

Contents

Acquisitions	2
IFS Acquires MultiPlus Solutions	2
CIMdata News	3
CIMdata Inc. Announces A Mid-Year Update to Its PLM Industry Forecast	3
Virtual Prototyping - A Business Case	4
Company News	4
Alibre Challenges CAD Industry to Beat \$99 Price Offer	4
CADventure, Inc. Announces Corporate Office Move to Mentor, Ohio, and Open House	5
CONTACT Software Explores New Approaches in Knowledge Management	6
Imaginestics and the CAC Join Forces to Research Powerful New Search Technologies	7
Lattice Technology Releases Chapters 7 and 8 of its New Lean Manufacturing Book, Available Free of Charge	8
LEDAS Supports Research on Future CAD at Purdue University	8
Mentor Graphics and King Abdulaziz City for Science and Technology in Saudi Arabia Cooperate in Developing Electronics Design Technology	9
Siemens PLM Software Invests in ASU to Help Engineering Students Better Prepare for Joining Workforce	10
Events News	12
Bentley AutoPIPE Nuclear V8i Answers Need for Rigorous Nuclear Plant Design, Expedited Construction, and Enhanced Safety	12
Comet Customer Presents New Project Results at SPIE Optics+Photonics Conference	13
Delcam, Huron and Sandvik Resellers Promote High-Speed Machining in Quebec	14
Delcam to Show Jewellery Software at JCK Toronto	15
Delcam's New PartMaker to be Previewed at EMO	16
Gerber Technology to Focus on Efficient PLM and CAD Solutions at its Eleventh Annual Software Users Conference	17
JETCAM to Showcase Latest Nesting and Material Management Software at Fabtech 2009	19
OPEN MIND Technologies AG at EMO 2009 in Milan, Italy	19
Register Now for Adobe-Anark Webinar Wednesday, August 26, 2009 10:00 AM PDT, 1:00 PM EDT	21
Small and Medium Businesses: Webcast on Demand: Virtual Prototyping - The Facts & Myths	21
Specialized Programming at Oracle® OpenWorld 2009 Gives Customers and Partners Access to Oracle's Latest Advancements and Innovations	22
Webinar Demonstrates FEA for Dynamics Analysis	23
Zuken Exhibits at International Defence Exhibition	24
Financial News	25
Autodesk Reports Second Quarter Fiscal 2010 Financial Results	25
Mentor Graphics Corporation to Release Fiscal Q2 2010 Financial Results Thursday, August 20, 2009	26
SofTech Announces Improved Profitability for Fiscal Year 2009	27
Strong Year Over Year Growth in Second Quarter Annuity Bookings Demonstrate the Value Customers See in Arena BOM and Engineering Change Management Software	29
Valor Increases Profitability in Q2/2009; Positive Cash Flow Increased	31
Implementation Investments	32
ANSYS Paves the Way for Economic and Environmental Improvements in Cement Manufacturing	32

CIMdata PLM Industry Summary

Autodesk Inventor Helps A.T. Ferrell Move Food from Factory to Table_____	34
Dassault Systèmes Selected by Dana Holding Corporation for Design Simulation Management Solution__	35
Fluor Corporation Extends its Contract for AVEVA Plant _____	35
Ford Motor Company Continues to Engineer Safer Vehicles Using the HyperWorks Simulation Suite and Its Integrated Solver Solution - RADIOSS _____	36
Madura Garments Goes Live with Lawson Fashion PLM _____	37
Magma's FineSim SPICE Chosen by Technology Leaders & Innovators as Standard for Verification of Large Analog IP Designs _____	38
Novenco Airbox - Quick And Accurate Quoting With Configit _____	38
Open Text eDiscovery Chosen by Marathon _____	39
Radan Software – it's a Steal _____	40
Timberland Reduces Product Development Time by 33 Percent with Z Corporation 3D Printing Technology _____	41
Product News _____	43
KOMPAS-3D V11 Coming Soon _____	43
Latest Version of MapleNet Makes it Easier than ever to Incorporate Powerful Mathematical Services and Content on Web Sites _____	43
National Instruments and SolidWorks Collaborate on a Virtual Prototyping Solution _____	44
RAND Worldwide Releases the Advanced Data Migration Import Tool (ADMIT) Version 2.4 _____	45
Siemens PLM Software Announces NX PCB Exchange for Zuken _____	46
Synopsys Delivers Comprehensive HDMI IP Solution for 90-nm to 40-nm Process Technologies _____	47

Acquisitions

IFS Acquires MultiPlus Solutions

13 August 2009

IFS announced that it has signed an agreement with Qurius International Holding B.V. to purchase 100% of the shares of MultiPlus Solutions AS. The purchase price will be paid in cash. The acquisition will further strengthen IFS' market position with respect to project-based solutions (PBS) for targeted industry sectors.

MultiPlus Solutions, based in Sandefjord (Norway) and with sites in China and Denmark, is a well-established vendor of project-based business applications to the marine (shipbuilding, offshore), EPCI (Engineering, Procurement, Construction, and Installation) and project manufacturing industries. The company offers a complete ERP suite including functionality for areas such as finance, project control, maintenance, manufacturing, document management, and human resource management.

Multiplus Solutions has an attractive customer base of almost 100 customers in Norway, Denmark, France, the U.S.A., and China. IFS intends to continue to support, maintain and enhance the product, while realizing economy of scale and synergies related to having similar industry and solution competencies.

MultiPlus Solutions Group generated net revenue of NOK 45.9 million, of which nearly 50% is product revenue, and EBIT amounting to NOK 2.8 million in 2008.

“With the acquisition of Multiplus Solutions IFS can be seen to be executing on its stated strategy for growth and doing so by growing in one of its primary target sectors. The industries served by project-based solutions (PBS) is a market in which MultiPlus Solutions is a well respected supplier and where IFS seeks to achieve a market-leading position with its excellent customers and deep industry

CIMdata PLM Industry Summary

knowledge” Alastair Sorbie, IFS CEO said.

IFS Scandinavia will be responsible for integrating MultiPlus Solutions, and Managing Director Glenn Arnesen looks forward to welcoming both new customers and employees onboard.

“We have a strong cultural fit, both organizations being customer-driven and committed to delivering flexible, component-based solutions that respond to the changing needs of our targeted industries. We also look forward to including companies such as Ulstein Verft, Color Line, The Frank Mohn group, Elko, Sinopacific Shipbuilding Group, Mustad and UMOE Schat-Harding in our customer base,” Glenn Arnesen said.

The transaction is expected to be completed within 3 – 4 weeks, subject to the completion of regulatory and other formalities.

 [Click here to return to Contents](#)

CIMdata News

CIMdata Inc. Announces A Mid-Year Update to Its PLM Industry Forecast

11 August 2009

CIMdata, Inc., the leading global PLM consulting and research firm, has released an update to its PLM Industry forecast to reflect the continuing impact of the downturn in the global economy. This update reflects additional information and research gathered during the first half of 2009, which indicates that industrial companies are investing less this year than initially forecasted.

In March, based on information and research gathered during 2008, CIMdata forecasted that the Comprehensive PLM market would achieve a 6.3% CAGR over the next five years to reach nearly \$36 billion in revenues. Investments in 2009 were forecasted to have a 3.8% growth over 2008 investments. However, the global economic situation has been even more severe than anticipated, and CIMdata has taken the unusual step of providing a mid-year update to its forecast of 2009 PLM investment performance.

CIMdata expects the PLM market to stabilize during 2009 and early 2010 and return to growth during the last half of 2010. CIMdata is now forecasting that Comprehensive PLM investments in 2009 will decline 2.1% (from 2008 results) and the five year CAGR will be 3.5%—with investments growing to just under \$31 billion in 2013. Mainstream PLM investments are now forecasted to decline 1.6% in 2009 and then achieve a CAGR of 3.5% over the 5-year forecast period to reach just under \$20 billion in 2013.

A full description of CIMdata’s PLM market growth forecasts can be found in the CIMdata-authored report “PLM Market Growth in 2008—Mid-Year Look in 2009,” which is available for free download from CIMdata’s website at

http://www.cimdata.com/publications/reports_complimentary/white_papers.html.

About CIMdata

CIMdata, a leading independent worldwide firm, provides strategic consulting to maximize an enterprise’s ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM) solutions. Since its founding more than 25 years ago, CIMdata has delivered world-class knowledge, expertise, and best-practice methods on PLM solutions. These

CIMdata PLM Industry Summary

solutions incorporate both business processes and a wide-ranging set of PLM enabling technologies.

CIMdata works with both industrial organizations and suppliers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia Pacific. To learn more about CIMdata's services, visit our website at www.CIMdata.com or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA. Tel: +1 (734) 668-9922. Fax: +1 (734) 668-1957; or at Siriusdreef 17-27, 2132 WT Hoofddorp, The Netherlands. Tel: +31 (0)23 568-9385. Fax: +31 (0)23 568-9111.

 [Click here to return to Contents](#)

Virtual Prototyping - A Business Case

August 2009

You are invited to learn more about the business value of Virtual Prototyping from CIMdata Senior Consultant John MacKrell in the free PTC webcast video located at:

http://www.ptc.com/appserver/wcms/forms/index.jsp?im_dbkey=97800&icg_d

 [Click here to return to Contents](#)

Company News

Alibre Challenges CAD Industry to Beat \$99 Price Offer

11 August 2009

[Alibre, Inc.](#) announces an offer of professional grade 3D CAD software, including parts, assemblies, and 2D drafting, available to anyone for under \$100.

For a limited time, anyone can get Alibre Design for \$99 (regularly \$999). Alibre Design is the core CAD component of Alibre's product offering, providing a complete parametric toolset for unlimited 3D part and assembly design and 2D drafting. Capable of creating complex mechanical designs with thousands of components, full assembly motion, automatic 2D drawing updates, and many other benefits, Alibre Design is similar to products such as SolidWorks, Inventor, and Pro/E. Tens of thousands of Alibre Design users in 50 countries and 15 languages use the software to design, verify, and virtually test their products.

With today's announcement consumers have the option of spending \$99 for Alibre Design or a minimum of around \$5000 for competitors' software. Paul Grayson, Chairman and CEO of Alibre, Inc., says, "Alibre has the unique ability to offer its professional engineering products at a fraction of the cost of the competition. But by lowering the price to \$99, the offer is irrefutably the best in the history of 3D CAD. It's absolutely unheard of given the tools we're offering, without restrictions of any kind, and we expect a lot of people and businesses to take advantage. It's really that simple. We also know that our competition can't begin to come close to this, not even within a few thousand dollars."

Several 3D CAD vendors have recently launched initiatives that allow users access to a free or low cost version of their product, but all of these programs come with major drawbacks. For example, the

CIMdata PLM Industry Summary

SolidWorks Engineering Stimulus package, "offers a limited-term trial version of SolidWorks Student Design kit". The Autodesk Assistance Program offers "student licenses" and notes they are subject to the terms and conditions for student software found in the license agreement. Essentially these programs offer short-term, limited licenses and disallow you from using them for commercial purposes.

Alibre is not placing any restrictions whatsoever on the \$99 priced Alibre Design. Buyers can expect:

The full version of Alibre Design that they own forever

No gimmicks or usage restrictions

No time limits

No crippled features

No save restrictions

No watermarks

No restrictions of any kind, period

"This is the full blown deal. What this does is open up the market in a way that has never been attempted before. Tens of thousands of people are in the same boat right now: they need CAD software but can't afford multi-thousand dollar software in this economy. Many companies have canceled or suspended purchases of new CAD seats to preserve their bottom lines. Manufacturing companies have been hit especially hard and thousands of talented engineers are out of work. Whatever the case, long story short is that people are not buying new seats of \$5,000 plus CAD software. Not SolidWorks, not Inventor, not Pro/E or anyone else. Getting a full license for \$99 completely changes the game for these people and completely changes the game for CAD vendors," continues Grayson. "The best part is people that take advantage of this offer can use this product to make money. And we want them to. That's the point."

Individuals and businesses can learn about the deal at <http://www.alibre.com>.

 [Click here to return to Contents](#)

CADVenture, Inc. Announces Corporate Office Move to Mentor, Ohio, and Open House

10 August 2009

[CADVenture, Inc.](#), a leading [SolidWorks](#) 3D Mechanical CAD (MCAD) software reseller in North America announces that it will be moving and expanding its office headquarters to the Mentor area. The new facility is located at 7200 Center Street, Mentor, Ohio 44060 and will be home to their sales, service, training, and technical consulting professionals serving clients throughout Ohio, Pennsylvania, and Western New York. The three story facility consists of 15,600 square feet of prime office space including a customer care center, state-of-the-art training labs, and employee offices.

Business development efforts have yielded several key customers for CADVenture throughout our 26 year existence and include Swagelok, Nordson, Bettcher Industries, General Electric and NASA. This new location will enable current and future customers to take advantage of state-of-the-art technologies that we have to offer. In addition to the advantages for existing clients, the new facility will house a unique technology accelerator to help startup firms propel their business by taking advantage of shared technologies such as SolidWorks design and validation software, power2 design automation software, 3D scanning and printing for reverse engineering and presentation. CADVenture, Inc. is providing this

CIMdata PLM Industry Summary

accelerator program in conjunction with the City of Mentor.

CADventure will celebrate its expansion with an Open House on October 9th, 2009 from 3:00 P.M. - 5:00 P.M. For more information, please contact Traci Mazanec at 440-954-9589 ext 116 or email at traci@cv3ds.com.

“Our goal is to provide a positive and dramatic impact of services and a higher quality of training to our customers. We believe this new setting will allow us to rise to the forefront of technology and ultimately benefit our current and future customers. We look for our extensive move to be completed by the end of August.” said CADventure President, Ken Zebracki.

 [Click here to return to Contents](#)

CONTACT Software Explores New Approaches in Knowledge Management

11 August 2009

CONTACT Software GmbH and ATB Institute for Applied Systems Technology Bremen GmbH now start an ambitious research project in the field of knowledge management. This technology partnership is directed to explore innovative knowledge management solutions within distributed collaborative environments, shifting from solely user-driven data retrieval procedures to task- and situational driven methods as e.g. supplied by PDM/PLM systems such as CIM DATABASE. Thanks to its innovative approach, the two year project is funded in half by the Federal Ministry of Education and Research. Results from the research project will be incorporated in CONTACT’s future PDM/PLM platform releases.

The envisaged marketing of the new CIM DATABASE module for knowledge management promises a high return-on-investment potential due to its innovative approach and the expected unique benefits compared to similar PDM/PLM products on the market. Both CONTACT and ATB see especially the automotive, the Mechanical Engineering and Plant Construction industries with their engineering and production processes spanning various departments as prospective customers, but also public utilities, the telecom industry and other infrastructure providers. “If nothing else, we were also granted the ministry funds because we provided a sound exploitation concept”, comments Karl Heinz Zachries, managing director of CONTACT Software GmbH, regarding the potential of the now starting research project. Up to now, there is no task- and situation driven PDM/PLM-based knowledge management tool in the market, although tangible benefits are to be expected for both the individual user as well as the entire company.

Competence and strength of any enterprise are nowadays determined by an affluence of digital documents, distributed and administered in various IT systems and sub-systems. To capitalize on this know-how is of high priority for a company’s success, one reason more to make it available as simple and efficient as possible. Today, users must adhere to complex search algorithms and work through extensive hit-lists. Their retrieval procedure is usually pre-determined by their own knowledge of historic documents (usually their own), so that know-how of colleagues and from older projects is only sporadically utilized. In summary because data retrieval is most time-consuming and results by nature usually fragmentary, invaluable company know-how is often left untapped. An efficient knowledge management that incorporates third party know-how with the user’s context is indispensable within a networked and fragmented job environment.

This aspect as well as the fact that “usability” plays a decisive role is well considered by CONTACT and ATB with their innovative approach: within the framework of the research project, it is planned to

CIMdata PLM Industry Summary

develop a dedicated software assistant as part of the CIM DATABASE PDM/PLM platform. Ultimate goal is to make employees in a dynamic and context driven way all relevant company data across diverse IT applications accessible within the enterprise available.

About ATB

ATB is a non-profit research institute founded jointly by the Free Hanseatic City of Bremen and leading industrial enterprises in 1991. ATB specialises in systems analysis and design, knowledge management and software systems technology. It closely cooperates with industrial partners and conducts successful research on national and international level.

 [Click here to return to Contents](#)

Imaginestics and the CAC Join Forces to Research Powerful New Search Technologies

13 August 2009

Imaginestics, LLC has joined the National Science Foundation's Center for Autonomic Computing (CAC), Arizona site, to collaborate on breakthrough research that will increase the power and performance of Imaginestics' VizSeek shape search engine technology.

The Center for Autonomic Computing is a research center devoted to the development of methods, architectures, and technologies for computing systems or applications that implement autonomous behaviors, and it is funded by the Industry/University Cooperative Research Center program of the National Science Foundation (NSF), as well as CAC members from industry and government, and university matching funds. "Autonomous behaviors" are those that a computing system uses to adjust itself to changing conditions, allowing for minimal management while reducing cost and risk. Examples might include systems that protect themselves against attack or those that detect disruptions from hardware or software failure and recover automatically. According to Dr. Salim Hariri, director of the NSF CAC Arizona site, "the goal of the CAC is to advance research and development of autonomic computing through partnership with large and small companies such as Imaginestics, so that the advances we make today can have a real and tangible effect in the technologies used in industry tomorrow."

Imaginestics' VizSeek shape search technology is a powerful tool for users to search parts and components in often large and cumbersome databases, using visual rather than verbal criteria for searching. Recognizing that existing methods of data storage, search, and retrieval could be optimized in a new way, Imaginestics joined the CAC in early 2008 to collaborate on research in high-dimensional multi-media data structures that would dynamically change in structure, thereby speeding the search process and increasing the scale of the engine's search power. Jamie Tan, co-founder and CTO of Imaginestics, predicts that, "this partnership will allow us to take a leap forward in developing new high-performance methods for robustly finding objects in images using 3D models and add significant muscle behind our carefully honed visual search technology, making it an invaluable tool in the engineering and manufacturing industries, as it fills a need currently unmet by today's verbal search technologies."

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 on-line communities of interest and providing a catalyst for identifying business opportunities. VizSeek solutions are currently used by top government agencies and industrial leaders. The privately held company is headquartered at the Purdue Research Park in West

CIMdata PLM Industry Summary

Lafayette, Indiana. More information on VizSeek and its products is available at <http://www.vizseek.com>.

 [Click here to return to Contents](#)

Lattice Technology Releases Chapters 7 and 8 of its New Lean Manufacturing Book, Available Free of Charge

10 August 2009

Lattice Technology released Chapters 7 & 8 of the new book, “Improving Lean Manufacturing Through 3D Data” by Dr. Hiroshi Toriya.

First published in Japan in late 2008, this book is targeted at manufacturing executives and educators trying to work out new strategies to build greater productivity and efficiencies into existing manufacturing processes. The book covers a wide range of case studies from leading Japanese manufacturers, along with recent survey data, to build understanding of how manufacturing can be enhanced using 3D data in downstream processes. It also explains the evolution of 3D and IT in the industry, and shows how it can be leveraged into other areas of manufacturing that are still using traditional processes.

Chapters 7 and 8 both delve deeply into Niigata Power Systems’ vision, strategies, and tactics for improving corporate-wide productivity. Niigata Power Systems develops and manufactures large engines, turbines, major plant and so on. In 2002, the company focused on using 3D data to deliver productivity improvements across the entire operation. To achieve this, it implemented the Pro/ENGINEER 3D CAD software from PTC, and the XVL applications from Lattice Technology to perform digital mockups of the massive 3D data, design reviews, customer reviews and also transformed the way the Shipping and Sales departments handle the products. As a result of its efforts, 3D is now used constantly in departments that are traditionally unrelated to 3D CAD data, with 3D XVL data playing a significant part in better shipping, sales and assembly processes both on- and off-site.

An example of Niigata’s sales demonstrations of entire 3D plant is freely available for viewing at: http://www.lattice3d.com/book/img/niigata/niigata_1_book.html

This latest book is available free and exclusively from Lattice Technology and 2 chapters per month will be released to registered recipients. The book delivers 13 Chapters which include case studies on major manufacturers including Toyota, Brother Industries, Niigata Power Systems, Alpine Precision Inc., and more.

To find out more, view selected pages and to register to download the book, visit Lattice Technology’s [Book Resources page](#).

 [Click here to return to Contents](#)

LEDAS Supports Research on Future CAD at Purdue University

10 August 2009

LEDAS Ltd. announced that ongoing research at Purdue University (USA) in the field of CAD user interfaces, partially supported by LEDAS, has recently resulted in creation of a prototype CAD system that allows users to draw as natural as possible just as one would draw on paper.

CIMdata PLM Industry Summary

In 2007 LEDAS granted a free academic license for its geometric constraint solver LGS 2D to Purdue University. Since then a research group under supervision of Prof. Karthik Ramani has successfully integrated LGS 2D with their prototype with presenting the results at two scientific events. The first presentation was done at the Sixth Eurographics Workshop on Sketch-Based Interfaces and Modeling, Aug 1-2, New Orleans, USA, co-located with SIGGRAPH 2009. Another paper will appear in the proceedings of the ASME 2009 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE 2009, August 30 - September 2, 2009, San Diego, CA, USA.

“Beautification of freehand sketches is integral for building robust sketch understanding systems and sketch-based interfaces for CAD,” said Sundar Murugappan, a Ph.D. student and co-author in both the publications. Professor Ramani added that “Many of the current methods for beautification do not consider some important information implied in the sketches such as spatial relationships (geometric constraints) between primitives. We present our ongoing work, a suggestive interface for constraint-driven beautification of freehand sketches which provides multiple interpretations of the freehand input, from which the user can choose the intended result.” The research was supported by the U.S. National Science Foundation (NSF) Computer and Information Science in Engineering (CISE) – Information and Intelligent Systems (IIS).

“Purdue University is famous for its world leading researchers in the field of computer-aided design and geometric constraint solving, and we are very proud to support their research aimed at building user interfaces for tomorrow’s CAD systems,” said David Levin, CEO and founder, LEDAS Ltd. “We are also supporting several universities in Russia and China by granting them free academic licenses for our computational software. A combination of our industrial experience in the field of constraint-based design with state-of-the art research results in invention of the new generation CAD systems.”

In the framework of its academic licensing program LEDAS grants free licenses for 2D and 3D versions of its geometric constraint solvers LGS to non-commercial Academic and Educational organizations. A Free Academic Licensing approach gives researchers and students a unique opportunity to access this state-of-the art parameterization technology.

About LGS 2D

The LGS 2D geometric constraint solver is a computational module, engineered to support two-dimensional history-free parametric design in CAD and computer graphics systems, as well as many other applications that require geometric and dimensional relationships to be set between geometrical objects. LGS 2D supports creation and modification of geometric models by means of (explicit or implicit) constraints, which are solved simultaneously. To learn more about LGS 2D, visit LEDAS web-site at <http://ledas.com/products/lgs2d/>

 [Click here to return to Contents](#)

Mentor Graphics and King Abdulaziz City for Science and Technology in Saudi Arabia Cooperate in Developing Electronics Design Technology

12 August 2009

Mentor Graphics and King Abdulaziz City for Science and Technology (KACST) in Saudi Arabia, announced their cooperation for the promotion and development of Electronics Design Technology in Saudi Arabia. This cooperation is based on the agreement signed by both parties to establish the Advanced Microelectronics Technology Center (AMTC) at KACST. This Center will contribute to the

CIMdata PLM Industry Summary

Saudi National Strategic Plan through the Advanced Technology Program (ATP), the Professional Training Program (PTP) and the Incubation Support Program (ISP). These programs are the first steps of cooperation between KACST and Mentor Graphics, with more programs running under KACST's AMTC to be initiated later. Under the initial agreement, Mentor Graphics will provide comprehensive design automation software as well as consulting and training services. As part of the agreement, the company will cooperate with government bodies, as well as extend its university outreach program in Saudi Arabia.

“The Kingdom of Saudi Arabia has developed a strategic national science and technology plan to be carried out over the next 20 years. KACST was assigned the responsibility of planning and managing the execution of the Science and Technology plan. This plan promotes and encourages research in many areas, a very important one being advanced technology in microelectronics,” explained Prince Turki Saud Mohamed Al-Saud, Vice President for research at KACST.

“[Mentor Graphics](#), one of the leading companies in the Electronics Design Automation (EDA) industry in the region through its Egyptian Development Center established in 1995, is pleased to be able to help build the Advanced Microelectronics Technology Center (AMTC). This cooperation framework will promote and encourage electronics design in the Kingdom of Saudi Arabia,” said Gregory K. Hinckley, President of Mentor Graphics.

Dr. Sami Alhamidi, the Electronics, Communications and Photonics Program Director at KACST emphasizes, “In order to initiate and establish an innovation cycle in the field of electronics design, the electronics community in the kingdom must become proficient with state-of-the-art electronic technologies. Therefore, one of the principal drivers for the successful implementation of the microelectronics R&D plan is the cooperation with world-class global companies specialized in EDA technologies such as Mentor Graphics.”

“To support KACST in building their expertise in electronic design methodologies, Mentor Graphics will provide access to certain expertise that already exists in its branch in Egypt. Our consulting division will also provide its knowledge and experience to selected teams at KACST and will cooperate on research in advanced technology areas with KACST and local universities,” explains Dr. Hazem Eltahawy, Managing Director of the Egypt operation.

About KACST

KACST is an independent scientific organization administratively reporting to the Prime Minister. KACST is both the Saudi Arabian national science agency and its national laboratories. The science agency function involves science and technology policy making, data collection, funding of external research, and services such as patent offices. KACST has currently over 2,500 employees. Visit KACST online at <http://www.kacst.edu.sa>.

 [Click here to return to Contents](#)

Siemens PLM Software Invests in ASU to Help Engineering Students Better Prepare for Joining Workforce

11 August 2009

Arizona State University (ASU) will enrich its engineering education and provide students more advanced preparation to enter the workforce through an in-kind software grant from Siemens PLM Software to ASU's [Ira A. Fulton Schools of Engineering](#) announced today.

CIMdata PLM Industry Summary

With a commercial value of nearly \$245 million, it is the largest in-kind grant in the university's history.

The grant was made through the Siemens PLM Software Global Opportunities in Product Lifecycle Management program – called GO PLM™ – and includes engineering software, student/instructor training and specialized software certification programs.

“Advanced tools such as the PLM software are essential to preparing our engineers for the challenges they will face in an increasingly complex and global economy. They will be able to meet demand for designing and analyzing systems that transcend traditional boundaries,” said Deirdre Meldrum, dean of the Ira A. Fulton Schools of Engineering.

“This gift from Siemens PLM Software aligns with our vision of leading engineering education and research that sparks innovation, and enables engineers to improve the quality of life,” Meldrum said.

“Today's leading manufacturing and technology companies compete on the basis of time to market, product cost, quality and innovation,” said Dave Shirk, executive vice president of Global Marketing for Siemens PLM Software. “It's quite clear that today's best students in top programs, like the program at ASU, benefit through opportunities to gain experience with technology that supports these objectives.”

ASU now joins other leading universities with which Siemens PLM Software has similar academic partnerships or has made similar in-kind grants, including the Massachusetts Institute of Technology (MIT), the University of California at Berkeley, Michigan State University, Brigham Young University, Rutgers, Virginia Tech, Carnegie Mellon and Purdue.

ASU Graduate student Adam Dixon said training on Siemens PLM Software's technology “will make [ASU](#) engineering grads more marketable. It will definitely open more doors.”

“Many companies use the software because of its superiority,” said Dixon, who is studying engineering design and works in ASU's Design Automation Lab. “Having access to this innovative technology will give us a clear advantage in the workforce.”

Jami Shah, a professor in Ira A. Fulton Schools of Engineering and director of the Design Automation Lab, said Siemens PLM Software “has an extremely generous academic license program. Siemens PLM Software realizes the important responsibility industry has in contributing to higher education.”

“Our mechanical and aerospace engineering graduates go to work for major engineering companies that use these kinds of high-end computer-aided design and finite element analysis software packages,” Shah explained. “This is why it's important to instruct students with tools such as Siemens PLM Software's NX™ software.”

“We've used Siemens PLM Software's state-of-the-art software products for nearly 25 years,” he said. The academic license program allows students to use engineering software analysis packages such as NX, I-deas™ and Nastran® to perform critical engineering tasks such as stress and failure simulation, vibration and dynamics analyses and thermal analyses.

“The software is a great teaching tool because it makes everything transparent,” Shah said. “It clearly shows the student how the results of any design work or engineering analysis were computed. You can see and control the workings of the software packages.”

Troy Howe, a senior studying mechanical and aerospace engineering, said the computer-aided design program “has been invaluable to my progress.”

Howe uses the program at work to build three-dimensional models and drawing schematics.

CIMdata PLM Industry Summary

“My training in class gave me the confidence and ability to complete my projects quickly and accurately,” he said. “It has helped me draw praise for the quality of my work. So I’m looking forward to next semester when I’ll take the advanced computer-aided engineering class with the new PLM software.”

GO PLM Program

[Siemens PLM Software’s GO PLM™](#) initiative leads the industry in the commercial value of the in-kind grants it provides and brings together four complementary community involvement programs focused on academic partnership, regional productivity, youth and displaced worker development and the PACE (Partners for the Advancement of Collaborative Engineering Education) program. GO PLM provides PLM technology to more than 1,000,000 students yearly at nearly 10,200 global institutions, where it is used at every academic level – from grade schools to graduate engineering research programs.

 [Click here to return to Contents](#)

Events News

Bentley AutoPIPE Nuclear V8i Answers Need for Rigorous Nuclear Plant Design, Expedited Construction, and Enhanced Safety

11 August 2009

Bentley Systems, Incorporated announced that Bentley AutoPIPE Nuclear V8i, powered by ADLPipe, is the focus of a Be Connected seminar that will be available online beginning Sept. 16, 2009. To register, visit <http://connected.bentley.com>. The Bentley AutoPIPE Nuclear V8i front-end plant design tool is helping a growing number of engineers, constructors, and owner-operators conduct extensive and more accurate modeling and stress analyses on aging and new nuclear power stations. Among current users are Washington Group; Shaw Stone & Webster, a unit of The Shaw Group Inc.; American Electric Power; and AREVA NP.

To address the widely anticipated need for field-proven design methods leading to rigorous nuclear plant designs, expedited construction, and enhanced safety, AutoPIPE Nuclear V8i combines ADLPipe – the a widely used nuclear piping analysis engine – with the modeling environment of Bentley AutoPIPE. One of the many benefits of Bentley AutoPIPE Nuclear V8i stems from its use of a modeling interface with unique graphical-object, point-and-click, and copy-and-paste technologies. This enables design and engineering professionals to quickly and accurately make modifications and find solutions to problem areas.

“With global demand for electricity expected to double by 2030, the cost of carbon-based energy sources climbing, and much of the world taking steps to sustain the environment by reducing carbon emissions, the building of new nuclear power stations is once again an attractive and viable option,” said Santanu Das, Bentley vice president, Structural Engineering Group. “As aging nuclear plants close, and the demand for new stations increases, a sizable investment in nuclear power plants by the U.S., Europe, India, and China is anticipated. With the innovative capabilities of AutoPIPE Nuclear V8i, powered by ADLPipe, Bentley is well positioned to support this growing commitment on the part of governments to the renaissance of nuclear power plant construction.”

The dynamic features of Bentley AutoPIPE Nuclear V8i, powered by ADLPipe, include:

- Comprehensive analysis capability, including ASME NB 3600 Class 1, ASME NC 3600 Class 2,

CIMdata PLM Industry Summary

ASME ND 3600 Class 3, material properties database, Class 1 components and joint type, rupture stress criterion, and comprehensive fatigue evaluation;

- Bentley's rigorous quality assurance and reporting program that's in accordance with ASME NQA-1, ISO 9001, CSA N286.7-99, ASME N45.2, and 10CFR50 application standards;
- ASME NB and NC code years that date to 1972 for maintenance and operation on existing nuclear plants;
- Japanese JSME PPC Class 2 piping code;
- Advanced analysis features integrated through wall thermal gradient, fluid transient, seismic response spectra enveloping, and steam relief analyses;
- Bidirectional integration with STAAD.Pro for combined piping and structural analysis, resulting in more accurate engineering designs.

The software also includes user-defined static-load sets providing unlimited static analyses that specify different design scenarios, as well as automated and user-defined stress combinations providing filtering capabilities that identify and solve complex problems quickly. In addition, users of Bentley AutoPIPE Nuclear V8i will benefit from reliable 3D CAD interoperability with AutoPLANT, PDS, PDMS, PlantSpace, ProjectWise Navigator, and SmartPlant 3D for fast and accurate model creation, and the ability to import and convert existing ADLPipe models using the built-in ADLPipe Translator. Interoperability with the ProjectWise collaboration system enables users of AutoPIPE Nuclear to easily manage, find, share, and visualize CAD and geospatial content, project data, and office documents.

Bentley AutoPIPE Nuclear V8i is part of Bentley's V8i software portfolio for infrastructure, which was released last November. Encompassing products for all of the solution communities served by Bentley, including roads, bridges, rail and transit, campuses, factories, buildings, power generation, mining and metals, oil and gas, water and wastewater, electric and gas utilities, communications, and cadastre and land development, the V8i portfolio leverages and extends core capabilities of its new interoperability platform to provide the breadth and depth of technology needed for fully integrated project delivery. Developed as a collective whole, the V8i software portfolio facilitates streamlined workflows among multiple disciplines and across project teams throughout the infrastructure lifecycle.

For additional information about AutoPIPE Nuclear V8i, powered by ADLPipe, visit <http://www.bentley.com/en-US/Products/Bentley+AutoPIPE>. To register for the AutoPIPE Nuclear V8i Be Connected online seminar, visit <http://connected.bentley.com>.

 [Click here to return to Contents](#)

Comet Customer Presents New Project Results at SPIE Optics+Photonics Conference

6 August 2009

Dr. David Thomas, senior project engineer at The Aerospace Corporation, presented how the Comet™ workspace streamlined their interdisciplinary analysis process to achieve significant cost and time savings at the SPIE conference at the San Diego Convention Center on August 6, 2009.

Dr. Thomas' paper "Collaborative Design and Analysis of Electro-Optical Sensors" details how complex products are best developed in a collaborative design environment where engineering data and CAD/CAE results are shared across engineering discipline boundaries. His paper and presentation describes how Comet's performance engineering workspace allowed Electro-Optical (EO) sensors to be

CIMdata PLM Industry Summary

developed in a streamlined manner by rapidly conducting integrated Structural/Thermal/Optical (STOP) analyses of a critical lens subassembly in a flight payload.

Comet software brought a template-based approach to the multi-disciplinary team of engineers which was used to drive existing structural, thermal and optical software tools for the validation of an unconventional thermal control approach for maintaining focus of the visible channel of a flight payload over its expected thermal environment. This integrated analysis process provided superior physical insight into how the thermal control approach actually works.

Dr. Thomas' team was able to perform interdisciplinary system level analysis in a single day using Comet's integrated STOP process – using their old process this same complex analysis would take several days or weeks to complete. The use of templates allowed rapid turnaround of each analysis, providing near real-time support of the thermal-vacuum tests being conducted. Additional savings will be achieved when the template is updated and reused for future analysis work on this project and on other, similar projects.

Dr. Thomas' paper and presentation is available for download at <http://www.cometsolutions.com/moreinfo.html>.

 [Click here to return to Contents](#)

Delcam, Huron and Sandvik Resellers Promote High-Speed Machining in Quebec

11 August 2009

Delcam reseller Les Tech, Huron Canada and Sandvik representative Pilot PB will demonstrate the latest developments in high-speed machining at a series of free seminars in the Quebec region during September. The seminars will take place in Granby on 9th September, in Trois-Rivières on 15th, in St-Georges de Beauce on 16th, and in Québec on 17th. At each event, Huron will demonstrate its latest high-productivity machine, the Huron SX-4, Pilot PB will describe the new family of high-speed cutting tools from Sandvik and Les Tech will show the recently-launched version 10 of Delcam's PowerMILL CAM system.

PowerMILL version 10 offers Delcam's fastest-ever toolpath generation on multi-processor computers, giving greatly increased user productivity. 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 dramatically.

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.

Full details on the new version can be found on the PowerMILL 10 release centre – <http://www.powermill.com/rc10>. This also includes a white paper on the use of multi-threading and background processing, details on recommended hardware for PowerMILL 10, a return-on-investment calculator showing how quickly an investment in the software can be recovered, and a number of customer video testimonials.

The main benefit of PowerMILL 10 is that 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. For example, it is no longer necessary to wait for a complete roughing path to be produced before work starts on programming the rest-roughing

CIMdata PLM Industry Summary

operation. Similarly, the user can be setting the parameters needed to machine one area of a part, while toolpaths are being calculated in the background for machining a second area with a different strategy.

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. This approach can be used with single core equipment but the benefits are even greater with computers having two or more cores.

The new multi-threading capabilities allow individual calculations to be divided between the cores in a multi-core machine. This improves calculation times significantly so increasing user productivity, reducing any down-time where machine tools are waiting for NC data and minimising lead times.

The extent of the savings will depend on the size and complexity of the part being machined and on the programming strategies being used. Tests at Delcam indicate that a dual core computer will perform raster machining calculations in around 55% of the time taken by a single core machine. A quad core machine will complete the calculation in around 35% of the time and an eight core machine in around 25% of the time.

 [Click here to return to Contents](#)

Delcam to Show Jewellery Software at JCK Toronto

13 August 2009

Delcam will show the latest developments in its ArtCAM JewelSmith CAD/CAM software for the jewellery industry on booth 917 at the JCK Toronto exhibition to be held from 13th to 15th September. ArtCAM JewelSmith is an integrated design and machining software program created for jewellers to create intricate custom jewellery pieces or complete jewellery lines.

Known for its ease of use, ArtCAM's structure utilizes a number of layers to represent different elements of a design, or to form intricate and complex patterns. Tools like the 'Project Tree' can help keep all the related models together for quick and accessible design of a family of jewellery. Duplication of any design element into another jewellery piece (for example from a ring to a bracelet or necklace) can be implemented very quickly.

To incorporate gems into the jewellery design, JewelSmith takes the dimensions of both calibrated and un-calibrated gems and creates caps to securely hold them in place. This saves the jeweller's time and allows him to focus his knowledge and skill on developing other design ideas.

Modelmakers can sculpt their designs, either by using ArtCAM's sculpting toolbox or by customizing their own sculpting brushes using imported textures or their own designs. For hand engravers, ArtCAM can replicate their current working methods by utilizing a Wacom tablet. With this device, as more pressure is applied by the pen to the tablet, more material can be removed from, or added to, the design.

An important new feature for producers of corporate giftware is the 'Embossing Tool'. To create a coin pendant, for example, the user can take a 3D model and tilt or rotate it to give the required perspective, creating the illusion of distance between one area and another. Within seconds the 'Embossing Tool' then reduces the model's depth to those typically used for coinage while maintaining the prominent details and illusion of depth from the original model.

Future developments scheduled will be seen in ArtCAM 2010, due to be launched in October of 2009. These will include a new modernized graphical user interface, more direct interactivity with 3D models,

and improvements to the core performance by utilizing CPU multi-threading.

 [Click here to return to Contents](#)

Delcam's New PartMaker to be Previewed at EMO

10 August 2009

[Delcam](#) will preview the latest version of PartMaker CAM software for programming turn-mill centres and Swiss-type lathes at the EMO exhibition to be held in Milan from 5th to 10th October. Major highlights of the program, which is scheduled for release during fourth quarter of 2009, include the ability to perform five-axis simultaneous milling on multi-axis lathes, more powerful milling functionality and better ability to program thread whirling. A host of additional productivity, user-driven enhancements will also be featured.

“PartMaker 2010 provides the technology PartMaker users will need to stay on cutting edge of manufacturing and ahead of their competition by employing the most advanced milling strategies available on the market today,” said PartMaker Division President, Hanan Fishman. “With the ability to program simultaneous 5-axis milling operations on multi-axis lathes, PartMaker users will be able to machine even more complex parts than ever before, while the more powerful 2 ½ axis milling functionality and the other improvements will boost their productivity. These new milling capabilities, along with enhancements such as improved support for thread whirling, will be especially beneficial to a large segment of PartMaker users involved in the manufacture of medical devices.”

“While five-axis simultaneous milling is still new in the arena of Swiss-type lathes, multi-axis lathes with five-axis simultaneous milling capability are becoming more commonplace in small parts manufacturing. PartMaker 2010 positions PartMaker users to take advantage of the growing complexity of milling on multi-tasking machines,” commented Mr. Fishman.

The five-axis simultaneous milling functionality in PartMaker 2010 is based on well-proven technology used in PowerMILL. Sharing the vast technology pool of its parent company, has allowed the PartMaker development team to deliver more advanced manufacturing technology to the market place more quickly.

Five-axis swarf machining

PartMaker Version 2010 features an optional module to perform simultaneous five-axis swarf milling on multi-axis lathes. Swarf machining allows side cutting with an endmill while proceeding along the surface of a part, for example, the sidewalls of a tapered rib. The benefits over traditional three-axis milling strategies include significantly reduced machining time and improved surface finish. Employing swarf machining can allow parts to be completed in a single set-up and can enable more advanced deburring techniques, thus eliminating time-consuming and laborious additional finishing.

The new swarf machining functionality in PartMaker lets users take advantage of B-axis lathes with five-axis simultaneous machining functionality. PartMaker's five-axis swarf milling is powerful, yet easy to use, allowing the user to apply this advanced machining technique in an intuitive manner.

PartMaker and PowerMILL Integration

PartMaker 2010 will offer the option for a direct interface to PowerMILL giving users access to all complex the five-axis machining strategies currently supported by the software, including blade and blisk machining, and to the program's highly-sophisticated three-axis strategies. Toolpaths generated in

PowerMILL will be able to be imported directly into PartMaker, where they can be manipulated and synchronized on PartMaker's Process Table, and simulated and post-processed directly from the PartMaker working environment. This integrated solution of two market-leading technologies assures users that they will never be limited in their ability to program and optimize parts in the most efficient and powerful way possible.

More powerful milling strategies

PartMaker Version 2010 features a number of more advanced 2½ axis milling routines, including a variety of high-speed machining strategies, trochoidal milling, rest area machining, face milling and a more powerful pocketing strategy among others. These additional milling strategies are also based on proven PowerMILL technology and have been adapted to work inside of PartMaker in an efficient and easy-to-use manner.

Improved Thread Whirling Programming and Simulation

PartMaker Version 2010 includes an improved facility for automating the programming and simulation of thread whirling, a technique often used in the manufacture of "bone-screw" threads as well as other specialty threads commonly found on surgical implants. Thread whirling on Swiss-type lathes allows threaded products to be produced faster because it only requires a single pass to complete the thread, whereas traditional routines require multiple passes to achieve the same result. Additionally, because of the rigidity afforded by a sliding-headstock Swiss-type lathe, thread whirling can also provide higher and more repeatable precision.

PartMaker 2010 includes specially-developed algorithms to automate the programming of this unique manufacturing technique. Then, PartMaker's 3D simulation prevents any risk of collision during machining, a potential problem with a thread whirling attachment as they can often be quite large inside the working envelope of the machine.

Additional Productivity Enhancements

PartMaker 2010 also includes a number of user-requested productivity enhancements to existing functionality. Among these improvements are: enhanced grooving functionality, more powerful and flexible threading capability, improved solids-based programming and additional CAD functionality. Additionally, 2D tool path selection has been made more automatic to speed up programming times and a number of improvements made to the software's tool database.

 [Click here to return to Contents](#)

Gerber Technology to Focus on Efficient PLM and CAD Solutions at its Eleventh Annual Software Users Conference

11 August 2009

Gerber Technology announced details regarding its Eleventh Annual Software Users Conference. The event, which is now open for registration, will be held October 8-9 at the Gaylord Texan Hotel and Convention Center in Dallas, Texas. This year's conference will focus on Gerber Technology's PLM and CAD solutions. Sessions will showcase how utilizing these products and processes can mean big improvements in efficiency and productivity as well as reduced waste – helping companies in the apparel and soft goods industries work toward their green initiatives.

Gerber Technology's Software Users Conference remains one of the largest events of its kind. Few other

CIMdata PLM Industry Summary

forums, trade shows or conferences are able to offer as many specialized sessions devoted to software trends, real-world applications, hands-on learning and case studies in the apparel industry.

“We are very excited about this year’s users conference. We have many new products, processes and examples to share. This event will be highly educational and beneficial for all those attending,” said Bill Brewster, Gerber Technology’s Vice President, Global Marketing and Product Management. “As always this venue allows us to interact face-to-face with our users – listening to their experiences, successes and recommendations.”

The 2009 event features all new sessions showcasing efficiency and productivity available to those in the apparel and soft goods industries. “Our goal this year is to illustrate how all our software products integrate with one another as well as with our customers business practices to ensure a more lean and streamlined workflow,” states Brewster. Sessions will be focused on two main areas, PLM and CAD. Multiple case studies will also be presented by Gerber Technology customers who have successfully implemented CAD/PLM software and have seen dramatic results in their business practices. Attendees will have the option to pick and choose sessions that are beneficial to their area of expertise and interest.

New session topics devoted to Product Lifecycle Management include hands-on training for webFolio, webView and webPDM. In addition Gerber Technology will provide sessions focused around business objectives serviced by its entire PLM software suite. Attendees will learn what’s involved in PLM and how Gerber’s suite addresses key areas affecting a company’s bottom line. These include improved visibility, new approaches to costing, streamlining processes and connectivity within the Gerber PLM suite.

New sessions focused on Gerber’s Computer Aided Design programs include those focused on pattern design, marker making, data sharing and collaboration, streamlining marker production with AccuNest, and the ever-popular, Ask the Expert discussion panel.

Sample topics to be covered at the 2009 Gerber Technology Software Users Conference include:

- Insight: PLM for the Future
- Lean Back: Streamline using webFolio
- Speed Racer: Mach4 Features of webPDM 6.0
- We Need to Talk: Connectivity within the PLM suite
- Passing the Baton: PLM & CAD
- Show Me the Money! PLM Costing
- Straight to the Source: Ask the AccuMark Experts
- Lean Green Costing Machine - AccuMark
- AccuMark Global Communication...Getting Lost in Translation?
- AccuMark Features for Automated Cutting
- Fast and Furious: Streamlining Marker Production with AccuNest
- Just a Click Away: Using the Calculator in Pattern Design

Customer Appreciation Gala

On the night of October 8, The Glass Cactus, one of Dallas’s most entertaining nightclubs, will

CIMdata PLM Industry Summary

transform into a western chic celebration conveniently located on the Gaylord Texan grounds. There will be multiple attractions throughout the night that play off the style and spirit that only Texas can offer. Featuring music, décor and fun you would expect out of the wild, wild, west. When the Texas sun sets, the Glass Cactus Nightclub comes alive with live entertainment and dancing.

For more details on this year's users conference, including sessions, hotel, registration and the customer appreciation gala please visit: <http://www.gerbertechnology.com/usersconference.htm>.

 [Click here to return to Contents](#)

JETCAM to Showcase Latest Nesting and Material Management Software at Fabtech 2009

13 August 2009

JETCAM International s.a.r.l. will be showcasing the latest release of its Expert CAD/CAM and nesting software alongside its new material management and application server suite at booth #6032 at Fabtech International in Chicago from 15th through 18th November.

Now in its 23rd year of development the latest version of JETCAM Expert will be demonstrated, with new features such as remnant sheet management, more interfaces to CAD systems and further improvements to nesting efficiency. JETCAM will again be offering companies a free nesting benchmark comparison, where they can compare the efficiency of JETCAM over their current nests. The results of this can often demonstrate a clear return on investment of months, without factoring other savings such as reductions in machine runtime or staff time.

The company will also be showcasing its forthcoming Material Life Management (MLM) module, the first to be used with JETCAM's Application Server system. MLM can be used to track the movement of either rolls or sheets of material, such as composite or sheet metal, through the cutting process and onto the finished part. This is extremely important for companies where traceability is paramount.

JETCAM's Application Server allows modules such as MLM to interact in real time with other modules, providing live data to all relevant staff/systems within the production process. This includes CAD, works orders lists, reporting and integration to legacy data systems such as MRP.

Martin Bailey, Marketing Manager commented; "Fabtech has always been an excellent platform for us when bringing new products to market. Even at the height of the recession, last year's show delivered a high number of visitors to our booth that were interested to see how investment in software could deliver quick payback. With companies concentrating on efficiencies more now than ever before we feel that this year's show will mark a notable change on what visitors come to see."

 [Click here to return to Contents](#)

OPEN MIND Technologies AG at EMO 2009 in Milan, Italy

10 August 2009

Leading technological CAD and CAM solutions for the complete machining of workpieces

At EMO 2009 (Hall 9, Stand C24) in Milan, OPEN MIND Technologies AG will present its latest products for developing and optimising seamless process chains in digital manufacturing. The highlight at this year's exhibition is the release of hyperMILL® 2009.2 with CAD integrations for Autodesk® Inventor® and SolidWorks®. Visitors will also gain an insight into the new intelligent functions offered

CIMdata PLM Industry Summary

by the upcoming hyperCAD® version 2009.1.

Faster manufacturing on mill and mill/turn machines with high process reliability and resulting surface quality:

At EMO 2009 in Milan, OPEN MIND Technologies AG will demonstrate its leading range of technological solutions, including CAM systems, CAD software and CAD/CAM-integrated environments, CAD and CAM programmers will benefit from efficient operating concepts that incorporate intelligent technologies for automated programming. These solutions implement leading high-tech CAM strategies for complete machining, including 5axis machining with fully automated collision avoidance. As a CAM expert, OPEN MIND's product range also includes powerful postprocessor technology that can be tailored to suit the machine in question.

Notable highlights from OPEN MIND at EMO (Hall 9, Stand C24):

hyperMILL® in Autodesk® Inventor®, hyperMILL® for SolidWorks®

The full functional range of hyperMILL® is available as a CAM solution for hyperMILL® in Autodesk® Inventor® and hyperMILL® for SolidWorks®. OPEN MIND's CAD-integrated CAM solutions offer users innovative functions and extensions such as an optimised fast travel concept, extended job list, improved tool database as well as transformation and mirroring functions. Thanks to the integration, the user interface of the CAM application takes on the familiar 'look and feel' of the CAD software. This increases the speed and efficiency of CAM programming, prevents errors and reduces the user's overall workload.

The CAD-integrated OPEN MIND solution has been certified by Autodesk Inc. for use with Autodesk® Inventor®. The CAD software provider has thus confirmed the full integration and data associativity of hyperMILL® for its CAD suite.

The CAD integration of hyperMILL® for SolidWorks® has been approved as a "Certified Gold Product" by the Dassault Systèmes SolidWorks Corp. due to its seamless integration, quality and interoperability.

Design more efficiently with hyperCAD® 2009.1

The new OPEN MIND release hyperCAD® includes a plethora of intelligent functions and extensions, which enable increased transparency and fast, reliable designing. It includes the following functions:

Creating templates

Project-specific CAD environment: hyperCAD® 2009.1 allows users to create a new model with several templates, which define the project-specific data. The settings for the layer, title block or colours, for example, are already predefined here. Previously, this data had to be entered by the user. Now, all data for the relevant project is preset in hyperCAD® right from when the programme is started. This results in enormous time savings for users.

Hiding all inner objects

This new function allows the user to select all elements that are not visible using the mouse and hide them in the model. This reduces model data, making the model more transparent and therefore easier to machine. Since the computer now has less data to manage, the effective speed of the system also increases.

Colours in the solid

CIMdata PLM Industry Summary

Industry standards are supported: Surfaces are displayed in different colours in a solid. Such colour displays are well established in the automotive industry and are used for transferring tolerances, fittings, machining types etc. when exchanging data. This increases clarity, simplifies the selection of surfaces using the model's colour information and allows the milling strategy to be automatically identified. If the user switches between solid and surface models or vice versa, all colour information is retained. This enables efficient machining and allows data to be exchanged between different CAD systems.

“Reshape” functions

Hybrid technology: The “reshape” functions allow STL data models to be modified. This functionality can be used to close holes, redefine STL mesh size or create boundaries. The “reshape” functions provide users with a tool that they can use to further process STL data directly. This was not previously possible. Hybrid processing of surfaces, solids and STL data reduces the number of CAD systems required and facilitates data exchange. Surface reconstruction can also be used to process the STL data in order to provide an improved design basis.

Additional information is available on request or from our website at <http://www.openmind-tech.com>.

 [Click here to return to Contents](#)

Register Now for Adobe-Anark Webinar Wednesday, August 26, 2009 10:00 AM PDT, 1:00 PM EDT

August 2009

Register now to attend Adobe's upcoming webinar and discover new methods to aggregate and combine complex CAD models and related product information sourced from PDM, ERP, SCM, and MES databases into secure, standards-based 3D PDF documents. Join Adobe and Anark to explore the "**Create, Author, Publish, and Consume**" workflow and see a live demonstration of how Adobe-Anark manufacturing solutions "captures the knowledge" required to share product information and ensures that the data you share is always up to date, easily distributed outside the corporate firewall, and protected from unauthorized recipients.

PLEASE JOIN ADOBE and ANARK for this special joint webinar hosted by Adobe on **Wednesday, August 26, 2009 at 10AM PDT, 1PM EDT**. This live webinar will demonstrate how to cut costs, complexity, and risk when sharing and collaborating on 3D data between OEM's and suppliers.

This webinar will also provide a first look at **Anark Core 3**, Anark's 3D CAD transformation platform. See how this combined Adobe-Anark solution enables companies to produce and distribute high-precision and lightweight 3D PDF documents for **design collaboration** and **data exchange** applications.

If you're interested in [learning more](#) about this new Adobe-Anark partnership and why PDF files are the ideal container for securely sharing and collaborating on 3D CAD data, please join this event. Be sure to **REGISTER NOW** to reserve your spot.

 [Click here to return to Contents](#)

Small and Medium Businesses: Webcast on Demand: Virtual Prototyping - The Facts & Myths

August 2009

The economy is creating more challenges than ever before for small and medium businesses. Yet, even with these challenges, engineers must continue to create great products faster and cheaper in order for

CIMdata PLM Industry Summary

their companies to stay competitive.

In hard times like these, tightly organized product development processes can mean the difference between success and failure. Understanding the latest CAD technologies, using the best tools that allow you to allocate your resources properly, and following best practices to ensure proper communication between you and your colleagues -- all these can be decisive factors for your success -- and the success of your company.

This webcasts is shedding light on the realities of Virtual Prototyping and shares best practices from experienced engineers , highlighting modeling analysis and animation techniques to ensure designs perform as intended. Furthermore, it includes recent research of [CIMdata, Inc](http://www.cimdata.com), one of the leading analyst companies worldwide as well as practical examples in a live 3D CAD demonstration.

Registration: http://www.ptc.com/appserver/wcms/forms/index.jsp?im_dbkey=97800&icg_dbkey=4

 [Click here to return to Contents](#)

Specialized Programming at Oracle® OpenWorld 2009 Gives Customers and Partners Access to Oracle's Latest Advancements and Innovations

11 August 2009

News Facts

Customers and partners can take advantage of a wide range of specialized programming at the upcoming [Oracle® OpenWorld](#) conference to be held October 11-15, 2009 at Moscone Center in San Francisco.

Oracle will continue to offer the popular [Oracle Develop](#) program and this year has added the Primavera Program which focuses on [Oracle's Primavera Enterprise Project Portfolio Management solutions](#).

These focused programs will allow attendees to create customized agendas that fit with their individual business needs and desired knowledge areas, enabling

Oracle Develop: Oracle OpenWorld's Premier Developer Program

Attendees can expand their knowledge at Oracle Develop, being held October 11-13, 2009 at the Hilton San Francisco.

This year's Oracle Develop program will feature keynotes from Oracle Database Architect, Thomas Kyte, as well as Oracle Fusion Middleware Chief Architect and Senior Vice President, Ted Farrell.

World-leading experts will deliver more than 130 sessions about the latest development trends and technologies for service-oriented architecture (SOA), Extreme Transaction Processing (XTP), virtualization and Web 2.0.

Attendees will advance their skills in scores of expert-led, in-depth technical sessions on Java, .NET, XML, SCA, PL/SQL, Ajax, PHP, Groovy on Rails and more.

Over 70 in-depth, hands-on labs covering the very latest development technologies including database, SOA, Complex Event Processing (CEP), Java, and .NET will be available.

Attendees can register for Oracle Develop only or add it to their full conference registration.

Oracle OpenWorld Primavera Program: Project Portfolio Management and More

The Primavera Program is a two-day event that will take place at the San Francisco Marriott, October 14

- 15, 2009.

Attendees will have the opportunity to network with product experts and peers and learn about the latest Primavera product releases from Oracle.

Customers can choose from more than 70 Primavera-focused educational sessions, 14 hands-on workshops, two dedicated keynotes, while also having the opportunity to learn about the broad portfolio of Oracle's offerings.

The Program is open to Oracle Primavera customers as well as any Oracle OpenWorld attendees who want to learn more about how Project Portfolio Management can improve control of projects of all types and sizes.

Project Management Professionals may qualify for up to 9 Professional Development Units (PDUs) by attending the Primavera Program.

Attendees can register for the Primavera Program only or add it to their full conference registration.

Supporting Resources

[Oracle OpenWorld Registration](#)

[Oracle Develop](#)

[Oracle's Primavera Program](#)

Oracle Innovation Showcase

For more than 32 years, Oracle has been a technology innovator, transforming the way business is conducted. To learn about Oracle's latest technologies, visit the [Innovation Showcase](#) during the 100 days before Oracle OpenWorld.

 [Click here to return to Contents](#)

Webinar Demonstrates FEA for Dynamics Analysis

12 August 2009

NEi Software is hosting a webinar titled "Introduction to FEA for Dynamics Analysis and Simulation" on August 19 at 11:00 AM PDT. The webinar will show engineers how Finite Element Analysis (FEA) software will help them analyze and solve design problems that involve dynamics and vibration. The agenda for the seminar is as follows.

Webinar Content

- Understanding natural frequencies - the heart of dynamics
- Setting up frequency response solutions - how and why to use them
- Running transient response - applications and benefits
- Optimization - tuning your model

Tips for ensuring efficient and accurate analysis

FEA software can show how structures shake and vibrate when they are hit or acted on by various forces by identifying their mode shapes and natural frequencies. Information from this type of analysis can be used to modify designs to eliminate annoying or harmful vibrations and promote product longevity. Or

CIMdata PLM Industry Summary

in some applications, promote desirable vibration as in sonic welding. Normal modes analysis is used in industries ranging from aerospace and defense to automotive and consumer products. NEi Fusion 2.0 with NEi Nastran will be used for demonstration purposes in this webinar. NEi Fusion is particularly useful at the design stage because its associativity with CAD and FEA data allows quick and easy trials of design modifications.

Sign up for the online event is at <http://www.NEiSoftware.com/webinar/NEiFusion>.

 [Click here to return to Contents](#)

Zuken Exhibits at International Defence Exhibition

11 August 2009

Zuken is to participate at DSEi 2009, the world's largest fully integrated defence and security exhibition, Defence Systems and Equipment International, due to take place at ExCel in London September 8-11. Zuken is taking the opportunity to exhibit for the first time at this event alongside a number of key customers, supporting their existing presence within the defence industry and to expand business development further.

Gerhard Lipski, Head of Zuken's Western Sales comments, "Over the past few years we have worked closely with some of the world major defence contractors, gaining first-hand experience of the problems they face in the electrical and electronic design process from access control constraints through to maintenance and component obsolescence associated with long lifecycles. By working in partnership with our customers, we have been able to make significant advancements to organization's design environments using our design solutions for electrical and electronic engineering automation and data management software." Many of the major players in the Defence sector have multiple design teams spread across the globe often working on projects together, Zuken's software is ideally suited to provide enterprise wide design solutions that provide structured multi-user environments, that can also be constrained for access control purposes. "Zuken has the global presence and international support teams to match our customer's training and ongoing support needs" Lipski adds.

For optimizing PCB design on an enterprise wide scale, Zuken will be exhibiting their integrated design and verification platform for system-wide PCB design, CR-5000. They will also be show casing their engineering solution for electrotechnical, pneumatic, hydraulic, cabling and wire harness applications, E³.series, along with the company's product lifecycle management offerings for component library, tool and lifecycle management.

Visit Zuken on stand 225 and discover how Zuken can help you overcome design reliability, control, legislation and maintenance issues with their full portfolio of electrical and electronic design solutions.

More Information on Zuken Products:

CR-5000 - Integrated Design & Verification Platform for System-Wide PCB Design

E³.series - The Power of Electrical Engineering

DS2 - Electronic Product Lifecycle Management (e-PLM)

- [CR-5000](#) - Integrated Design & Verification Platform for System-Wide PCB Design
- [E³.series](#) - The Power of Electrical Engineering

- [DS2](#) - Electronic Product Lifecycle Management (e-PLM)

The DSEi event is renowned for bringing together senior international trade and military experts from across the entire supply chain. Attendees come from all over the world to experience first-hand the latest land, air and sea capabilities of more than 1,350 companies from 40 countries over four packed business days. <http://www.dsei.co.uk>.

 [Click here to return to Contents](#)

Financial News

Autodesk Reports Second Quarter Fiscal 2010 Financial Results

13 August 2009

Autodesk, Inc. reported financial results for the second quarter of fiscal 2010.

- Revenue was \$415 million, a decrease of three percent sequentially and 33 percent compared to the second quarter of fiscal 2009.
- GAAP diluted earnings per share were \$0.05, compared to a GAAP diluted loss per share of \$0.14 in the first quarter of fiscal 2010 and GAAP diluted earnings per share of \$0.39 in the second quarter of fiscal 2009.
- Non-GAAP diluted earnings per share were \$0.24, compared to \$0.18 per diluted share in the first quarter of fiscal 2010 and \$0.56 per diluted share in the second quarter of fiscal 2009. A reconciliation of the GAAP and non-GAAP results is provided in the tables within this press release.

"Revenue results for the quarter were in-line with our expectations and continue to reflect a challenging global business environment," said Carl Bass, Autodesk president and CEO. "We are pleased with the progress we've made to increase our efficiency and reduce our overall cost structure and as a result, we increased our profitability on a sequential basis."

Operational Overview

By geography, revenue in the Americas decreased 21 percent compared to the second quarter of fiscal 2009, to \$159 million. Americas revenue declined two percent sequentially. EMEA revenue was \$157 million, a decrease of 41 percent over the second quarter of fiscal 2009 as reported, and 32 percent on a constant currency basis. EMEA revenue declined six percent sequentially as reported. Revenue in Asia Pacific was \$99 million, a decrease of 34 percent over the second quarter of fiscal 2009 as reported and 35 percent on a constant currency basis. Revenue from Asia Pacific increased three percent sequentially as reported. Revenue from emerging economies was \$63 million, a decrease of 45 percent compared to the second quarter of fiscal 2009, and a six percent sequential increase as reported. Revenue from emerging economies represented 15 percent of total revenue.

CIMdata PLM Industry Summary

Combined revenue from Autodesk's model-based 3D design solutions was \$124 million, a decrease of 25 percent compared to the second quarter of fiscal 2009 and a two percent sequential increase. Revenue from 2D horizontal and vertical products was \$194 million, a decrease of 38 percent compared to the second quarter of fiscal 2009 and six percent sequentially. Combined revenue from AutoCAD and AutoCAD LT declined 39 percent compared to the second quarter last year and seven percent sequentially.

Autodesk posted quarterly sequential revenue growth in several areas including emerging economies, revenue from our manufacturing business segment, revenue in Asia Pacific, revenue from our model-based 3D design solutions and revenue from 3D animation software. Autodesk has more than \$1 billion in cash and investments and no debt.

"The current business environment and general business visibility remain challenging," continued Bass. "However, we are encouraged by sequential revenue growth we posted in several areas and are beginning to see some positive indicators in our business."

Business Outlook

The following statements are forward-looking statements that are based on current expectations and which involve risks and uncertainties some of which are set forth below.

Third Quarter Fiscal 2010

Net revenue for the third quarter of fiscal 2010 is expected to be in the range of \$400 million and \$420 million. GAAP earnings per diluted share are expected to be in the range of \$0.04 and \$0.09. Non-GAAP earnings per diluted share are expected to be in the range of \$0.18 and \$0.23 and exclude \$0.07 related to stock-based compensation expense, \$0.05 for the amortization of acquisition related intangibles, and restructuring related charges of \$0.02.

Update on Spend Reduction Initiatives

Based on the progress the company made in the first half of fiscal 2010 with its expense reduction initiatives, Autodesk now anticipates nearly \$300 million in pre-tax cost savings in fiscal 2010 as compared to fiscal 2009.

Earnings Conference Call and Webcast

Autodesk will host its second quarter conference call today at 5:00 p.m. EDT.

A replay of the broadcast will be available at 7:00 pm EDT at <http://www.autodesk.com/investors>. This replay will be maintained on this website for at least twelve months.

 [Click here to return to Contents](#)

Mentor Graphics Corporation to Release Fiscal Q2 2010 Financial Results Thursday, August 20, 2009

10 August 2009

Mentor Graphics Corporation announced that they will release financial results for the company's second fiscal quarter, ended July 31, 2009, on Thursday, August 20, 2009 after close of market.

- Live audio webcast at http://www.mentor.com/company/investor_relations. Please register at this website prior to the scheduled call time of 2:00 PM Pacific.

CIMdata PLM Industry Summary

• Conference call replay: Begins 8/20/09 (4:00 PM Pacific) – Ends 8/27/09 (11:59 PM Pacific) USA 800-475-6701; International 320-365-3844; Access code: 111995

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SofTech Announces Improved Profitability for Fiscal Year 2009

7 August 2009

SofTech, Inc. announced financial results for Fiscal Year 2009. Revenue was approximately \$9.5 million for fiscal year 2009, as compared to \$10.1 million for fiscal year 2008.

Despite the decline in revenue, the Company's profitability improved substantially, with net income increasing by approximately \$1.6 million, from a loss of \$306,000 (\$.03 per share) in fiscal year 2008, to net income of approximately \$1.3 million (\$.11 per share) in fiscal year 2009.

Net cash flows from operating activities also improved considerably during fiscal year 2009, increasing approximately \$700,000 from \$974,000 for fiscal year 2008 to \$1.7 million for fiscal year 2009 (a 71% increase). The Consolidated Statement of Cash Flows for the fiscal year ended May 31, 2009 and 2008 is included in the Financial Summary.

Earnings before Interest, Taxes, Depreciation and Amortization ("EBITDA"), a non- GAAP financial measure, increased \$200,000, from \$2.4 Million in fiscal year 2008 to \$2.6 million in fiscal year 2009, (an 8% increase). A reconciliation of EBITDA to Net Income (Loss) is provided on the attached Financial Summary.

The Company's revenue is derived almost entirely from technology acquisitions completed between 1997 and 2002, and the Company's operations are not capital intensive. As of May 31, 2009, approximately 1.5% of the Company's assets represent amortizable intangible assets related to these historical acquisitions. The Company does not anticipate making further acquisitions in the foreseeable future. For the fiscal year ended May 31, 2009, amortization expense (a non-cash expense) related to these intangible assets were approximately 5% of total expenses, 4% of total revenue and 31% of net income. Further, the periods over which these intangible costs are expensed are highly judgmental.

The Company believes that EBITDA is useful supplemental information for investors, when considered along with net income and other income statement data. The Company believes that EBITDA is useful because it provides investors with information concerning the potential longer term profitability of the Company's technology assets (subsequent to full amortization of costs), as amortization of acquisition costs has been added back to net income in arriving at EBITDA. Further, management believes that EBITDA provides a useful financial metric by which the Company can be compared with other companies that have different capital structures (interest (a cost of capital) has been added back to net income in arriving at EBITDA). It is also management's belief that this non-GAAP measure of performance continues to be used in the investment community as a financial metric for business valuation purposes.

However, the Company believes that EBITDA is not a substitute for cash flow from operating activities, which is disclosed above and in the Company's financial statements. Investors should carefully review the financial statements of the Company in their entirety in order to obtain a complete understanding of the Company's financial condition and results of operations.

SOFTECH, INC.

CIMdata PLM Industry Summary

FINANCIAL SUMMARY

(In thousands, except per share data)

Statements of Operations (unaudited):

	For the Fiscal Years Ended May 31,		
	<u>2009</u>	<u>2008</u>	
Revenue	\$ 9,498	\$ 10,106	—
Income from operations	2,132	928	—
Net income (loss)	1,321	(306))
Basic and diluted income (loss) per share	.11	(.03))

Reconciliation of EBITDA to Net Income (Loss) (unaudited):

To arrive at EBITDA, net income (loss), calculated in accordance with GAAP, is adjusted below by adding back interest expense, taxes, non-cash expenses related to amortization of intangible assets resulting from acquisitions, and depreciation expense.

For the Fiscal Years Ended May 31,

	<u>2009</u>	<u>2008</u>	<u>Percentage of Total Expense 2009</u>	<u>Percentage of Total Expense 2008</u>
Net income (loss)	\$1,321	\$(306)		
Plus: Interest Expense	760	1,292	9 %	12 %
Plus: Depreciation Expense	127	84	2 %	1 %
Plus: Amortization Expense	405	1,346	5 %	13 %
EBITDA	<u>2,613</u>	<u>2,416</u>		

SOFTECH, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

For The Fiscal Year Ended May 31,

(Unaudited)

	2009	2008
	(in thousands)	
Cash flows from operating activities:		
Net income (loss)	\$1,321	\$(306)
Adjustments to reconcile net income to net cash		

CIMdata PLM Industry Summary

provided by operating activities:		
Depreciation and amortization	532	1,430
Provision for uncollectible accounts	25	52
Loss on retirement of equipment	-	3
Change in operating assets and liabilities:		
Accounts receivable	108	39
Prepaid expenses and other assets	(96)	-
Accounts payable and accrued expenses	89	(17)
Deferred revenue	(319)	(227)
Total adjustments	339	1,280
Net cash provided by operating activities	1,660 _	974 _
Net cash provided by investing activities		
Capital expenditures	(89)	(9)
Net cash used in investing activities	(89)	(9)
Cash flows from financing activities:		
Borrowings under debt agreements	-	150
Repayments under debt agreements	(1,715)	(1,101)
Repayments under capital lease	(31)	(31)
Net cash used in financing activities	(1,746)	(982)
Effect of exchange rates on cash	33 _	(131)
Net decrease in cash and cash equivalents	(142)	(148)
Cash and cash equivalents, beginning of year	900	1,048 _
Cash and cash equivalents, end of year	\$758 =	\$900 =

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

Strong Year Over Year Growth in Second Quarter Annuity Bookings Demonstrate the Value Customers See in Arena BOM and Engineering Change Management Software

11 August 2009

Arena Solutions announced continued strong growth with new customer annuity bookings increasing by more than 28 percent for the second quarter, ending June 30, 2009, over the same period the year prior. Total annuity bookings were up more than 13% for that same period, demonstrating the ongoing value that Arena provides to companies that need to get **quality products to market on time and on budget**.

Companies in the high-tech electronics industry showed particular interest in having a system to address their **bill of materials (BOM)** and **engineering change management** challenges, with nearly half of all new customers signed in the second quarter coming from that industry. Without Arena, many of these

CIMdata PLM Industry Summary

companies were struggling with problems like **uncontrolled spreadsheet BOMs**, painful change order processes and an inability to track product costs and dates. Like the medical device, clean technology and other companies signing with Arena in the second quarter, these new customers will benefit from having a system that keeps everyone on the same page and shortens product design and manufacturing times.

To make sure all customers get up and running quickly and begin deriving value from Arena right away, in the second quarter the company continued its efforts to shrink deployment times. Leveraging the web-based software-as-a-service (SaaS) architecture of Arena and its Quickstart implementation package, more than half of the customers that went live on Arena in the second quarter did so in 30 days or less.

"Our customers have problems they need to solve, and they need to solve them now," said Ken Bozzini, chief financial officer of Arena Solutions. "They don't want to spend a lot of money to solve their problems, and they don't want to wait a long time to start seeing results. With Arena, they don't have to. The growth we saw in the second quarter, even in light of the continued sluggish economy, shows that the value is there and customers see it. Arena solves their problems, and it solves them without a lot of upfront time, expense or hassle."

Among the customers who selected Arena in Q2 2009 are:

- Front Porch Digital, the global leader in content storage management (CSM) solutions and provider of an end-to-end solution for cost-effectively digitizing, accessing and preserving videotape and other media.
- Prism Microwave, which designs and manufactures RF conditioning solutions for wireless infrastructure.
- IVL Audio Inc., which provides innovative audio processing products to the professional music, consumer electronics and commercial karaoke markets.
- PVT Solar, the manufacturer of the echo™ solar system which delivers electricity, home heating, home cooling and hot water.
- Method Products, Inc., leading innovator in premium home care products that are non-toxic and made from natural and naturally derived, biodegradable ingredients.

In the second quarter, Arena also expanded its strategic partnerships, adding a reseller channel and signing its first two value added resellers (VARs): ManofIT in Israel and Matrix Applied Computing in Oceania. Both VARs got off to a successful start, adding Arena subscriptions in their first quarter as partners. Arena expanded its Trusted Advisor Program (TAP) to include a new Premier level, and the company added new TAP partners, including two that have close relationships with NetSuite, a company with which Arena recently signed a strategic partnership. Those two are Rootstock, a software company that provides MRP functionality on the NetSuite platform, and Sererra, a company that implements and integrates SaaS solutions -- including NetSuite -- for mid-size companies.

Other significant highlights of Q2 2009:

CIMdata PLM Industry Summary

-- Arena surpassed its 99.5 percent service level agreement for the 13th consecutive quarter, with 100 percent uptime in Q2 2009 and a continued focus on delivering the most secure and reliable collaborative BOM and change management solution available.

 [Click here to return to Contents](#)

Valor Increases Profitability in Q2/2009; Positive Cash Flow Increased

13 August 2009

Valor Computerized Systems Ltd. announced its financial results for the period ending June 30, 2009.

Revenues in the second quarter of 2009 were \$9.2M, a slight increase as compared with the revenues in the previous quarter, which accumulated to \$9M.

Operating profit in the second quarter of 2009 was \$0.7M, as compared with operating profit of \$0.8M in the previous quarter.

Net profit in the second quarter of 2009 was \$1.1M, as compared with net profit of \$0.8M in the previous quarter. Positive cash flow from operating activities during the quarter accumulated to \$1.4M.

Earnings per Share (diluted) in the second quarter of 2009 were \$0.06, as compared with earnings per share of \$0.04 in the previous quarter.

Revenues in the first six months of 2009 accumulated to \$18.2M. Operating profit during that period was \$1.5M, and net profit was \$1.9M.

Earnings per share (diluted) in the first six months of 2009 were \$0.10.

The company has cash and cash equivalents in amount of \$27.3M at the end of the second quarter of 2009.

Summary of Financial Data (Unaudited, \$US thousands unless otherwise noted):

	Q2/09	Q1/09	% Change
Product Sales	4,948	4,564	8.4%
Service Revenues	4,256	4,391	(3.1%)
Total Revenues	9,204	8,955	2.8%
Gross Profit	7,882	7,689	2.5%
EBITDA	1,219	1,365	(10.7%)
EBIT	665	801	(17.0%)
Net Profit (Loss)	1,121	800	40.1%

CIMdata PLM Industry Summary

	Q2/09	Q1/09	% Change
EPS in US\$ (diluted)	0.06	0.04	50.0%
Shareholder's Equity	43,099	40,216	7.2%
Total Assets	53,264	50,409	5.6%
Research & Development	2,258	2,152	4.9%
Employees (Period End)	232	231	0.4%

Some of the following statements are forward-looking in nature, and actual results may differ materially:

Referring to the financial results, Dan Hoz, Valor's CEO said: "I am pleased to see the continued trend of profitability, supported by strong cash flow. It serves to validate the increase in our operational efficiency and enables us to keep our growth strategy on track and respond in time to the rising market demand".

"We are starting to see the market picking up – especially in Asia, and particularly in the Assembly arena, and we are working diligently to capture the available opportunities as well as develop new ones and invest in our future growth", He concluded.

The complete financial report can be downloaded from the Investor Relations section on the Valor corporate website: <http://www.valor.com>.

 [Click here to return to Contents](#)

Implementation Investments

ANSYS Paves the Way for Economic and Environmental Improvements in Cement Manufacturing

10 August 2009

ANSYS, Inc. announced that its software is helping aixprocess, a German engineering consultancy, to explore process improvements that will make cement manufacturing more profitable and more environmentally responsible. The business has been investigating replacing traditional fossil fuels — which are becoming increasingly difficult to extract, expensive to use and are of limited quantity — with alternative fuels. The efforts of aixprocess are part of a collaborative project sponsored by the German Federal Ministry of Education and Research, aimed at using fluid dynamics modeling tools to identify process improvements needed to help cement manufacturers remain competitive in today's business world.

Cement manufacturing is a complicated, resource-intensive process in which limestone and other materials are crushed and milled, preheated to separate glass from solids, and then heated in a kiln at temperatures up to 1,450 degrees Centigrade (C). Large quantities of fuel are needed for preheating raw materials and keeping kiln temperatures high enough to produce the calcium silicate and aluminates that represent modern cement mixtures. Traditionally, the fuels used in cement making have been coal, oil and gas. However, due to the increasing financial costs associated with fossil fuels — as well as the

CIMdata PLM Industry Summary

negative environmental impacts — cement manufacturers around the world are beginning to explore the use of nontraditional fuels such as scrap tires, paper waste and plastic waste.

These secondary fuels differ greatly from conventional fuels in terms of their physical characteristics and combustion processes, which can disrupt the complex cement-making process if they fail to maintain the proper temperatures, material concentration and other conditions required for a high-quality cement product. To successfully replace fossil fuels with alternative fuels in cement production facilities — without costly physical testing and process — engineers at aixprocess have used engineering simulation software from ANSYS to analyze the real-world impacts of these “green” fuels. The company used fluid dynamics to simulate the effects of these fuels on combustion rates and outputs, heat and mass transfer processes, and chemical reactions within cement kilns. By relying on ANSYS® software instead of physical tests, the team of engineers estimates it was able to cut 30 percent of their analysis costs.

“By using software from [ANSYS](#), we have been able to analyze the effects of replacing 40 percent of the traditional fuels used in an existing cement factory with alternative fuels. Specifically, we worked on determining the process modifications needed to maintain high kiln temperatures and to stay within other operating critical parameters,” said Martin Weng, co-founder of aixprocess. “We have learned that to use these new fuels, we must compensate with increased oxygen pressure and an intensified materials blending process. Real-world testing to reach this same conclusion would have taken much longer and been far more expensive.”

Based on their simulations, engineers at aixprocess have a high degree of confidence that cement manufacturers can successfully replace traditional fossil fuels with alternative secondary fuels, leading to both economic and environmental benefits. Next, they plan to use software from ANSYS to analyze and optimize other aspects of the cement-making industry, including chemical reactions within kilns and the separation processes used to isolate gases and solids during the preheating phase.

“Because cement manufacturing is a complex process — characterized by heterogeneous flows, high temperatures, distinct phases and precise material concentrations — it is an ideal application for engineering simulation software,” said Thierry Marchal, director of industry marketing at ANSYS, Inc. “Given the many operating parameters that must be considered when making cement, physical analysis and real-world testing would prove both time- and cost-prohibitive. By running fluid dynamics simulations with ANSYS software, the aixprocess team was able to make a number of subtle process changes and adjustments required by the new fuels — ultimately discovering the optimal set of conditions under which green fuels can be used to support a high-quality cement product. Given how widely cement is used around the world, this work can have significant economic and environmental impacts.”

aixprocess will continue to apply tools from ANSYS as it seeks to improve other components and processes in cement-making facilities, as part of its participation in MoProOpt — a German government-sponsored project created to model cement manufacturing and optimize the processes involved.

About aixprocess

The engineering company aixprocess was founded by Martin Weng (Dr. -Ing.) and Markus Hufschmidt (Dipl. Ing.) in 2001. The firm offers complete and problem-oriented consulting and engineering in apparatus design and plant construction, as well as process and flow technology. aixprocess engineers use a combination of conventional engineering methods and innovative simulation tools such as CFD

CIMdata PLM Industry Summary

modeling software to analyze and improve customers' processes and facilities. By using virtual testing tools and facilities, aixprocess is able to reduce development costs significantly.

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

Autodesk Inventor Helps A.T. Ferrell Move Food from Factory to Table

10 August 2009

The flakes in corn flakes, the toffee in chocolate bars and the oats in oatmeal all have one thing in common: they were probably flattened, rolled or otherwise processed by equipment from A.T. Ferrell Company, Inc. (A.T. Ferrell).

[Autodesk, Inc.](#) has named [A.T. Ferrell](#) as the August 2009 [Inventor of the Month](#) for its use of [Autodesk Inventor](#) software for the design and engineering of its roller mills and other industrial food processing machines.

The Inventor of the Month program recognizes the innovative design and engineering advancements made by the extensive community using Autodesk Inventor software, which takes manufacturers beyond 3D to [Digital Prototyping](#). With Inventor, manufacturers can create a single digital model that gives them the ability to design, visualize and simulate products before they are built to reduce the need for physical prototypes.

A.T. Ferrell's selection as Inventor of the Month for August is particularly significant, as August is National Inventors' Month, which celebrates invention and creativity.

A.T. Ferrell's roller mills use high pressure rollers to flatten grains to the exact thickness required to create the perfect corn flake, for example, or to crack a piece of toffee without crushing it. Using Inventor software enables A.T. Ferrell to take advantage of built-in features such as parametric modeling and finite element analysis so the company's machines can successfully operate under high-pressure conditions while meeting all tolerance requirements.

"Using Inventor software to create a 3D digital prototype means we no longer have to cut metal to prove the feasibility of a design," said Allen Gager, a design engineer and CAD manager at A.T. Ferrell. "We know exactly how a mill will perform before it's been built. Additionally, Autodesk Vault Workgroup helps us keep track of our designs and improves our ability to reuse designs and components, which speeds the development of new products."

On a recent project, using Inventor software for Digital Prototyping enabled A.T. Ferrell's designers to identify a problem, test the existing design and develop a new design all in one day. This efficiency has allowed A.T. Ferrell to greatly simplify the design-to-manufacture process and develop innovative new equipment.

"Machines play an important role in every aspect of our daily lives -- even the foods we eat," said Robert "Buzz" Kross, senior vice president, Manufacturing Industry Group at Autodesk. "Inventor software is helping A.T. Ferrell move beyond 3D to explore fully working digital prototypes of their industry-leading machines."

For more information about Autodesk Inventor of the Month, contact IOM@autodesk.com.

About Industrial Technology

Since 1982, [Industrial Technology](#) has been an industry leader by providing specialized solutions for

CIMdata PLM Industry Summary

manufacturing. Today it is leveraging the power Digital Prototyping to offer powerful solutions for its customers as it celebrates its 25th year as an Autodesk [value-added reseller](#).

 [Click here to return to Contents](#)

Dassault Systèmes Selected by Dana Holding Corporation for Design Simulation Management Solution

11 August 2009

Dassault Systèmes ([DS](#)) announced that Dana Holding Corporation, a global vehicular supplier, has selected [SIMULIA SLM](#) as its simulation lifecycle management solution to enhance product development decision-making processes and support key business objectives.

Dana and SIMULIA have signed a collaboration agreement that will enable Dana to use SIMULIA SLM software to capture and better leverage product-performance knowledge and engineering expertise created during the design simulation process. Working with SIMULIA, Dana will also help define future technology requirements for the effective management of simulation applications, data, and methods as they relate to the automotive industry.

“Product development is becoming more complex. It involves not just system simulation requirements, but also the need to manage and share huge amounts of engineering information that is housed throughout the world,” stated Frank Popielas, manager of Advanced Engineering for Dana’s Sealing Products Group. “SIMULIA SLM will provide us with consistency, accuracy and faster turnaround time through easier, coordinated information access. Not only is SIMULIA a proven leader in the CAE market, they have a deep understanding of our engineering processes and workflows and share our vision for leveraging simulation knowledge as a valuable business asset.”

SIMULIA SLM is based on Dassault Systèmes’ V6 platform, the online collaborative environment for PLM 2.0, and enables the use of simulation throughout the product lifecycle, improving efficiencies in the simulation community, and capturing simulation expertise in consistently repeatable standard processes.

“Dana is a leading innovator in applying CAE within their development process,” stated Scott Berkey, CEO, SIMULIA, Dassault Systèmes. “Our solution will help them achieve their goals of leveraging simulation to accelerate decision making, enhance global collaboration, and secure their intellectual property. This agreement demonstrates that our robust SLM solution is gaining significant industry momentum.”

About Dana Holding Corporation

[Dana](#) is a world leader in the supply of axles; driveshafts; and structural, sealing, and thermal-management products; as well as genuine service parts. The company's customer base includes virtually every major vehicle manufacturer in the global automotive, commercial vehicle, and off-highway markets. Based in Toledo, Ohio, the company employs approximately 24,000 people in 26 countries and reported 2008 sales of \$8.1 billion.

 [Click here to return to Contents](#)

Fluor Corporation Extends its Contract for AVEVA Plant

12 August 2009

CIMdata PLM Industry Summary

AVEVA Group plc announced that Fluor Corporation, one of the world's largest publicly owned engineering, procurement, construction, maintenance (EPCM), and project management companies, has extended its contract with [AVEVA](#).

Under the new global agreement, Fluor has on demand access to the full AVEVA Plant portfolio which includes products such as AVEVA PDMS 12, AVEVA Global, the new AVEVA P&ID and related interoperability tools.

"Fluor has successfully delivered highly complex projects globally with AVEVA's technology, and we look forward to continuing our successful partnership with them," commented Derek Middlemas, Group Operations Director, AVEVA.

"Fluor's primary objective is to develop, execute and maintain capital projects on schedule, within budget, and with operational excellence," said Michael Pye, Director of Automation, Fluor Corporation. "AVEVA tools help to support the design, engineering, construction and maintenance of these projects worldwide."

 [Click here to return to Contents](#)

Ford Motor Company Continues to Engineer Safer Vehicles Using the HyperWorks Simulation Suite and Its Integrated Solver Solution - RADIOSS

10 August 2009

Altair Engineering, Inc. announced today, that global automotive organisation, Ford Motor Company, has continued to improve vehicle safety performance through the use of the HyperWorks simulation suite and the power of its solver solution, RADIOSS. Combining Ford's engineering experience with the capabilities of HyperWorks has resulted in their new Fiesta range becoming a class leader for both occupant and pedestrian safety.

As an experienced user of the HyperWorks suite, Ford have always found the RADIOSS solver to be extremely robust and reliable, especially the explicit crash simulation involved in vehicle safety assessment. RADIOSS is used extensively throughout Ford's vehicle development process and was the obvious solver of choice when developing the new Fiesta model, which launched in Europe during 2008. The highly scalable and repeatable nature of the solver, combined with Ford UK's state of the art engineering methods and development processes, successfully achieved an outstanding five star crash performance when rated by EuroNCAP.

"I am pleased to see Ford Motor Company taking advantage of HyperWorks' solver solutions. By making RADIOSS an integral part of their engineering design process has helped to ensure that all Ford vehicles are extremely safe for both vehicle occupants and pedestrians," said Maurice Linscott, regional director, Altair UK. "The solver's repeatability, scalability, accuracy and robustness make it the analysis tool of choice for many of the world's leading OEMs and suppliers across a wide spectrum of domains and industries. We are seeing increasing numbers of companies adopting HyperWorks technology due to its analysis power, ease of use and our cost effective licensing system."

About RADIOSS

RADIOSS is an explicit and implicit finite-element solver technology that simulates mechanical, structural, fluid and fluid-structure interaction phenomena, taking into account nonlinear material, for quasi-static and dynamic loading events. RADIOSS is part of the Altair HyperWorks CAE technology suite. HyperWorks provides solver solutions for linear, nonlinear, fluid and fluid structure interaction,

CIMdata PLM Industry Summary

structural optimisation and multi-body dynamics applications, while delivering best-in-class modelling, visualisation and process automation solutions. For more information please visit <http://www.altairhyperworks.com>.

 [Click here to return to Contents](#)

Madura Garments Goes Live with Lawson Fashion PLM

13 August 2009

Lawson Software announced Madura Garments, one of India's leading apparel and retail companies has gone live with the [Lawson Fashion Product Lifecycle Management](#) (PLM) solution. Lawson Fashion PLM is a comprehensive tool for retailers and manufacturers of apparel, footwear, home textiles and accessories. It is a web-based suite of applications that facilitates the management of products from design through production. With a growing business and increasing competition, Madura Garments needed to streamline its business processes. After an intensive software selection process, Madura selected Lawson Fashion PLM to help support its product development processes.

"We evaluated several systems and found that Lawson Fashion PLM best met the current and future needs of our organization," said Neeraj Pal Singh, vice president of information systems at Madura Garments. "We are already deriving value from the added capabilities that help us better manage our products from the time we begin designing an item until it's ready for the retail shelves."

The implementation process gave Madura Garments an opportunity to re-engineer its business processes to gain greater efficiencies. Lawson Fashion PLM has helped structure processes and provide better transparency of information across the company's supply chain. In addition, Lawson Fashion PLM enables product development activities to work in parallel, which helps reduce product development timelines for new collections, helping to reduce time-to-market.

Prior to using Lawson Fashion PLM, key fabric information from mills was not captured effectively, so Madura was not able to easily re-use information between collections and seasons. Lawson Fashion PLM now allows the company to import this information directly into the PLM system and use an advanced search capability to locate suitable fabric designs that may already exist. "We are already experiencing the benefits of implementing Lawson Fashion PLM. It has allowed us not only to capture fabric information from the mill, but also saves two to three weeks in the fabric sample request process," comments Natwarlal Bhattad, group manager product development at Madura Garments.

Previously, all technical specifications at Madura Garments were manually tracked in spreadsheets, so data quality was an ongoing challenge. Lawson Fashion PLM now helps maintain key data on a central server, which ultimately helps reduce errors. The Lawson Fashion PLM Workflow module provides tools to help proactively identify bottlenecks and alert users to any slippage against timelines, so corrective action can be taken.

As part of the project, a number of analytical reports were developed to help facilitate better visibility for decision-making. "Our primary objective was to improve visibility from concept to pre-production and then to expand this to the stores," added Natwarlal Bhattad.

Prasham Kamdar, managing partner at Ptex Solutions, one of Lawson's PLM partners, noted, "Madura Garments requirements were more challenging than most PLM implementations. I am delighted that we were able to meet their expectations."

"We are very pleased to have partnered with Ptex Solutions for this project," said David Hope, vice

president and managing director, Lawson Asia Pacific."Ptex has been instrumental in implementing the Lawson Fashion PLM solution for our customers. The success of this project, among others, show the high level of competency and professionalism of the consultants."

 [Click here to return to Contents](#)

Magma's FineSim SPICE Chosen by Technology Leaders & Innovators as Standard for Verification of Large Analog IP Designs

10 August 2009

Magma® Design Automation Inc. announced that Technology Leaders & Innovators (TLi), a global provider of consumer electronics products, has standardized on FineSim™ SPICE for verification of large analog IP designs. TLi selected the [Magma](#) software after results of an exhaustive evaluation of a number of commercially available SPICE simulation products showed that [FineSim SPICE](#), with its scalable multi-CPU capabilities, delivered runtime that was an order of magnitude faster than traditional multi-threaded simulators.

"We design many different types of analog circuits, including PLLs, ADC/DACs and high speed I/Os, that require extremely precise simulation during the design phase," said Soon-Won Hong, vice president at TLi. "Through our evaluation, we found that [FineSim SPICE](#) provides 10 times faster simulation on a single CPU than other solutions, while meeting our accuracy requirements. Even more impressive was the scalable multi-CPU capability: we achieved better than 10 times faster simulation than conventional multi-threaded SPICE simulators. This dramatic speedup enables us to verify very large, post-layout, top-level netlists in SPICE, improving accuracy and allowing us to design and tape out with much more confidence in achieving first-pass silicon success."

"Enabled by Magma's Native Parallel Technology™, FineSim SPICE offers significantly higher capacity and truly scalable multi-CPU performance while delivering silicon-accurate results," said Anirudh Devgan, general manager of Magma's Custom Design Business Unit. "By ensuring first-time right silicon on large designs, FineSim SPICE helps customers like TLi reduce design and manufacturing costs and increase profit margins."

FineSim SPICE: Simulating Advanced Circuits

FineSim SPICE is a SPICE-level simulation analysis tool that incorporates transistor-level simulation analysis capabilities for mixed-digital and analog designs. FineSim SPICE is a full SPICE simulation engine with distributed processing that enables customers to simulate large-scale mixed-signal system chips at the transistor level. By providing increased speed and capacity while maintaining full SPICE accuracy, FineSim SPICE enables designers to simulate advanced circuits -- such as PLLs, ADCs (analog-to-digital converters), DACs (digital-to-analog converters) and gigahertz SERDES (SERializers/DESerializers) -- that they previously would not even attempt using slower traditional SPICE simulators.

 [Click here to return to Contents](#)

Novenco Airbox - Quick And Accurate Quoting With Configit

1 August 2009

The Novenco Airbox configurator based on Configit technology provides quick and accurate answers to

customer questions and accurate quoting.

Novenco is among the world leaders in supplying heating, ventilation, air conditioning and refrigeration systems for both land and marine applications. Novenco products, such as axial flow fans or air handling systems are highly configurable. Using standard Configit Product Modeler and Configit Runtime, Novenco has built their AirBox sales configurator and saved significant time and expense in their sales cycle.

Quick, correct and accurate

Peter Holt, Technology Director at Novenco, says that "in the past our sales people often had to use extra time on correcting the quotes they gave to customers, mainly because they did not have up-to-date product information readily available. The key success factors for our sales are, quite simply, quick and correct answers to customers' critical questions and an accurate quote."

The airbox

Lars Kasper, Manager, IT and Software at Novenco, says they chose Configit Product Modeler and Runtime due to "good performance, documentation and support; it was easy to implement and it's based on the latest .NET and C# technology."

"Certainly Configit Product Modeler makes AirBox simpler to maintain compared with solutions we've tried in the past," says Peter Holt. "We save time, but also expenses, because changes can be handled by a product modeler as opposed to a more expensive software engineer."

The AirBox configurator has more than 300 users including Novenco customers and agents. It is not the first sales configurator Novenco has employed but it is the one that has yielded the best results so far. The Airbox is available for Novenco customer and agents from Novenco's website.

On time and within budget

Implementation was on time and within budget and, as Peter Holt says, "that is pretty rare when you implement major new software." "The support we get from Configit is excellent," says Lars Kasper. "Their response is always good and prompt, no matter the extent of the support we require."

The bottom line

"Overall, we are very pleased with our choice to use Configit," says both Peter Holt and Lars Kasper. "We get good value for our money and their solutions and people are professional."

Learn more

The full Novenco case story is available on http://www.configit.com/download/case_stories.html.

 [Click here to return to Contents](#)

Open Text eDiscovery Chosen by Marathon

10 August 2009

Open Text Corporation announced that Marathon Oil Corporation has selected Open Text eDiscovery Early Case Assessment, powered by Recommind, to provide the latest in eDiscovery capabilities.

The eDiscovery solution adds to a company's broader enterprise content and records management strategy. eDiscovery, with ECM initiatives, is designed to improve business processes, proactively manage important records in accordance with compliance, legal and policy requirements, and gives

CIMdata PLM Industry Summary

employees new ways to share business content.

Part of the Open Text ECM Suite, Open Text eDiscovery Early Case Assessment helps organizations identify relevant information in cases, and defensibly manage preservation and collection processes for discovery, regulatory and compliance requests. The XML export capabilities and other functions of Early Case Assessment enables companies like Marathon to minimize the dependence on third-party processing, while culling irrelevant information before expensive legal review processes begin.

"We are very happy to be working with Marathon," said Stephen Ludlow, Program Manager for Open Text eDiscovery Solutions. "Marathon is a forward-looking organization that is combining process and technology to address some of the key cost and risk factors in eDiscovery and records retention."

The Open Text ECM Suite brings together the broad range of content management capabilities organizations need to securely and safely manage all types of enterprise information - documents, vital records, Web content, video, images, email, forms and reports - across many different enterprise systems and applications. Open Text's ECM Suite offers the cross-enterprise ECM solutions customers need as the strategic importance of ECM grows in large organizations, driven by compliance and the need to cut costs.

For more information on Open Text eDiscovery Early Case Assessment, please visit:

<http://www.opentext.com/2/global/sol-products/sol-pro-compliance-governance/pro-ediscovery-early-case-assessment.htm>

 [Click here to return to Contents](#)

Radan Software – it's a Steal

13 August 2009

P Pritchard Sheetmetal relocated to its current facility at the beginning of 2001, but in November 2002 the company was burgled and all the PCs with the CAD/CAM software installed on them were taken. Following a quick call to Radan, a leading sheet metal CAD/CAM supplier, the situation was turned around in just three days.

A successful family-owned business, P Pritchard Sheetmetal was established in 1992 to supply subcontract sheet metalwork and fabricating services to various industry sectors. Customers for the recently accredited to ISO 9001 company operate in the scientific, telecommunication and precision engineering sectors, as well as coachbuilders and general engineering companies.

Shortly after the company moved to its 5000 ft² facilities in Faringdon, Oxfordshire, the factory was burgled. That left the company without the ability to program the various jobs expected by its customer base. Production director, Stephen Davies, recalls: "The old CAD/CAM software worked well enough but was obsolete, so we could not get a replacement version after it was stolen. We faced the prospect of not being able to get orders processed and out of the door. Luckily, we contacted Radan and from not having any CAD/CAM software we were up and running in just three days."

The company has grown year-on-year in terms of technology and capability. "When we moved here in 2001 we had two CNC punch presses and three CNC pressbrakes," says Steve Davies. "In the last two or three years we have made significant investments. And, in 2008 we invested around £300,000 in a new 2.7 kW Trumpf laser this was then followed by a Bystronic pressbrake, as well as the support infrastructure and IT systems. Of course, Trumpf offer a CAM package for its machines but as we are familiar with Radan and its capability we wanted to stick with it."

CIMdata PLM Industry Summary

Sheet materials processed range from copper, brass, mild and stainless steel to Zintec. All drawings are created using Radan and everything produced on the shopfloor is programmed by Radan. Steve Davies states: “The speed at which you can program a part using Radan is extremely quick, enabling quick turnaround from order to production.

The profiles generated for the laser and folding programs for the new pressbrake are downloaded directly to the machines, but the punch machines and older pressbrakes use a DNC link from the server.

For the laser, parts are nested to efficiently get the quantity required from the least amount of raw material from standard sheet sizes or special sizes if that is what is available. Radan’s Auto Tool applies different cutting parameters depending up on what the material conditions are.

“The cycle time is applied at the verification stage, which lets us know how long the machine will be tied up for. The operator gets a job pack that contains sheet size and material type as well as a nest diagram to provide a visual confirmation,” Stephen Davies says.

P Pritchard Sheetmetal use the Radan 3D software module to ensure customers assemblies will fit together correctly, and that all the relevant holes are aligned. Steve Davies cites a power supply unit for computer systems developed by the company for a customer. He says: “I used Radan to draw the parts from the customers sketch as no files were supplied, and we then used this drawing for production.”

He goes on to say: “Within the past six months we have noticed an increase in the number of customers supplying 3D files. This is no problem with Radan which is exceptionally good at importing files from other systems and developing them for programming and production. We have one customer who supplied .sat Inventor files, while others supply Solid Works files as iges files and some supply drawings in the popular AutoCAD dwg format which we can import and manipulate. With the power of 3D the requirement for prototyping has diminished and these parts are often production ready. However, as the data comes in it is processed through the Radan system.”

With Radan a 3D part is simply selected from an assembly, it is ‘flattered’ which produces a 2D development of the part and the Auto Tool function applies the correct laser cutting parameters.

“We are a progressive company and Radan has provided the confidence we need to pursue demanding business sectors. Along with the quality systems approval, it has allowed us to support customers in the scientific sector, such as Oxford Instruments. With a need for high accuracy these sectors are areas in which we can see further growth in our business,” concludes Stephen Davies.

 [Click here to return to Contents](#)

Timberland Reduces Product Development Time by 33 Percent with Z Corporation 3D Printing Technology

12 August 2009

The Timberland Company (<http://www.timberland.com>) is using 3D printing technology from Z Corporation (<http://www.zcorp.com>) to help solidify its position as the vanguard of outdoor-inspired footwear.

Quickly and easily creating its own physical foot and shoe prototypes has helped Timberland reduce their development time by 33 percent and its last(1) production time by 92 percent, according to Toby Ringdahl, CAD manager in the company’s global footwear product development division.

Increasingly prevalent in iterative product development, 3D printers produce tangible physical models

CIMdata PLM Industry Summary

from computer-aided design files much as document printers produce business letters from word-processing files. Timberland's ZPrinter 650 produces multicolor 3D models, which are used in refining design concepts.

"We used to hire an artisan or service provider to make our models, and it typically took two weeks to receive the finished goods," said Ringdahl. "Now we simply press 'print,' remove our models from the ZPrinter, and continue to move our product concepts to market. Every time we print, we shorten the development cycle and help get new styles to consumers while they're hot. That's typically six months earlier than if we still outsourced our models, and at a fraction of the cost."

In addition to shortening the development cycle, ZPrinting has:

- Paid for itself quickly by reducing the cost of each model by a factor of ten (\$100 in material versus \$1,000 spent on a contractor);
- Reduced Timberland's mold scrap volume 20 percent by improving communication internally and with manufacturing partners;
- Cut travel costs to Asia by 10 percent annually, also a result of improved design communication;
- Enabled more productive design reviews earlier in development cycles, when a course correction is least expensive; and
- Bolstered sales by improving designs and putting realistic prototypes in the hands of sales representatives and prospects.

Smart investment

Timberland invested in the ZPrinter 650 after a formal financial impact analysis that proved ZPrinting is more affordable than comparable technologies. According to Ringdahl, it has distinct advantages in low printer price, software, consumable materials and throughput.

ZPrinters, for example, use inkjet print heads replaceable from the shelf of any office supply store. ZPrinter consumable materials cost a fraction of competitors', and no material is wasted printing disposable structures to support models inside the build chamber, as with other prototyping systems. Since ZPrinting requires no supports, designs can easily be stacked and "nested" in the ZPrinter build chamber for sufficient throughput to serve the entire engineering team. ZPrinters produce no hazardous waste and require no special ventilation or work stands. Unmatched automation significantly reduces printer touch time.

The ZPrinter 650 delivers the industry's biggest models with the highest-quality color and finest resolution. With the largest build volume of any 3D printer, it enables users to print very large multicolor models in hours or to make many smaller models at once. Superior size and color come with more than double the resolution of other devices: 600 x 540 dpi. The ZPrinter 650 combines these qualities with Z Corporation's documented speed, automation and office compatibility.

"Timberland is a great example of how 3D printing can streamline and improve the entire development process from concept through manufacturing," said Z Corporation Vice President of Global Sales and Services Ed DeArias. "With ready access to affordable prototypes, companies can improve quality, shorten cycles, contain costs and improve communication throughout the company. Other manufacturers

are discovering these benefits every day."

(1) Lasts are the models of "standard" feet around which shoes are designed.

 [Click here to return to Contents](#)

Product News

KOMPAS-3D V11 Coming Soon

11 August 2009

ASCON Group, developer and integrator of CAD/AEC/PLM solutions, announces an upcoming release of KOMPAS-3D V11, the latest version of the company's solution for professional, powerful and cost-effective Parametric Mechanical Computer-Aided Design. The considerably improved and extended version of the software to be launched in October 2009.

This release of KOMPAS-3D V11 will include more than 50 updates and novelties, which are intended to increase efficiency, quality and speed of designing process. Among them are:

- considerably interface improvements;
- series of new features for working with parts, bodies and assemblies;
- new abilities for 3D curves and surfaces modelling;
- enhancements in import of various CAD formats (SAT, STEP, IGES, Parasolid, STL) etc.

Also in an installation package of KOMPAS-3D will be added a wide range of new add-ons:

- Steel Structures 3D application, which is intended for automation of design process of metal constructions from metal rolling profiles. The library is a perfect solution first of all for using in the area of machine building and designing of steel frameworks
- Standard Parts library is the new database supplied with the library contains fasteners according to DIN and ISO standards
- Unwrap library, intended to automate the design of dust, gas and air flues, pipelines and similar parts of sheet material.

All customers of KOMPAS-3D V10 will be upgraded to the new version for FREE. Today it is especially important to stay competitive with a minimum investments, so don't miss an opportunity to purchase the full-functional MCAD software for highly reduced, current prices till October and benefit from update to the latest version, KOMPAS-3D V11, technical support and CAD online trainings within one year absolutely for FREE.

For more information or purchasing of software solutions, please, contact us directly at contact@ascon.net or find KOMPAS reseller nearest to you at <http://www.ascon.net/purchase/resellers/>.

 [Click here to return to Contents](#)

Latest Version of MapleNet Makes it Easier than ever to Incorporate Powerful Mathematical Services and Content on Web Sites

12 August 2009

CIMdata PLM Industry Summary

Maplesoft™ announced the latest version of its product MapleNet™, which enables the deployment of live technical knowledge and applications on the web. MapleNet 13 is a tool for sharing live calculations, interactive technical documents, and mathematical services over the Internet.

MapleNet 13 makes it easy for programmers and non-programmers alike to provide rich mathematical content and sophisticated plots in interactive applications and web content. MapleNet also provides a standard web services application programming interface (API), making the computational power of Maple™ available everywhere you are connected -- on a web site, desktop computer, or mobile device.

Web content that requires use of static plots and mathematical expressions, such as those often found in technical reports or course notes, can now be created by including a special hyperlink to MapleNet in the web page. No web programming knowledge or tools are required. MapleNet will automatically generate and display an image of the mathematical expression or plot in the web page.

MapleNet 13 uses a powerful and extensive mathematical engine to perform its computations. Maple 13, the newest release of the technical computing software, includes enhancements to its mathematical and plotting abilities that provide additional power and increased performance to MapleNet users.

"MapleNet has always been a great tool for preserving and sharing technical knowledge; now it has an even greater role to play in an organization," said Laurent Bernardin, Executive Vice President, Maplesoft. "It provides the perfect mechanism for using Maple's power to generate web applications and then to rapidly exchange the technical knowledge in a way that can be used for analysis and problem solving. Companies now have a flexible and powerful system with significant gains in productivity and efficiency."

Visit <http://www.maplesoft.com> to learn more.

 [Click here to return to Contents](#)

National Instruments and SolidWorks Collaborate on a Virtual Prototyping Solution

11 August 2009

National Instruments, a leader in control design and embedded systems, and Dassault Systemes SolidWorks Corp., a leader in mechanical design software, announced their collaboration on a pioneer mechatronics tool that helps mechanical and control engineers work together to lower the cost and risk of motion system design. Seamlessly connecting NI LabVIEW graphical system design software and SolidWorks 3D CAD software, the new virtual prototyping solution helps engineers and scientists design, optimize, validate and visualize the real-world performance of machines and motion systems before incurring the costs of physical prototypes. Because LabVIEW is used for controlling the virtual prototype, engineers and scientists can deploy their graphical software to physical NI hardware with little to no change to the code.

"The increasing complexity of machine designs demands better collaboration between different engineering disciplines including mechanical, electrical and control," said Jeff Ray, CEO of DS SolidWorks. "SolidWorks and National Instruments have developed a prototyping solution that dramatically shortens the gap between idea and reality."

Mechatronics-oriented design tools improve machine development by simulating the interaction between mechanical and electrical subsystems throughout the design process. Historically, teams of engineers from different disciplines worked in silos and in sequential development. Design decisions were made independently, resulting in longer development times and higher costs. Now, to streamline

CIMdata PLM Industry Summary

development in a mechatronics approach, the teams work in parallel and collaborate on design, prototyping and deployment. The ability to create virtual prototypes is a critical aspect of the mechatronics approach because it helps engineers and scientists explore machines before they are built.

"We live in a multi-domain world, so designers should have access to best-of-class tools in each domain," said Dr. James Truchard, president, CEO and cofounder of National Instruments. "By combining two of the most powerful design tools, LabVIEW and SolidWorks, we are giving engineers and scientists a new way to collaborate more effectively and innovate more quickly."

The seamless integration of the LabVIEW 2009 NI SoftMotion Module and SolidWorks software delivers a design environment that is ideal for virtual prototyping. Existing SolidWorks CAD models can be easily connected to LabVIEW, which automatically links the motor actuators and position sensors defined in the model. Using the high-level functions provided by the NI SoftMotion for SolidWorks, engineers and scientists can develop sophisticated motion control applications that include logic based on sensor feedback. Design teams, customers and sales engineers then can use the virtual prototype to visualize realistic machine operations and analyze cycle time performance. By using LabVIEW and SolidWorks, the mechanical dynamics of a machine, including mass and friction effects, as well as motor and mechanical actuator torque requirements, can be simulated before parts are specified.

"The [SolidWorks](#) and LabVIEW connection gives our R&D teams the ability to develop a virtual prototype in advance of a physical build," said Dr. John White, chief engineer at NCR Corporation. "LabVIEW controls the motion trajectories while SolidWorks can be used to calculate the driving forces, power requirements and stresses. Together, these two development tools provide our engineers with the data needed for full design analysis and optimization."

The new virtual prototyping solution also makes it easy to deploy motion applications, validated using the SolidWorks 3D CAD environment, to NI embedded control platforms such as the NI CompactRIO programmable automation controller (PAC). Because the application was developed in LabVIEW, the same code used to create the virtual prototype can be deployed to physical NI hardware with little to no programming changes. Additionally, engineers and scientists can use the new NI 951x C Series drive interfaces to achieve direct connectivity to hundreds of stepper and servo drives and motors from NI and third-party vendors.

Readers can visit <http://www.ni.com/digitalprototyping> to learn more about the tools available for virtual prototyping.

 [Click here to return to Contents](#)

RAND Worldwide Releases the Advanced Data Migration Import Tool (ADMIT) Version 2.4

13 August 2009

RAND Worldwide announced that its Professional Services division launched an enhanced version of the Advanced Data Migration Import Tool (ADMIT).

The import of large amounts of electronic data into a Product Lifecycle Management system is a challenging task. Accuracy must be measured in order to assure data integrity. A majority of the time spent performing the Data Migration is expended on trying to manually attain and measure the accuracy of the migrated data. Utilizing the expertise from our dedicated team of knowledgeable PLM specialists, coupled with our proficiency in hardware and networking, RAND Worldwide created the ADMIT utility

CIMdata PLM Industry Summary

to help alleviate the challenges and time spent tackling electronic data migration, ensuring accuracy and traceability.

Developed specifically for our clients utilizing Dassault Systemes' ENOVIA SmarTeam software, the ADMIT utility enables users to address the complete scope of Data Migration. ADMIT functionally supports the development of a comprehensive Data Migration plan, including documentation, definition, testing, and measurement of the results. The out-of-the box advanced technology reduces migration time and effort, while improving accuracy through automating and recording the results/progress.

The key enhancements of the ADMIT utility include:

- The ability to update Primary Key attributes using virtual fields
- Saves screen visual settings (column widths, sort orders, etc.)
- Ability to update objects searching on non-Primary Key fields (e.g. update by Part Number)
- Ability to generate file names from both object attribute values and data input fields
- Enhanced error reporting
- Added ability to generate Mappings Report and Statistics Report to MS Excel, MS Word or Text files
- Improved handling of mapping the File Type field if several overlapping methods are used in an import job
- Added ability for future data import jobs operating on a TDM_ID value generated by an earlier import job

“You really need to have experienced the difficulties of using the traditional import tools to truly appreciate the value of RAND Worldwide’s ADMIT utility,” said Amy Mueller, MIS Engineer, Toyota Industrial Equipment Manufacturing. “It ensured our data migration was a fast, easy, accurate, and most importantly a traceable import of our flat file legacy data.”

To view the ADMIT utility brochure please visit <http://rand.com/1/professional/professional.htm>, for more information please contact George Mallory at gmallory@rand.com.

 [Click here to return to Contents](#)

Siemens PLM Software Announces NX PCB Exchange for Zuken

30 July 2009

[Siemens PLM Software](#) announced NX™ PCB Exchange for Zuken, a new application of NX software. The new solution provides direct data exchange between NX and Zuken’s CR-5000 Board Designer, a software application for printed circuit board layout, facilitating mechanical and electrical design team collaboration and significantly improving efficiency and optimization throughout product development.

“The NX PCB Exchange for Zuken package leverages our close relationship with Zuken to expand the current printed circuit board modeling capabilities in NX,” said Joan Hirsch, Vice President of Product

CIMdata PLM Industry Summary

Design Solutions for Siemens PLM Software. “This product features an enhanced dataset including not only trace and layer data, but also flexible bend region data which is unique to the NX and CR-5000 exchange. Exchanging the enhanced data set natively enables NX and CR-5000 users to streamline their MCAD and ECAD workflows. This new capability has especially high value for products where space and weight constraints are critical.”

NX PCB Exchange for Zuken delivers several capabilities that facilitate collaboration between mechanical and electrical design teams.

- Directly generates NX 3D assembly models of a printed circuit board and its components from the Board Designer data and makes it usable by all NX applications for design review and simulation.

- Provides the ability to bend or flatten a board design for assembly parts.

- Offers the ability to transmit data such as the board outline, component placements, hole placements, patterns, masks, resists and pads bi-directionally between Board Designer and NX.

“Electronic device manufacturers not only pursue styling and performance, they must sharply reduce processes from design to prototyping by effectively utilizing 3D information in order to survive the development race for product lifecycles that have been reduced to an unprecedented degree,” said Kazuhiro Kariya, chief technical officer, Zuken Inc. “For NX and CR-5000 users, this collaboration is extremely significant and compelling due to its potential to produce significant customer value with minimal additional costs.”

According to the 2009 Package Solution Marketing Report from Fuji Chimera Research Institute, Inc., in recent years, a wider range of manufactured products are employing PCBs, which make the interaction between mechanical and electrical designs more important. Traditionally the designers tried to connect those two domains with their own communication links. The direct link between MCAD and ECAD enables designers in both disciplines to share information and reflect the information on their CAD data comments.

NX PCB Exchange for Zuken is scheduled to ship at the end of this month.

 [Click here to return to Contents](#)

Synopsys Delivers Comprehensive HDMI IP Solution for 90-nm to 40-nm Process Technologies

13 August 2009

Synopsys, Inc. announced the broad availability of silicon-proven High-Definition Multimedia Interface™ (HDMI™) transmitter and receiver digital controllers and PHY IP solutions as part of Synopsys' DesignWare IP portfolio. Synopsys' [DesignWare® IP for the HDMI](#) interface is compliant to the standard specification and supports High-bandwidth Digital Content Protection (HDCP). Synopsys also provides a roadmap for HDMI 1.4 with product availability anticipated at the end of 2009. The IP is available in leading process technologies from 90-nm down to 40-nm, and includes sample software drivers for system development. Synopsys' HDMI IP solution is differentiated in terms of feature set, available process nodes and worldwide technical support.

The DesignWare HDMI IP offering includes a comprehensive set of IP deliverables that helps designers quickly embed this complex interface into next generation multimedia SoCs with less risk. Furthermore, the DesignWare HDMI IP solution provides differentiated features including:

CIMdata PLM Industry Summary

Superior analog front end to support longer HDMI cables, while maintaining high performance

Configurable RTL allow designers to optimize gate count and power consumption by choosing only the features required in their application

Built-in (on-die) termination resistors for lower bill-of-materials

Numerous optional features as well as a choice of various video and audio interfaces for ease of integration

"Valens continues to develop next generation products for the high definition home entertainment market, and we chose Synopsys to provide us with a high-quality, compliant HDMI IP solution that would help us quickly implement the latest functionality into our advanced SoCs," said Massad Eyal, vice president of research and development R&D at Valens Semiconductor. "Synopsys' silicon-proven DesignWare HDMI IP enables us to deliver compelling products to the market faster and with significantly less risk."

"HDMI has emerged as the de-facto multimedia interface standard for high-definition consumer electronics and mobile devices," said John Koeter, vice president of marketing for the Solutions Group. "With Synopsys' extensive customer base, established sales and support infrastructure, and vast porting capabilities, designers can turn to a trusted HDMI IP solution that can be integrated into their SoC with less risk and improved time-to-market."

Availability

The DesignWare HDMI 1.3 Transmit and Receive Controllers and PHY IP are available now in leading 90-nm, 65-nm, 45-nm, and 40-nm process technologies. The DesignWare HDMI 1.4 IP solution is currently in development and anticipated to be available at the end of 2009. For more information DesignWare HDMI IP, please visit: www.synopsys.com/hdmi

 [Click here to return to Contents](#)