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CIMdata News

CIMdata Announces a New Opinion Poll: Has your company's situation changed regarding your PLM program progress since January of this year?

5 June 2009

The economic climate of the past several months has been difficult for many companies around the world, and has impacted the priorities and programs for many initiatives, including PLM. What impact has this climate had on your PLM program progress and its direction since January 2009? Take a few seconds to let us know by voting [here](#).

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

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

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Company News

ASCENT- Center for Technical Knowledge Releases Three Training Guides for Autodesk® 2010 Software

4 June 2009

[RAND Worldwide](#) announced that its courseware division, ASCENT – Center for Technical Knowledge®, released three training guides for Autodesk® 2010 software:

- AutoCAD® 2010 Update for AutoCAD 2008 Users
- AutoCAD® 2010 Advanced
- Autodesk® Inventor® 2010 Advanced Part Modeling

AutoCAD 2010 Update for AutoCAD 2008 is the ideal training guide for current users of AutoCAD 2008 upgrading to the AutoCAD 2010 software. The training guide incorporates the many enhancements made to the interface, including the Quick Access Toolbar, the Ribbon, and the Application Menu. A detailed introduction to geometric and dimensional constraints for 2D objects, dynamic blocks, and the DWFx file format is also included.

AutoCAD 2010 Advanced has been designed to increase the proficiency of students in their use of AutoCAD and introduce them to more advanced techniques. Intended for students comfortable with the topics covered in AutoCAD 2010 Fundamentals, this training guide is designed to demonstrate the versatility of AutoCAD by showing a range of advanced options.

Autodesk Inventor 2010 Advanced Part Modeling is the second training guide in a series of courseware for Autodesk Inventor from ASCENT. The goal is to build on the material covered in the Autodesk Inventor Introduction to Solid Modeling training guide by taking students to a higher level of productivity when designing part models in Autodesk Inventor.

“Our experienced team of courseware developers investigates the key enhancements in new software releases,” said Joe Oswald, Executive Vice-President, PLM Operations, North American and Europe, RAND Worldwide. “ASCENT strives to ensure users of our courseware achieve maximum productivity

from their chosen engineering tools.”

ASCENT is an Authorized Author, Publisher, and Developer of Autodesk® curriculum. All of the courses authored by ASCENT for Autodesk software are available to educational institutions, individuals, and corporations.

ASCENT will also be releasing Civil 3D 2010 Fundamentals in June. To see the company’s complete courseware lineup for Autodesk, Dassault Systèmes, and PTC software solutions, please visit <http://www.ASCENTed.com>.

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COADE Article on Plant Design Software Integration Featured in Hydrocarbon Processing March 2009 Issue

1 June 2009

[COADE](#) announced that the March 2009 issue of Hydrocarbon Processing magazine features an article from COADE that discusses the importance of information sharing and what software companies are doing in the area of integration to provide users with the correct information when and where it is needed.

The article discusses key factors that need to be addressed to ensure that information is to be used effectively. These include identifying and providing the correct information needed at each point of the project lifecycle and making it easy and advantageous for the users to effectively apply the information that is provided at their points in the project lifecycle. The article goes on to describe how integrated plant design and engineering solutions allow information to be made accessible to others in either a read-only or editable form and automate the creation of deliverables such as 2D fabrication isometrics from the piping model, bills of material and reports.

A copy of the article can be found at <http://coade.typepad.com/coadeinsider/2009/05/hydrocarbon-engineering-may-2009.html>.

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Dassault Systèmes Helps Bring First Ever World Expo Online to Life

5 June 2009

Dassault Systèmes ([DS](#)) announced that Bureau of Shanghai World Expo Coordination has chosen the company’s 3DVIA, to create the first ever World Expo Online in the Expo’s 158-year history. With the help of 3DVIA 3D virtual technology, World Expo Shanghai Online will be accessible to anyone anytime, providing virtual visitors with 3D lifelike experiences, real-time interaction and a global platform to allow everyone’s online presence at the Expo.

Using Dassault Systèmes’ 3DVIA, in conjunction with Web3D and multimedia technologies, Expo Online will build a virtual park of the 5.28-square kilometer 2010 Expo site and hundreds of virtual pavilions in 3D, allowing visitors to experience the entire Expo site and travel freely from one pavilion to another with just the click and drag of a mouse. Virtual visitors can participate in all kinds of 3D interactive activities and watch online broadcast of events of the physical Expo anytime. Expo Online will also create the “City of Future”, leveraging the concept and format of online gaming to collaborate creatively among visitors from around the world and jointly build a harmonious city of the future.

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Expo Shanghai Online is expecting more than 100 million viewers, making the 2010 Expo the most important World Expo ever with participants from around the world. Expo Shanghai Online will be permanently preserved after the physical Expo ends, creating an everlasting virtual exhibition for future generations.

“World Expo Shanghai Online is a revolutionary creation. It is not a simple copy of the physical Expo, but an introductory channel, extension and supplement to the Expo. Through the 3D lifelike experience technology, we are able to comprehensively present World Expo,” said Wang Liping, Chief Operation Officer of Expo Website Management Office and Deputy Director of Expo Communication & Promotion Dept. “As the host of 2010 World Expo, our responsibility is to carry its innovative spirit and extend it to every corner of the world. Thanks to the diversity, interactivity and broad coverage brought by the Internet in the era of Web 2.0, in conjunction with Dassault Systèmes’ 3D lifelike experience technology, Expo Online will bring more people to participate in and benefit from this special event of human civilization. The valuable cultural legacy from Shanghai World Expo will also be preserved forever in the virtual world.”

Bernard Charlès, President and CEO of Dassault Systèmes, said: “It is an honor for us to help realize the world’s first ever World Expo Online. For more than a century, the World Expo has provided a platform for dreamers and innovators to present great creations and ideas, opening new doors to human civilization. Dassault Systèmes, as a global citizen, is committed to creating an unprecedented platform allowing free imagination from everyone. With the advanced 3D lifelike technology and collective intelligence from online communities, we can bring dreams from the virtual world to real life and make our world a better one.”

The 3DVIA Virtools technology that enables people to virtually explore and participate in Expo Online is extensively used in many scenarios, including product experience, city planning, retail shopping experience, simulation-based training, advertising or even Internet marketing. In fact, 3D lifelike experience technology is already widely used by a broad range of industries including aerospace, automobile, construction, consumer packaged goods and apparel. Through precise design, simulation and manufacturing of a product in the virtual world prior to its actual production, material waste and energy consumption can be significantly reduced, leading to lower cost and shorter product development time. Bird’s Nest, the 2008 Beijing Olympic Games Stadium and Shanghai World Financial Center, the world’s tallest building, are both built using Dassault Systèmes’ 3D-based technologies and simulation solutions.

The domain name of World Expo Online is <http://www.expo.cn/>. The beta version will go live in 2009, and the official launch date of World Expo will be May 1, 2010. More than 200 official participants from around the world and 31 participants from China’s domestic provinces and enterprises will take part in Expo Shanghai Online.

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Delcam PartMaker and TAJMAC-ZPS Join Forces

5 June 2009

Delcam, the developer of PartMaker SwissCAM software, and TAJMAC-ZPS, the builder of Manurhin Swiss-type lathes, have entered into a strategic partnership to greater enhance the productivity and ease of programming for the latest Manurhin KMX line of CNC Swiss-type lathes.

This partnership marks a move by Czech-based TAJMAC-ZPS to encourage off-line programming of its

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machines to increase productivity. Under the terms of the partnership, applications engineers at TAJMAC-ZPS will undergo training on PartMaker SwissCAM for use on their applications requirements and cooperate with Delcam to factory test and approve post processors in support of programming for the expanding line of Manurhin CNC machine models.

“PartMaker will simplify the set-up and programming of Swiss-type equipment thus increasing the confidence of customers choosing our Manurhin machines,” emphasized Tomas Dederle, Sales Manager for Manurhin products at TAJMAC-ZPS. “We also want existing Delcam customers to feel confident in SwissCAM’s ability to support TAJMAC-ZPS powerful line of Manhurin machine tools to enhance their productivity, as well as older machines they may currently operate. The added capability of being able to work from imported customer data formats further adds to ease of use, reducing programming and set-up times.”

“Working together with TAJMAC-ZPS to develop and fully test the compatibility of our solutions provides added value to our mutual customers,” elaborated Hanan Fishman, President of Delcam’s PartMaker Division. “We are committed to working closely with machine tool builders to ensure that we stay ahead of the latest requirements of Swiss machining.”

Pavel Šimonek, Director of Delcam’s reseller in Brno, Czech Republic, was quick to add, “The close proximity of the Delcam Brno office to the TAJMAC-ZPS location in Zlin assures them our highest level of local language support and expertise.”

Bill Shields, Technical Director for Delcam’s PartMaker Division was involved first hand, working with the TAJMAC-ZPS technical team in Zlin. He remarked, “The level of co-operation, support and hospitality extended by the engineering team at TAJMAC- ZPS was exceptional. With this kind of expertise, it’s easy to achieve excellent results.”

More on TAJMAC-ZPS

TAJMAC-ZPS (a member of TAJMAC-MTM group) is a fully integrated and developed multinational company with a long lasting tradition in quality and high expertise in the manufacture and development of machine-tool technology. The company played a significant historic role in the early development of Central and Eastern Europe’s precision machine tool industry, and, with a more than 100 year history, has evolved into a key player in the international market offering a wide range of quality machine tools.

For further information on TAJMAC-ZPS, please contact:

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Dysart Unified School District Receives In-Kind Software Grant from Siemens PLM Software Valued at \$35 Million

2 June 2009

[Siemens PLM Software](#) announced an in-kind software grant with a commercial value of US\$35 million to Dysart Unified School District to enrich their engineering curriculum and provide training for students preparing to enter the workforce.

Dysart Unified School District, one of the fastest growing school systems in Arizona, received the in-kind grant through the [Siemens PLM Software's GO PLM™](#) program. The grant includes engineering software, student/instructor training and a specialized certification program.

“Dysart Unified School District is tremendously thankful for this in-kind grant,” said Scott Thomas, M.Ed., CD, architecture teacher, Dysart Unified School District. “On behalf of Dysart Unified School District, I want to express sincere appreciation to Siemens PLM Software for providing this industry leading software to our academic institution. Innovative development combined with extensive industry experience incorporated over several decades has made their software a comprehensive product development tool. It is not only strong in advanced design capabilities, but also provides students with experience in the latest manufacturing technology and theory.

“Our design drafting classes will benefit significantly from using Siemens PLM Software in our courses, where students will be able to develop real-world products and gain the latest knowledge of PLM processes. We expect graduating students will have job opportunities and will be able to stay in Arizona,” added Thomas.

“As a high school student in the Signature Architecture Program in the Dysart Unified School District, I have the extraordinary opportunity to work with some of the world's most advanced CAD software programs, such as Solid Edge® software from Siemens PLM Software,” said Dylan Martin, a Dysart Unified School District Architecture Program student. “I certainly will have obtained a vast amount of design drafting competencies, especially in Mechanical disciplines, through the use of Solid Edge and other Siemens PLM Software tools.”

“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, Global Marketing, Siemens PLM Software. “It's quite clear that today's best students in top programs, like the program at Dysart Unified School District, must have the opportunity to gain experience with technology that supports these objectives.”

For more information on GO PLM and the partners and programs it supports visit www.siemens.com/partners/goplms.

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EMC Expands Developer Resources to Deliver Unprecedented Openness to World's Leading Enterprise Content Management Platform

2 June 2009

EMC Corporation reinforced its continued commitment to a vibrant developer community by offering free, full-function developer editions of its enterprise content management (ECM) products and launching two new online communities dedicated to EMC Documentum and XML developers. Through

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the Documentum and XML communities, developers will have open access to resources that includes code samples, tutorials, full product documentation and "getting started" guides.

As part of today's announcement, EMC unveiled the following new offerings to further advance Documentum as the premier platform for building content-enabled applications rapidly:

EMC Documentum Content Server Developer Edition provides developers free access to ECM Documentum software. It offers a "one-click" deployment that can be run on a laptop so that developers can quickly start creating their Documentum-based solutions.

EMC Documentum xDB Developer Edition provides developers a scalable, high performance, native XML database at no cost for development and testing. xDB represents the industry's most comprehensive support for XML standards in the development of applications such as dynamic Web sites, personalized publishing and content warehousing.

EMC Documentum Content Server OEM Edition 6.5 provides independent software vendors with a self-contained rapid application development environment to enable them to focus on building business applications instead of an information infrastructure.

.NET Productivity Suite makes it easier for developers to conduct fast and quality integrations with Microsoft applications such as SharePoint by allowing them to work exclusively in a Microsoft environment.

EMC Documentum Content Services for Salesforce CRM allows developers to embed Documentum content services within Salesforce CRM. This provides the flexibility of sharing critical documents through Salesforce CRM while keeping sensitive content safe and protected within Documentum.

"This expanded investment in developer resources demonstrates our continued commitment in making Documentum the premier platform on which developers can build their content-enabled applications rapidly while keeping their costs of implementation and support low," said Whitney Tidmarsh, Chief Marketing Officer, Content Management and Archiving Division at EMC. "Through our various online communities, developers can take full advantage of free tools and content as well as work together and foster the growth of the Documentum community."

The Documentum and XML Developer Communities are hosted on the EMC Community Network (ECN). The ECN is a collection of online communities, including the EMC Developer Network, designed for engineers and developers who work with and/or have special interest in EMC products and technologies. ECN is also home to the Documentum Community designed for users of Documentum products who are seeking resources, collaboration and networking support through community engagement. To join the community, please visit community.EMC.com/go/Documentum.

All products are available today. The free developer editions of Content Server and xDB are for development, testing and trial only. Standard licensing fees apply for production and run-time deployments.

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Howard University Receives In-Kind Software Grant Valued at \$150 Million from Siemens PLM Software; Largest-Ever for the University

2 June 2009

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[Siemens PLM Software](#) announced a series of in-kind software grants valued at more than \$150 million to Howard University. Taken together, the grants represent the largest in the history of Howard University.

Siemens PLM Software made this announcement in conjunction with the Business Software Alliance CEO Forum, a gathering of chief executives from the software and computer hardware industry being held in Washington D.C. Siemens PLM Software CEO Tony Affuso and the other executives will discuss the economy and technology policy issues with senior officials in the Obama Administration and in Congress, highlighting the many ways that information technology delivers solutions to the nation's most pressing economic and social challenges.

The in-kind grants were made through [Siemens PLM Software's GO PLM™ Program](#) and include engineering software, student/instructor training and specialized certification programs. Designed for engineering, engineering technology, manufacturing, industrial design, and design and drafting programs, these software tools are instrumental in educating the next generation of PLM engineers and technologists and preparing them for future careers.

"We want to express our gratitude to Siemens PLM Software for their generous donation. By using the same world-class design and engineering tools that leading-edge companies use, we're strengthening our engineering curriculum and ensuring that our students gain the essential knowledge and practical experience necessary to prepare them to enter the workforce as future engineers," said James H. Johnson, Jr., Dean College of Engineering, Architecture and Computer Sciences, Howard University.

"Our customers include some of the world's most innovative companies and they rely on our software solutions to design and develop some of the most widely used products and services across various industries including consumer packaged goods, high tech and electronics, automotive, aerospace and defense, among others," said Dave Shirk, executive vice president, Global Marketing, Siemens PLM Software. "When looking for new employees, these companies are far more likely to select a candidate that is well-versed with the tools that are utilized in their organization. We're proud to be expanding our software grant program across schools and universities nationwide, and helping to facilitate and nurture the careers of the next generation of engineers."

About Howard University

Howard University is one of only 48 U.S. private, Doctoral/Research-Extensive universities, comprising 12 schools and colleges with 10,500 students enjoying academic pursuits in more than 120 areas of study leading to undergraduate, graduate, and professional degrees. The University continues to attract the nation's top students and produces more on-campus African-American Ph.D.s than any other university in the world. Since 1998, the University has produced a Rhodes Scholar, A Truman Scholar, six Fulbright Scholars and nine Pickering Fellows.

For more information on GO PLM and the partners and programs it supports visit www.siemens.com/partners/goplms.

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IBM Announces 2009 Rational Business Partner Award Winners

1 June 2009

IBM announced the winners of the 2009 IBM Rational Business Partner Awards at the Rational Software Conference. These awards recognize IBM Business Partners that have helped clients drive greater value from their investments in software and improve software delivery. Winners were selected

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in five awards categories spanning the IBM Rational software portfolio.

The IBM Rational Business Partner community continues to grow, with more than 1,000 business partners that have re-sold and fulfilled IBM Rational software products last year. At the same time, more than 75 Independent Software Vendors (ISVs) have delivered more than 100 integrations of their products with the IBM Rational portfolio of offerings through the [Ready for IBM Rational](#) program, an increase of over 40% in the last year. Additionally, [IBM Rational Ensemble](#), a community for IBM business partners that provides ISVs, resellers and systems integrators (SIs) with education and services for IBM Jazz-based technology, has grown to encompass over 1,300 members worldwide, an increase of over 800% since its inception a year ago.

With the rapid expansion of the IBM Rational Business Partner community, IBM is rewarding and highlighting excellence in partner solutions which enable clients to drive greater value from their investments in software and improve software delivery. The award winners have proven that they demonstrate a deep technology and industry expertise with IBM Rational software and are delivering exceptional solutions that solve real business problems.

Chosen from several hundred eligible business partners, winners will be honored during the [IBM Rational Software Conference](#) keynote session on Wednesday, June 3. The 2009 IBM Rational Award winners by category are:

Outstanding Solution by an Independent Software Vendor (ISV) - [Ravenflow](#)

The Outstanding Solution by an Independent Software Vendor Award recognizes Ravenflow for excellence in developing an effective solution that's enabled by IBM Rational Software. Ravenflow, a leader in Rapid Requirements Definition, and their solution, Raven, empowers business analysts to transform the way they elicit, specify, and validate stakeholder requirements.

[Sowre Consulting España, S.L.](#) was selected as a finalist in this category.

Outstanding Collaborative ALM (Application Lifecycle Management) Solution by a Systems Integrator (SI) Award - [Accenture](#)

The Outstanding Collaborative ALM (Application Lifecycle Management) Solution by a Systems Integrator (SI) Award recognizes Accenture, a global management consulting, technology services and outsourcing company, for excellence in the implementation of effective and innovative customer solutions enabled by IBM Rational Software. Designed for both small project teams (5-10 users) to large project teams (600-1000 users), Accenture Delivery Tools provides a turnkey, out-of-the-box solution for application lifecycle management.

Outstanding Quality Management Solution by a Systems Integrator (SI) Award - [Sogeti](#)

The Outstanding Quality Management Solution by a Systems Integrator (SI) Award recognizes Sogeti, a leading international provider of professional IT services for excellence in the implementation of effective customer solutions enabled by IBM Rational Software. Sogeti's Business Driven Test Management approach integrates Sogeti testing services and structured methodology with IBM Rational software for a collaborative solution for quality software delivery that enables clients to reduce software development costs, risks and time.

Outstanding Solution by a Value Added Reseller / Regional Systems Integrator - [Prolifics](#)

The Outstanding Solution by a Value Added Reseller / Regional Systems Integrator Award recognizes Prolifics for excellence in implementing an effective and innovative customer solution enabled by IBM

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Rational Software. Prolifics, one of the largest end-to-end systems integrator specializing in IBM technologies, is the winner for its RUP-based AgileSOA development methodology, blueprint and assets utilized at customer, mBlox, for its SOA and Portal initiative. This allows clients to streamline coordination of activities across various development teams and vendors involved in the process, enabling everyone to manage and understand tasks, roles, milestones and see deliverables.

[Praxis Engineering Technologies, Inc](#) was selected as a finalist in this category.

Outstanding System-Focused Solution -- [RocketGang](#)

The Outstanding System-Focused Solution Award recognizes RocketGang for excellence in developing an effective systems-focused solution enabled by IBM Rational Software, including Telelogic products. RocketGang, a provider of software engineering and consulting services & training in IBM Rational and Telelogic products, wins this category for their team of experts. Their offerings provide a spectrum of pre- and post-sales services designed to help customers be successful with software delivery and benefit from reduced expenses, improved productivity, and time savings from increased efficiencies.

Top Marketing and Sales Rational Business Partner -- [Ascendant Technology \(Atech\)](#)

The Top Marketing and Sales Rational Business Partner Award recognizes Ascendant Technology (Atech) for excellence in the promotion and delivery of Rational-based customer solutions as measured by their participation in IBM's Software Value Incentive program (SVI) and Value Advantage Plus. Atech, an end-to-end solution provider specializing in web-based solutions, wins this category for their significant revenue contribution to Rational Software. As a Reseller and Systems Integrator dedicated to IBM Software, Atech has leveraged valuable IBM co-marketing funds to deliver Proof of Technology and Business Value Assessments to close Rational sales and ensure clients realize value with successful deployment.

[Island Training Solutions](#) was selected as a finalist in this category.

"The growth of the Rational Business Partner community demonstrates the important role that these partners play in the overall success of IBM," said Michael Loria, vice president, Business Development, IBM Rational Software. "This year's Rational Award winners have demonstrated solutions which improve the software delivery capabilities of our customers, and help them drive greater value from their investments in software. We congratulate them on being selected as a recipient of this year's Rational Awards and for achieving this honor."

These IBM Rational Business Partner solutions result in quantifiable improvements in business performance through their use of IBM Rational software. Winners were determined based on criteria including the use of multiple IBM Rational software solutions in the deployment of customer applications, lists of references, and successful engagements including business partner certifications. Consideration was also given to IBM Business Partners who have actively engaged, participated and demonstrated opportunity identification and ownership of small and medium-sized business opportunities and new customers through the use of marketing and field activities, as well as participated in IBM Rational sponsored events.

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Lattice Technology Releases Chapters 3 and 4 of its New Lean Manufacturing Book, Available Free of Charge

1 June 2009

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[Lattice Technology](#) released Chapters 3 & 4 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.

Chapter 3 summarizes how 3D CAD systems have evolved, and how use of 3D as a design tool has become prevalent. It also explains the market forces and innovation that caused Lattice Technology’s lightweight 3D XVL format to evolve, and the ongoing development that allowed it to be able to change 3D design data into 3D manufacturing data.

Chapter 4 delivers a series of short case studies on how various manufacturers, including Toyota Motor Company and Brother Industries, started to increase ‘3D digital literacy’ across their entire manufacturing operations. These case studies set the stage for more detailed case studies in Chapters 6-12.

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](#).

About Dr. Toriya

Dr. Hiroshi Toriya is the president and CEO of Lattice Technology, which was founded in 1997 with a mission to deliver very lightweight 3D viewing technology. His career started after he graduated from Tokyo University in 1983 with his bachelor’s degree in science, and began development work at Ricoh building a solid modeling kernel as part of Prof. Chiyokura’s team. Dr. Toriya then built the team at Ricoh that supported, sold and further developed the resulting DESIGNBASE kernel. In 1989 Dr. Toriya gained his PhD on the strength of his thesis “A study of an Interactive Solid Modeler Containing Free-form Surfaces”. He was appointed president and CEO of Lattice Technology in 1999.

Dr. Toriya has previously published 2 books, both in Japanese and English, titled "3D CAD principles and applications", (Springer-Verlag) and "3D Manufacturing Innovation", (Springer-Verlag). This latest book, “Improving Lean Manufacturing Through 3D Data” is also available in hard cover, in Japanese, from JIPM Solutions.

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Lectra Appoints Hervé Claverie Director of Projects and Strategic Accounts Worldwide

3 June 2009

Lectra announced the appointment of Hervé Claverie as Director of Projects and Strategic Accounts worldwide.

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As world markets evolve, manufacturers are moving towards implementing more fully integrated processes -- from the design phase through the industrialization and production stages to the moment when the final product is brought to market. With expert knowledge of its customers' business processes, [Lectra](#) has been able to anticipate this trend and thus offer the most suitable value-added software and services for an integrated process: auditing, business process and product lifecycle management, support for change management, and the implementation of the corresponding Lectra technologies.

Since joining Lectra in 2005, Hervé Claverie has held various marketing management positions across both hardware and software divisions. He has acquired a perfect knowledge of Lectra solutions and of the business processes and issues relating to the Lectra's customers' working environments, ranging from the design to the production of the end-product. In June 2008, Hervé Claverie took responsibility for Projects and Strategic Accounts in the fashion industry. His role has now been extended to all Lectra's markets -- fashion, automotive, furniture and industrial fabrics -- with an approach that focuses on the sale of high value-added solutions and expert services. Based at the company's headquarters in Paris, Hervé Claverie reports directly to Daniel Harari, Lectra CEO.

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McLaren Software Announces Enterprise Engineer Certification for IBM – FileNet P8 4.5

2 June 2009

[McLaren Software](#), an IBM Advanced Business and ECM ValueNet Technology Partner, announced the availability of Enterprise Engineer 3.6.2 SP2 featuring certification for the IBM FileNet P8 4.5 Enterprise Content Management (ECM) Platform. Utilizing the FileNet P8 3.5 compatibility features Enterprise Engineer performance tests have shown an increase of up to 30% across commonly used actions.

In addition to Enterprise Engineer 3.6.2 SP2 tests of the next release (3.6.2 SP3), available August 2009, shows further performance gains through the utilization of the new IBM FileNet P8 4.5 paging features.

Also to be released with Enterprise

Engineer 3.6.2 SP3 offers the ability to approve engineering work packs via Microsoft Outlook 2003 OR 2007 extending the reach of the engineering documentation management process to users who prefer to rely on email to participate.

Together with the improvements in IBM FileNet P8 4.5 installation and configuration routines the combination delivers greater efficiencies and return of investment to McLaren/IBM customers. Working closely with the McLaren Customer Advisory Board and the customer led IBM/McLaren Customer Working Group, McLaren continue to ensure Enterprise Engineer and ECM platform releases are synchronized.

Paul Cheetham Director of Engineering at McLaren Software commented; "With the latest releases of Enterprise Engineer McLaren has responded to customer requests for improved performance and ease of managing engineering work packages."

"Enterprise Engineer has recently earned for McLaren the IBM Information on Demand Specialty Mark awarded to partners who meet IBM's education, certification and technical validation criteria."

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Mentor Graphics Announces 21st Annual PCB Technology Leadership Awards Program

4 June 2009

Mentor Graphics Corporation announced the call-for-entries of its 21st annual Technology Leadership Awards competition, continuing its tradition of recognizing excellence in Printed Circuit Board (PCB) design. Started in 1988, this program is the longest running competition of its kind in the Electronic Design Automation (EDA) industry. It recognizes engineers and CAD designers who use Mentor's technology to address today's complex PCB systems design challenges and produce industry-leading products.

Prominent experts in the PCB industry will judge the contest, including Happy Holden, senior technology specialist of Mentor Graphics; Gary Ferrari, technical support director, FTG Circuits; Pete Waddell, president of UP Media, the publisher of Printed Circuit Designs & Fabrication Magazine; Andy Kowalewski, senior interconnect designer, AdvantagePCB; and Rick Hartley, senior principal engineer, avionics division of L-3 Communications.

This year, entrants will be able to submit their design accomplishments in any of six categories representing a wide variety of industries:

- Consumer electronics and handheld
- Industrial control, instrumentation, security and medical
- Military and aerospace
- Computers, blade and servers, memory systems
- Telecom, network controllers, line cards
- Transportation and automotive

Winners will be named for each category as well as a Best Overall Design. The timeframe for submitting entries is from June 1st through July 31st, 2009. Entrants can apply online at <http://www.mentor.com/go/tla>. This web page also has a video from the judges with helpful hints on how to win.

About the Technology Leadership Awards Contest

Mentor's Technology Leadership Award contest is open to any designs created with Mentor's PCB solutions, including the Board Station® product, the Expedition™ Enterprise product and PADS® design flows. Judging will be based on overcoming complexity challenges, such as small form factor, high-speed content, design team collaboration, advanced PCB fabrication technologies and design-cycle time reduction. Judging will start August 1, 2009 and winners will be announced in conjunction with the PCB Design Conference West in Santa Clara, CA on September 15, 2009.

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NovaQuest Signs V6 Reseller Agreement with Dassault Systèmes

2 June 2009

NovaQuest LLC, the newest Value Added Reseller (VAR) for Dassault Systèmes, has signed an agreement with DS enabling NovaQuest to sell products available in Dassault Systèmes' V6 Product Lifecycle Management (PLM) portfolio. Effective immediately, NovaQuest is the first North American

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VAR in the Dassault Systèmes value selling channel able to provide and support V6 versions of ENOVIA, CATIA, and 3DVIA.

[NovaQuest](#) President and CEO Joel Lemke stated, “This agreement with DS gives NovaQuest the ability to ensure all of our customers are up to speed with the latest DS Technology so they can get an even better return from their PLM investment. Also, it allows the NovaQuest staff, many of whom have helped develop ENOVIA V6 products, to use their expertise to make our customers successful in their V6 implementation and training process.”

Dassault Systèmes’ V6 delivers a single PLM platform for all PLM business processes, available to anybody anywhere, spanning engineering groups, business and end users. V6 also gives intelligent access to all IP no matter the data source location. DS’ V6 online collaborative platform is designed to extend the value of customers’ existing PLM assets. V6 is an open platform, embracing SOA standards and is rapidly deployable.

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RAND Worldwide Introduces PLM Ready User Enablement Solution

2 June 2009

RAND Worldwide announced the introduction of PLM Ready – the user enablement solution for deploying PLM technologies to enterprises.

“Companies have realized the importance of investing in PLM systems in order to increase competitiveness and profitability in their respective industries,” said Joe Oswald, Executive Vice President, PLM Operations, North America and Europe, RAND Worldwide. “However, even with an outstanding system design, companies struggle with training and the deployment of their complex PLM systems. With the launch of our PLM Ready user enablement solution, companies will have higher end-user confidence and productivity, sooner.”

The PLM Ready user enablement solution builds on the Deployment phase of the RAND Worldwide TAKE AIM (Assured Implementation Methodology) program, a proven five-phase project implementation approach, derived from extensive experience with PLM deployments across a variety of industries. PLM Ready employs sound instructional design and technical writing methodologies to target training to various user roles across the organization so that end-users are able to focus on the tasks and processes most pertinent to their area of expertise. Leveraging standard RAND Worldwide training modules, courseware can be quickly adapted to company-specific workflows and environments.

The PLM Ready user enablement solution is delivered in three phases. An instructional analysis is employed in the Discovery phase to gather information on the training goals, audiences, processes, and environment. Following this, companies receive a training plan that details course content, learning aids, and roll-out schedule for the training. In the Development phase, our courseware developers efficiently configure instructional content to produce student training guides, learning aids, eCourseware, and other collateral to meet the training plan.

Finally, in the Delivery phase, training is rolled-out to end-users in formats such as instructor-led, delivered by RAND Worldwide Technical Training Engineers, and self-paced, delivered through the RAND Worldwide ProductivityNOW online portal.

PLM Ready is designed to make end-users proficient with their companies’ PLM technology by providing them with targeted process-based learning. This increases end-user confidence and

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productivity, while reducing overall deployment time and need for follow-up support.

For more information, please contact RAND Worldwide's Education Solutions Representatives at training@rand.com or 1-877-726-3243.

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SolidCAM and ModuleWorks Celebrate 5-years Partnership

4 June 2009

SolidCAM®, provider of a CAM system running in SolidWorks® 3D CAD software and [ModuleWorks](#), a supplier of CAD/CAM components for 5-Axis machining are celebrating 5 years of successful partnership. 5-axis Machining is widely used in the metalworking industry for applications such as Turbine Blade Milling, Impeller Milling, Port Machining and complex Moldmaking.

Way back in 2003, SolidCAM realised the growing demand for 5-axis Machining. Given the technical challenges involved and SolidCAM policy of aiming to provide best-in-class solutions wherever possible, it was decided to partner with ModuleWorks. Initial integration and training built up to the official launch of the simultaneous 5-axis module in SolidCAM2004 R9. The initial reaction from resellers, customers and prospects was very positive and SolidCAM today is at the cutting edge of 5-axis Machining technology. Over the last 5 years SolidCAM has become established as a major player in the 5-axis machining market. Meanwhile SolidCAM expanded its 5-axis technology and added support for additional applications including 5-axis Wood manufacturing, 5-axis trimming, 5-axis drilling and 5-axis laser cutting.

Back in 2003, ModuleWorks was a young company with some highly advanced technology, but only a handful of partners to make this technology available to users. Over the last 5 years, ModuleWorks has grown steadily to a position where it is used by 50% of the leading CAM vendors and has a team of over 30 developers. ModuleWorks Managing Director, Yavuz Murtezaoglu says, "As one of our earliest partners, we have always worked very closely with SolidCAM. Their input and support has helped ModuleWorks 5-axis develop into the powerful software that many people benefit from today".

Dr. Emil Somekh, Managing Director of [SolidCAM](#), states: "In a field as technically challenging as CAM, it is impossible to be the masters of everything. Therefore, at SolidCAM we try to select and integrate the best technology available from specialist development companies. 5-axis machining is one of those areas where a specialist supplier is able to provide a much more powerful and complete solution than could possibly be developed in house. I believe our results over the last 5 years show the success of this policy."

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Tata Technologies Earns Dassault Systemes Honors in India

5 June 2009

[Tata Technologies](#), a global leader in Engineering Services Outsourcing (ESO), Product Development IT services, and Product Lifecycle Management (PLM) announced that the company has earned recognition from Dassault Systemes in India as Best Reseller, Initiative Sales – Automotive Supply Chain – Value Channel.

In accepting this award, presented by Bernard Charles, President and CEO of Dassault Systemes, Samir

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Yajnik, Tata Technologies President – Global Services, said, “This achievement demonstrates the strength and value of the new Tata Technologies structure and go-to-market approach.”

“Tata Technologies utilized its full automotive domain expertise to drive Tier 1 and Tier 2 automotive suppliers toward progressive solutions from Dassault Systemes,” added Wishwas Julka, Tata Technologies Vice President PLM Solutions – Asia Pacific.

At the sidelines of the ceremony, Jaisankar MENON, Director Value Channel Business, Dassault Systemes India said, “Tata Technologies has shown tremendous leadership and execution capabilities in driving business in the supply chain for major automotive OEMs. As a result, numerous small and mid-sized auto parts suppliers across the country have been benefited by the advantages brought by Dassault Systemes’ PLM solutions. This award is to recognize Tata Technologies’ great efforts and contribution to our SMB customers in the automotive industry”.

Summarizing the effort necessary to achieve this recognition, Julka said, “Our success is rooted in the strength of our relationships with automotive OEMs including Honda Siel Cars and Tata Motors. By demonstrating our expertise within these relationships, we are able to recommend and deliver the best possible solutions from [Dassault Systemes](#).”

The recognition also demonstrates Tata Technologies’ strength in the automotive market, and the value it provides to customers, according to Julka.

This is not the first such award for Tata Technologies. The company has previously been honored by Dassault Systems for Outstanding New Business Development, Best Solution Integrator, and has been the recipient of the Dassault Systemes Platinum Award.

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Transoft Solutions Seeks to Spotlight Transportation Engineering's Unsung Designers and Projects

29 May 2009

Transoft Solutions is calling on the designers from the AEC industry (Architectural, Engineering, and Construction) who are users of AutoTURN, ParkCAD, GuidSIGN, AeroTURN, AeroTURN Pro, and TORUS, for project stories, case studies, or whitepapers, to be featured in leading engineering periodicals. In addition to offering designers an opportunity to showcase their work and gain invaluable recognition for their firms, writers of publication ready submissions will receive two AutoTURN Extended Vehicle Libraries.

“It is always exciting to hear about the projects our users have worked on and some of their design challenges,” said Noel Dolotallas, Vice-President, Marketing and Sales. “With there being so many great forward thinking firms and agencies out there, we want to help shine a spotlight on the designers who have consistently completed the ambitious, and innovative projects many people may not be aware of. With the current economic climate being what it is, I’m encouraging everyone to take part in this initiative so that we and our team of writers can help you gain that much-needed exposure for you and your organization.”

Transoft Solutions products and articles are frequently featured in print and digital publications such as ENR, Roads and Bridges, TM&E, Airports International, Passenger Terminal World, Parking Today, World Highways, MicroStation Connections, and more. Designer’s project stories, case studies, or whitepapers proposed for submission can detail any type of architectural, civil / transportation engineering projects and/or unique uses of Transoft Solutions’ software. The desired length for

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submission is between 750 - 1000 words and must contain two 300 dpi images with at least one screen shot.

AEC industry professionals interested in writing about their project successes or require further information are encouraged to contact, Dallas Harris, Public Relations Specialist, by email at dh@transoftsolutions.com or by calling 1-604-244-8387. Complete contact information, including daytime telephone number is required. In order to receive the offer of two free AutoTURN Extended Vehicle Libraries.

To view articles Transoft Solutions has collaborated on previously or for further information about Transoft Solutions' suite of productivity enhancing tools, training solutions, or to download free software demos or sign up for web-based demonstrations, visit <http://www.transoftsolutions.com>.

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Events News

ANSYS to Showcase Recent Advances in Turbomachinery Simulation at Leading Turbomachinery Conference

2 June 2009

[ANSYS, Inc.](#) announced that it will showcase its solutions for the turbomachinery industry at the International Gas and Turbine Institute (IGTI) ASME Turbo Expo conference to be held in June. The conference is the premiere annual event for turbomachinery, known for its comprehensive high-quality technical content, international participation by leading manufacturers, researchers and developers, and outstanding product exposition. ANSYS is a leading supplier of engineering simulation tools for the turbomachinery community, enabling engineers to develop the efficient and high-performance machines required by their end-users.

The recent release of ANSYS® 12.0 provides important advances, new features and capabilities, and improved efficiency for turbomachinery design engineers. Turbo-specific tools such as ANSYS® BladeModeler™ and ANSYS® TurboGrid™ have newly expanded capabilities. Their implementation within the ANSYS® Workbench™ platform enables interaction with traditional ANSYS tools such as structural mechanics and fluid dynamics. Thus, engineers have access to a complete multiphysics turbomachinery design and analysis capability within a single environment. The new ANSYS® Vista™ TF technology — a 2-D throughflow analysis solver developed together with PCA Engineers Limited — complements full 3-D fluid dynamics analysis to provide initial performance predictions in a matter of seconds, allowing many conceptual designs to be screened and ensuring that only the best are carried forward for full analysis. ANSYS staff will demonstrate these latest developments in three individual presentations at the ASME Turbo Expo stage.

“Turbomachinery is an important application to ANSYS, and to industry in general, in that it cuts across and plays a vital role in many industries, including power generation (gas turbines), aircraft (engines), chemical processing (process compressors), transportation (turbochargers for automotive, rail and ships) and biomedical (devices such as heart pumps),” said Brad Hutchinson, vice president, industry marketing, aerospace and turbomachinery at ANSYS, Inc. “Our many customers in all these industries rely on ANSYS to deliver a broad range of feature-rich simulation tools to meet the ever-increasing challenges of performance, development cycle, efficiency and emissions control. The ASME Turbo Expo is the ideal place for customers to learn how ANSYS software can enable them to meet these

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demands.” Hutchinson serves as a chair of a compressor session of the event.

ANSYS will be at booth # 401 at the ASME Turbo Expo, which takes place June 8 to 12 in Orlando, Florida, U.S.A.

About PCA Engineers Limited

PCA Engineers Limited, an international engineering consultancy headquartered in the U.K., specializes in the aero-mechanical design of turbomachinery and the development of engineering software. Visit <http://www.pcaeng.co.uk/> for more information.

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COADE Discovery Tour Set for June 14 in Doha, Qatar, Featuring CADWorx Plant Design Suite

3 June 2009

COADE announced that the next COADE Discovery Tour event featuring the CADWorx Plant Design Suite is scheduled for June 14, 2009, in Doha, Qatar, organized in conjunction with [ImageGrafix](#), COADE’s Global Network Partner in the region. This educational session will feature the latest capabilities of the company’s CADWorx Plant Design Suite plus introductions to CADWorx P&ID, CADWorx fieldPipe and CADWorx fieldPipe for CloudWorx. These events provide plant designers and engineers with the opportunity to see these plant design tools in person and learn how they will help them improve productivity, eliminate errors and waste, and produce quality deliverables in substantially less time.

Other COADE Discovery Tour events are scheduled for June 16th and June 17th in Dubai and Abu Dhabi, UAE; August 12th and August 13th in Quito and Guayaquil, Ecuador; and October 13th in Caracas, Venezuela. Details and registration information are available at COADE’s website, <http://www.coade.com>.

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Delcam to Launch New Releases to Boost Productivity and Quality

1 June 2009

Delcam will launch new versions of its PowerMILL CAM software and its PowerINSPECT inspection system at a series of half-day meetings across the UK in June and July. PowerMILL is Delcam’s programming system for five-axis and high-speed machining, while PowerINSPECT is a hardware-independent inspection software. The new versions will help all manufacturing companies that are looking to win more business by increasing their productivity and improving their quality.

The schedule for the launch meetings is:

17th June	Delcam, Birmingham
19th June Forum, Bristol	West of England Aerospace
1st July Centre	South-West Durham Training
3rd July	Blackburn Rovers FC

8th July

DMG, Luton

Fastest-ever CAM

The new release of PowerMILL incorporates the latest multi-threading and background-processing technologies to give much faster calculation times and increased output. Individual toolpaths can be generated quickly and the user can prepare data in the foreground while the computer calculates toolpaths in the background. Furthermore, the computer can continue with a series of calculations during the user's breaks or even overnight.

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.

More efficient inspection

The latest version of PowerINSPECT incorporates a completely new interface for "simple" measurements. This will speed up the inspection process by making it much easier to undertake basic tasks, such as measuring the distance between two points or two planes, or the centres of two circles, or checking the thickness of a section.

Other enhancements include more flexible handling of geometric data sets, easier methods to add extra data and improved reporting. All these new features make it even faster to spot any errors, and so quicker and cheaper to correct them.

To book a place at the meetings, please contact Tom Stone on 0121 683 1082 or register online at <http://www.delcam.co.uk/pmlaunch09>

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Delcam to Present Inspection Developments at NPE/MoldMaking Expo

3 June 2009

Delcam Marketing Manager Peter Dickin will present the latest developments in his company's PowerINSPECT inspection software at the MoldMaking Expo Technical Conference to be held from 23rd to 25th June alongside the National Plastics Exposition in Chicago. The new version of the software, PowerINSPECT 6, will be demonstrated on the Delcam booth at the MoldMaking Expo.

Also presenting during the inspection workshop will be Brad Hollandsworth from CAD/CAM Systems Inc, an unusual company that combines being a Delcam reseller with operating a sub-contract machining business, and Jeff Schaller, from Strohwig Industries, who will describe his company's use of the On-Machine Verification version of PowerINSPECT.

The overall theme of the workshop will be to show how inspection can be used to make money. "Too many companies still regard inspection as an expensive, complicated and time-consuming operation that limits their profitability," claimed Mr. Dickin. "This workshop aims to show how modern inspection software can be the basis for a new approach with an emphasis on making money."

He explained that there are at least five ways in which this is possible: inspection can save your reputation by finding mistakes before your customer does; it can save money by spotting errors earlier and correcting them at lower cost; it can eliminate time spent working on parts that are already too far out of tolerance; it can improve consistency and so reduce waste; and it can improve quality and so help

companies to win more business.

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

Other enhancements include easier editing of the inspection sequence to add or delete points, more versatile handling of data from geometric features, and even clearer reporting.

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Easy to Use, WorkNC Wire EDM - See it First at FIP Lyon

3 June 2009

Visitors to FIP 2009, the premier French plastics event, to be held in Lyon from 16th to 19th June, will get a preview of Sescoi’s new standalone WorkNC Wire EDM software on the CRCI Burgundy stand (G4). The system uses the latest WorkNC CAD solid and surface hybrid modeler, which will enable engineers to program 2 and 4-axis shapes with confidence and ease.

Already well known for WorkNC CAM/CAD software for the automatic machining of parts up to full 5-axis, Sescoi’s new WorkNC Wire EDM software incorporates the company’s 21 years of experience within the molding, tooling, prototyping and general mechanical fields. Dialog boxes guide the user through the system, in keeping with Sescoi’s policy of offering software which is both automated and easy to use. Functions within WorkNC Wire EDM allow for the extraction of cross sections, ready for 2 or 4-axis cutting. Alternatively the 3D surfaces of the CAD model can be used directly. Full reliability is assured through the graphical verification included in the software. This automatically checks for collisions and the maximum wire angle possible on each individual EDM machine. Naturally, post processors for all leading machines will be available.

Sescoi’s CAM/CAD software WorkNC V20 will also be demonstrated on the Sescoi booth, with live machining also taking place on the Charly Robot booth of a reduced scale helicopter in soft material on a CharlyPRO CPR machine.

Automated global roughing and finishing toolpaths have been optimized in the latest version of WorkNC to suit the high speed 5-axis machining of hard materials. Collaboration with CETIM (The French Industrial and Mechanical Technical Center), tooling, and machine tool manufacturers, and companies within the moldmaking and medical industries has played a significant role in this process. WorkNC’s capability to machine medical and dental devices (WorkNC Dental), benefited greatly from the techniques learnt during this partnership.

Custom manufacturers can reduce costs by improving their efficiency and cutting out non value adding work. Those interested in seeing how software can help them do this, should ask for a demo of Sescoi’s WorkPLAN Enterprise ERP or MyWorkPLAN job management systems. Designed for project based companies, the systems make it easy and quick to produce accurate quotations from historic data and the analysis of design information. Production, resources and purchasing are all controlled and key performance indicators tracked and monitored in real time. By using these systems, managers will be able to satisfy customers with competitive pricing, on-time delivery and continuous high quality while maximizing profitability.

WorkXPlore 3D promotes productive, collaborative working throughout an organization and its supply

CIMdata PLM Industry Summary

chain by reading in and amalgamating CAD data from multiple sources and systems. The software's high speed operation handles large files with ease, allowing users to rapidly share, analyze, and mark-up designs. By having more people concurrently involved in the development process, products can be optimized for cost, reliability, esthetics and function in a fraction of the time it would normally take. The superior products produced will get to market quicker and at lower cost, significantly adding to profit levels.

The latest addition to the Sescoi range, the WorkNC Wire EDM system, bring companies a simple way of programming 2 and 4 axis wire paths. The integrated advanced technology ensures reliability and precision, combined with high quality surface finishes, all essential for customer satisfaction and maximum return on investment.

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ESPRIT 2009 at 20th Design Engineering & Manufacturing Solutions Expo (DMS), Tokyo, Japan, June 24-26

2 June 2009

ESPRIT® 2009 will be on display at the 20th Design Engineering & Manufacturing Solutions Expo (DMS), taking place June 24-26 at Tokyo Big Sight, Tokyo, Japan.

New this year to DMS is a special "CAM zone," one of several new dedicated event areas, in which the capabilities of ESPRIT will be featured. Designed to address diverse machining needs related to design and solutions, this 20th edition of DMS is more inclusive than ever of the latest and greatest technologies.

Showcased at the ESPRIT booth will be ESPRIT 2009, the latest version of the flagship software produced by [DP Technology](#). Representatives of the software will be on hand to answer questions, as well as to demonstrate and discuss new features.

ESPRIT 2009 places a heavy emphasis on integrated machining, the use of milling and/or turning in any combination on various types of machine tools — including Swiss-turn, mill-turn, B-axis machines, etc.

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46th Design Automation Conference to Offer Nine Workshops

2 June 2009

Attendees of the 46th Design Automation Conference (DAC) will be able to choose from among nine in-depth workshops on a variety of timely and practical topics. This year's program includes workshops on design for manufacturing (DFM) and system-level design topics, as well as the emerging bio-design automation area. A new workshop this year addresses the needs of young faculty and others who are considering a career in academia. The [46th DAC](#) will be held July 26 - 31 at the Moscone Center in San Francisco.

"DAC workshops allow attendees to stay current in focused technology areas, to learn about new topics from world-class experts, and to network with others who share similar interests," said Andrew B. Kahng, general chair, 46th DAC Executive Committee. "We hope that this year's workshop lineup will provide high value to attendees and successfully continue the trend of expanding DAC beyond what can fit into the technical sessions, panel sessions and tutorials."

DFM and the Manufacturing Interface

Moving from Traditional to Equation-Based DRC, a half-day workshop, will introduce a new equation-based DRC (eqDRC) approach and illustrate its advantages. The workshop will take place on Sunday, July 26, from 2:00 p.m. to 5:30 p.m.

General Interest

A workshop of general interest will focus on the issues faced by young faculty and those who plan to enter academia. The Young Faculty Workshop is a full-day workshop on Monday, July 27, from 9:00 a.m. to 5:00 p.m.

Workshop for Women in Design Automation (WWINDA)

The 14th annual WWINDA is a half-day session, held on Monday, July 27, from 9:00 a.m. to 1:45 p.m. This year's workshop will focus on issues surrounding the choice between a technical career path and the management track. Dr. Telle Whitney, president and CEO of the Anita Borg Institute, will give the workshop's opening keynote address which will be followed by an interactive panel discussion.

New and Emerging Technologies

The International Workshop on Bio-Design Automation will focus on the conjunction of the synthetic biology and EDA communities with a focus on the applicability of electronic circuit design methodologies to bio-design automation. This full-day workshop will be held on Monday, July 27, from 8:00 a.m. to 6:00 p.m.

Physical Verification

The half-day workshop Meeting the Challenges of ESD/ERC in a Mixed-Signal World will take place on Sunday, July 26, from 2:00 p.m. to 5:30 p.m. The workshop will demonstrate how to apply Programmable Electrical Rule Checking (PERC) technology within the rule checking process, to rapidly find and correct ERC violations in a design.

System-Level and Embedded Workshops

Three workshops will focus on system-level and embedded design. Multiprocessor System-On-Chip (SOC): Current Trends and the Future, a full-day workshop, will be held on Sunday, July 26, from 8:00 a.m. to 5:00 p.m. Speakers will address strategies for future system design with an emphasis on architectures, design flow, tool development, applications and system design.

Another full-day workshop, 6th UML – SOC at the 46th DAC, also will be held on Sunday, July 26, from 8:00 a.m. to 5:00 p.m. Presenters will introduce executable UML and its application to electronic system design. Special attention will be given to interactive discussions and the exchange of ideas among the workshop participants.

The Virtual Platform Workshop at DAC will be held on Wednesday, July 29, from 9:00 a.m. to 5:30 p.m. and will focus on virtual platforms, an emerging cornerstone in SOC design validation.

For additional information about the 46th DAC workshops, visit

<http://www.dac.com/events/searchevents.aspx?EventType=Workshop&confid=95>.

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GibbsCAM Highlighted at Matsuura/Nakamura-Tome Open House in Italy

3 June 2009

[Cimatron Limited](#) announced that Gibbs and Associates, developer of GibbsCAM®, its software for programming CNC machine tools, participated in the Open House of the Machine Tool distributor for Nakamura-Tome and Matsuura in Italy.

Microsystem, a Cimatron subsidiary in Italy, presented both of Cimatron's product lines -- GibbsCAM and CimatronE -- at an Open House organized by IMU, reseller of Matsuura and Nakamura-Tome machines in Italy. Microsystem has worked with IMU to provide maximum compatibility, superior customer service and sales coordination. The four day open house, which took place in Reggio Emilia, began May 20th.

At the Open House, GibbsCAM 2009 was displayed alongside machines for which it has developed accurate, reliable post processors, highlighting its advanced multi-axis and multitasking (MTM) capabilities.

GibbsCAM powered a Matsuura MAM 72-25V machine, showing advanced 5-Axis capabilities and a Nakamura-Tome Super Mill WY 250 MTM machine which utilizes twin spindles and turrets.

The top cover of a turbine was produced live using the Matsuura machine, showing complex 5-Axis cutting.

The Nakamura-Tome machine was featured in a simulation of the turning and milling of a part specially designed for the open house, to demonstrate GibbsCAM's advanced MTM capabilities. GibbsCAM is can successfully program MTM machines with multiple spindles and turrets. The advanced GibbsCAM simulator ensures that machining is safe, gouge free and collision free.

"We value the opportunity to show that GibbsCAM is not just powerful on a computer screen, it's even more powerful when the tool hits metal and you reap the rewards of advanced multi axis and multitasking (MTM) programming", said Robb Weinstein, Senior Vice President of Sales and Strategic Planning at Gibbs. "GibbsCAM is one of very few CAM solutions that can leverage the full capacity for productivity of the newest machines, making it an essential tool for manufacturers."

In addition, the new version of CimatronE was displayed next to a 5 Axis Matsuura 72-42V mold making machine. CimatronE and the Matsuura 72-42V are excellent complementary solutions that support mold makers requirements.

About Microsystem

Microsystem is Cimatron's Italian subsidiary and a well-established distributor of software solutions for the Italian manufacturing industry. Microsystem started distributing CAD/CAM systems in 1984, subsequently broadening its offering to cover all phases of the design and manufacturing cycle. With headquarters in Bologna and offices in Milan, Treviso and Ancona, Microsystem provides customers with manufacturing solutions and technical support.

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Siemens PLM Software Announces Siemens PLM Connection Japan 2009

3 June 2009

[Siemens PLM Software](#) announced that Siemens PLM Connection Japan 2009 will be held on July 24 at

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the Grand Hyatt Tokyo in Roppongi, Minato-ku, Tokyo.

The annual user group conference targets users of **NX™**, **Teamcenter®**, **Tecnomatix®** and **Velocity Series™** software. Attendees have the opportunity to learn about the latest Siemens PLM Software developments and participate in the latest customer showcases from various leading companies on their successful adoption and implementation of Siemens PLM Software technology.

Siemens PLM Software partners are also scheduled to provide sessions and presentations at this conference. For additional information about Siemens PLM Connection Japan 2009, please visit www.siemensplm-event.com/plm-c/.

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WorkNC 6-Axis Machining Tech Days at Kegelmann

5 June 2009

Since the end of March of this year, the new F.Zimmermann FZ 100 gantry (portal) milling machine, seen on display at last year's EUROMOLD show, has been in operation at [Kegelmann Technik](#) in Rodgau-Jüdesheim, Germany. With its newly developed M3 ABC 3-axis milling head and the ability to perform 6-axis machining, this machine sets new standards in the volume machining of aluminum, composite and model making materials as well as in the high speed cutting of steel and cast iron, where conventional 2-axis fork heads with A- and C-axis have long reached their limits in 5-axis simultaneous machining.

To illustrate the benefits of 6-axis machining, Kegelmann Technik, a specialist supplier of prototype components and small series parts in aluminum and plastic, will host two Technology Days on 23 and 24th June at its new high-tech milling center. The Technology Days will include the live machining of parts including a large aeronautical structural component.

In addition to these guided milling demonstrations, there will be a joint seminar illustrating the entire process chain conducted by Kegelmann, F.Zimmermann, Sescoi and Siemens.

F. Zimmermann will provide full details on the FZ 100 machine, which, with its six axis capabilities and complementary features, guarantees perfect quality and supreme accuracy while cutting machining times by 75%.

Sescoi will demonstrate WorkNC G3, the most recent generation of its automatic CAM/CAD system, which allows even the 6-axis FZ 100 machine to be easily programmed - almost at push of a button. Sescoi Engineers will also explain how 5-axis and 6-axis technology can be used most productively.

Finally, Siemens will outline the operation of its Volumetric Compensation System (VCS), which equips the FZ 100. Using VCS, the residual geometrical errors on large 3- and 5-axis Cartesian machine tools, which could only be further reduced by highly technical mechanical means, can be compensated by acting directly on the CNC command. The result is significantly improved production accuracy.

Interested parties may sign up to either of the Technology Days by contacting Kegelmann Technik, Mrs Folds, Tel +49 (0) 6106 / 8507-10 or ifolds@ktechnik.de

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Implementation Investments

Beijing Institute of Technology Advances Green Vehicle Design with PTC Pro/ENGINEER

3 June 2009

[PTC](#) announced that Beijing Institute of Technology (BIT) has achieved great success using PTC® Pro/ENGINEER® for the design and research of 50 electric-powered buses, which were used for the Beijing 2008 Olympic Games. BIT's Electric Vehicle National Engineering Laboratory used Pro/ENGINEER for the vehicle design, including the design of overall power train and battery box. Pro/ENGINEER is PTC's integrated parametric MCAD/CAM/CAE software that helps companies to develop detailed, intuitive and realistic digital product models and related deliverables.

With an ever increasing public awareness of “green” issues, zero-emission, diverse energy sources, low noise and low thermal radiation electric vehicles are becoming a major alternative in the transportation field. BIT has long been focused on the development of electric vehicles, hybrid electric vehicles and other kinds of new energy vehicles.

The Olympic electric bus was equipped with low-floor electric chassis, a pioneer practice in the design of electric buses. Using Pro/ENGINEER as their design tool for battery box and power train, the BIT project team overcame technological challenges, such as the difficulties in limited structure space and other general layout problems. This electric bus includes a large-scale application of advanced high-capacity lithium-ion battery packs. The BIT Electric Vehicle National Engineering Laboratory developed a battery box featuring dust-proof, waterproof, adequate ventilation and cooling function, which allows fast battery replacement and enhances the security features of collision and high pressure avoidance.

As an embodiment of “Green, Hi-tech, and People's Olympics” in Beijing, the electric buses provided 24-hour transport service for the Olympic officials, journalists and athletes in the central Olympic areas covering the Olympic village, media village, northern conference area and the Olympic Park. With the use of electric buses, a major project of the Beijing Olympic Games, China fulfilled its promise to the world to achieve zero-emission in the central Olympic areas in Beijing.

“Pro/ENGINEER has been a critical solution for the R&D of our electric vehicles. It provides excellent support to the web-based design environment with advanced parametric design features and rich CAD/CAE analysis capabilities. Product models created with Pro/ENGINEER are authentic and intuitive for problem analysis and project collaboration, which improves our working efficiency and quality,” said Prof. Lin Cheng, vice director of BIT Electric Vehicle National Engineering Laboratory. “Pro/ENGINEER has made a valuable contribution to the design of electric vehicles for the Olympics. We believe that Pro/ENGINEER will continue to play an important role in the R&D at our Electric Vehicle National Engineering Laboratory and the development of new energy automobile technology in China.”

The BIT Department of Vehicle Engineering has used Pro/ENGINEER as part of its teaching curriculum and research since 1998. The institute has also produced its own Pro/ENGINEER teaching materials for undergraduate and graduate students. Many teachers and students now use Pro/ENGINEER at Electric Vehicle National Engineering Laboratory and have played an important role in the design of Olympic Electric Buses.

“We were delighted to work with BIT for the R&D of electric buses for Beijing 2008 Olympic Games.

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The Beijing Olympics not only created great opportunities for the demonstration and promotion of new energy vehicles in China, but also elevated standards for product development and manufacturing in the country. PTC will continue to work with China's education institutions and companies to support their efforts to improve innovation and manufacturing capabilities," said Gregory Bachman Sisk, senior director, Asia Pacific & Emerging Geographies Education Programs, PTC.

"Creating vehicles that do not rely only on fossil fuels and take into consideration environmental impact is a high priority for automakers around the world," said Kenneth Honroth, senior vice president of Greater China, PTC. "The advancements that BIT has made in this field using Pro/ENGINEER and the subsequent successes of its electric vehicles at the Beijing Olympics are major achievements toward creating mainstream, reliable transportation that meets 'green' technology standards."

About BIT

The Beijing Institute of Technology (BIT), an institution under the Ministry of Industry and Information Technology of China, is a national key university of science, engineering and humanities with science and engineering as the focus. BIT is also one of the national universities receiving preferential support from the Chinese government. BIT was one of the first universities to be listed in "Project 211" and "Project 985".

About BIT Electric Vehicle National Engineering Laboratory

The BIT Electric Vehicle National Engineering Laboratory has been devoted to research on electric vehicles, hybrid-electric vehicles, fuel cell vehicles and other new-energy vehicle technologies for more than ten years. The Laboratory has had great success in developing many types of vehicles, including pure electric standard-low-floor bus, fuel cell car, electric tractor, and electric tourist car series prototype car. The Center has already established Electric Vehicle simulation and development platform, integrated testing base of power battery packs, and the national "863" Electric Vehicle project electric motor and its controller.

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China's Academy of Sciences Adopts Cadence Incisive Xtreme III System to Validate Next-Generation Multi-core Processor Designs

1 June 2009

Cadence Design Systems, Inc. announced that the Chinese Academy of Sciences Institute of Computing Technology (ICT) has adopted the Cadence® Incisive® Xtreme® III System for accelerating the development of RTL design with a verification flow for its next-generation 64 million-plus gates Loongson III advanced multi-core microprocessor.

The deployment of the Incisive Xtreme III System for developing the ICT's advanced 65- and 45-nanometer multi-core processor enabled ICT engineers to accelerate system-level verification while validating software operations. The Xtreme III System supported the ICT's goals of accelerating hardware/software development while reducing the risk of costly re-spins.

"The Xtreme III System has made a significant impact in accelerating our simulation runtime process by a factor of 860 times, and has made co-verification a predictable process for our next-generation Loongson III multi-core design," said Dr. Weiwu Hu, chief architect of the ICT's CPU division. "This Cadence technology has helped us improve overall productivity, predictability and quality of our Loongson III development."

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Using Xtreme III, the ICT was able to accelerate simulation productivity and to find at least 10 critical system-level bugs that could only be exposed by running several billions of cycles in a system-level environment. The system enabled early access to a flexible, high-performance verification platform for hardware/software co-development and delivered powerful built-in productivity features such as hot-swap and VCD-on-Demand. These capabilities enabled ICT developers to quickly bring up the system and find system-level bugs more simply than through traditional debugging methods.

The ICT also used Xtreme III to augment their FPGA prototyping flow to thoroughly address the complexity of their next-generation multi-core microprocessors. Xtreme III fully automates compiling and partitioning, virtually eliminating pin limitations and timing issues commonly found in large-scale FPGA prototyping systems. The accelerated scalable verification flow provided by Xtreme III gave ICT engineers the required verification throughputs and ease of use while minimizing the effort required in debugging the design in a system-level environment.

“The ICT’s experience with its Loongson III design is a perfect example of the great value hardware-based solutions like the Incisive Xtreme III System can deliver to companies seeking greater productivity, predictability and quality,” said James Liu, Cadence general manager of China and Hong Kong.

The [Cadence](#) Incisive Xtreme series of high-performance, high-capacity accelerators/emulators speeds the functional verification of designs at the behavioral, RTL, and gate levels. Designed for multi-user, multi-site, multi-purpose systems, the Xtreme series integrates with the Incisive simulation environment to perform advanced verification planning and to drive coverage-based, metric-driven verification closure.

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Dassault Systèmes Expands Product Lifecycle Management Leadership; New ENOVIA Licenses Sold to More than 4,000 Companies since Start of 2008

2 June 2009

[Dassault Systèmes](#) (DS) announced that its ENOVIA brand has sold new licenses to more than 4,000 companies since the beginning of 2008 and continues to lead the market in delivering the power of PLM to emerging and high-growth industries, including consumer packaged goods, high tech, life sciences, apparel and energy. According to the recent PLM Market Analysis study published by [CIMdata](#) in March 2009, Dassault Systèmes was recognized as the overall revenue leader for the PLM market in 2008.

ENOVIA technology provides the core of the Dassault Systèmes V6 platform unveiled in June 2008. Built on a highly flexible and scalable service oriented architecture (SOA), the ENOVIA V6 solution allows companies to create a single version of the truth by developing online communities to share and collaborate on global product information. ENOVIA has also delivered 12 new industry Accelerators over the past year. These Accelerators speed return on customer investment by using PLM best practices to ensure a rapid deployment. ENOVIA also experienced strong growth in the mid-market with the ENOVIA SmarTeam Express portfolio of out-of-the box PLM solutions built specifically for small and medium-sized companies.

Over the past year ENOVIA has announced important wins in apparel ([Guess](#), [Pacific Brands](#) and [Trent](#)

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[Ltd.](#)) the consumer packaged goods market ([Procter & Gamble](#)), life sciences ([Beckman Coulter](#)), high tech ([Nokia Siemens Networks](#) and [novero](#)) semiconductor ([INSIDE Contactless](#) and [GUC](#)), energy ([OKG](#), [Telvent/Abengoa](#), [Grupo Guascor](#) and [Solarcentury](#)).

“V6 was designed for these challenging economic times. All of our customers are trying to manage their business for sustainable growth in this difficult financial climate. We help them accelerate revenue while lowering costs with industry-specific solutions that address their own unique circumstances and business environment,” says Michel Tellier, CEO, ENOVIA, Dassault Systèmes. “Our continued investment in technology and strategic partnerships has enabled us to extend our leadership position to incorporate new market opportunities.”

In addition to its well established alliances with [Integware](#) in the life sciences/CPG markets and a variety of companies in high tech (including [Microsoft](#), [Tetra Tech](#), and [Kalypso](#)), ENOVIA has expanded its reach in retail, footwear and apparel. As well as its partnership with Wing Tai’s [Zymmetry Group](#) for apparel sourcing, ENOVIA entered into an agreement in March 2009 with [i-generator](#) to work together on the design and development of ENOVIA solutions for global footwear manufacturers and their supply chains which will help them to reduce cost and streamline their product development processes.

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Drilling and Well Service Company, Seawell, Selects IFS Applications

4 June 2009

IFS announced that Seawell Ltd (Seawell) has selected IFS Applications as its enterprise applications to support the growth of the company’s global project-based operations.

In 2007, Seawell Ltd demerged from Seadrill, which since 2001 has used IFS Applications components for purchasing, material administration, logistics, and maintenance. The same solution will be implemented at Seawell. The agreement also includes options for the financials, human resources management and engineering register components.

The company has more than 30 years experience as a global provider of drilling and other services in the oil and gas industry. Following the demerger, Seawell has grown from 1,800 to 2,500 employees and expects continued growth for its project-based operations. An important reason for choosing IFS Applications was the fact that the solution is agile and scalable, which makes it ideal for handling growth and change.

“We are investing heavily to ensure that we can offer the market the best applications for project-based industries such as drilling and well service companies, and in recent years we have been very successful in developing the solution and winning new customers in these industries,” said Glenn Arnesen, managing director of IFS Scandinavia.

IFS strategically targets suppliers to the oil & gas industry and has delivered solutions to the sector for many years. IFS offers a complete, integrated industry-specific solution that manages the entire project lifecycle from engineering, project management, procurement, material management and fabrication to installation and after sales. Customers include Grenland Group, Babcock Engineering services, Heerema Fabrication Group, Dresser-Rand, Yantai Raffles, STX Norway Offshore, Seadrill, Seawell, NCA, APL, Hertel, Bergen Group Rosenberg, Hamworthy Gas Systems, RR Offshore, Rotary Engineering, Harland

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& Wolff, ShawCor and Shedden Uhde.

About Seawell

Seawell is a company providing drilling and well services its core business being platform drilling, drilling facility engineering, modular rig, well intervention and oilfield technologies. The company has approximately 2,500 skilled and experienced people. Seawell currently operates on nearly 50 installations in the North Sea and has offices in Stavanger, Bergen, Aberdeen, Newcastle, Houston, Esbjerg and joint ventures in Abu Dhabi and Kuala Lumpur.

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German Research Institute Fraunhofer IAO to Improve Processes and Workflow with Dassault Systèmes' DELMIA

3 June 2009

Dassault Systèmes ([DS](#)) announced that the Stuttgart, Germany-based Fraunhofer Institute for Industrial Engineering IAO relies on software solutions from its DELMIA brand for research on digital production.

Manufacturers are working to meet customer demands for a broader array of product variations and derivations. The objective of the Fraunhofer IAO's research on digital production is to implement an integrated digital process from the inception of an idea through to production, supported by continuous data and workflows. The research will ensure a product can be manufactured to its standards before actual production begins, and thereby minimize the number of iteration loops required, while improving the quality of the product and its processes.

“Our goal is to use IAO's own developments, based on the state-of-the-art software solutions from Dassault Systèmes' DELMIA, to create innovative modules that support individual activities in the product and production cycle, so that these modules can then be used successfully in digital production, with particular consideration for virtual reality,” explains Professor Dieter Spath, Dr.-Ing., director, Fraunhofer IAO.

While many industry leaders have recognized the significance of digital production, mid-market companies still do not fully take advantage of its potential for designing, networking and operating product and production-related processes. Impressed with the success of its collaboration with DELMIA, the Fraunhofer Institute joined forces with the German Federal Ministry of Education and Research (BMBF) and Baden-Württemberg's Ministry for Science, Research and Art to form the "Digital Production Innovation Cluster." Under the direction of the Fraunhofer IAO, the cluster specifically promotes the acceleration of innovation processes in this area.

The [Fraunhofer IAO](#) uses DELMIA Process Engineer for integrated product and process planning and DELMIA DPM Assembly for digital simulation of assembly process planning. The integrated product and process database is the core element in this dynamic mix, accelerating data transfer throughout each process segment. For material flow simulations, the researchers use DELMIA Quest.

Fraunhofer IAO is also using a Dassault Systèmes Virtual Ergonomics solution in the design of futuristic workstations.

“The DELMIA Human solution for ergonomic studies has shown itself to be highly advanced. It supports ergonomic analyses very well,” says Professor Spath. “We want to use virtual reality to make

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the ergonomic design process for assembly workstations a more tangible experience.”

About the Fraunhofer Institut für Arbeitswissenschaft und Organisation (IAO)

Through its close cooperation with the Institut für Arbeitswissenschaft und Technologie management (IAT) of the University of Stuttgart, the Fraunhofer IAO combines fundamental university research, application-oriented science and practical economic experience. Under joint direction of the institute, over 200 employees --- primarily engineers, computer scientists, economists and social scientists --- work together in an interdisciplinary manner at the Fraunhofer IAO and IAT. More than 10,500 square meters of modern offices, laboratories and demonstration centers are available for carrying out contract research.

The Digital Production innovation cluster is a joint initiative between the Fraunhofer Gesellschaft, the state of Baden-Württemberg and numerous industrial companies. The purpose of the innovation cluster is to use the benefits of digital production through close collaboration between science, research and economics to preserve and improve the competitiveness of producing companies.

<http://www.digitaleProduktion.fraunhofer.de>.

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Keeping a Lock on Industrial Vault Design; Vault Structures saves \$150,000 in prototyping costs, cuts development time by 70 percent using SolidWorks software

1 June 2009

Aside from overall security, the two most important considerations in designing a massive vault door are a tight fit and the ability to get out in case of an accidental lock in. [Vault Structures, Inc.](#) has standardized on [SolidWorks® 3D CAD](#) and [SolidWorks® Simulation](#) design validation software to help some of the world’s most renowned financial institutions keep a lock on billions of dollars of cash, jewelry, and other valuables.

One of the top five security device manufacturers in the world, Vault Structures develops a broad range of products including everything from safes and safe deposit boxes to custom high security blast panels, Underwriters Laboratories (UL) certified modular vault panels, and UL certified vault doors. The company recently unveiled its latest product, the VSI 360 vault door, tipping the scales at 9000 pounds and measuring 14 inches thick.

“We designed this door so it would only have a 3/16 of an inch gap around its circumference,” said Sara Cheney, design engineer for Vault Structures. “That’s a very tight gap for such a large door, providing maximum security. Using SolidWorks and SolidWorks Simulation helped us design and test the door about 70 percent faster than if we’d used AutoCAD, saving \$150,000 in reduced prototyping costs.”

Cheney used SolidWorks to design a mechanism that enables people to get out of the vault if they accidentally shut themselves inside. SolidWorks’ sheet metal analysis capabilities enabled her to try myriad sizing options to ensure precision before fabrication begins. [SolidWorks Routing](#) enables engineers to determine exactly where and how to place electrical wiring within the design. SolidWorks Simulation helped Cheney make sure the door would open and close without any interferences.

Vault Structures depends on [SolidWorks Workgroup PDM](#) to maintain design version control and manage its vault designs throughout their entire lifecycles. “If security is job number one, longevity and durability are next in line. Our products are built to last hundreds of years. So it’s absolutely critical for us to keep an accurate, detailed history of parts, designs, and modifications,” said Cheney.

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Vault Structures relies on authorized SolidWorks reseller [The SolidExperts](#) for ongoing software training, implementation, and support.

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Kunming Shipbuilding Equipment Co. Boosts Competitive Position with Siemens PLM Software's Teamcenter and Solid Edge

1 June 2009

[Siemens PLM Software](#) announced that Kunming Shipbuilding Equipment Co. (KSEC) selected Solid Edge® software and Teamcenter® software to upgrade its digital design and product data management solutions, respectively.

KSEC, a major machinery and automated logistic systems manufacturer and exporter, expects end-to-end PLM solutions to add value to its business by automating the design, engineering and customization of its innovative products. KSEC also expects to reduce its product time to market cycle and enhance its competitive strength in today's challenging economic conditions.

“The user-friendly synchronous technology in Solid Edge goes beyond our expectations for flexibility and for significantly speeding up design with powerful capabilities such as 3D design and instantaneous modeling which allows us to design, make modifications and fulfill customer change requests much faster,” said Liu Linhai, director of IT department, Kunming Shipbuilding Equipment Co. “Teamcenter enables our engineers to optimize the power of Solid Edge through better information and resource management, enhancing teamwork, control, logistics support and yielding greater productivity and product and service innovation.”

KSEC's quest for a PLM solution was driven by the company's need to enhance efficiency while boosting its capability to design leading-edge machinery. Solid Edge allows KSEC to migrate from 2D to a more robust 3D design platform, and Teamcenter helps simplify and accelerate implementations, enhance productivity, streamline collaboration and expand control of the entire product lifecycle process.

“Siemens PLM Software's fully integrated end- to-end PLM solutions create real value for Chinese manufacturers, helping turn more ideas into successful products and bringing better products to market faster,” said Chuck Yuan, senior vice president and general manager, Greater China, Siemens PLM Software. “Solid Edge allows KSEC to work much more efficiently, determining in the design phase that all components will fit. Teamcenter provides an integrated consistent solution across the enterprise and the ability to collaborate more effectively with customers and partners. The solution boosts innovation through easy migration from 2D to 3D design and an interactive design paradigm, providing a powerful workflow engine to automate and orchestrate processes across the enterprise and with partners.”

“Siemens PLM Software's technology combined with the professional local implementation and training of our designers and our solid working relationship made this an ideal solution for KSEC,” said Liu Linhai.

Solid Edge with synchronous technology is the core CAD component of the Velocity Series™ portfolio and incorporates Siemens PLM Software's new history-free, feature-based design technology.

About Kunming Shipbuilding Equipment Co. Ltd. (KSEC)

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KSEC is the leading designer and supplier of tobacco machinery and automatic logistics system in China. In 1970, KSEC was established as a stated-owned enterprise group combining optics, mechanics, electronics and information technology. The service that KSEC can provide covers whole engineering procedure of tobacco processing line like process design, equipment manufacturing, installation and commission, technical training, and after-sale service, etc. With years of successful application experience in complex tobacco industry logistics system, KSEC has expanded its automatic logistics system into other industries such as electrical appliance, food, pharmacy, banking, power industry, post, airline, book sales and other commercial distributing business. KSEC has a state of the art industry park with an area over 70 hectares, over 3,000 sets of advanced machining equipment and over 5,000 employees.

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Lockheed Martin Aeronautics Expands Use of Siemens PLM Software Technology for Production

1 June 2009

Siemens PLM Software and Siemens Government Services, Inc., an authorized reseller of Siemens PLM Software, announced that Lockheed Martin Aeronautics, the builder of the multi-role fighter, the F-35 Lightning II Joint Strike Fighter (JSF), is expanding the use of Teamcenter® software, Siemens PLM Software's digital lifecycle management solution, to enable a fully digital PLM backbone for design, manufacturing and maintenance support for the JSF program.

Siemens PLM Software made the announcement in conjunction with Siemens PLM Connection Americas, an annual user and developer conference, where Charles D. Artymovich, Director of Aeronautics Operations for Lockheed Martin Aeronautics, will discuss the Lockheed Martin's implementation of Product and Production Life Cycle Management (PPLM) strategies to develop and maintain the digital thread to design, build, produce, manage and improve effective execution across the entire Product Value Stream.

The integration of processes and tools that enable data flow will be instrumental in driving future standards, maximizing global partnerships, and providing world class products and services. The F-35 JSF program exemplifies efforts to enhance the Product Value Stream and realize the benefits of PPLM system integration to be gained in the aerospace and defense environment.

"Lockheed Martin's decision to use Teamcenter to manage and protect its intellectual property is a testament to our commitment to provide a robust, open PLM platform," said Dr. Helmuth Ludwig, president, Siemens PLM Software. "Teamcenter will provide a solution that enhances collaboration and innovation while delivering design anywhere; build anywhere capabilities that are required for the global market of the JSF."

This expansion will result in increased collaboration between Lockheed Martin's engineering and manufacturing environments which will reduce the time required to incorporate changes and enable critical production rates. Siemens PLM Software technology will be a key tool in enabling Lockheed Martin to reach a projected production rate of one F-35 aircraft per day. Teamcenter will allow Lockheed Martin to much more effectively perform reconciliations to help improve quality and reduce cost while delivering on time, by tightly coupling engineering efforts with manufacturing.

In any program, managing change throughout the lifecycle while also meeting production requirements is a difficult task. The F-35 program takes things to an entirely new level; managing the processes and data of a highly complex aircraft with multiple international customers, each demanding unique

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characteristics. Lockheed Martin will use Teamcenter to help manage the changes to the aircraft from design to manufacturing all the way through sustainment.

About Lockheed Martin Aeronautics

Headquartered in Bethesda, Md., Lockheed Martin is a global security company that employs about 146,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services. The corporation reported 2008 sales of \$42.7 billion.

About Siemens Government Services, Inc.

Siemens Government Services, Inc. (SGS) is a special purpose, wholly-owned subsidiary of Siemens and an authorized reseller of Siemens PLM Software for all direct and indirect U.S. Federal Government related work. Headquartered in Reston, Virginia, SGS is an integrator for the broad range of Siemens products, solutions and services to provide answers to the government's challenges related to integrated security solutions, lifecycle and maintenance support services, product lifecycle management, and energy and environmental solutions. For more information on Siemens Government Services, visit www.siemensgovt.com.

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National Petroleum Construction Company Increases its Use of AVEVA Plant

3 June 2009

AVEVA announced that National Petroleum Construction Company (NPCC), a global oil & gas EPC contractor, has chosen [AVEVA Plant](#) for use on its part of the Integrated Gas Development Project - Habshan Platform Offshore Facilities (IGD-HAP) for ADMA OPCO.

NPCC, whose fabrication facilities are located at Mussafah near Abu Dhabi city, is a leading Offshore EPC contractor in U.A.E., Qatar, Iran, Saudi Arabia, India and other neighbouring Gulf and Middle Eastern countries. NPCC provides its clients with total Engineering, Procurement and Construction (EPC) services in the development of offshore and onshore Oil and Gas fields.

NPCC first used AVEVA PDMS, which is part of the AVEVA Plant portfolio, on ADMA OPCO's project comprising two new well head towers (US 40/56 and US 40/24) located in the Umm Shaif field. Now, they are extending their use of PDMS on the IGD-HAP project, which consists of an offshore gas processing platform that performs gas separation and dehydration. The project also includes a remote flare tower, a 46" main gas line to Das island and interconnecting bridges between IGD-HAP and the existing Umm Shaif Super complex.

AVEVA PDMS has multi-discipline capabilities proven on many large offshore and onshore projects, from front end design through to construction engineering. NPCC Engineering utilises this state-of-the-art industry standard software in various disciplines for the execution of projects.

According to Dr Ahmad Kurdali, Engineering Director of NPCC:

"We are going to use PDMS throughout all phases of the project. After the 3D modeling and design, drawings and isometrics will be generated by PDMS. We will also be integrating the PDMS model with the structural steel detailing software to optimise the production of fabrication drawings."

Louay Dahmash, Vice President of AVEVA Middle East comments:

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"We are delighted to continue working with NPCC. Once again AVEVA's unique technology has proven itself and we look forward to providing more services to NPCC in the future."

About National Petroleum Construction Company (NPCC)

NPCC is a Public Joint Stock Company owned by the General Holding Corporation (GHC) which holds a 70% interest and the Consolidated Contractors Group (S.A.L.), CCC which holds the remaining 30%.

NPCC was established in April 1973 to provide a facility for the fabrication of steel structures required by the Onshore and Offshore Oil and Gas Production Industry. The late seventies saw NPCC growing through considerable expansion with the construction of its own pipe coating facilities and the launching of a successful Offshore Services Division providing full marine spreads for Pipe laying, Installation and Hook-up works.

NPCC's dynamic growth, its past achievements and new facilities have transformed this National Company into a major international (EPC) contractor, capable of providing the Offshore and Onshore Oil & Gas industry with complete Engineering, Procurement and Construction.

About ADMA-OPCO

Abu Dhabi Marine Operating Company (ADMA-OPCO) is pioneer offshore oil & gas explorer and producer with operations dating back to the 1950s. ADMA-OPCO operations are centered in the offshore areas of Abu Dhabi. Major oil fields are Umm Shaif and Zakum. DasIsland is the base for company offshore operations.

Abu Dhabi Marine Operating Company (ADMA-OPCO) carries out activities of oil and gas exploration, development and production from the offshore concession areas of the Emirates of Abu Dhabi on behalf of its shareholders: ADNOC, BP, Total and JODCO.

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Newport Media Standardizes on Berkeley Design Automation Analog FastSPICE Platform for Analog/RF Verification

2 June 2009

[Berkeley Design Automation Inc.](#) announced that Newport Media Inc., a fabless semiconductor company that develops and sells highly integrated solutions for emerging digital audio and mobile TV broadcast standards, has standardized on the company's Analog FastSPICE platform for all analog, mixed-signal, and RF verification. This includes the Analog FastSPICE circuit simulator (AFS), the AFS Nano SPICE simulator, AFS Co-Simulation, and the Noise Analysis Option device noise analyzer.

"At Newport Media we have been using Analog FastSPICE for over two years for verification of our single-chip solutions for mobile TV broadcast and we consistently get 5x-10x faster results than traditional SPICE simulators with identical waveforms and silicon accurate device noise analysis," said Edward Youssoufian, Director of RF Engineering at Newport Media. "We standardized on the AFS Platform for analog/RF verification because it delivers >2x improved designer efficiency and addresses all our verification needs, including block-level design characterization, complex-block simulation, silicon-accurate device noise analysis, and full-chip mixed-signal verification -- all with true SPICE accuracy."

Analog FastSPICE is the industry's only unified circuit verification platform for analog, mixed-signal, and RF design. Always delivering true SPICE accurate results, it provides 5x-20x higher performance

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than traditional SPICE, >10 million-element capacity, and the industry's only comprehensive noise analysis. The AFS Platform is a single executable that uses advanced algorithms and numerical analysis to solve the full-circuit matrix and original device equations without any shortcuts. AFS Platform tools include: AFS Nano SPICE simulator, Analog FastSPICE circuit simulator, Noise Analysis Option™ device noise analyzer, and RF FastSPICE™ multi-tone periodic analyzer.

"Newport Media is a great example of a company retooling for next-generation analog, mixed-signal, and RF design to significantly improve their verification efficiency," said Ravi Subramanian, president and CEO of Berkeley Design Automation. "Newport Media develops breakthrough nanometer mixed-signal and RF solutions for the TV-enabled cellular phone market, and we are proud that they have chosen to standardize on the Analog FastSPICE platform for all their analog/RF verification needs. This further validates that Berkeley Design Automation is an essential partner as companies embark on new tooling strategies for greater verification efficiency."

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Petrofac Adopts Intergraph® SmartPlant® Enterprise Solutions Globally

27 May 2009

Petrofac, an international oil and gas engineering, procurement and construction company based in the UAE with affiliates all over the world, has chosen Intergraph® SmartPlant® Enterprise solutions to add to its portfolio of tools used in the execution of its global design and engineering projects.

Due to strong market conditions and increased global demand for the SmartPlant Enterprise solutions, Petrofac has entered into a substantial, multi-year agreement with the Process, Power and Marine division of Intergraph. Petrofac is embracing SmartPlant Enterprise to meet tight schedules and true demands for productivity increase. The fast market adoption of all components of SmartPlant Enterprise (2D, 3D, information management) and the value proposition it brings were significant in Petrofac's decision to add this solution to its existing suite of engineering tools.

SmartPlant Enterprise is an integrated solutions suite that provides full design, construction, materials and engineering data management capabilities needed for the creation, safe operation and maintenance, and Project Lifecycle Management (PLM) of large-scale process, power, marine and offshore projects. The software's life cycle data management also enables a smoother handover for EPCs to owner operators and for owner operators to more easily maintain, refurbish or modify their plants.

ATHEEB Intergraph Middle East LLC, Intergraph's Middle East distributor, was highly instrumental in influencing Petrofac to adopt SmartPlant Enterprise by demonstrating its value for design and engineering projects.

"Our expanding project portfolio and the drive to continuously improve our service offering were major considerations in our choice of Intergraph's SmartPlant Enterprise to complement our range of engineering tools," said Nigel Paton, Deputy Managing Director for Petrofac's Engineering Services business. "SmartPlant Enterprise delivers a solution whereby we can be ever more responsive to the dynamics of our market."

Gerhard Sallinger, [Intergraph](#) Process, Power and Marine president, said, "Petrofac's decision to adopt Intergraph's next-generation solutions is another example of how industry leaders more than ever recognize that our solutions enable them to become more productive and competitive. The addition of Petrofac to our major customer roster also reinforces Intergraph's leadership in the oil and gas industry."

About Petrofac

[Petrofac](#) is an international provider of facilities solutions to the oil and gas and production and processing industries. Petrofac's range of services provides a total solutions approach to meeting customers' needs across the full life cycle of oil & gas assets. Petrofac delivers services through seven business units: Engineering & Construction, Engineering & Construction Ventures, Engineering Services, Offshore Engineering & Operations, Training, Production Solutions and Energy Developments.

Through these businesses, Petrofac designs and builds oil and gas facilities; operates, maintains and manages facilities and trains personnel; enhances production; and, where it can leverage its service capability, develops and co-invests in upstream and infrastructure projects.

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Sescoi Helps Compress the Development Time for the T.25 City Car

2 June 2009

Sescoi's WorkNC CAM/CAD software is playing an important role in the design and development of a new vehicle concept, which addresses traffic congestion and the overall CO2 impact produced during the lifecycle of a car. Designed and developed by [Gordon Murray Design](#) based in Shalford, Surrey, UK, the T.25 City Car and the iStream manufacturing process started from an idea first conceived by Gordon Murray in 1993.

Gordon Murray himself designed a series of Brabham F1 racing cars which enabled Nelson Piquet to win the world championship in 1981 and 1983. Within two years of moving to McLaren as Technical Director, his Honda powered McLaren had won 15 out of the 16 grand prix races and gave Ayrton Senna his first driver's championship. Subsequently, as head of McLaren Cars, he designed road-going supercars – the McLaren F1 and the Mercedes-Benz SLR McLaren, before forming Gordon Murray Design in 2007.

The key design elements for the T.25 and iStream are for a very small vehicle, which protects personal mobility, is economical and safe to own, fun and stylish to drive, yet which has a low lifecycle carbon footprint. To achieve these aims, and to make the car as spacious as possible inside, required considerable effort on vehicle packaging, with many design iterations. This was further complicated by the principles of iStream, which demanded flat packing of the vehicle for transportation, ready for final assembly in end user markets.

Jon Ingleby, Prototyping Applications Manager, uses WorkNC to produce the body panels for the styling studio model as well as for the seating buck, which is used to evaluate the space inside the vehicle. Machining of the models and molds, which can be full size, is carried out on the company's ITP overhead gantry CNC mill. He explains, "I used WorkNC at McLaren, so it was the natural choice when I joined Gordon Murray Design. We have a wide range of responsibilities in the design studio so the software's ease of use is very important to us. WorkNC is sometimes not used for a few weeks, but because it is so simple to operate we can jump onto it again and start programming immediately. Software packages I have used in the past have been very complicated, so have fallen into disuse because our requirements are intermittent and we have forgotten how to use them."

A range of rapid prototyping methods is used in the styling studio, including conventional pattern making, fused deposition modeling, CNC milling and composite panel production. To compress

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development times, engineers need to be skilled in all these areas and have the means of working on several tasks simultaneously. Jon Ingleby explains, "There are three cycles of body design during the vehicle development program, from wind tunnel models to a full size model, which we can machine on the ITP gantry mill using 3+2 machining techniques. In WorkNC it takes about 1-2 hours to program the roughing toolpaths and, while cutting is underway, we program the finishing paths. We have never had a problem with WorkNC so we can leave it to cut overnight, and while we get on with other tasks, with absolute confidence in the results."

Gordon Murray Design uses Catia V5 to model the T.25. 'A' class surfaces are imported into WorkNC ready for machining. Jon Ingleby says, "The CAD interface is very reliable, and WorkNC is tolerant of small imperfections in the model, saving the considerable amount of time it can take to repair these. Once machining has been completed we inspect the part with a touch probe and compare it with the original model. In every case it is well within tolerance." Having these facilities in-house enables Gordon Murray Design to ensure the confidentiality of the project and produce new prototypes within one or two days. Jon Ingleby adds, "The ease with which we can pick up WorkNC, after not using it for a few weeks, is crucial to our way of working. We would not have been able to complete the car within our two year target without WorkNC and the ITP machine. It has enabled us to compress two months work into one week."

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SMIC Deploys Synopsys HSPICE Simulator for 45-nm Physical IP and Standard Cell Development

2 June 2009

[Synopsys, Inc.](#) announced that Semiconductor Manufacturing International Corporation, one of the leading semiconductor foundries in the world, has adopted Synopsys' HSPICE® circuit simulator and WaveView Analyzer for design and verification of their 65-nanometer (nm) and 45-nm IP blocks, I/O circuitry and standard cell characterization flows. Taking advantage of the innovations in the 2009.03 release of the HSPICE circuit simulator, SMIC was able to cut simulation runtime in half with improved silicon correlation over their existing solution.

"With HSPICE, we were able to run our analog IP and standard cell circuits two times faster than our existing solution," said Paul Ouyang, vice president of Design Services at SMIC. "In addition, WaveView Analyzer significantly improved our verification productivity by delivering an easy-to-use, feature-rich and high-performance waveform analysis solution. We are now able to instantly render large waveforms and run automatic specification verification functions."

"The 2009.03 release of HSPICE delivers further simulation speed improvements on both single- and multicore computer hardware while maintaining the same trusted silicon-accurate results," said Graham Etchells, director of marketing for the Analog/Mixed-Signal Group at Synopsys. "Continuing innovations in HSPICE, WaveView Analyzer and other AMS circuit simulation solutions enable foundries worldwide to accelerate development of advanced process nodes."

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Synopsys IC Compiler Multi-Corner/Multi-Mode Capability Delivers 2X Faster Design Closure

2 June 2009

[Synopsys, Inc.](#) announced that New Japan Radio Co., Ltd. (NJR), a leading supplier of linear integrated

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circuit devices for professional audio and high reliability automotive products, successfully deployed IC Compiler's multi-corner/multi-mode (MCMM) capability to achieve two times (2X) faster design closure. Previously, NJR performed half a dozen place-and-route iterations to close timing across all design modes and process corners, resulting in costly tapeout delays. IC Compiler's concurrent MCMM optimization is designed to simultaneously optimize across all modes and corners to eliminate multiple iterations and deliver faster time to results.

"We are facing shrinking time-to-market windows and intense competitive pressure," said Shoichi Matsumoto, general manager, IC Design Department IV, IC Division at NJR. "In order to retain our competitive edge, it is necessary to have a design closure flow that can deliver best-in-class results in half the time. IC Compiler's concurrent MCMM capability enabled us to reliably and efficiently meet these goals."

Being in the very competitive high-end consumer and automotive market segments requires NJR to deliver high accuracy and reliability in their finished product. These complex devices must operate correctly across all design modes and be 100 percent reliable across all process corners. With several back-to-back tapeouts a year, NJR typically has only a six-week period to place and route a single design. This tight schedule cannot be met if multiple iterations must be performed to close timing. IC Compiler provides them with precisely the solution they need, with concurrent MCMM capability performing simultaneous analysis and optimization across all modes, corners and design costs. With powerful core engines like the IC Compiler placer and Zroute DFM-focused router, combined with tight correlation to the technology-leading PrimeTime® signoff tool, IC Compiler helps deliver optimal results with predictable and accelerated time-to-design closure.

"MCMM, long available in IC Compiler, is now a mainstream design requirement, and dozens of companies worldwide rely on IC Compiler's concurrent MCMM capability to successfully tapeout their complex designs," said Bijan Kiani, vice president, Product Marketing and Business Development Group at Synopsys. "NJR has deployed IC Compiler and experienced the benefits of its concurrent MCMM capability to achieve faster design closure."

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Synopsys' Eclipse Low Power Solution Enables Fujitsu Microelectronics to Cut Design Cycle by 30 Percent

3 June 2009

[Synopsys, Inc.](#) announced that Fujitsu Microelectronics Limited (FML) has deployed Synopsys' Galaxy™ Implementation Platform, for use with its low power digital electronics and mobile application ICs (integrated circuits). Fujitsu Microelectronics engineers used IEEE 1801 (UPF) to describe the power intent and drive the design, static verification and sign-off of several low power designs. Utilizing the optimization engines and complete low power capabilities in the Galaxy Implementation Platform, Fujitsu Microelectronics' designers were able to cut the traditional RTL-to-GDSII design cycle by 30 percent while meeting all design goals. Fujitsu Microelectronics is now ready to deploy this flow with their customers on 90 nanometer (nm), 65nm and 40nm digital consumer electronics designs.

"Deploying advanced power management techniques within very tight design schedules is among the key challenges for us and our customers," said Noboru Yokota, general manager of the Technology Development Division, Common IP and Technology Development Unit, Fujitsu Microelectronics Limited. "With Synopsys' UPF-enabled Eclipse™ Low Power Solution, we met our stringent power,

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speed and area goals while saving 30 percent of the overall traditional design cycle. We are looking forward to helping our customers deploy this flow and get more competitive low power designs to market, faster."

Part of Synopsys' Eclipse Low Power Solution, the Galaxy Implementation Platform delivers the lowest power consumption, highest design performance and highest productivity through a complete low-power design portfolio. DC Ultra™ synthesis and IC Compiler physical implementation automate the most advanced low-power techniques, such as multi-voltage and MTCMOS power gating, as well as more commonly used techniques such as clock gating and multi-threshold libraries. In addition, they perform comprehensive dynamic and leakage power optimization throughout the RTL-to-GDSII implementation, while concurrently optimizing timing, area, testability, congestion and other design goals. The UPF-enabled implementation solution also includes PrimeTime® PX accurate power analysis, PrimeTime SI noise analysis for sign-off, MVRC voltage-aware static checking and Formality® power aware equivalence checking.

"Chip designers today need to meet stringent power specs within very tight schedules to be competitive in the marketplace, and the advanced low power capabilities in the Galaxy Implementation Platform are driving their success," said Bijan Kiani, vice president of Product Marketing at Synopsys. "Fujitsu Microelectronics has seen significant productivity gains with Synopsys' UPF enabled implementation flow and are now supporting it for our mutual customers".

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Tokai Riki Mfg Streamlines Design Process and Reducing Man Hours by 20% with CATIA

2 June 2009

Dassault Systèmes ([DS](#)) announced that Tokai Riki Mfg. Co., Ltd. (RIKI) has deployed Dassault Systèmes' CATIA to streamline the design process while reducing man-hours by 20 percent. In addition, as a provider of key auto parts for major original equipment manufacturers (OEMs) in Japan, RIKI has also improved collaboration with customers by building a new design review system utilizing CATIA 3D data.

As a manufacturer of auto parts such as wiper arms and blades, link motion part, and water valves, RIKI was facing pressure to meet automakers' requirements for design and quality while remaining cost-competitive.

In the past, RIKI needed to convert 3D data provided by OEMs to 2D before any design could start, which generated extra time and effort. With the use of CATIA software, RIKI successfully migrated from 2D to 3D template-based design. After deploying CATIA's 3D virtual design platform, the company is now able to consolidate design environments and create a single reference model for the design of all future auto parts made by RIKI, streamlining the automobile wiper design process while significantly reducing man hours and time for design changes. In addition, with the 3D template-based design, RIKI developed a new design review system, improving visibility to avoid human errors often possible in a 2D environment and further enhancing collaboration with OEMs.

"In the auto industry, it is important to streamline processes for man-hour reduction and efficient collaboration with OEMs and partners," said Toshiaki Isomura, engineering department manager, RIKI. "Dassault Systèmes' CATIA, which is recognized as a highly valuable process-based solution in the auto industry, has enabled us to minimize design changes and better collaborate internally and externally. Moving forward, in order to continue to increase our competitiveness, we will adopt Dassault

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Systèmes' ENOVIA SmarTeam for effective data management and fully concurrent design with CATIA.”

“We are pleased that RIKI has selected CATIA as its main design solution,” said Nikos Calfacacos, Managing Director, Dassault Systèmes Japan. “In the competitive auto industry, I am convinced that RIKI will increase efficiency and reduce costs by implementing a full 3D design process. As the world’s leading supplier of PLM solutions, we, together with the support from our partners, are committed to providing the value of PLM to help our customers enhance company value. Dassault Systèmes solutions were implemented through the collaboration of Dassault Systèmes and CIS, a Dassault Systèmes Value-Added Reseller in Japan.”

About Tokai Riki Mfg

Tokai Riki Mfg. Co., Ltd. (RIKI) was established in 1959, and has provided key auto parts including wiper arm & blade, link motion and water valves for major OEMs. For more information, visit <http://www.tokai-riki.co.jp> (Japanese only).



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Valor Announces Fundação CERTI's Purchase and Successful Implementation of Valor's Software Solutions

May 2009

[Valor](#) Computerized Systems, Inc. announced that Fundação CERTI, based in Florianopolis Brazil, has purchased and successfully implemented Valor's Trilogy DFM, vPlan, vManage and solutions.

CERTI is an independent private technology research and development organization that conducts unique activities and maintains partnerships with universities and research centers in Brazil and abroad. Its mission is to provide industrial and service companies with technological solutions. CERTI's continuous challenge is to maintain itself at the vanguard of technical knowledge. Through “mobilizing projects” that have public and private support, CERTI contributes to the technological, corporate and social development of Brazil.

CERTI purchased Valor's software in December of 2008 and the installation of the systems at the CERTI LABelectron factory in Brazil was completed in March of 2009. The Valor software solutions implemented at CERTI cover the entire manufacturing preparation and execution process including design for manufacturing (DFM) analysis of native CAD files, multi vendor SMT programming and optimization, component level materials management, SMT part verification and complete process traceability. Valor's systems interface with various machines at CERTI including Juki, Universal and Fuji.

“Valor and [CERTI](#) share a unique relationship, jointly promoting advanced technologies and processes that enable Brazilian companies to produce products at an accelerated pace and with the highest quality levels in order to maintain a competitive advantage. The Valor solution will provide CERTI with complete real-time visibility and control over its manufacturing processes as well as full traceability of components and materials. We expect to duplicate the success we have shared with CERTI at many other Brazilian electronics manufacturers,” said Dan Weitzman, President of the Americas.

“Foundation CERTI is extremely satisfied with the acquisition and implementation of the Valor system. Valor's software brings a lot of benefits for CERTI LABelectron and our customers. The Trilogy DFM and DFA software allows us to accelerate the introduction of new products. Now our customers receive

an HTML report complete with images of potential PCB design problems that could negatively impact the manufacturing, assembly and test of their products. The Valor DFM software reduces the risk of delays in the product development cycle as a whole. We have optimized our assembly processes with the implementation of the vPlan software. In addition to automatic assembly machine programming and optimization, the vPlan system generates the necessary documentation for manual and automatic assembly stations as well as visual controls for inspection. Overall the vPlan system enables better execution of the activities on the factory floor and a reduction of the preparation time for all assembly processes. The implementation of the vManage module has enabled greater control for all of the activities in the plant. This occurs through accurate materials management, closed loop setup verification of the machines, monitoring of the equipment and fast identification of issues and errors on the assembly line. We believe that the Valor system at LABelectron is a positive step towards our objective to raise the level of excellence for all manufacturing processes and in supporting our customers in the development of electronic products and in the dissemination of innovative technologies,” said Carlos Alberto, CERTI’s Executive Director.

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Product News

Agilent Technologies Announces Industry’s First Complete, Front-to-Back Solution for MMIC, RF Module Design

1 June 2009

Agilent Technologies Inc. announced [Advanced Design System \(ADS\) 2009 Update 1](#), the industry’s first complete, front-to-back solution for monolithic microwave integrated circuit ([MMIC](#)) and [RF module design](#). The release integrates 3-D electromagnetic (EM) analysis, wireless standards-based design verification libraries, [X-parameter](#)* simulation, and statistical design and yield optimization. Advanced Design System 2009 Update 1 enables designers to stay within the design and simulation platform of choice for their entire design cycle and eliminates the need for separate, time-consuming point tools.

“This release represents a big jump in efficiency for MMIC and RF module designers,” said How-Siang Yap, product marketing manager with Agilent’s EEs of EDA division. “Designers clearly prefer a single design flow, without the stops and starts associated with point tools. ADS 2009 Update 1 provides a single, superior flow where our customers can do more analysis while spending less money on design tools.”

Major benefits and features in ADS 2009 Update 1 include:

- Integrated planar and 3-D EM simulation and analysis that allows designers to account for EM effects from packages and interconnects without any import or export of data or models. This saves time and makes the overall design process more efficient and accurate.
- An X-parameter simulation model generator that delivers fast, drop-in useable and accurate nonlinear behavioral models. These models eliminate the need for datasheets of specification-based characterization parameters and the laborious measurements typically required for accurate designs.
- Easy-to-use statistical and yield Optimization Cockpit that allows the designer to

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interactively modify settings in real time during the optimization, resulting in better, faster designs.

ADS 2009 Update 1 also includes other enhancements for MMIC design:

- An MMIC layout personality, allowing one-click access to commonly used MMIC layout functions for ease-of-use and increased engineering productivity.
- Access to ADS layout functions from foundry-endorsed Process Design Kit (PDK) components for faster, error-free MMIC/system-in-package (SIP) layout and design synchronization with the schematic.
- Mentor Calibre Layout-Vs-Schematic (LVS) integration in the MMIC/SIP design flow, ensuring error-free layout connectivity before hardware fabrication.
- In addition, Agilent has recently established a new research and development team specifically focused on enhancing PDKs to take advantage of the MMIC/SIP front-to-back design flow in ADS2009 Update Release 1.

“Our partnership with key MMIC foundries and their customers ensures that all criteria required for full PDK endorsement within ADS is met,” said Steve Chen, Advanced Design System research and development manager with Agilent’s EESof EDA division. “The partnerships allow the ADS EDA platform to completely support the MMIC front-to-back flow signoff with Mentor’s Calibre or Cadence’s Assura verification tools, which are required by many foundries and customers.”

ADS 2009 Update 1 also integrates with Cadence and Mentor backend verification tools, enabling the import of Design Rule Check results from Cadence Assura, Mentor Calibre or Triquint MailDRC for viewing and correcting within the ADS layout environment.

More information about ADS 2009 Update 1 is available at www.agilent.com/find/eesof-ads2009-update1. To request a demo of ADS 2009, visit www.agilent.com/find/eesof-demo-software-request.

U.S. Pricing and Availability

ADS 2009 Update 1 will be available in September 2009, with prices starting at approximately \$21,000. It is also available in time-based bundles, starting at approximately \$8,000 per year.

Additional information about all Agilent EDA software offerings is available at www.agilent.com/find/eesof.

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Agilent Technologies Offers Process Design Kits for Jazz Semiconductor’s 0.18-micron SiGe BiCMOS Process

2 June 2009

Agilent Technologies Inc. announced the availability of two process design kits (PDKs) for Jazz Semiconductor’s (A Tower Group company) 0.18-micron SiGe BiCMOS process offerings that are used with Agilent’s [Advanced Design System 2009](#) EDA software. The PDKs accelerate customers’ time-to-market for IC development in automotive collision avoidance, high-data-rate networks, emerging HDTV wireless standards and other high-speed applications. Agilent and Jazz will demonstrate these PDKs at the International Microwave Symposium (MTT-S) in Boston, June 7-12.

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The Jazz SBC18HA and SBC18H2 PDKs are the result of collaboration between Jazz and Agilent to offer an accurate and productive work environment for the industry's latest Silicon Germanium Monolithic Microwave Integrated Circuit (SiGe MMIC) design solutions. The SBC18HA and SBC18H2 have been widely accepted in many high-frequency applications, including 24GHz and 77GHz collision avoidance radar, 60GHz WLAN HDTV, wireless base-station back haul, and a host of optical applications, including TIA, laser drivers, SERDES and CDRs.

"Our collaboration with Jazz is in response to the strong market demand from our mutual customers for a fast and efficient RFIC design flow," said Avery Chung, foundry program manager of Agilent's EEsof EDA division. "With these new SiGe PDKs in ADS 2009, customers will be able to design high-performance ICs operating up to 60GHz and higher. They can use the breadth of capability ADS provides, including design for manufacturing toolsets and Momentum, the industry-leading 3-D planar EM simulator."

"These PDKs offer design teams a smooth transition from GaAs-based high-frequency product design to silicon-based product design by using the same Agilent ADS design environment now available with Jazz's high-performance SiGe technology," said Marco Racanelli, senior VP and general manager, Jazz Semiconductor. "Recognizing that ADS is a leader in this market, Jazz partnered with Agilent to speed time-to-market for our customers who are targeting applications up to and beyond 60 to 77GHz in our SiGe technology."

Both the SBC18HA and SBC18H2 PDKs are certified by Jazz and Agilent to take advantage of [ADS 2009](#), the latest release from Agilent EEsof EDA. ADS 2009 contains new features that support IC, package and RF board co-design. The software helps cut hardware integration turns by revealing unexpected component interactions upfront that cause integration failures downstream. These PDKs are expected to ship late June.

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Altair Releases HyperWorks 10.0 with Powerful New Solver Capabilities and Technology Innovations

3 June 2009

[Altair Engineering](#) announced the release of Altair HyperWorks 10.0, an even more powerful version of its integrated computer-aided engineering (CAE) software suite. This new release builds upon the breadth of solver solutions and computation speed of RADIOSS, launches several first-to-market design optimization advancements, introduces a new mathematical analysis software technology, and extends its market leadership position in modeling and visualization technologies.

"HyperWorks 10.0 lets engineers be engineers," said Altair HyperWorks Vice President Jeffrey M. Brennan. "Altair's goal for modeling, analysis and visualization is to bring a high level of automation to these processes, allowing engineers to have more time to study, improve and optimize their designs and apply their problem-solving skills to address today's complex design challenges. From a business perspective, this allows staff resources to invest more time on value-added activities that can have an immediate impact on both efficiency and innovation."

"I've been using Altair HyperWorks software since version 7 and the enhancements with every new release have always proven to be very significant," says Suresh Dharmaraj, senior mechanical engineer at Otis Elevator Company. "As a beta user of HyperWorks 10, I can make the same claim. When it comes to technical support, I'm very impressed and would rate Altair the best in the industry. I am happy to recommend HyperWorks software to anyone who enquires."

What's new in version 10.0

Faster and Expanded Solver Solutions

RADIOSS 10.0, an implicit and explicit solver technology for linear, nonlinear and crashworthiness problems, delivers an even broader solution scope and new element formulations that enable analyses to be completed up to seven times faster than before. RADIOSS solver advancements include:

- Expanded solutions for noise-vibration-and-harshness (NVH) and heat-transfer analysis
- A new “fast parabolic” tetrahedral element for impact and explicit analyses that improves analysis throughput by up to three times faster without sacrificing results accuracy
- New parallelized solutions for linear statics, linear buckling and direct frequency response analyses that increase computational speeds by four to seven times
- A new multi-domain analysis algorithm that allows large crash models to be analyzed two to three times faster
- New implicit and explicit composites analysis capabilities to support lightweight design initiatives.

“Volvo 3P India has been using HyperCrash and RADIOSS for safety analyses on our truck programs since 2005,” says Jean-François Guglielmo, chief engineer for Volvo 3P India. “HyperWorks 10.0 advancements in these technologies will help us achieve greater productivity and benefit our safety simulation process.”

MotionSolve 10.0, HyperWorks’ modern mechanical system simulation solution, introduces co-simulation capabilities with Simulink control systems and also with DSHplus hydraulic/pneumatic systems by FLUIDON, a HyperWorks Enabled Partner. Co-simulation allows analysis of the coupled interaction between mechanical systems with other systems to better understand system level behavior. Also, with the 10.0 release, MotionSolve now calculates more than 90 different Suspension Design Factors (SDF).

“HyperWorks’ finite element and motion analysis solvers, RADIOSS and MotionSolve, span the most popular and demanding solution types while delivering benchmarked accuracy, speed and cost-effective scalability that are required today,” says Dr. Uwe Schramm, chief technology officer for HyperWorks.

First-to-Market Design Optimization Innovations

With the release of HyperWorks 10.0, Altair continues its industry leadership in design optimization technologies. The suite’s optimization products, OptiStruct and HyperStudy, introduce first-to-market structural optimization innovations that include:

- Optimization for combined structural and multi-body dynamics problems
- A reliability-based module for design optimization that also provides improved data mining, evaluation and rating modules
- Optimization for fatigue life and damage considerations
- New acoustic optimization and combined thermal/mechanical optimization

HyperMath – A New Product for Mathematical Analysis

HyperMath is a general purpose numerical computing environment that allows customers to easily develop and perform custom mathematical operations on various types of data, including data associated

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with CAE pre- and post-processing. This new software technology includes a powerful and flexible programming language, comprehensive math and utility libraries, an integrated code development environment, data visualization and direct support of common data formats. HyperMath seamlessly works with the suite's design optimization and process automation tools, as well as third-party applications with command line support, to provide faster design direction and improved decision making.

Modeling, Morphing and Visualization Advancements

HyperMesh, Altair's flagship product for finite element pre-processing, includes several new algorithms for tetrahedral, hexahedral, "mesh flow" and mid-surface meshing. In addition to meshing efficiencies, other enhancements include:

- The ability to view one-dimensional elements as 3D objects to visually verify modeling information for accuracy
- New multi-directional morphing functionality that allows finite element models to be smoothly morphed or 'fit' to a surface or group of nodes.

"HyperMesh is a very important technology to Eaton Aerospace Business," says Christine Stahl, lead analytical engineer at Eaton Aerospace Business. "It allows us to create quality meshes of complex parts quickly. We look forward to the upcoming release of HyperWorks 10.0 and the added functionality that it will give our users."

HyperView 10.0 includes visualization speed enhancements and new post-processing capabilities for:

- Polar plots
- Advanced super-positioning
- Envelope tracing capabilities to quickly identify or locate a significant load step or simulation that contributes to the max, min, or extreme condition

For more HyperWorks 10.0 information including a complete listing of new products and functionality, software downloads, training videos and schedules, and regional roll-out events, please visit <http://www.altairhyperworks.com/HyperWorks10>.

Global distribution of HyperWorks 10.0 is ongoing, and current customers can download this version and the Release Notes either by logging into the HyperWorks Client Center portal or by visiting <http://www.altairhyperworks.com/HyperWorks10>.

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Anark Corporation Announces OpenFlight® Support

3 June 2009

Anark Corporation, a provider of automated 3D CAD transformation and visualization solutions, announced support for OpenFlight™, the most widely adopted 3D visualization format for real-time 3D visualization. Anark Core 2.2 exports OpenFlight™ data using native OpenFlight Read/Write APIs from Presagis™, a leading provider of commercial-off-the-shelf (COTS) modeling and simulation software.

OpenFlight™ is a 3D visual database format that has become a defacto standard for the visual

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simulation industry. Anark added OpenFlight support to Core 2.2 to enable viz-sim application developers to prepare and simplify complex 3D CAD geometry from tools such as like CATIA®, Pro/ENGINEER, Inventor®, and SolidWorks for use in visual simulation applications.

"Anark Core delivers a powerful yet intuitive tool for re-purposing CAD files in their native formats, promising to revolutionize the creation of training and simulation content in OpenFlight and other leading formats" said Andrew Morris, President of Visual Aircraft LLC.

Easy and effective geometry simplification features, coupled with powerful automation capabilities, make Anark Core the most cost-effective platform for preparing 3D CAD models for a wide array of military and civilian modeling, visualization, and simulation applications. Transforming 3D CAD geometry into lightweight, yet detailed and realistic models for use in real-time 3D visualization, training, and simulation applications is a costly and labor-intensive process. Now that Anark Core supports OpenFlight, it is much more cost effective for developers to import optimized CAD models directly into the popular modeling tool, Creator™, and also into 3D Image Generation environments such as Vega Prime™ and Lyra™.

"Our customers depend on Anark Core to extract more value from their 3D product design data for use throughout the extended enterprise," said Stephen Collins, Anark CEO. "Adding OpenFlight support will help to dramatically reduce development timelines, thereby saving organizations significant time and expense developing visual simulation applications that require the import of optimized 3D CAD models and assemblies."

For more information about Anark Core and OpenFlight support, please visit:

http://www.anark.com/core/cad_to_openflight.aspx



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Aras Announces Connector Technology for Siemens PLM Software's Teamcenter

4 June 2009

[Aras](#)®, an enterprise open source Product Lifecycle Management [PLM] software solution provider, and certified partner AESSiS, an expert in PLM solution services for complex engineering, announced in conjunction with PLM World 2009, Siemens PLM Software annual user group conference, integration connector technology for combining the Aras Innovator® suite of PLM software solutions with Siemens PLM Software's Teamcenter product line.

The integration securely extends the full data model of Teamcenter to Aras using standard Teamcenter components and published APIs for a comprehensive, fast, and supportable connection. Now, companies that use Siemens PLM Software's Teamcenter for CAD file management and other PDM-related processes can take advantage of the advanced PLM capabilities of Aras across the enterprise for "large user count" processes including:

- Enterprise engineering change management workflow processes,
- New product development and introduction phase-gate product program management,
- Enterprise quality management,
- Global supplier management, and much more.

Connecting Teamcenter to Aras provides significant financial benefits in addition to delivering more

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PLM functionality. Freedom from licensing with Aras eliminates the per user expenses and module fees of Teamcenter. The Aras enterprise open source format means there are no license costs to provide unlimited users with complete access to Teamcenter files, information, and processes. With Aras, global businesses can avoid buying additional Teamcenter licenses and leverage their existing Teamcenter system to extend PLM data and full PLM functionality to every user in the company.

“Now, global organizations that rely on Teamcenter can afford to achieve true enterprise-wide PLM deployments because of Aras,” said Peter Schroer, President of Aras. “The AESSiS approach provides not just browse access, but full functionality with comprehensive security and no limitations.”

“Connecting Teamcenter to Aras is particularly advantageous during the current global recession,” said Graham McCall, Managing Director of AESSiS. “Eliminating costly Teamcenter user, module, and server license expenses significantly reduces the enterprise PLM costs and improves corporate profitability.”

The AESSiS approach uses PLM XML and is available for the entire Siemens PLM Software Teamcenter product suite including Teamcenter Engineering, Teamcenter Enterprise, and Teamcenter Unified. PLM XML is Siemens PLM Software’s official format for interoperability based on the W3C standards.

AESSiS is now offering the integration connector technology and professional services to companies that use Siemens PLM Software’s Teamcenter. For more information visit:

<http://aessis.net/InnovatorTeamcenterFactsheetGetPaper.aspx>.

About AESSiS

AESSiS provides expert engineering process consulting and product lifecycle management implementation services for complex PLM initiatives at discrete manufacturing companies. Professional services range from engineering process improvement and cost reduction to solution deployment program management and PLM technical implementation. For additional information visit

<http://www.aessis.com>

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CHEMKIN-CFD: Now Available at No Cost to ANSYS FLUENT Users Via Partnership Between Reaction Design and ANSYS, Inc

2 June 2009

Reaction Design®, the clean technology chemistry leader, announced a strategic relationship with ANSYS, Inc. The agreement calls for Reaction Design to deliver to ANSYS customers a new ANSYS® FLUENT® optimized version of [CHEMKIN-CFD™](#), an advanced chemistry simulation technology that couples [accurate chemical kinetics to flow simulations](#). Available to ANSYS FLUENT licensees for free, CHEMKIN-CFD, coupled with ANSYS FLUENT technology, facilitates highly accurate combustion and emissions analysis for automotive engine or industrial power generation designs.

In the energy, transportation, and chemical process sectors, today’s challenges of increased fuel flexibility, high-efficiency demands, and emissions reductions, coupled with a difficult economy, set the stage for an increased role for accurate simulation. In the current economic climate, efficiency of design and operation are paramount for the successful system designer. Commercial combustion firms and materials manufacturers recognize that achieving low-emissions design, improving productivity and increasing performance require incorporating more detailed chemistry in their simulations. Using

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engineering simulation effectively in design workflows can enhance designer ingenuity, reduce development costs, and improve speed to market.

“In today’s world, the ability to accurately predict the effects of detailed chemistry in combustion or catalytic systems is critical. However, past technology solutions have forced engineers to make tradeoffs between accuracy and time to results,” said Bernie Rosenthal, CEO of Reaction Design. “Our joint solution with ANSYS provides engineers a fast, no-cost, highly predictable solution that meets complex simulation requirements throughout combustion, aftertreatment and materials applications — thereby reducing the need to make the risky accuracy versus speed tradeoff.”

"Reaction Design’s contributions to the development of clean technology combustion systems and fuels through the application of detailed chemistry is well recognized, and it is with great pleasure that we elevate our partnership with such a technology leader," said Dipankar Choudhury, vice president of corporate product strategy and planning at [ANSYS, Inc.](#) "CHEMKIN-CFD helps ANSYS FLUENT users improve their understanding of complex reacting flows and chemistry. The combined power of these leading technology solutions from both ANSYS and Reaction Design deliver exceptional computational speed needed to accurately simulate behavior of complex designs while providing an in-depth understanding of flow and chemistry. Significant speed improvements have been realized relative to earlier releases of this joint solution."

Traditional computational fluid dynamics (CFD) solution algorithms use an iterative process to arrive at convergence for all the momentum, energy, species and mass conservation equations in a 3-D model. If the chemistry is stiff (as it is in most combustion simulations and surface-catalytic systems), such an approach can lead to instabilities that dramatically increase simulation run times. Reaction Design’s CHEMKIN-CFD employs a proprietary solver technology to speed up simulation with high levels of accuracy. Specifically designed to handle stiff gas-phase and gas-surface chemistry, CHEMKIN-CFD, together with ANSYS FLUENT, solves species and energy conservation equations in a closely coupled manner for both transient and steady-state problems. Within a flow simulation, the ANSYS FLUENT optimized version of CHEMKIN-CFD solves coupled conservation equations at every cell (or grid point), at every iteration and at every time-step. ANSYS FLUENT software then performs transport calculations over all grid points, optionally using the transport properties provided by CHEMKIN-CFD. In this scenario, the combination of ANSYS FLUENT and CHEMKIN-CFD allows robust convergence and accurate resolution of chemistry terms for complex reaction mechanisms.

Availability:

CHEMKIN-CFD is available today, and is included with each ANSYS FLUENT download. License files may be obtained from Reaction Design for up to four free processes. For more information, please visit <http://www.reactiondesign.com/>.

For support, please contact Reaction Design at 1-858-550-1920 or support@reactiondesign.com

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ESI Announces VA One 2008.5

2 June 2009

[ESI Group](#) announced the release of VA One 2008.5. VA One is a complete solution for simulating noise and vibration across the full frequency range seamlessly combining Finite Elements, Boundary Elements, and Statistical Energy Analysis (SEA) in one model. The new release comprises over 40

major enhancements across all modules.

New isolators and junctions

Isolators and noise control treatments are an important part of the design of quiet products with superior noise and vibration performance. VA One 2008.5 includes improved models of isolators and noise control treatments between structural and acoustic subsystems. The models have been developed in conjunction with leading isolator manufacturers. “ITT Enidine specializes in the design and manufacture of advanced isolation systems,” said Jeff Weisbeck, Research Scientist at ITT Enidine, “we are pleased to announce our collaboration with ESI Group in the development of improved isolator models in VA One.”

More accurate models of acoustic radiation

The Fast Multipole Boundary Element algorithm in VA One 2008.5 has been further enhanced to provide more accurate models of acoustic radiation at low frequencies. Applications include the design of quieter Continuously Variable Transmissions (CVTs) and the acoustic design of brake assemblies with reduced propensity for squeal.

Productivity enhancements

VA One 2008.5 contains a number of key enhancements for speeding up model creation including faster creation of manual junctions between subsystems, interactive design of poroelastic noise control treatments and automated meshing of non-manifold CAD geometry.

“Whirlpool’s commitment to our customers includes delivering appliances with superior noise and vibration performance,” said Dr. Robert Unglenieks, Lead Engineer at Whirlpool Corporation’s St. Joseph Technology Center Sound and Vibration Laboratories. “VA One is an important tool in our NVH processes to reduce our reliance on building and testing prototypes. It drives us to a deeper understanding of the physics and provides substantial time and cost savings”.

“We are pleased to announce the release of VA One 2008.5” said Dr. Phil Shorter, Director of Vibro-Acoustic Product Operations at ESI Group. “The enhancements in this release continue our commitment to providing our customers with state-of-the-art methods for vibro-acoustic analysis and design”.

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ETRAGE and TWeatherford Announce Plot Service for Windchill Integration with TransMagic

1 June 2009

ETRAGE LLC, The Engineering Automation Company, and [Tweatherford, Inc.](#) announced they have embedded Plot Service for Windchill® (PSW) with TransMagic 3D CAD data interoperability and translation software.

With [TransMagic](#) embedded into PSW, companies using PTC Windchill PLM software can now automatically translate Pro/ENGINEER parts and assemblies that are stored in Windchill PDMLink and Windchill INTRALINK to numerous 3D applications. PSW now works with new formats including CATIA V4, CATIA V5, SolidWorks, Unigraphics, NX and Autodesk Inventor along with existing PDF, ProductView, JT, VRML, HPGL, IGES, STEP, STL, Shrink-Wrap, DXF, TIFF, BMP, JPG and EPS output formats.

PSW can monitor Windchill for released drawings, parts or assemblies and automatically plot, print or

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export the files to meet user defined requirements. PSW has three operating modes.

- Automatic processing upon changes of lifecycle or revision
- Batch processing
- On Demand processing

"We are excited to add these CAD formats to PSW to provide additional flexibility for the PSW product," stated Ron Zabilski, Etrage Director of Sales and Marketing.

"PSW, with the integration of TransMagic, will save a significant amount of time for companies that translate Pro/ENGINEER models to other 3D CAD formats," advised Tim Weatherford, Vice President of TWeatherford, Inc. and new [Etrage](#) Product and Services Reseller. "We have customers that are spending up to a person-week per week manually translating parts and assemblies stored in Windchill to other CAD formats such as SolidWorks, UG and CATIA."

"TWeatherford is a certified TransMagic VAR. Together, we saw a lack of robust data exchange options for PLM systems that would meet the requirements of complex supply chains and allow the flow of 3D data for both CAD and non-CAD users," said Craig Dennis, CTO of TransMagic. "The rapid implementation, quality and robust nature of TransMagic make it ideal to incorporate into PLM systems to provide accurate CAD translations and improved data exchange options."

For a demonstration of PSW with TransMagic integration, visit the Etrage booth, #609, at the PTC/USER World Event, in Orlando FL, June 6 to 10, or contact Ron Zabilski at 978.922.2012 or Tim Weatherford at 866 936-2756 X301.

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IBM Helps Organizations Transform Software Investments into Strategic Business Assets

1 June 2009

IBM announced new products and services to help organizations more effectively align their business strategies with their investments in software. The new offerings are designed to help clients lower costs and reduce risks by providing increased visibility into the status of software projects and the ability to monitor and improve the performance of these investments. Additionally, IBM will be previewing several of its software delivery products in a cloud environment, giving clients an early look at how they can minimize costs while freeing up resources for investments in new projects.

With the Jazz technology platform serving as the basis for implementing today's new products and enhancements, IBM continues to help clients deploy flexible business processes to improve cross-organizational collaboration.

Improving Collaboration to Achieve Desired Business Outcomes, Powered by Jazz

In challenging economic times, making uninformed decisions can lead to costly mistakes that businesses can't afford to fix. Yet 77% of managers continue to be aware of bad decisions being made due to a lack of access to accurate information.* To prevent this from continuing, organizations need to view their investments in software as strategic business assets, and therefore make better informed decisions based on the current status of these software projects and the evolving needs of their businesses.

With these client needs in mind, IBM today is introducing [IBM Rational Insight](#), a new investment and project management solution designed to help business leaders measure and manage team performance

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and project results across an entire organization. Built using IBM Cognos software, Rational Insight provides metrics and dashboards that help businesses find and focus on cross-organizational issues that delay or derail software and systems projects, ensure the right people are collaborating, and then take real-time action to continuously improve results.

However, having measurable and manageable capabilities means nothing if organizations can't apply improved visibility and governance to turn insights into actionable results. Today, 59% of business projects fail to achieve one cost, time or scope objective, or fail entirely.** In an effort to help organizations better deliver desired business outcomes, IBM is introducing a beta program for [IBM Rational Focal Point for Project Management](#), a new solution designed to reduce the delays and mistakes that hinder software projects from meeting the needs of the business. With Jazz serving as the underlying platform, Rational Focal Point for Project Management can improve business outcomes and manage changing priorities by enabling communications, workflow and collaboration across geographical and organizational boundaries.

According to a recent survey, only 22% of executives felt that their IT and business strategies were tightly integrated.*** Organizations must enable their IT and product development teams to more effectively execute against strategic plans at lower cost and risk to their business so they are better able to satisfy stakeholders. Through new enhancements and integrations to [IBM Rational Focal Point for Product and Portfolio Management](#), [IBM Rational Requirements Composer](#), [IBM Rational Team Concert](#), and [IBM Rational System Architect](#), IBM is helping a broad set of constituents -- from business leaders to software delivery teams -- prioritize projects and related IT investments. New upgrades to [IBM Rational Team Concert](#) also help an organization efficiently execute on their improved plans, regardless of the organizational and geographical boundaries of its team.

Additionally, with IBM's new [Measured Capability Improvement Framework \(MCIF\)](#), organizations can also take actions to continuously improve on results by learning from past experiences. Through MCIF, IBM provides organizations with an end-to-end framework that enables them to measure results and manage projects so they can incrementally improve their software delivery capability.

"In today's economic climate, businesses are looking for new ways to derive greater value from their investments in software," said Dr. Daniel Sabbah, general manager, IBM Rational Software. "Up until this point, organizations have been lax in measuring the business value and discipline of the processes they use to deliver software assets. Classic metrics in software engineering largely ignore the importance of actual business outcomes. Our clients are now beginning to realize that the software they build or assemble must be treated as a strategic business asset. IBM is committed to helping them make the right decisions and improve the successful outcomes of this newly emerging business process discipline."

Delivering Rational Services in the Cloud Designed to Free up Resources

As IBM expands its cloud computing capabilities, it will also be previewing a new set of Rational services that help design, test and deploy software assets into the cloud. IBM Rational Software Delivery Services for the Cloud will provide all the benefits of software as a service, including lower total cost of ownership, instant scalability, faster deployment, and increased productivity, with the added benefit of Cloud virtualization and flexible pricing. Several demonstrations of these new services will be shown at the Rational Software Conference, with formal technology previews planned for late June.

Business Partners Extend Value of New IBM Products

Also extending the value of these new offerings, Business Partners in the [Ready for IBM Rational](#) program, including [CAST Software](#), [QSM](#) and [Galorath](#), will be introducing new integrations for

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Rational Insight and Rational Focal Point for Project Management.

In related news, Rational System Architect and Rational Focal Point for Product and Portfolio Management will also be available for IBM System z customers.

For more information, please visit <http://www.ibm.com/software/rational/announce/>

1 * "The Fact Gap: The Disconnect Between Data and Decisions," BusinessWeek and Business Objects Study. http://www.businessobjects.com/global/pdf/whitepapers/fact_gap.pdf

2 ** "Making Change Work," IBM Global Services Study. <http://www-935.ibm.com/services/us/gbs/bus/pdf/gbe03100-usen-03-making-change-work.pdf>

3 *** "IT's Unmet Potential," McKinsey Global Survey, 2008.

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Korrigo is First Document Management Solution for AutoCAD LT

3 June 2009

First Trace, Inc. has announced the world's first and only document management solution for AutoCAD LT with the newest release of **Korrigo 4.1**. The lack of an engineering document management solution for the nearly 4 million AutoCAD LT users has hampered productivity for more than a decade in the small, medium and increasing number of large companies using AutoCAD LT.

Since AutoCAD LT was first delivered in 1992 there has never been a file management solution available for LT users; not even from Autodesk. Korrigo is a document management software solution from First Trace that now offers support for AutoCAD LT 2007 - 2010. Korrigo is currently the only engineering document management solution available for the AutoCAD LT product.

Companies large and small have begun to understand the very real opportunities for reducing costs and risk with a proper engineering document management solution. Exciting ROIs of less than 90 days are often possible. For the first time, AutoCAD LT users can replace their inefficient manual solutions in favor of the automation and data security provided by a true engineering solution. AutoCAD LT users can now take full advantage of these savings with Korrigo's transparent version control, property management and file relationship management capabilities.

"Korrigo offers two unique ways to manage your AutoCAD LT drawings," said Terry Simpson, President of First Trace. "Document management can be completely transparent to the majority of users as Korrigo automatically manages CAD drawings through the simple act of opening and saving them within AutoCAD LT. When more capabilities are required, customers can use our extended Windows Explorer interface for quick access to document control functions."

The addition of AutoCAD LT support for Korrigo complements the product's current suite of CAD integrations to AutoCAD, SolidWorks, MicroStation as well as Microsoft Office and OpenOffice.

To celebrate this groundbreaking release, First Trace is offering a Korrigo for AutoCAD LT summer promotion with aggressive 90-day pricing. To learn more about the world's first and only document management solution for AutoCAD LT, visit <http://www.FirstTrace.com/product-korrigo-autocad-lt.jsp>.

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Kubotek KeyCreator Version 8.5 Delivers Translation and Performance Enhancements

1 June 2009

[Kubotek USA](#) announced a release of its KeyCreator software.

KeyCreator version 8.5 contains thirty-two overall enhancements and is strongly focused on advancing the quality of the software. Version 8.5 includes updated 3D CAD translators for Pro/Engineer, Siemens NX, CATIA V5, Autodesk Inventor, ACIS SAT, and Parasolid X_T files. Additionally KeyCreator version 8.5 includes new options for improved graphics performance, a new and faster section view function, support for AutoCAD hatch patterns, and creation of wireframe cross-section entities from a dynamic cutting plane.

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Kubotek Partners with Bunkspeed for Integrated KeyCreator CAD and HyperShot Photo Rendering Solution

2 June 2009

Kubotek USA announced that Bunkspeed's rendering application [HyperShot](#) can now be incorporated with its [KeyCreator CAD](#) software for distribution within the Americas. This integration is made possible by a partnership with Bunkspeed, makers of HyperShot. The agreement will further enhance the speed and flexibility for designers and engineers to not only create 3D models, but to then render them into photographic imagery for use in design, engineering and marketing.

HyperShot is the first digital camera for 3D data. Using scientifically accurate materials and real-world lighting in real-time, the patent pending application gives anybody involved with 3D data the ability to create photographic images in a matter of minutes.

Kubotek USA has developed a plugin for HyperShot that allows for integration of the two technologies. By combining the flexible, direct modeling 3D CAD technology of KeyCreator with such a simple and intuitive, real-time rendering software, Kubotek customers will be able to bring their CAD data to life quickly.

Says Scott Sweeney, Vice President from Kubotek, "This is a perfect package for anyone in the product or industrial design world that wants world class photorealistic rendering for their models, but doesn't want to spend the hours it can often times take to setup and render their models for Digital prototyping or marketing purposes. We feel the two packages together give our customers unmatched ease of use and flexibility without sacrificing precision—qualities that are at the heart of technology."

As part of a limited time introductory celebration, Kubotek is offering special pricing on new seats of KeyCreator bundled with HyperShot. Call or visit [Kubotek USA](#) on the web for additional information on this offer.

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Mentor Graphics Delivers PADS 9.0 Flow Release Featuring the World's Most Advanced Design Technologies

2 June 2009

Mentor Graphics Corporation announced the availability of the next-generation PADS® flow with the

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introduction of PADS 9.0. This significantly-enhanced release of the PADS flow adds new levels of functionality, scalability and integration, enabling designers to leverage many of Mentor's innovative technologies for design, analysis, manufacturing and multi-disciplined collaboration. With the scalable PADS 9.0 flow users can cost-effectively design their products from standard to the industry's most complex, highest performance, and densest PCBs.

Functionality now integrated and available in the scalable flow includes the addition of manufacturing and collaboration tools, and the world's most powerful thermal, signal and power integrity analysis, as well as many core design entry and layout enhancements. The PADS flow provides maximum designer productivity and reduces time to market while implementing the most advanced PCB fabrication and IC/FPGA technologies into electronic products.

“With PADS high speed auto-routing we were able to significantly reduce our design cycle, from more than two months to 40 hours,” stated Don Wood, electrical designer at SIE Computing Solutions, Inc. “We're looking forward to incorporating additional PADS capabilities, like HyperLynx signal integrity, to further reduce design spins and help us make better up-front decisions about our design strategies.”

Consistent with PADS 9.0 scalable flow strategy, Mentor now offers a series of pre-configured PADS Suites that address designer's most aggressive technology needs at an extremely cost-effective price. A typical Suite configuration includes:

- § Design entry including DxDesigner®, variant management, and data import/translators from competitors' PCB design systems

- § HyperLynx® pre-and post-layout signal integrity simulation, thermal analysis and analog simulation

- § PADS Layout with powerful auto-routing, high speed rule adherence, unlimited database and layers, and design reuse

- § Advanced manufacturing rules

- § 3D Viewer and integration to multi-disciplined collaboration solutions

“The release of PADS 9.0 exemplifies Mentor's continuing commitment to delivering cutting edge technology to the world's largest PCB design user community,” said Dan Boncella, director of marketing, Systems Design Division of Mentor Graphics. “PADS offers a low cost of entry, yet delivers high performance that exceeds any other desktop PCB design solution on the market.”

Ease-of-use and integration improvements have been made throughout the flow. The DxDesigner tool provides a complete system design capability in a single user environment. The environment integrates schematic, HDL, analog, and PCB design disciplines to accelerate the design process. A 3D viewer has been introduced to the PADS flow which allows users to get a true 3D representation of their design in the PCB environment. The 3D models of components—mechanical parts, such as brackets, and enclosures—can be imported to identify mechanical conflicts earlier in the design. Several enhancements for high-speed design have been made, including routing accordion patterns with arcs, accordion keep-outs, and differential pair tuning to ensure each trace is exactly the same length. Padstack creation has been enhanced to allow rounded and chamfered corners. New outputs have been introduced in PADS 9.0 including IPC356 netlist and a new “flat” DXF file. Other enhancements include new layer visibility commands, additional automation objects and methods, and much more.

PADS Flow Functionality, Integration and Scalability

In addition to many enhancements made to the core design entry and layout modules, the PADS 9.0

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flow offers users the opportunity to integrate many of Mentor's advanced technology offerings:

§ HyperLynx Analog provides a truly scalable solution for board-level analog and mixed signal simulation.

§ I/O Designer™ offers a foundation for an effective FPGA/PCB co-design process enabling designers to optimize system performance and reduce PCB layers.

§ HyperLynx Signal Integrity (SI) and Power Integrity (PI) enable engineers to design for optimum performance and reliability.

§ HyperLynx Thermal integration allows quick and easy analysis of the thermal characteristics of PCBs early in the design process.

§ A 3D Viewer allows users to pan, zoom, and rotate plus the ability to import 3D models of components and other mechanical devices.

§ The visECAD™ tool enables real-time collaboration between designers and the rest of the supply chain (procurement, manufacturing, test, etc).

To learn more about PADS, please visit <http://www.mentor.com/pads> or to find your local reseller visit <http://www.mentor.com/products/pcb-system-design/design-flows/pads/resellers>.

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Nemetschek North America Announces Service Pack 4 for Vectorworks 2009

5 June 2009

Nemetschek North America has released its fourth Service Pack for the Vectorworks 2009 product line. Many quality improvements have been added to this Service Pack, including improvements related to stairs, performance, and overall stability.

"We continue to get great feedback from our users," says Mark Farnan, Director of Software Development at Nemetschek North America. "And, the error reporting option in the Vectorworks Preferences dialog box has allowed us to quickly identify and address stability issues."

Currently, Service Pack 4 is available only for professional licenses as a downloadable updater. All other license types will be available in the next few weeks. To install the Service Pack, go to the About Vectorworks dialog box in the Vectorworks 2009 application and click Check for Updates.

Vectorworks 2009 was released on September 15, 2008. The Vectorworks 2009 product line includes Vectorworks Designer, Vectorworks Architect, Vectorworks Landmark, Vectorworks Spotlight, Vectorworks Machine Design, Vectorworks Fundamentals, and Renderworks. It features a new engine that gives users 2D and 3D capabilities, at speeds that are up to four to five times faster for modeling operations. For a product-by-product breakdown of all the new version 2009 improvements, and to see some of these features in action, visit <http://www.vectorworks2009.net>.

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New CAD/ERP Link for Microsoft Dynamics AX

3 June 2009

Today, PDM technology launched BlueStar CAD/ERP link - a bidirectional CAD/ERP data integration

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system available for Microsoft Dynamics AX and a range of leading mechanical CAD systems.

By the click of a button, BlueStar CAD/ERP link synchronizes CAD parts, assemblies and associated properties with items, BOMs and data in Microsoft Dynamics AX making manual re-keying of data between CAD and ERP redundant. You will save time helping you lower costs and lead time while freeing up otherwise unavailable human resources which can be leveraged in value-adding activities instead.

The solution also prints CAD drawings to PDF before exporting and storing them in Microsoft Dynamics AX which ensures that authorized personnel outside of the engineering department can easily access drawings that reflect the latest changes. This mitigates errors in production caused by outdated drawings and improves collaboration between engineering and production teams.

BlueStar CAD/ERP link is a light but powerful application which delivers the tight integration of CAD and ERP data that is needed in engineering-intense environments. The application therefore does not include other PLM functionality.

On that note, PDM technology offers favorable upgrade opportunities for users of BlueStar CAD/ERP link who wish to expand the solution to include PLM functionalities such as document management, engineering change management, workflow and more. Consequently, BlueStar CAD/ERP link is a future-proof solution which requires a limited initial investment.

Supported CAD systems include AutoCAD, Inventor, SolidWorks, Catia, Pro/E, Solid Edge and more...

Download the [BlueStar CAD/ERP link](#) product sheet.

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Right Hemisphere Unveils Deep Exploration 6 Client Software to Enable the Visual Enterprise

1 June 2009

[Right Hemisphere](#)® announced a feature-rich release of its Deep Exploration™ client software. Available in August, Deep Exploration 6 has evolved to become highly integrated into Right Hemisphere's visual solutions and supporting technology infrastructure. Key new features include a highly configurable workflow-oriented user interface (UI); improved ability to view, select and navigate complex 3D models with new volume selection and real-time massive model navigation; a new XML file format to facilitate its integration with enterprise systems; and a completely new photorealistic rendering engine.

"Unifying visual and text-based product information is critical to enabling the Visual Enterprise. What Deep Exploration does for the Visual Enterprise is deliver navigation, authoring and repurposing of complex product information across a wide variety of business workflows," said Mark Thomas, founder and CTO at Right Hemisphere. "For Deep Exploration 6, we developed a more flexible and configurable user interface. We wanted to simplify the creation of a wide variety of downstream deliverables in alignment with the user's specific workflow needs. We've also made Deep Exploration easier to integrate with our Deep Server product as well as other enterprise systems in order to help unify and synchronize visual product information with business data for our customers who manufacture complex products."

Redesigned, Streamlined and Customizable User Interface

Deep Exploration 6 has a completely redesigned user interface (UI) to support a variety of different end user tasks, workflows and deliverables. The new UI is streamlined, customizable, and allows users to

optimize their screen real estate for higher productivity. The heart of the new UI is the Layout Manager which manages the visibility and order of the application's tool tabs, facilitating specific functionally oriented workflows. The tool tabs present only the capabilities and panels required for the specific task at hand and guide the user through the necessary steps to create an end deliverable such as a 2D technical illustration, a set of manufacturing work instructions or a photorealistic 3D image. Deep Exploration 6 will come standard with a number of predefined functionally determined layouts as well as offer users the ability to quickly create their own department-specific workflow solutions. Additional customization includes the ability to dock application panels on top of one another to free up more display space for the 3D model view port.

High Dynamic Range (HDR) Imaging

Deep Exploration 6 includes an entirely new rendering engine which employs high dynamic range (HDR) imaging technology. HDR imaging techniques support a wider range of luminance in a 3D scene -- from direct sunlight to the subtlest of shadows. With this HDR rendering engine, Deep Exploration 6 users can drag and drop HDR materials, environment maps, and background images also known as "back plates" into a 3D scene to produce stunning, hyper-realistic imagery with ease and in minutes. This technology can significantly reduce the costs associated with product photography and customer communications.

Enabling Technologies for Visual Navigation

Deep Exploration 6 contains new tools and features to enable users to navigate, select and review large, complex 3D models. Deep Exploration 6 will allow users to view large CAD assemblies -- of up to 500 million polygons and 200,000 unique parts or bigger that have been converted by Right Hemisphere's next generation Deep Server™ software available later this year -- using just standard desktop PCs. The large model navigation feature allows users to load and interact with these large, complex models in real time. This capability changes the way content authors access large product datasets and complex hierarchies to bring together all the data they need to create illustrations, renderings, training content or other product related material. Users simply zoom or navigate to the view of a model they wish to work with and save out that geometry view for further work.

The navigation of any model is enhanced with the new Volume Select tool in Deep Exploration 6. Volume Select lets users choose an area of the model by defining variables of the "geometric envelope" -- the area inside a square, sphere or rectangle. This tool enables a user to search and explore the model without having to locate the assembly or part numbers in the bill of materials (BOM). It's also very useful when a product BOM varies from its as designed, as built, and as maintained status.

New Solutions Driven by XML

In Deep Exploration 6, the entire scene graph -- or data structure -- can now be described by XML. Combining the power of the XML-based Deep Server processing engine with the new XML data structure enables Right Hemisphere to achieve a more seamless level of integration with customers' existing enterprise systems. By integrating with customers' existing enterprise systems, Right Hemisphere and its manufacturing customers can rapidly create solutions and workflows that accelerate key business processes, product introductions, time to market, and more.

Right Hemisphere's Deep Exploration 6 software will ship in August and be available in a variety of different license types. For more information, please visit <http://www.righthemisphere.com>.

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Siemens PLM Software Announces New Releases for its D-Cubed 3D Component Software Solutions

3 June 2009

[Siemens PLM Software](#) announced the immediate availability of new releases of four of its D-Cubed™ component software products. Version 40.0 of the 3D Dimensional Constraint Manager (3D DCM), the Assembly Engineering Manager (AEM), the Collision Detection Manager (CDM) and the Hidden Line Manager (HLM) contain new enhancements to improve function and performance.

Detailed descriptions of the enhancements are available online at:

www.plm.automation.siemens.com/en_us/products/open/d-cubed/latest_releases/

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Siemens PLM Software, Planview Sign OEM Partnership Agreement

2 June 2009

[Planview®](#) announced it has signed an original equipment manufacturer (OEM) partnership with [Siemens PLM Software](#).

Under this agreement, Planview and Siemens PLM Software will integrate Planview Enterprise portfolio management software into Siemens PLM Software's Teamcenter software solution, bringing to market an offering with a significant breadth of functionality for the product development space. The global go-to-market strategy also encompasses services offered by both companies to help customers deliver world-class products in dynamic, highly competitive markets.

Product-focused organizations find themselves more challenged than ever to make the best possible use of scarce resources for the greatest market impact, and to prioritize their products appropriately to support their brand and company strategies. This integration between Planview Enterprise and Teamcenter, a natural extension of PLM to include portfolio management, will tie together top-down planning and bottom-up program execution to enable the operational excellence these organizations require to develop and hone their competitive advantage.

“We are delighted to have this strong partnership with Planview, a recognized leader in the portfolio management space,” said Steve Bashada vice president of Teamcenter Applications, Siemens PLM Software. “Our relationship with Planview will enable product organizations to further leverage Teamcenter to help optimize their product portfolios in an effort to achieve the greatest market impact and to meet their strategic business objectives.”

Together, these market-leading organizations will work to further their customers' abilities to:

- Optimize the product portfolio by using best-in-class strategic planning to map product initiatives against revenue targets and innovation strategies
- Link bottom-up program and project execution with strategic product portfolio decisions
- Plan capacity and manage resources to ensure execution that meets time to market requirements
- Evaluate the business impact of market trends, competitive pressures and other change drivers to make the best decisions on the product portfolio and projects in flight

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“We are excited by the opportunity this affords Planview and Siemens PLM Software customers,” said Gregory S. Gilmore, President and Chief Operating Officer, Planview. “This integration will help customers get new, unparalleled insight into every stage of the product lifecycle, make better decisions, and ensure that they are investing in the right products, which is more critical now than ever.”

The integration of Planview Enterprise with Teamcenter will be available later this year. For more information about Planview Enterprise for product development, please visit www.planview.com/pdpm.

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Streamlining Technical Illustration With Pictures by PC

4 June 2009

German CAD/CAM developer Schott Systeme GmbH is reducing the time required to generate professional technical illustrations, through the latest release of their CAD and technical documentation suite, Pictures by PC 3.4.

According to the developer, it is one of the industry's only solutions to combine high end 2D and 3D CAD with technical illustration, rendering, animation and desktop publishing, Pictures is proving an essential tool in the creation of documentation such as product manuals, catalogues and sales/marketing literature.

A key element in this process has to date been the ability of the software to automatically generate typical 'thick/thin' line illustrations directly from imported 3D CAD models. The latest release of Pictures however will now offer a far greater degree of control over the illustration detail levels, helping in the generation of both simplified and more detailed versions of an illustration.

Direct Model Simplification

The current trend of including the minutest of details on a CAD model is one that will frustrate many illustrators, as generally only a simplified diagram of the product is required. To help overcome this, Schott Systeme have firstly included a new suite of 'defeaturing' tools. Based on their direct 'non feature' based 3D modeller, designs from almost any CAD system can be imported and subsequently modified without the requirement of a construction history or the original CAD software. These tools in addition then help to automatically recognise common features for removal such as ribs, pockets, holes, embossed text/logos and complex fillets/radii, leaving the illustrator with a much simplified version of the product ready for further detailing.

Technical Outline Defeaturing

Providing a different approach to actually modifying the 3D product data, Schott Systeme have in addition supplied the user with the ability to defeature the illustration during the actual rendering process. This later approach both enables the simplification of poor quality CAD models that cannot easily be modified in 3D, as well as instantly reducing the detail level of complex parts/features such as screw threads and gear wheels. By altering the actual rendering process in this way, 'thick/thin' line illustrations of differing complexity are more easily generated.

Download the latest brochure from <http://www.schott-systeme.com/en/Downloads/A4Brochure-TechnicalDocumentation.pdf>

Sign up for the latest technical documentation video demonstrations at <http://www.schott-systeme.com/en/newintrovideo-en.htm>.

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Synopsys Announces First DDR3 IP Verified in Silicon at 1600 Megabits per Second

3 June 2009

Synopsys, Inc. announced that its DesignWare® DDR3/2 PHY and digital controller IP is the first DDR3 IP that has been fully verified in test silicon at 1600 Megabits per second (Mbps), the maximum data-rate of the JEDEC DDR3 specification. Utilizing test chips manufactured in 65-nanometer (nm) technology, Synopsys verified the operation of its DDR3/2 PHY and digital controller IP with DDR3 memory components and dual in-line memory modules (DIMMs). This latest achievement gives designers confidence that the DesignWare DDR3/2 IP operates reliably at 1600 Mbps in a complete memory sub-system environment, taking into consideration the chip package, printed circuit board and associated DRAMs.

The DesignWare DDR3/2 IP is targeted at a broad range of high-performance applications such as digital home, digital office, data center and storage requiring bandwidth in excess of 1066 Mbps per pin, and provides backwards compatibility for DDR2-667 through DDR2-1066 devices. To support the full range of DDR3 data rates, the DesignWare DDR3/2 IP includes built-in data training circuits to enable in-system calibration, offering more robust operation for the overall system. As part of the data training sequence, the DDR3/2 IP includes the ability to remove bit-to-bit timing skew, which can occur on the chip, in the package or on the circuit board, to significantly improve memory system timing budgets.

The DesignWare DDR3/2 PHY was verified with Synopsys' fourth generation DDR silicon characterization environment, designed to mimic typical real-world product environments. For example, the test chip packaging and circuit board design used a minimum number of interconnect layers, which is a common requirement in consumer-oriented end applications. Additionally, the characterization printed circuit board includes intentional timing skew on select data paths to verify the per-bit de-skew capability of the DDR3/2 PHY. The DesignWare DDR3/2 PHY characterization reports are available, providing a detailed analysis of all aspects of the DDR PHY to SDRAM interface including clock timing specifications, write and read data eyes and a comparison of circuit simulation versus silicon measurement. Electrostatic discharge (ESD) and latch up testing were also performed on the I/O pins of the test chips. These tests help ensure that the IP has been fully verified and silicon proven, allowing designers to reduce risk and speed time-to-market of their system-on-chip (SoC) designs.

For the high-speed characterization of the DDR3/2 IP, Synopsys utilized 16-bit-wide DDR3-1600 SDRAMs supplied by Elpida Memory, Inc. The 16-bit-wide SDRAM represents the most commonly used SDRAM solution for embedded applications offering the highest memory bandwidth per SDRAM component.

"We are pleased to help facilitate the successful verification of 1600 Mbps memory performance in Synopsys' DesignWare DDR3/2 characterization environment," said Susumu Hatano, executive manager for the System Technology Group at Elpida Memory, Inc. "DDR3 SDRAMs are just beginning to make headway into the embedded DRAM market, offering up to 50 percent higher bandwidth and over 15 to 30 percent lower power versus DDR2. Synopsys' silicon-proven DesignWare DDR3/2 IP will enable designers to take advantage of these benefits in their high-performance SoC designs."

"With DDR interfaces undergoing a doubling of speed approximately every three years, SoC designers are looking for proven IP solutions from a trusted supplier to help them meet their aggressive time-to-market goals," said John Koeter, vice president of marketing for the Solutions Group at Synopsys. "By

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offering a broad portfolio of high-quality, silicon-proven DDR IP supporting the full spectrum of speeds up to 1600 Mbps, Synopsys helps lower the risk of incorporating the latest memory interface into their designs."

The DesignWare DDR3/2 IP is a part of Synopsys' complete DesignWare DDR IP offering that consists of digital controllers, PHY, and verification IP supporting DDR2, DDR3 and mobile DDR. The comprehensive portfolio of DDR IP supports leading 130nm, 90nm, 65nm, 55nm, and 45/40nm technologies. Synopsys helps lower integration risk by providing DDR IP solutions that have been implemented in hundreds of applications and are shipping in high-volume production.

Availability

DesignWare DDR3/2 PHY and the digital controller IP are available now in advanced process technologies for leading foundries. Test chip characterization reports for the DDR3/2 PHY are also available. For more product information and to take a virtual tour of the Synopsys DDR lab to see how Synopsys verifies the IP, visit: <http://www.synopsys.com/IP/InterfaceIP/DDRn>

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