmartMarine 3D, the next-generation of shipbuilding design, integrated with Lloyd's Register's RulesCalc software will certainly continue this tradition of excellence for our naval architecture and marine systems engineering students.”

Gerhard Sallinger, Intergraph Process, Power and Marine president, said, “We are honored to have an institution of Kyushu University's caliber select SmartMarine 3D. SmartMarine 3D was created by shipbuilders, and is the first new design technology introduced to this market in 20 years. Kyushu's choice of Intergraph is another validation of our industry-leading shipbuilding design solutions position and an important step in the continued expansion of Intergraph's marine presence in Japan.”

 [Click here to return to Contents](#)

Mentor Graphics Catapult C Synthesis Selected by Fujitsu Microelectronics Solutions Limited for Design and Consulting Services

2 September 2009

Mentor Graphics Corp. announced that Fujitsu Microelectronics Solutions Limited has chosen the Catapult® C Synthesis tool for use in its design and prototyping services organization.

To tackle the challenges of increasing size and complexity of advanced IC designs, it is becoming ever more important to improve design efficiency with high-level synthesis. At the same time, there is a learning curve associated with deploying a new methodology such as high-level synthesis. Based on a depth of knowledge and experience in the high-level synthesis field, Fujitsu Microelectronics Solutions Limited will provide a range of consulting services to address customers' unique needs and facilitate the process of introducing high-level synthesis to improve design efficiency. Fujitsu Microelectronics Solutions Limited's consulting services include high-level synthesis methodology, implementation, prototyping and hands-on training.

CIMdata PLM Industry Summary

“By providing highly-flexible services to match each customer's requirement, we can help them apply high-level synthesis tools and achieve a dramatic reduction in design cycle time,” said Mr. Takao Sukemura, General Manager, Development DIV. I of Fujitsu Microelectronics Solutions Limited. “In addition to the front-end design that starts with high-level synthesis, we also have a rich experience in back-end processes, so we can cover the entire workflow of ASIC/SoC development.”

“We are impressed with Fujitsu Microelectronics Solutions Limited’s deep knowledge and experience in IC design and ESL methodologies, especially in regard to C Synthesis, and we believe their services will be beneficial for a wide range of mutual customers,” said Simon Bloch, Vice President and General Manager of Mentor Graphics Design and Synthesis Division. “As companies deploy high-level synthesis, we are seeing a significant amount of Catapult C adoption given its ability to synthesize both algorithmic and control blocks, balance excellent results across power/area/performance and provide clear benefits around an integrated verification methodology. Fujitsu Microelectronics Solutions Limited's decision to use Catapult C Synthesis as their high-level synthesis tool of choice further reinforces our technical leadership.”

About Catapult

The Catapult C Synthesis tool is the first product to automatically generate control and algorithmic RTL multi-block designs from a pure ANSI C++ source where both the core algorithm and interface are untimed. This productivity improvement gives designers time and freedom to automatically perform detailed design exploration of different micro-architectural options and interface scenarios to quickly achieve fully optimized hardware designs. For more information, including whitepapers, datasheets and product demos on the Catapult C Synthesis tool, please visit <http://www.mentor.com/esl>.



[Click here to return to Contents](#)

Mentor Graphics Veloce Emulation System Adopted by MIPS to Accelerate Verification for Processor IP

1 September 2009

[Mentor Graphics Corp.](#) announced that MIPS Technologies, a leading microprocessor semiconductor IP company, has adopted the Veloce® platform for the complete system-level verification of its licensable microprocessor cores that are used in a variety of embedded applications. MIPS® cores are used prominently by other Veloce platform users such as NXP Semiconductors, a leading supplier of digital TV SoCs. MIPS Technologies chose the Veloce platform due to its superior debug capabilities, performance, accuracy, and extensive portfolio of iSolve™ vertical market solutions.

“As a technology leader in embedded processor IP, MIPS has successfully leveraged Veloce on several of our recent IP development projects—including the multi-threaded, multi-core 1004K Coherent Processing System—to verify new cores before releasing them to customers,” said Larry Hudepohl, vice president of engineering for MIPS Technologies. “We use Veloce extensively in an in-circuit emulation mode and for simulation acceleration. The Mentor emulation team helped us tremendously in making an easy transition to the Veloce platform from our previous systems.”

The Veloce platform is the industry’s fastest dual-mode Accelerator/Emulator available, providing MHz performance for both transaction-based verification and traditional in-circuit emulation (ICE). With an extensive portfolio of vertical market solutions, the Veloce platform is the platform of choice for multimedia, networking, wireless, and embedded systems applications.

CIMdata PLM Industry Summary

“We have worked closely with MIPS Technologies for many years to provide the best possible emulation solution that meets their needs and addresses the challenges the company faces in verifying processor designs,” said Eric Selosse, vice president and general manager, Mentor Emulation Division. “To support the large and growing base of MIPS licensees, we will soon announce new products supporting MIPS processor cores.”

“NXP continues to drive system-level integration to provide advanced solutions to our customers,” said Iqbal Sharif, general manager, SoC Design Centre of the home business unit, NXP Semiconductors. “Pre- and post-silicon testing of our SoCs requires a massive number of verification cycles to validate functionality and avoid design flaws. The use of Veloce for hardware-assisted verification has played an important role for NXP to achieve the high-speed verification and testing required. This ultimately enables us to beat our tight schedules in a highly-competitive market. NXP is the first to introduce a global single chip digital TV platform on 45nm—TV550—which enables high-end TV features in mainstream TVs.”

 [Click here to return to Contents](#)

MIT and Stylus Automotive have chosen ThinkDesign to design the eco friendly car, VDS Vision 100, designed for India

1 September 2009

Massachusetts Institute of Technology (MIT), a private research university located at Cambridge, Massachusetts, US and Stylus Automotive Pvt. Ltd, a design services company founded by India’s first woman automotive designer, have chosen think3’s ThinkDesign as the best CAD package for the VDS (Vehicle Design Summit) project to design the eco friendly car, VDS Vision 100, which is set to thrive the streets of India.

The aim of the Vehicle Design Summit (<http://www.vehicledesignsummit.org>) is to serve as a launch-pad for a global consortium drawing from academia, industry and the public/private sector to solve some of the most pressing challenges of our time. The VDS team at MIT - coordinated by VDS project founder Director, Ms. Anna Jaffe - got in touch with Stylus Automotive to start a collaboration for the design of a hybrid vehicle, an eco friendly car for the Indian market: VDS Vision 100.

Stylus Automotive had been approached by MIT VDS team to work on the styling and conceptual design of the vehicle. For the MIT VDS project, Stylus Automotive had chosen ThinkDesign as the only tool to complete the given task with great results and at a faster speed. Stylus Automotive and MIT appreciated think3’s ThinkDesign as the CAD software can cover the entire product definition cycle and achieve the desired results in less time, at low cost, allowing rapid modification and iterations.

The result of this project, the VDS Vision 100 is designed to thrive in the busy streets of India. Its entry is both a car and much more importantly, a strategy to deal with congestion and enable development in a way that will lead to more vibrant, safe and enjoyable urban centers.

“I’m very glad about this collaboration between MIT, think3 and Stylus Automotive” states Ms. Anna Jaffe. “think3 will allow VDS to rapidly and dynamically evolve the design of the VDS Vision to develop the best possible vehicle without going beyond deadlines”.

Ms. Sanghamitra Datta, Stylus Automotive Pvt. Ltd. Founder, says: “We at Stylus Automotive were looking to create a unique yet economical design development process, which complimented our brand of global design services for our clients. We narrowed down to ThinkDesign after trying out other

CIMdata PLM Industry Summary

softwares, as it is an 'art to part' software, and is applicable in 3 stages, from Styling concept 3D models and quick variations to engineering, support to creation of tooling design, also significantly reduces their development time and cuts out a lot of back and forth and recreation of data time, while leaving enough flexibility for creative design and engineering solutions”.

She further adds “The best part of this experience was the flexibility and enthusiasm of the think3 team, in creating an opportunity for the Stylus Automotive team to use ThinkDesign. We hope to have a long lasting relationship with think3, which will be studied by awesome transportation design products, styled, engineered & tooled in this most creative of softwares”.

“The choice of ThinkDesign made by MIT VDS and Stylus Automotive for the project of an eco friendly car for Indian roads is a big honor and a strategic win for think3” states Silvano Joly, Vice President worldwide Marketing at [think3](#). “With respect to the market offering, our main differentiators ‘Total Process Coverage, Multi-Data Representations, Multiple Approach Modeling’ supported by TD PLM (the Task Driven PLM extended platform) have really made the difference and will determine a competitive advantage for MIT and Stylus in this challenging initiative.“

MIT’s VDS project has entered the Progressive Automotive XPRIZE contest. For further information about the VDS Vision 100 project and the ProgressiveAutomotiveXPRIZE visit <http://www.progressiveautoxprize.org/teams/mit-vds-vision-xp>.

About Stylus Automotive

Stylus Automotive Pvt. Ltd. is a design services provider to the transportation industry, globally. Founded by Ms. Sanghamitra Datta, the first woman Automotive designer/stylist from India, in 2006 with a singular vision of creating a uniquely Indian automotive design services and high-end customer build luxury vehicle brand. Stylus Automotive has done tremendous amount of work for the Aerospace, Automotive, Automotive Lighting and Marine segment. Its client list includes some of industry’s reputed and most admired companies in the transportation sector such as Lumax Industries, NAL, ABRA-Marine Dubai and MIT VDS USA. Stylus Automotive is engaged currently in about 10 projects for ABRA-Marine Dubai, including interiors of Super Catamarans, Luxury hotel transportation solutions, and complete catamaran designs. Sanghamitra’s experience in the field of design is multi-disciplinary and spans about 14 years. The Stylus team operates from Bangalore, India and has done good amount of work globally in the Transportation industry.

About Progressive Automotive Xprize

On March 20th, 2008 at the New York International Auto Show, the X PRIZE Foundation and Progressive Insurance jointly announced the \$10 million dollar Progressive Insurance Automotive X PRIZE. Through an exciting partnership with Progressive Insurance, the Progressive Insurance Automotive X PRIZE has teams from around the world to focus on a single goal: design viable, clean and super-efficient cars that people want to buy. The diverse group of teams -- 111 in all -- collectively represents 136 vehicle entries and 14 different fuel sources, from 25 U.S. states and 11 countries. Established automakers, emerging start-ups, universities and inventors are among those represented. This will be a competition for the ages, with major publicity and \$10 million waiting for the champions.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

ROWA Tunneling Logistics AG Standardizes On PTC® CoCreate® For Complex International Projects

31 August 2009

[PTC](#) announced that Swiss-based ROWA Tunneling Logistics AG has chosen PTC CoCreate for the design and development of its complex international projects. CoCreate is PTC's explicit 3D CAD modeling and data management software that provides companies with a lightweight and flexible approach to designing products.

ROWA works with external partners worldwide to develop tunneling machinery, plants and systems from concept to installation. Whether for underwater tunnels in New Zealand or Spain; the Niagra Tunnel; the Alps Transit; or 80 meter mining tunnels in China, ROWA's installations and special solutions for tunnel drilling machinery are in demand worldwide.

ROWA relies upon the CoCreate explicit modeling software from PTC to develop these projects. The explicit modeling approach provides the highest level of design flexibility to meet changing customer requirements for individualized projects with tight timelines. Users can create 3D models and radically modify them throughout the entire design process.

PTC CoCreate Model Manager™ is also of enormous value for ROWA. The team works on the same model instead of partial models that are later fitted together manually. All designers, including external resources, are automatically informed when changes to a component are made. This eliminates interfacing errors down the line. With CoCreate Model Manager, ROWA can develop systems with over 150,000 parts.

"Every one of our projects is unique, so it's important that any designer can take over a model, modify it and continue development without knowledge of its origin," said Werner Schiesser, CAD manager at ROWA. "Customer requested changes to a component affect the work of other designers, who have to update their parts accordingly, so it is imperative that we use explicit modeling to work directly on the geometry. We attribute our competitive edge to PTC CoCreate."

"PTC CoCreate Modeling® is ideal for companies that develop customized products and have to respond quickly and flexibly to last minute customer requests," said Martin Neumüller, CoCreate product management director, PTC. "We are pleased that PTC CoCreate is a strategic part of the ROWA enterprise strategy."

About ROWA Tunneling Logistics AG

Founded in 1972, ROWA Tunneling Logistics AG, headquartered in Wangen, Switzerland, was founded in 1972. During the 80's, the company developed from an engineering firm for construction and process engineering to ROWA Engineering AG, one of the world's most active and successful specialists for plants in underground construction and logistics systems. Today ROWA develops machinery and plants and complete systems for underground construction and supports projects from concept to installation and operation. A core function is the high performance follow-up drilling process for conventional and mechanical tunnelling.

 [Click here to return to Contents](#)

Shin Kurushima Dockyard Starts Implementation of Intergraph® SmartMarine® 3D

2 September 2009

CIMdata PLM Industry Summary

Shin Kurushima Dockyard (SKDY) has standardized on [Intergraph® SmartMarine®](#) 3D design and engineering software after an intensive two-year benchmark study.

Based on the productivity experienced in the benchmark study, Japan-based SKDY expects further improvements in productivity and production planning using the automated structure detailing within SmartMarine 3D, the first new 3D technology for the marine market offered in 20 years. SKDY also expects improvements in labor costs by using a global workshare connection to offices in Indonesia.

The SmartMarine 3D implementation will encompass the entire SKDY enterprise, including its yards in Onishi, Hashihama, Ujina, and Toyohashi, Japan, and offices in Indonesia, with specific focus on worksharing capabilities across Southeast Asia. Ship modeling will be managed in a central location, and SmartMarine 3D worksharing capabilities will permit design reviews and changes to be seamlessly shared from various locations throughout the entire ship design process, from initial design through the manufacturing phase. The ability to workshare will save valuable time and labor costs while increasing productivity for SKDY.

SmartMarine 3D is the modeling and visualization component of Intergraph's multidiscipline SmartMarine Enterprise portfolio which provides all the capabilities needed to design and build offshore structures or ships from design to fabrication to operations and maintenance – all in a single, integrated environment. It is a data-centric, rule-driven solution for streamlining design processes while preserving existing data and making it more useable/re-useable over the operation, maintenance and modification life cycle of the device.

“We are pleased with the results of our benchmark that led to our selection of SmartMarine 3D and the best next-generation solutions available for ship design and production,” said Isshin Fujii, general manager, Ship Design Department of SKDY. “We chose to standardize on SmartMarine 3D because it offers proven efficiency and design automation to enable us to reduce the costs and time of building ships.”

Gerhard Sallinger, Intergraph Process, Power and Marine president, said, “As one of the most productive yards in the world, we are excited to have SKDY join our growing roster of marine and offshore customers. The productivity results that SmartMarine 3D have delivered in this very competitive process are an indication as to why SmartMarine 3D has become the premier ship design and engineering software in the industry.”

About SKDY

Shin Kurushima Dockyard Group is a group of companies specializing in shipbuilding. The group consists of Shin Kurushima Dockyard, Toyohashi Shipbuilding Co., Ltd, Shin Kochi Juko Co., Ltd, and Kanax Corporation. Since each of these companies specializes in building its own specific types of ships, the group emphasizes their ability to meet the diversified needs of its customers.

 [Click here to return to Contents](#)

Ubixum Achieves Product-Ready Design at First Silicon with Synopsys Galaxy Custom Designer Solution

1 September 2009

[Synopsys, Inc.](#) announced that Ubixum has used Synopsys' Galaxy Custom Designer™ implementation solution to successfully design its latest advanced image sensor chip. The chip has been verified to be product-ready with first silicon. Custom Designer is a modern-era custom implementation solution that

CIMdata PLM Industry Summary

delivers superior ease-of-use and leverages Synopsys' Galaxy™ Implementation Platform to provide a unified solution for custom and digital designs. The Custom Designer tool set enabled Ubixum to achieve higher productivity and better integration with their optimized design process.

"Synopsys' comprehensive custom implementation and simulation solutions, methodologies and support played a critical role in helping us to achieve first-silicon success," said Keith Fife, cofounder of Ubixum. "The use of Custom Designer running natively on the OpenAccess database allowed us to easily integrate our own tools and to access the design through our own API. Custom Designer can handle very large designs with many complex polygon shapes found in our custom devices. Its ability to properly handle and display large arrays has been important to our productivity. We have already started to use Custom Designer for our next product."

Ubixum turned to Custom Designer for its modern architecture and completeness that delivers productivity with a familiar user interface while integrating a common use model for simulation, analysis, parasitic extraction and physical verification. Custom Designer is built natively on the OpenAccess database for legacy designs and offers unprecedented openness and interoperability with process design kits (PDKs) from leading foundries. Key modules include a schematic editor featuring on-canvas editing and dynamic net highlighting. The simulation environment provides a common use model allowing access to Synopsys simulators, including the HSPICE®, CustomSim™ and Custom WaveView simulators. In addition, the results from Hercules™ DRC/LVS and Star-RCXT™ parasitic extraction are dynamically available within Custom Designer.

"Galaxy Custom Designer continues to meet the demands of our customers as design challenges continue to increase. Ubixum's successful design underscores Synopsys' commitment to deliver solutions that address our customers' design challenges and meet their productivity needs," said Bijan Kiani, vice president of Product Marketing for Design and Manufacturing Tools at Synopsys. "We congratulate Ubixum on their first-pass silicon success, and we plan to continue working closely with them for the mutual benefit of both companies by extending the advanced design capabilities of Galaxy Custom Designer."

About Ubixum

Ubixum is a fabless semiconductor company specializing in sensors and systems. The company was founded in 2007 to design and manufacture high-performance sensors for consumer and industrial applications. Ubixum is headquartered in Palo Alto, California with engineering offices in Utah and Massachusetts.

 [Click here to return to Contents](#)

Product News

ANSYS Launches Immersed Boundary Module for Rapid Design Evaluation

31 August 2009

ANSYS, Inc. announced the availability of the Immersed Boundary module for ANSYS® FLUENT® 12.0 software. Jointly developed by ANSYS and long-time partner Cascade Technologies Inc., the module reduces the amount of time needed for fluid flow simulations and provides fast results by directly addressing challenges associated with meshing. This first release, which is fully parallelized, supports the physical models and boundary conditions needed for modeling low-speed external

CIMdata PLM Industry Summary

aerodynamics and automotive front-end airflows. The Immersed Boundary tool offers the ability to save customers time and money by reducing the human effort needed to go from computer-aided design (CAD) to an analysis solution.

A conventional fluid dynamics simulation starts with the transfer of CAD data to a grid-generation package, in which a surface mesh and then a volume mesh are generated before the simulation can be set up and the solution run. The effort and time required for such pre-processing tasks can be significant. For example, in cases with complex or dirty geometry that require CAD cleanup, this part of the process may take 50 percent to 90 percent of the total time required for the simulation. The Immersed Boundary module addresses such issues by providing a rapid, automated, preliminary design approach. “This is an ideal tool for reducing lead time during the early stages of the product development cycle, when it is crucial that design evaluations are made rapidly. The Immersed Boundary module helps engineers identify the most promising designs, then use traditional methods for the final high-fidelity analysis,” said Dipankar Choudhury, vice president of corporate product strategy and planning at ANSYS, Inc. “Because of our software’s open and flexible architecture, ANSYS can readily partner with others in the engineering simulation ecosystem to deliver immediate customer benefits — in this case, we partnered with Cascade Technologies, which has many years of fluid dynamics experience, to bring about a more efficient design process.” The immersed boundary method is fully compatible with high-performance computing offerings from [ANSYS](#), which can further reduce analysis time.

Fluid flow simulations using the Immersed Boundary module for ANSYS FLUENT 12.0 software start with the surface data of the simulation geometry in the STL file format, which is commonly used in rapid prototyping and computer-aided manufacturing. This CAD geometry does not need to be clean, does not require smooth surfaces or geometry connectivity, and may contain overlapping surfaces, small holes and even missing parts. The simulation geometry is meshed automatically. Mesh refinement also is carried out automatically after specifying the desired resolution on the boundaries, ensuring the accuracy required for preliminary design evaluation. Using the Immersed Boundary meshing technique greatly reduces the amount of time spent preparing the geometry for meshing and creating the mesh.

About Cascade Technologies Inc.

Cascade Technologies Inc., located in Mountain View, California, U.S.A., develops, markets, and supports state-of-the-art computational fluid dynamics analysis tools for engineers across industries. A long-time ANSYS partner, the company developed innovative add-ons for ANSYS FLUENT software, including the V2F turbulence model and the immersed boundary modeling method. The company accelerates technology transfer to clients through the development of advanced computational modules specially designed for commercial CFD packages. Hence, cutting-edge developments in computational engineering are provided to the end-users in their preferred environment.

 [Click here to return to Contents](#)

ArchiCAD 13 Revolutionizes BIM Collaboration

1 September 2009

[GRAPHISOFT](#) announced ArchiCAD 13, the latest version of its architectural design software. ArchiCAD 13 includes a state-of-the-art BIM Server™ (patent pending), introducing a new paradigm in design file sharing. The software allows anywhere anytime access to BIM files and relieves workflow management bottlenecks.

"With the rapidly growing adoption of building information modeling, architectural firms have reached

CIMdata PLM Industry Summary

scalability limits with their model-based design and documentation workflow," said Miklos Szovenyi-Lux, Vice President of Product Management at GRAPHISOFT. "To overcome these limits, ArchiCAD 13 with Delta Server Technology™ introduces design teams to an unprecedented level of accessibility and management of BIM projects. With ArchiCAD 13, the physical location and distribution of your workforce becomes almost immaterial, benefitting both small practices and large, distributed firms."

ArchiCAD 13 Overview

ArchiCAD 13 introduces leading-edge technologies that revolutionize design file sharing and deliver mission critical productivity improvements for the design and documentation workflow.

1. Design File Sharing

Building Information Modeling brings unique challenges to the design team: when implementing BIM on a large scale, architects often run into bottlenecks in model accessibility and workflow management. ArchiCAD 13 includes GRAPHISOFT BIM Server - a first of its kind solution for on-demand access rights management and project access for teams of any size, both within the office and over the Internet.

Speed

In ArchiCAD 13's collaborative environment, long waiting times for server synchronization are a thing of the past. The Delta Server technology decreases network traffic, so team members can collaborate on BIM models in real time. The same technology makes BIM projects accessible through standard Internet connections from virtually anywhere in the world.

Data Safety

Data corruption due to network or hardware failure is a major concern for CAD/BIM Managers: a single faulty computer literally can ruin the work done by the whole office. But the BIM Server's robust system architecture ensures the integrity of the BIM project at all times. Any data errors from malfunctioning components are blocked, preserving the project's integrity on the network.

Workflow

ArchiCAD 13's new Teamwork, with on-demand element access and server-level conflict management, combines the flexibility of 2D workflows with the coordination power of the model-based world. Companies can utilize their workforce much more efficiently with a dynamic and centrally controllable design workflow.

2. Productivity Improvements

ArchiCAD 13 continues the trend of delivering mission critical productivity improvements in each major release. In this latest version, important global and local user requirements have been fulfilled to further improve ArchiCAD's workflow. The impressive list of productivity improvements in ArchiCAD 13 includes:

Annotated Schedule Drawings

Door and window previews can be annotated associatively, right in the Interactive Schedule window. This feature alone saves significant drafting time for the documentation team.

Oriented Views

In ArchiCAD 13, the project alignment is completely flexible: simply rotate the view on screen to a perpendicular position. This way, diagonal wings can be edited naturally, while annotations adjust

automatically to the final layout orientation.

Intelligent "Soft" Insulation

Although fills have been around since the advent of CAD, modeling soft insulation in composite structures has been always a problem. ArchiCAD 13's soft insulation is a perfect solution for both 2D and 3D Documents.

Improved Object Handling

Global model view options help control the display and handling of library objects at a project level. Project specific library parts can now be saved into the ArchiCAD project file itself, ensuring the complete integrity of the project now and in the future.

DWG Enhancements - ArchiCAD 13 makes significant progress in the development of DWG file exchange. New features include improved layer management and the ability to export multiple layouts into a single DWG file.

Data Exchange with Engineers - ArchiCAD 13 supports the classification of BIM elements as either load-bearing or non-load-bearing structures, for more accurate export to programs used by structural engineers. Thousands of standard steel products are now available from within ArchiCAD 13.

64-bit Support for Windows - As the natural next step after introducing multi-processor support for ArchiCAD 12, the latest version of ArchiCAD is available on Windows with native 64-bit support.

Availability

ArchiCAD 13 will ship starting in mid-September with a very compact release schedule that brings all 26 local versions to the market in the fall season.

 [Click here to return to Contents](#)

Cadence and GLOBALFOUNDRIES Announce Broad, Multi-Year Technology Agreement

31 August 2009

Cadence Design Systems, Inc. and GLOBALFOUNDRIES Inc., a leading-edge semiconductor manufacturing company, announced that the two companies have entered into a multi-year software and services agreement for advanced semiconductor design. As part of the agreement, GLOBALFOUNDRIES has adopted a comprehensive suite of Cadence® technologies to aid in the design, verification and manufacturing of complex semiconductor devices targeting process technologies of 45 nanometers and below. In addition, GLOBALFOUNDRIES will team with the Cadence Services organization to build differentiated design-enablement capabilities to support customers at advanced process nodes.

GLOBALFOUNDRIES chose Cadence because of its strong interest in creating a broad, open design flow that enables fast, accurate and easy access to Cadence technology. The foundry has adopted the Cadence Virtuoso® and Encounter® design environments, as well as specialized technologies for diagnostics, IP validation and parasitic extraction, complemented by support services.

“Cadence technology and services will be important tools to help ensure that GLOBALFOUNDRIES has the enablement infrastructure necessary to support complex customer designs,” said Mojoy Chian, senior vice president of design enablement at GLOBALFOUNDRIES. “Our customers are operating at the leading edge of technology, and it is absolutely critical to offer them a standardized and seamless

flow that facilitates working silicon. Cadence's expertise in custom design is an important addition as we build a global partner ecosystem to efficiently bring the world's most sophisticated chip designs to market."

"Providing best-in-class solutions for tomorrow's toughest design challenges, ahead of the curve, requires continuous innovation and tight collaboration with our customers and business partners," said Lip-Bu Tan, [Cadence](#) president and CEO. "Working closely with GLOBALFOUNDRIES helps ensure our leadership in low-power, advanced-node, and signoff technologies, and enables Cadence to provide industry-leading design technology and services to a wide range of designers seeking new avenues to market."

 [Click here to return to Contents](#)

CGTech Ships VERICUT 7.0

31 August 2009

[CGTech](#) has released the next major version of VERICUT CNC machine simulation and optimization software. VERICUT 7.0 features significant performance-improving enhancements that reduce the time required for manufacturing engineers to develop, analyze, inspect and document the CNC programming and machining process. Instead of focusing on new features or add-on modules, CGTech developer resources have focused on diligent code optimization and customer-driven enhancements.

"VERICUT has been reorganized with a new user interface for maximum efficiency," said Bill Hasenjaeger, Product Marketing Manager. "Not only is the software extremely stable and significantly faster, it has never been easier to set up a VERICUT project. This release will set a new standard for the world's most advanced CNC simulation system."

VERICUT Product/Function Overview:

VERICUT is CNC machine simulation, verification and optimization software that enables users to eliminate the process of manually proving-out NC programs. It reduces scrap loss and rework. The program also optimizes NC programs in order to both save time and produce higher quality surface finish. VERICUT simulates all types of CNC machine tools, including those from leading manufacturers such as Mazak, Makino, Matsuura, Hermle, DMG, DIXI, Mori Seiki and Chiron. VERICUT runs standalone, but can also be integrated with leading CAM systems such as Catia V5, NX, Pro/E, MasterCAM, EdgeCAM and GibbsCAM.

GUI UPDATES

CGTech sought to reduce the number of pop-up dialogs for day-to-day VERICUT users and eliminate any confusion associated with "Apply", "OK" and "Cancel" buttons. As a result, setting up a new project in VERICUT has been simplified. Items formerly in pop-up dialogs have been moved to the Project Tree, where all projects are now configured by using an intuitive configuration panel automatically displayed as the user selects each branch. Actions are immediate, so "Apply" or "Okay" clicks are unnecessary.

The Component Tree has also been merged into the Project Tree but can be optionally hidden, depending on the user's requirements. Additionally, the Project menu is now much simpler with menu actions moved to the Project Tree. All these updates mean the user can stop hunting through menus to find the dialog needed; everything the user needs is now in one place.

MOTION CHANGES

VERICUT 7.0's motion processing is all new. Thousands of development hours have gone toward optimizing VERICUT's internal code for the fastest, most efficient motion simulation to date. Motion Simulation refers to how VERICUT calculates the motion path from the NC data and animates it. The motion in all view-types is now coordinated and tool images are consistent. Collision tolerance and motion display are independent. When set to stop at a travel limit, the simulation continues the motion with axis clamped, while any cuts during a limit error are painted red. A 5-axis NC block is now one motion and simulation times overall are shorter due to improved efficiency.

It is now possible to pause VERICUT in the middle of an NC block. Pressing Pause halts VERICUT immediately. The busy light is yellow when paused in the middle of an NC block, and displays green when stopped at the end of an NC block. If paused mid-motion the user can complete the current block by pressing the Step button. If paused mid-cycle, pressing the Step button will finish the multi-motion cycle. Several new Step options are available by right-mouse clicking the Step button. These allow the user to step into, over, or to the end of any subroutines used in the user's NC program sequence.

Users now have more control over Drill Cycles. Options for "Full Motion" & "Bottom Only" add the same cycle time and only control the animation display. "No Motion" removes material and adds cycle time but without any animation, and "Ignore" skips the cycle with no added time. Drill, turn, and pocket cycles stop immediately, and can be continued to the end with Step or Play, while turn cycles prompt the user to finish the cycle or jump to the end.

COLLISION DETECTION

All collision configuration is now done via the collision branch in the Project Tree. 5.x and 6.x collision configurations are upward compatible and are read into 7.0. This central location for all collision control eliminates any possibility of duplicate collision checks. All current functionality is maintained. The user can define a near-miss collision with cut stock, and all near-miss and actual collision errors are separated in the logger. Components turn red upon first display of the collision contact, instead of at the end of the colliding motion.

CAM INTEGRATION

VERICUT can read NX Part Files directly when NX is on the same computer. NX parts can be referenced either directly from within VERICUT, or via the NX-to-VERICUT interface.

The CATIA V5-To-VERICUT Interface has been enhanced with many new features for managing tools. The user can merge tools from a template with new tools from the Part Operation, and optionally put all unique tools in one tool library. The user can also use CATIA-referenced STL models.

VERICUT holders are now named using the holder names already defined in CATIA. Additional new features include the option to specify work offset subsystems and set model tolerances for the stock, fixture and design models. The interface optionally remembers the last options used. When working with multiple setups, the design model is only output in the first setup and moves with the cut stock.

ADDITIONAL ENHANCEMENTS

- VERICUT and the VERICUT license server are now Vista compatible
- Option to automatically set working directory to current project's folder
- Optionally write and display thumbnail images in the project and machine files
- Include visible CSYS in Report images

CIMdata PLM Industry Summary

- Adding a new setup renames the currently selected setup and increments its number
- Minimum Cutter Extension option: Do not shorten
- Polar measure in X-caliper
- X-caliper measurement markers stay on screen
- Save machine images and display thumbnail images in both the file selection dialog and in the choice list
- A configurable tool bar gives the user the ability to add/remove individual icons and display them in the order that works best for the user

 [Click here to return to Contents](#)

Dynamic Machining in Mastercam X4

August 2009

CNC Software's latest release, Mastercam X4, provides expanded machining flexibility and an increased emphasis on speed and automation with a suite of new toolpaths and techniques, including the new Dynamic Machining cutting motion.

Dynamic Machining creates a constantly adapting toolpath that delivers more consistent cutting conditions and allows use of the entire tool flute length, saving both time and money. The toolpath is specially designed to take a full depth cut in, often eliminating the need for multiple depth cuts.

Dynamic Machining also offers flexible retract options to keep the tool down in smaller parts, as well as rapid retract on larger parts. In addition, the special "micro lift" option will retract the tool slightly off the bottom when moving to the next cut. This decreases the amount of heat generated in the part and also helps with chip evacuation.

Highly efficient entry methods along with customizable entry speeds and feeds, give you flexibility regardless of the material or cutter style being used. Dynamic Machining's specialized motion works equally well with both "closed" and "open" parts.

For more information about Mastercam X4, please visit <http://www.mastercam.com>.

 [Click here to return to Contents](#)

80/20 Inc. Empowers Distributors with 8020edge Widget Using VizSpace

1 September 2009

80/20 Inc., a leader in modular framing systems, is releasing to its distributors *8020edge*, a web-based widget using VizSeek's VizSpace. *8020edge* operates within VizSeek's online industrial community networking platform, VizSpace, and it allows anyone with a web browser to design their own 80/20 product and immediately produce a bill of materials and cost estimate for it.

As a manufacturer of modular framing systems, 80/20 has hundreds of products that can be configured in a nearly infinite number of ways.

As 80/20 introduces *8020edge*, distributors are creating their own privately branded VizSpaces, where they can add the *8020edge* widget for their customers to create designs and generate bills of material

CIMdata PLM Industry Summary

online. Doug Wood, founding partner and general manager of 80/20 Inc., says that, “By creating custom VizSpaces for our distributors, we are opening the door for them to sell 80/20 online to a wide range of customers through *8020edge*. This tool can also be used by the Distributor’s Sales Force to generate a quick quote on-site with the customer.”

80/20 anticipates that the tool’s ease of use and minimal investment will attract new customers and will promote 80/20 over competitors who require using a catalog and extensive product training. Ed Jarnac of 80/20 distributor Carolina Fluid Controls says, “*8020edge* will be working for us 24/7 and will allow us to reach more people and multiply our sales effort.”

About 80/20 Inc.

80/20 is the leader in modular framing systems that adjust to fit any industry and application. From light- to heavy-duty, the 80/20 modular framing system provides secure and OSHA-approved guards, displays, workstations, and more. 80/20’s success has evolved from a blend of innovation in creative products, a strong sense of customer needs, and an “80/20 ATTITUDE,” which is the cornerstone of the company. More information is available at <http://www.8020.net>.

About VizSeek

VizSeek is the leading developer of shape-based search technology. The company’s mission is to connect the world’s industrial users through online communities of interest and providing a catalyst for identifying business opportunities. VizSeek solutions are currently used by top government agencies and industrial leaders. VizSeek, a wholly owned subsidiary of Imaginestics, LLC, is a privately held company headquartered at the Purdue Research Park in West Lafayette, Indiana. More information on VizSeek and its products is available at <http://www.vizseek.com>.

 [Click here to return to Contents](#)

EVE's New Emulation System Supports High-Capacity Designs of Up to One-Billion ASIC Gates

1 September 2009

[EVE](#) announced that its new emulation system ZeBu-Server supports high-capacity designs of up to one-billion application specific integrated circuit (ASIC) gates.

As a result, it meets the demands of high-end processors and graphics designs, and is suitable for all system-on-chip (SoC) verification needs across the entire development cycle, from hardware verification, hardware/software integration to embedded software validation. ZeBu-Server’s scalability serves a broad range of design sizes and styles, from 10-million to one-billion ASIC gates, in increments of 10-million, 20-million or 40-million gates. Used as a multi-user, multi-mode accelerator/emulator, its typical performance is approximately 10 megahertz (MHz) on a 40-million gate design.

ZeBu-Server is priced from \$150,000, less than a penny per gate for large configurations.

Nine of the top 10 semiconductor companies use ZeBu (Zero Bugs) emulation platforms in their verification flow. These platforms are used for SoC hardware verification and software development to shorten time to tapeout, improve product quality and eliminate costly respins, while shortening software development time ahead of silicon.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

IBM Unveils Enterprise Content Management Software to Help Clients Increase Efficiency

1 September 2009

[IBM](#) announced new enterprise content management (ECM) software designed to enable clients to manage their increasing volumes of information and reduce their business processing time, helping reduce cost and increase efficiency.

As clients continue to seek smarter use of their technology investments, IBM software is helping clients transform their processes by providing them with the tools and capabilities to better manage and share information while capturing new efficiencies.

The new ECM software includes a comprehensive business process management offering with analytic capabilities, new features in IBM's content management product line and full-featured ECM starter packs that are specifically designed for clients looking for smaller deployments, to cost-effectively meet their enterprise content management needs.

With the new offerings, clients can become more efficient in the way they manage their business processes and have quick and easy access to information when they need it. For example, insurance companies deal with growing volumes of information such as claims forms and insurance policies, which need to be processed in a timely and effective manner. If clients are hit by a natural disaster such as a hurricane, it is imperative that their insurance companies respond quickly. By automating the manually intensive business processes that are also prone to errors, such as underwriting, claims processing and policy issuance, insurance companies can now realize decreased processing times. This can help them improve efficiency and client satisfaction by meeting client needs promptly.

Similarly, it is crucial that hospital personnel have the right information, at the right time. Relying on manual processes for patient information can be costly and labor-intensive. By streamlining business processes, hospital personnel can have instant access to pertinent information to respond more quickly to patient requirements, reducing costs and delivering improved healthcare.

"Our software offerings are designed to make it easier for clients to get the most out of their content management investments," said Ken Bisconti, vice president, products and strategy, IBM Enterprise Content Management. "By bundling a complete set of content-centric business process management tools into one offering, IBM has significantly improved the delivery of ECM capabilities. This allows clients to simplify integration, streamline their business processes and lower costs."

[IBM ECM Software Portfolio Enhancements](#)

New ECM capabilities make it easier for organizations to support a broader set of users, while reducing the total cost of ownership of their ECM infrastructures:

Consolidating five products into one offering, IBM's new content-centric business process management (BPM) bundle provides clients with more functionality, improved ease of use, and simplifies the way they obtain BPM capabilities by offering a comprehensive, all-inclusive product for content-centric BPM. Included in the IBM FileNet Business Process Manager bundle are IBM FileNet Process Monitor, IBM FileNet Business Process Framework, IBM FileNet Connector for Microsoft Visio, and IBM FileNet eForms. Addressing business activity monitoring capabilities, the offering also includes IBM Cognos Now! which is designed to provide clients with real-time monitoring and visibility into business operations.

IBM FileNet Business Process Manager utilizes Web 2.0 technologies such as enterprise mashups from IBM, along with a set of standards-based widgets. These ECM-based widgets are visual services that

CIMdata PLM Industry Summary

provide useful ECM and BPM functions. Assembling widgets and mashing data together provides organizations with more adaptable options for ECM applications, reducing development time and increasing business agility.

IBM Content Manager and IBM FileNet Content Manager are secure and open content repositories designed to provide content services such as security, search, integration, and workflow. New improvements in IBM Content Manager include enhanced document handling capabilities; consumability and performance enhancements; process automation, execution, and management via BPM integration; full-text search (z/OS), and high volume batch loading capability (z/OS). Enhancements to IBM FileNet Content Manager include significant improvements in installation and upgrade processes, reducing the cost of deploying enterprise class content capabilities.

New versions of IBM Content Manager and IBM FileNet Content Manager will also include a technical preview of the Content Management Interoperability Services (CMIS) standard. CMIS is a proposed standard that allows clients to leverage third-party applications, user interfaces and tools with IBM repositories via a standardized web services or REST/AtomPub interfaces. This makes it easier for users to gain access to the right information - at the right time - from their applications. CMIS was submitted to OASIS, an international open standards consortium, in September 2008 and is currently preparing for public review.

In addition, IBM's ECM portfolio now includes ECM starter packs. The ECM starter packs are four, full-featured ECM packages targeted for smaller or departmental deployments. They allow clients to purchase just the right number of licenses to meet their current needs, helping them realize a more significant return on investment and enabling them to scale to a full enterprise deployment at any time.

The starter packs include: IBM Content Manager, IBM FileNet Content Manager, IBM FileNet Business Process Manager, and IBM Content Collector Discovery Analytics. For more information, visit: <http://www-01.ibm.com/software/data/content-management/starter-pack/>

IBM ECM software addresses the demands of globally distributed enterprises that require extensible technologies and supports the company's Smarter Planet initiative, which recognizes the need for improved information access, quality and insight.

For more information on IBM Enterprise Content Management software, visit: <http://www.ibm.com/software/data/content-management/agile-ecm/>

Web site: <http://www.ibm.com/software/data/content-management/starter-pack//>

 [Click here to return to Contents](#)

Lattice Technology Releases 3ds Max Converter V 4.0

3 September 2009

Lattice Technology®, developers of digital manufacturing applications using the XVL® format, announced the release of its updated 3ds Max® converter into XVL format files.

Version 4.0 of this XVL Converter application supports the new XVL v10 format, which delivers the industry's most compressed 3D format with no loss of accuracy. XVL v10 can compress 3D data to 0.5% of its original size, allowing anyone in the manufacturing supply chain to quickly view and understand even the most complex 3D data, even on a low specification PC.

“Once 3D data leaves the designers’ desks, it becomes a problem for others downstream who don’t have

CIMdata PLM Industry Summary

the hardware and software to deal with it,” commented Bill Barnes, general manager, Lattice Technology. “XVL and the XVL applications are focused on making 3D data lightweight, usable, reliable, and manageable downstream, and this updated converter makes that even easier for 3ds Max users.”

The latest version supports 3ds Max 2008, 2009 and 2010, and 3ds Max Design 2009 and 2010 formats, ensuring that the most recent versions of the product can create XVL data.

More information can be found at: <http://www.lattice3d.com/>

 [Click here to return to Contents](#)

Lectra and AB-Inventech Sign Cooperation Agreement for the Expanding Wind Energy Market

3 September 2009

[Lectra](#) announced the signature of a global cooperation agreement with AB-Inventech to promote and ensure the implementation of comprehensive automated solutions specifically designed for the wind energy and aeronautical markets.

Danish company, AB-Inventech, specializes in the design and manufacturing of equipment for production process automation. It has built up a solid reputation in the development and creation of machines adapted to the specific needs of certain industries with special emphasis on rotor blade production for wind turbines and handling of composite materials.

The company produces systems for loading material and offloading cut pieces which perfectly complement—at each end of the process—Lectra's range of cutters for the industrial fabrics and composites markets, particularly the wind turbine sector. This agreement makes it possible to offer a comprehensive automated solution with productivity levels unmatched by manual cutting equipment.

While maintaining both companies' independence in terms of sales, this cooperation agreement guarantees production process optimization through the integration of hardware and software. Lectra already supplies the biggest players within the sector, and this agreement coincides with the recent launch of its VectorTechTex FX Extended, which has enhanced the company's range of cutters specifically for the wind energy market. This new Vector® has been designed to meet the needs of companies cutting very long pieces of composite materials, such as wind turbine and helicopter blades. Compared with the standard VectorTechTex cutters, the VectorTechTex FX Extended cutter offers a further increase in productivity of up to 20% when cutting long pieces.

Complementary Products for Greater Competitiveness

Through this agreement, Lectra and AB-Inventech can now offer their joint customers one overall solution that yields substantial productivity gains. Customers can thus increase their competitiveness by reducing costs and time-to-market, while guaranteeing high quality standards, perfect accuracy and infallible product traceability.

The announcement of this agreement between Lectra and AB-Inventech confirms the complementarity of their products—for several years, customers have reaped the benefits of successful joint implementation of both companies' solutions. Along with the integration of their equipment and an excellent knowledge of the market, this agreement strengthens the collaboration between the two companies in this rapidly developing sector.

"The agreement we have just sealed with AB-Inventech is the result of positive shared experiences

CIMdata PLM Industry Summary

implementing solutions specifically for the wind energy market," explains Daniel Harari, Lectra CEO. "Through the synergy of our products and our expertise, customers are assured a place at the forefront of this major growth market."

"For many years the two companies have worked closely together implementing automation solutions especially for customers in the international wind turbine market" adds Niels Kirkegaard, AB-Inventech COO. "The signing of this Agreement is a logical consequence of the very positive co-operation we have experienced with Lectra and we look forward to an even closer co-operation in the future."

Wind Energy: an Expanding Market

According to BTM Consult, an independent consultancy firm specializing in renewable energy, average growth in new installations of wind turbines is estimated at 15.7% per year until 2013. This is expected to rise to 17.2% in 2014.

Consequently, companies must prepare now in order to cope effectively with this growing demand and the requirements of the market, both in terms of product quality and flexibility of supply. With the support of [AB-Inventech](#), Lectra's goal is to enable companies in the wind energy industry to be in a position to meet the challenges they face in a complex yet promising economic climate.

About AB-Inventech

Within handling of composite materials and production of rotor blades for wind turbines AB-Inventech has a very broad know-how and experience which is one of the key assets for this co-operation.

 [Click here to return to Contents](#)

Mentor Graphics Launches Precise-IP Vendor-independent IP Platform for FPGA Design

3 September 2009

[Mentor Graphics Corporation](#) announced Precise-IP™ — a new vendor-independent IP (Intellectual Property) platform as part of the Mentor Graphics® Precision® Synthesis product line. The platform includes vendor-independent configurable IP from Mentor Graphics and links to categorized third-party IP from leading vendors. The third-party IP was certified by the respective IP vendor to ensure high quality of results with the Precision Synthesis technology.

As part of a complete vendor-independent IP methodology, the Precise-IP platform contains a library of configurable IP for use with the Precision Synthesis solution. The easy-to-use wizard creates frequently-used synthesizable IP based on user parameter settings. The configuration parameters are then validated by a self-checking GUI to ensure configuration conformance. The IP cores are optimized for best quality of results (QoR) across FPGA families.

A comprehensive catalog of complex cores — such as processors, interface controllers, and application-specific cores — are provided by leading IP vendors and available for multiple FPGA families. Participating vendors of the Precise-IP Partner Program are ARC, ARM, Aeroflex Gaisler, CAST, Eureka Technology, Helion, IPextreme, Innovative Logic, and OptNgn. Mentor Graphics continues to add new configurable IP and new partners to expand its catalog of supported cores.

"Mentor's Precise-IP is a big win for design engineers," stated Gary Smith, principal of Gary Smith EDA. "Non-proprietary, commercial IP that is vendor independent gives the FPGA designer the freedom to select the device that delivers the best results."

CIMdata PLM Industry Summary

“An effective vendor-neutral design methodology requires vendor-independent IP to complement EDA design tools,” stated Daniel Platzker, Mentor Graphics FPGA division product line director. “With Precision Synthesis’ Precise-IP platform, designers can easily create widely-used IP and find high-quality cores from leading IP vendors, thus retaining the flexibility to retarget their designs to different FPGA silicon as the need arises.”

The Precise-IP platform is available within the Precision Synthesis product. For more information, visit the company website at: www.mentor.com/precision/precise-ip. You can also contact a local Mentor Graphics sales office, or call 800-547-3000 for specific product and pricing details.

About Precision Synthesis

The Precision Synthesis product line forms the centerpiece of Mentor Graphics FPGA flow — the industry's most comprehensive vendor-independent solution for FPGA design. The Precision RTL Plus product offers breakthrough capabilities such as vendor-independent physical synthesis which provides industry-leading quality of results, automatic incremental synthesis to reduce the impact of late design cycle changes, and patent-pending functionality which enables the efficient utilization of architectural blocks. With advanced support for ASIC prototyping (support for DesignWare libraries, SDC constraints, gated-clock handling, etc.) plus advanced implementation and optimization techniques such as automatic mapping and inference of dedicated DSP and RAM blocks, the Precision Synthesis product is uniquely suited to handle today’s high-end FPGAs. In addition, the Precision Synthesis product features an award-winning design analysis capability, allowing designers to cross-probe between multiple views as well as to perform interactive static timing for rapid "what-if" analyses.

Quotes from Mentor Graphics Precise-IP Vendor Partners

"We are pleased to be part of Mentor's Precise-IP Program. Through this initiative we can offer our IP customers a verified FPGA flow for validating and prototyping ARC’s sub-systems and market segments solutions in customers’ overall system architecture."

Michael Lerchenmuller, Vice President of International Sales ARC, Inc.

“The ARM® Cortex™-M1 processor is the first ARM processor designed specifically for implementation in FPGAs and is therefore ideally suited for inclusion in the Precise-IP platform. The Cortex-M1 processor targets all major FPGA devices and includes support for leading FPGA synthesis tools, allowing the designer to choose the optimal implementation for each project.”

Vivek Nagaraj, FPGA Program Manager ARM

“With Aeroflex Gaisler’s IP and Precision Synthesis, customers can efficiently achieve their design goals using the FPGA of their choice. We believe Mentor's Precise-IP Program brings the value of FPGA vendor independence front and center to the FPGA design community and we are happy to be a part of it.”

Per Danielsson, Managing Director Aeroflex Gaisler AB

"CAST IP cores and Mentor's Precise-IP Program are a perfect match," said Newton Abdalla, vice president of IP for CAST, Inc. "We both give designers unmatched flexibility in IP and silicon, deep experience in developing and delivering products, and an extreme dedication to customer success that makes the difference in every design project."

Newton Abdalla, Vice President of Intellectual Property (IP) CAST, Inc.

“With Eureka Technology’s IP and Precision Synthesis, customers can easily achieve their performance

CIMdata PLM Industry Summary

goals while using the FPGA of their choice. Both Mentor's Precision Synthesis tool and Eureka's system connectivity IP cores contribute great values to the FPGA design community and Eureka is very happy to be part of the Precise-IP Program."

Simon Lau, President Eureka Technology Inc.

"We are pleased to be part of Mentor's Precise-IP Program. This collaboration between FPGA vendor independent synthesis and IP providers is an important step in providing customers with greater flexibility in selecting the best FPGA device for their applications."

Graeme Durant, CEO and Founder HELION Technology, Limited

"We are excited to be a part of the Precise-IP program. Through this initiative, Innovative Logic and Mentor Graphics can offer mutual customers an optimal, FPGA-neutral flow when implementing their high speed applications."

Dinesh Tyagi, President and CEO Innovative Logic, Inc.

"Our business philosophy of providing process- and vendor-independent solutions is closely aligned to the Mentor Graphics approach. As one of Mentor's first IP partners, we are realizing great success in this pre-verification solution enabling our mutual customers to achieve faster, higher-performance FPGA designs."

Rick Tomihiro, Vice President of Marketing IPextreme, Inc.

"OptNgn believes that vendor independence, libraries, standards, and compiler performance are important components of any FPGA design methodology. We are glad to participate in Mentor's Precise-IP program. By ensuring our IP libraries are supported by Precision, we can help our customers meet their design, enhancement and platform independence goals through using our DSP and mathematical libraries."

Alan Coppola, President OptNgn Software, Inc.

 [Click here to return to Contents](#)

ROHR2 Update 30.3c; New Features and Improvements

July 2009

The update of the Program System ROHR2 by software releases is an essential component of the maintenance agreement. The software is developed continuously. The adaptation to the current version of the implemented norms and databases has highest priority for the user.

These are the significant changes and enhancements of ROHR2 since Service Release 30.3b/ December 2008:

ROHR2 30.3c, Changes and Improvements, detailed

ROHR2win

The input of point loads of the type deformation breaks/local rotations is now independent of the line topology.

The CII import interface has been revised.

The function 'Extras - determine length of the selected segments' displays now also the mass of the

CIMdata PLM Industry Summary

selected region.

Soil restraint: the discretization in the bend regions was optimized

Static earth quake with characteristic curves for accelerations: If only a part of the system is loaded a warning is printed out now.

Assigning spectra to selected regions: the spectra combination is now assigned to the anchor points at shock absorbers and visco dampers, too.

the automatic generation of the topology was optimized

User defined names for structural sections are now checked for validity after inserting the name.

The data bases for tee's reducers, bends and caps were extended with data from EN 10253-2

The internal pressure analysis for bands acc. to AD 2000 B1 was implemented

ROHR2

RR-Task/Spring Hanger Design: The default hanger length now has been decreased to 100.001 m

RR1-/RKD-Task: Now the hanger table will be printed in the .out file (similar to RRN-Task).

RKE-Task (dyn. earthquake): CQC: Run Time has been optimized.

RRH-Task: Automatic purification in RRH-Task adjusted.

RSR-Task (Stress analysis): Corrections in KTA 3211.2 A2/A3: In the equations (8.5.81) of level A,B,C and D (S2,S2C and S2D with SIF) now the RP02 stress limitation of Equation (8.5.80) is deactivated (see chapter 8.5.3.3, 8.5.3.6 und 8.5.3.7).

Stress analysis due to FDBR, EN13480: The allowable stresses in the equation considering the range the factor Y-Modulus_Warm/ Y_Modulus_Cold now will be taken as a maximum from the range load cases.

 [Click here to return to Contents](#)

Siemens PLM Software Announces Version 5.0 OF Teamcenter Express cPDM

31 August 2009

[Siemens PLM Software](#) announced Version 5.0 of [Teamcenter® Express software](#). Teamcenter Express is a configuration of Teamcenter and is the collaborative product data management (cPDM) component of the [Velocity Series™ portfolio](#), Siemens PLM Software's comprehensive family of modular, yet integrated solutions addressing the PLM mid-market. This latest release provides key enhancements that improve the productivity of small and medium size businesses (SMBs), thus reducing the time needed for completing design-through-manufacturing projects.

“The release of Teamcenter Express Version 5 on the latest Teamcenter platform adds a well-rounded set of new productivity improvements to this comprehensive cPDM solution for SMBs,” said Peter A. Bilello, vice president, CIMdata. “The enhancements in Version 5, such as the comprehensive integration with Microsoft Office™ and the new cost analysis tools for both products and projects, should further enable small- and mid-size manufacturing organizations to deliver their design projects to manufacturing on time and on budget while improving their own cost management.”

Teamcenter Express Version 5 delivers an updated user interface with new Lifecycle Viewer and

CIMdata PLM Industry Summary

Structure Manager modules that consolidate and simplify visualization and product structure management tasks. New cost analysis tools are also available for both products and projects, enabling costs to be calculated from the initial concept design through release to manufacturing, resulting in improved cost control and profitability.

Version 5 also delivers an improved user interface and expanded capabilities for integration with Microsoft Office 2007. While working in Word, Excel®, PowerPoint® or Outlook® users can easily browse and search the Teamcenter Express database, add new documents to this single source of data, and review and approve cPDM workflow tasks that have been assigned to them. More users working from a single source of product data results in less errors and more consistent completion of everyday tasks.

Several enhancements to the optional project scheduling module are also delivered with Version 5. This includes the ability to view multiple project schedules in a single window, enabling improved resource allocation and early identification of potential bottlenecks along with the ability to link projects together in hierarchical and sequential structures.

“Manufacturing SMBs in 38 countries are using Teamcenter Express to improve the efficiency and consistency of their design-through-manufacturing processes and improve their customer responsiveness,” said Bill McClure, vice president of Velocity Series development, Siemens PLM Software. “With Version 5 companies can provide wider access to a single source of product data and improve their control of product and project costs. The result is higher productivity and profitability in delivering products that exceed their customers’ expectations.”

Teamcenter Express Version 5.0 is built on Teamcenter 8 and delivers complete scalability to the unified architecture of this latest release of Teamcenter. Version 5.0 is also now available on Microsoft® SQL Server® 2008. Version 5.0 will be available to customers in September.

For more information, visit www.siemens.com/plm/teamcenterexpress.

 [Click here to return to Contents](#)

SolidWorks 2010 Products: Work Smarter and Faster with Powerful New Capabilities

1 September 2009

Dassault Systèmes (DS) SolidWorks Corp. unveiled the [SolidWorks® 2010 product line](#), a new set of software products that optimize and bulletproof the core product design functions that make designers and engineers successful every day. Through the use of CAD, simulation, data management, documentation, and environmental impact assessment, organizations will transform their inspirations into innovation, supported by a vibrant community of CAD users, content, technology, and expertise.

This new SolidWorks product line also improves depth and performance by extending the DS SolidWorks tradition of including hundreds of new enhancements specifically requested by customers.

“When I saw the sneak preview of SolidWorks 2010 at the SolidWorks World 2009 conference in Orlando, I was very excited about most of the new functionality,” said Wayne Tiffany, senior machine designer at [Automatic Systems Inc.](#) of Kansas City, Mo. “Now that I’m using SolidWorks 2010, I’m already seeing some payback. The new drawing enhancements have helped speed up drawing creation while the new DXF export and preview capabilities have helped make data output for manufacturing faster and more efficient. Most important, using the new assembly visualization functionality, I found a mistake where I had assigned the wrong material density to one of the parts in a recent design and was

CIMdata PLM Industry Summary

able to quickly remedy the issue. Bottom line, SolidWorks 2010 is already helping me be more productive.”

What’s new in the SolidWorks 2010 product line

[SolidWorks Premium CAD software](#) improves designers’ and engineers’ productivity with a wide range of new capabilities. Patent-pending [rapid dimensions](#), for example, display new dimension placement alternatives and neatly re-arrange existing dimensions to make room for the selection. A [configuration publisher](#) lets users easily publish a model configurator interface to the [3D ContentCentral](#)[®] service – a Web-based marketplace for 3D parts, assemblies, and other content – to enable simple selection of model alternatives. Patent-pending [heads-up mouse gesturing](#) puts unprecedented power in simple movements of the hand. SolidWorks 2010 also provides greatly enhanced [reference plane creation](#) methods, [sheet metal](#) functionality, [weldment](#) performance, [component mirroring](#) capabilities, and [direct editing](#) tools. And [PhotoView 360](#) makes it even easier for novices to render photorealistic images like professionals.

[SolidWorks Simulation Premium](#) empowers teams by arming them with tools to easily validate design decisions, uncover hidden problems before they affect production, and potentially save hundreds of thousands of dollars. The new version adds first-ever capabilities like event-based motion simulation, which mimics the way machines really work, as well as [proximity sensors](#) and [automatic edge-weld sizing](#). The overhauled [simulation advisor](#), part of the SimulationXpress software included with every license of SolidWorks CAD software, guides novices through their first few successful simulations, shortening the learning curve and adding a layer of protection against errors.

[SolidWorks Enterprise PDM](#) software includes new productivity features for preparing models and drawings for distribution. A new [convert](#), [publish](#), [print](#), and [plot](#) capability, for example, automatically converts hundreds of manufacturing drawings into neutral formats for quoting, collaboration, batch printing, and sharing with other systems. The new SolidWorks Enterprise PDM streamlines collaboration with a single centralized SolidWorks Toolbox library and introduces a new suite of rapid implementation tools for quicker return on investment.

[3DVIA Composer](#) automatically creates product documentation and keeps it updated with every design change. It helps organizations repurpose 3D assets to quickly create product manuals, brochures, catalogs, assembly instructions, training videos, and more. 3DVIA Composer 2010 further reduces documentation time by repurposing SolidWorks configurations and exploded views, thus putting intelligent design data to work. It includes a new time-saving ability to auto-create explode lines for multiple exploded views. Users can also create richer, more informative documentation with scalable detail views, BOMs in 3D, a shadow caster, and photorealistic background objects.

[SolidWorks Sustainability](#) software for the first time makes sustainable design accessible, credible, and SolidWorks simple. SolidWorks Sustainability helps users determine the carbon footprint, energy consumption, and air/water impacts in a product design’s raw material sourcing, manufacture, use, and disposal. An [assembly visualization](#) tool color-codes parts based on their total environmental impact. Configuration support in the software also lets users compare multiple design iterations for sustainability concerns.

Included with every license of SolidWorks software, **SolidWorks SustainabilityXpress** helps users immediately determine the environmental impact of any part. SolidWorks Sustainability products include an environmental impact dashboard, customizable reports, and a tool to find alternative materials to easily compare and instantly improve the sustainability of a part.

CIMdata PLM Industry Summary

Both SolidWorks Sustainability and SolidWorks SustainabilityXpress draw on the expertise, research, development, and data of Germany-based partner PE INTERNATIONAL, the largest and oldest network of sustainability experts in the world, and PE Americas, its U.S. division. Together, the new products give the SolidWorks community a way to make a significant collective impact on the environment by incrementally improving every design.

“SolidWorks 2010 is designed to provide every design team with an improved work experience that can bring them to new levels of success regardless of their industry,” said Austin O’Malley, CTO of DS SolidWorks Corp. “We listened to what the engineering community was asking for, which was a rock solid work experience and depth of functionality to help them work faster and smarter. We’re confident we have delivered. The sustainability capabilities will also help our community make an important contribution to the world in creating environmentally friendly products.”

Integration

SolidWorks 2010 supplies single-window, fully associative integration with all of DS SolidWorks’ software products, including SolidWorks Simulation, SolidWorks Enterprise PDM, 3DVIA Composer, and SolidWorks Sustainability. This integration means users can leverage the same 3D model in all of the operations that make their product a reality. SolidWorks provides an intuitive user experience and meaningful results throughout the entire process.

Availability and pricing

SolidWorks 2010 products are available for purchase worldwide through SolidWorks authorized resellers and will ship in October. Contact a SolidWorks authorized reseller for pricing. To locate one in your region, visit <http://www.solidworks.com/locateVAR/>. For more information about the SolidWorks 2010 product line, including video demonstrations, please visit <http://www.solidworkslaunch.com/> or contact a reseller.

 [Click here to return to Contents](#)

ValGenesis, Inc., the Leading Provider of Validation Lifecycle Management Solutions to Regulated Life Science Companies, Today Announced Support for EMC Documentum v.6.5

3 September 2009

ValGenesis, Inc. announced the worldwide availability of the vDoc360 connector for EMC Documentum v.6.5 to increase enterprise productivity specifically for regulated Pharmaceuticals, Biotech and Medical Devices companies. The vDoc360 integrates ValGenesis with the EMC Documentum v.6.5 Server. This integration offers Documentum customers an end-to-end secured, 100% paperless validation lifecycle management solution and central storage of validation documents provided by these two complementary technologies.

This offering will provide global access, retrieval and storage of corporate validation data and documents generated by ValGenesis within EMC Documentum v.6.5 Server. This helps to leverage real-time reporting and the search functionality of Documentum Server for validation data and documents.

With the vDoc360 connector for EMC Documentum, customers can extend Documentum's access control and audit capabilities to corporate validation data and documents. Furthermore, document management staff can apply federated retention policies to unify management practices across all documents and record types throughout their organizations, ensuring consistent compliance to regulatory requirements.

CIMdata PLM Industry Summary

"Many Life Sciences companies use Documentum for document management and want the flexibility to leverage this investment. ValGenesis continues to offer state-of-the-art ValGenesis software and now allows customers to use Documentum as the central repository for validation data and documents throughout the enterprise with this integration. ValGenesis also interfaces with many other systems, including automated test engines, to leverage the power of these test engines for validation requirements. The interface with Documentum facilitates the storage of the test data and documents generated by test engines in Documentum through configurable workflow provided by ValGenesis. ValGenesis offers Documentum users strengthened return on investment and additional usability, functionality and productivity," said Siva Samy, Ph.D., ValGenesis Chief Product Strategist.

About ValGenesis

[ValGenesis](#) offers a software platform that serves as the foundation for compliance-based validation life cycle management in regulated companies by enabling a 100% paperless validation process. ValGenesis is the first Enterprise application to automate the validation lifecycle and to provide 360-degree visibility to the corporate validation process. ValGenesis is designed to fully conform to FDA 21 CFR Part 11 compliance requirements.

 [Click here to return to Contents](#)

Z Corporation Brings Multicolor 3D Printing Capabilities to SolidWorks 2010 Users

1 September 2009

Z Corporation announced that its ZPrinter line of 3D printers will enable users of Dassault Systemes SolidWorks 2010 software to quickly and affordably create 3D physical prototypes from their CAD designs. Highlighting the frequent use of SolidWorks software and ZPrinters across the manufacturing industry, Z Corporation is a key sponsor of today's SolidWorks 2010 launch.

Designers and engineers will use ZPrinters and software to transform SolidWorks 2010 3D CAD files into physical models in house. With their ability to print in multiple colors simultaneously, ZPrinters can produce models with engineering labels, annotations, texture maps and full-color finite element analysis results.

ZPrinters are SolidWorks Solution Partner Products and offer fast, affordable and automated 3D printers for use with SolidWorks 2010. They save engineering organizations time and money and reduce errors by enabling users to quickly create physical prototypes from concept through product launch.

"[Z Corporation](#) 3D printers deliver the prototyping functionality engineers need," said SolidWorks Manager of Alliances Nick Iwaskow. "Together, ZPrinters and SolidWorks 2010 give engineers the innovative tools and productivity to streamline product development and design great products."

SolidWorks 2010 is focused on optimizing core design functions with deeper functionality so users can more quickly and intelligently achieve their goals. It also includes hundreds of new enhancements specifically requested by customers.

"We're excited about SolidWorks 2010 and its obvious ability to help designers and engineers work smarter and faster every day," said Kevin Lach, Z Corporation vice president of marketing. "Both forms of 3D visualization -- CAD and 3D printing -- dramatically enhance the speed and quality of product development and the communication around it."

 [Click here to return to Contents](#)

Zuken Announce the Availability of E³.WireWorks

2 September 2009

Zuken today announced the availability of [E³.WireWorks](#), Zuken's new design solution for wiring, harnesses, cable assemblies, and panel layouts. Integrated with SolidWorks Premium Routing, E³.WireWorks enables electrical engineers to design, layout and route wiring in cabinets and control panels. E³.WireWorks is available exclusively through SolidWorks' Value Added Resellers.

"E³.WireWorks fills a much needed gap in wiring design," said Tony Cadwell, Manager of Zuken's E³ Indirect Sales. "Its electrically intelligent database and online DRC prevent users from making errors, saving time and improving quality. Its integration with SolidWorks completes a premier end-to-end solution for cabinet and panel design."

E³.WireWorks' design approach stores circuit diagrams, cabinet and panel layouts, and nail board drawings in one multi-view project file, automatically syncing all drawings and the BOM. When you make a change in one view (e.g., schematic), it automatically changes in the other views (e.g., cable, harness, panel, and BOM). Its electrically intelligent online DRC automatically prevents errors such as inappropriate wire sizes in terminals, short circuits between signal types, and wires that are not within the min/max specified in the library part.

"This is an ideal complement to our offering." Said Paul Boswell, Product Manager from SolidWorks. "With E³.WireWorks, our users can now leverage a complete solution for the design of wiring, harnesses, cable assemblies, cabinets and panels."

E³.WireWorks' close integration with SolidWorks Premium Routing passes netlist (from-to connections), cable information (color, AWG), and component data (part name, pins, and associativity) between E³.WireWorks and SolidWorks. It also supports the generation of manufacturing documentation by returning routed segment and wire length information from SolidWorks to E³.WireWorks. Additionally, bidirectional highlighting enables engineers to collaborate on design issues. For even greater productivity gains, the integration also ties into SolidWorks Enterprise PDM for data management, workflow, and lifecycle control.

E³.WireWorks is available exclusively through the SolidWorks' Value Added Resellers. For more information on E³.WireWorks, please visit www.zuken.com/e3wireworks and <http://www.solidworks.com/sw/products/details.htm?productid=670>.

About E³.WireWorks

[E³.WireWorks](#) is a Windows-based, modular, scalable and intuitive system for the design of wiring, harnesses, cables assemblies, and cabinet and panel layout. Its unique design approach stores circuit diagrams, cabinet and panel layouts, and nail board drawings in one multi-view project file. This keeps all drawings and the BOM automatically in sync, reducing errors, increasing quality and enabling engineering changes to be completed much more efficiently. Its close integration with SolidWorks Premium Routing passes netlist, cable, and component data between E³.WireWorks and SolidWorks. It also returns routed segment and wire length information from SolidWorks to E³.WireWorks for manufacturing documentation. SolidWorks Enterprise PDM integration enables data management, workflow, and lifecycle control.

 [Click here to return to Contents](#)