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Acquisitions

**Oracle Buys Intellectual Property Assets of Conformia**

17 June 2009

Today Oracle announced that it has acquired the intellectual property assets of Conformia Software. Conformia’s Product and Process Lifecycle Management (PPLM) software has unique capabilities for Life Sciences companies to manage drug design, development and transfer to production across Bio, Pharmaceutical and Chemical drug components.

Oracle plans to integrate Conformia’s product and technology into Oracle Agile PLM solution to offer an end-to-end solution for managing drug development, packaging and commercialization.

Oracle plans to provide integrations to Oracle applications, Oracle Health Sciences applications and 3rd party systems.

This combination will enable Pharmaceutical and Bio-technology companies to accelerate innovation, meet regulatory objectives and improve productivity.

Financial details of the transaction were not disclosed.

**Supporting Quotes**

"The addition of Conformia Software technology underscores Oracle’s commitment to provide customers with a differentiated, out-of-box industry-based solution," said Oracle Vice President of PLM Strategy Hardeep Gulati. "Oracle’s PLM offering will give our Life Sciences industry customers a complete solution to manage drug design, development to commercialization."

**Supporting Resources**

Oracle’s Agile Product Lifecycle Management

Oracle for Healthcare

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software and services, Planit Holdings was the leader on the basis of both industrial seats shipped and installed, while CNC Software’s Mastercam was the leader in both industrial seats shipped and installed by brand name. Cimatron was named as the most rapidly-growing vendor.

Mr. Alan Christman, CIMdata Chairman and primary author of the report noted that, “Even though there have been a number of recent mergers and acquisitions, the CAM software market continues to be highly-fragmented and competitive. There is no single vendor or small group of vendors that dominate the worldwide market.” CIMdata tracks approximately 50 CAM software vendors and the rankings in the report list 20-30 vendors, depending upon the category. Many NC software vendors did well even in a difficult economic environment. CIMdata has previously reported that the global NC software market is estimated to have grown by 5.2% in 2008, but the growth rate is expected to slow considerably in 2009.

The 2008 leading vendors on the basis of CAM software and services revenue received were Dassault Systèmes, Siemens PLM Software, Delcam, PTC, Planit Holdings, Cimatron, NDES (formerly Hitachi Zosen Systems), Tebis, Missler Software, and OPEN MIND Technologies. Dassault Systèmes and Siemens PLM Software were the clear market leaders with double-digit market shares and a combined market share of 28.2%. Delcam was listed as the largest specialist supplier, and for the first time moved ahead of PTC in the rankings into the number three position. The remaining eight vendors in the top 10 had a combined market share of 38.8% and the remainder of the vendors below the top 10 had a combined market share of 33.0%. This data is shown in the following chart.
Planit Holdings, CNC Software, Dassault Systèmes, Delcam, and Siemens PLM Software. The seat count rankings are significantly different than the vendor revenue rankings. For example, Planit Holdings and CNC Software were listed as the leading vendors on the basis of industrial seats shipped, but were only ranked numbers 5 and 11 respectively on the basis of vendor revenue received. The 2008 rankings on the basis of industrial seats shipped by brand were CNC Software’s Mastercam, Dassault Systèmes’ CATIA, PTC’s Pro/E, Siemens’ PLM Software NX, and Planit Holdings’ EDGECAM. The changes in rankings are primarily due to the differences in level and breadth of product and associated software pricing among the vendors.

The worldwide five most rapidly-growing CAM software vendors on the basis of revenue received in 2008 as compared to 2007, were Cimatron, OPEN MIND Technologies, CNC Software, Delcam, and MachineWorks. Each achieved double-digit revenue growth in 2008. The Cimatron growth was in excess of 45%, but a significant portion of the growth can be attributed to the acquisition of Gibbs and Associates, which became effective in 2008. Over the previous five years, SolidCAM had been the consistent growth leader with annual growth rates in the 30% range; however in 2008, their growth rate declined to a more moderate 7.7%. CIMdata is projecting that the five most rapidly-growing companies in 2009 will be SPRING Technologies, Geometric Technologies, SolidCAM, OPEN MIND Technologies, and Delcam. It can be noted that OPEN MIND Technologies and Delcam are the only two companies expected to be among the top five most rapidly-growing companies in both years.

Other vendor rankings contained in Version 18 of the NC Market Assessment Report include those for the educational market, those based on revenue by geography and industry, those for verification and post-processing vendors, the total number of people in a company, product development, direct sales, and the number of resellers per company. Version 18 of the NC Software and Services Market Assessment Report is available for purchase by contacting CIMdata at +1 (734) 668-9922 or by emailing info@cimdata.com.

About CIMdata

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

CIMdata works with both industrial organizations and suppliers of technologies and services seeking competitive advantage in the global economy. CIMdata helps industrial organizations establish effective PLM strategies, assists in the identification of requirements and selection of PLM technologies, helps organizations optimize their operational structure and processes to implement solutions, and assists in the deployment of these solutions. For PLM solution suppliers, CIMdata helps define business and market strategies, delivers worldwide market information and analyses, provides education and support for internal sales and marketing teams, as well as overall support at all stages of business and product programs to make them optimally effective in their markets.
In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia Pacific.

To learn more about CIMdata’s services, visit our website at www.CIMdata.com or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA. Tel: +1 (734) 668-9922. Fax: +1 (734) 668-1957; or at Siriusdreef 17-27, 2132 WT Hoofddorp, The Netherlands. Tel: +31 (0)23 568-9385. Fax: +31 (0)23 568-9111.

CIMdata in the News: “Digital manufacturing: The green path to growth”
June 2009

CIMdata’s Digital Manufacturing report is cited in the article written by Patrick Michel, vice president, DELMIA industry solutions and marketing, Dassault Systèmes:

According to a CIMdata report entitled “The Benefits of Digital Manufacturing,” organizations using digital manufacturing technologies can realize tremendous production improvements and reductions in resource waste, including a 30 percent reduction in time-to-market; a 40 percent reduction in process planning; a 15 percent increase in production throughput; a 13 percent decrease in overall production cost; and a 40 percent reduction in equipment costs.

Click here to read the full article which appeared in the June issue of Reliable Plant & Lean Manufacturing Journal.

CIMdata in the News: “PLM Extends its Reach into Product Development”
17 June 2009

In this article in IndustryWeek magazine, the author Jill Jusko asks What's on the horizon for product lifecycle management (PLM) solutions? She answers this question by quoting several sources including CIMdata:

Consulting firm CIMdata forecasts that PLM investments will continue to grow over the next five years, even as the economy likely will slow that growth in 2009 and 2010.

Indeed, according to CIM-data, today's economy has manufacturers focused on short-term priorities, but "long-term drivers for PLM continue to be focused on initiatives that are critical for business success, including harmonizing global processes, managing the increased complexity of products and value chains, and improving competitiveness and pricing structures by improving product quality and lowering costs."

The deployment of PLM also has begun to extend "beyond engineering design to a broader range of business functions," CIMdata points out in an April white paper, "PLM Growth in 2008," which also looks ahead to 2009.

What to learn more? Click here to read the full article.
CIMdata in the News: “Reorganizing for Machining Solutions”
17 June 2009

John Teresko in this IndustryWeek article observes that “Increasingly, the evolution of manufacturing technologies such as machining is enabling automation vendors to reach for strategies that embrace the total solution.”

Mr. Teresko cites MAG's Dan Cooper, Cyclo-Cut product manager who states: "The more value you deliver to your customers, the better your chances in being able to solve their problems."

PLM expert Alan Christman observes:

"That approach helps build and maintain a competitive edge," notes PLM consultant Alan Christman, chairman, CIMdata Inc. He says leading machine tool builders increasingly seek the goal of becoming a single-source solution provider. "Builders are now becoming more oriented as solution providers than was necessary in the past. Customers look for more than just a good piece of equipment. They also look for the technologies and expertise that will help them compete in this global economy. Builders must fully understand their customer's industry, application, volume and goals for growth and expansion."

Want to learn more? Click here to access the full article.

Invitation to Ed Miller’s Presentation June 25, Mechatronics Role in PLM Strategies
June 2009

When: June 25, 2009
Time: 9:00am
Event: EMM 2009, Mechatronics for vehicles and production
Topic: Mechatronics role in PLM strategies
Speaker: Ed Miller, President, CIMdata
Registration for EMM: http://www.rosam.org/emm-fr56.html

“PLM investments pay, even in a down economy; Product lifecycle management solutions can deliver huge ROI” by Ed Miller
17 June 2009

Companies continue to invest in Product Lifecycle Management (PLM) as one of the best ways of surviving the current economic slump and strengthening their competitive position when global markets rebound.

Given the harsh business climate, many organizations are emphasizing smaller, targeted PLM investments that provide the fastest bottom-line benefits for controlling costs and improving operational efficiencies.

Even as these short-term priorities dominate the current market, leading companies continue to focus on
initiatives that support their long-term strategies for business success - initiatives such as harmonization of global processes, quality improvement, and others that help them manage the increased complexity of products and value chains and improve their competitiveness. Whatever their approach, companies need to develop a business justification for PLM that includes a thorough evaluation of total cost of ownership throughout the life of the system versus enterprise-wide benefits.

Too often companies focus on up-front acquisition expenditures and fairly narrow departmental savings. Such a limited return on investment (ROI) appraisal can discourage companies that don't realize the far-reaching business benefits of PLM, or disappoint them later with unanticipated expenses. In determining total cost of ownership, companies generally have little problem figuring acquisition expenditures for software licensing, training and hardware infrastructure.

But these up-front costs can be small compared to on-going expenses for items such as support, maintenance, upgrades, system expansion, system administration, and customized software.

Some of the highest hidden costs are associated with organizational process changes to support business transformation. Properly implementing PLM requires workflow and associated procedures and standards to be closely examined within the company as well as in the supply chain and partner organizations. Such assessments should be performed for the entire product lifecycle and can be far-reaching, with organizational and process change investments typically representing some of the most demanding drains on PLM budgets.

These costs amount to a significant level of commitment, and final figures can appear daunting. If PLM is properly implemented, however, huge business benefits can far outweigh these expenses.

Accessing data in seconds instead of hours or even days increases personal productivity significantly, for example. And the ability to streamline workflow and improve overall operational efficiency has the potential to save time and money on the group and department level. The greatest savings arise from organizational improvements, with systems enabling collaboration across the extended enterprise and leveraging information throughout the product lifecycle. CIMdata research of companies that have implemented PLM solutions indicates that typical ROIs range from 100 percent to 300 percent. Of course, some companies have not achieved these returns, while others have far exceeded them.

The benefits for overall business performance from properly implementing PLM solutions are enormous, allowing companies to increase market presence and profitability through improved customer relationship management, increased ability to respond faster to market changes, delivery of more innovative products, better management of resources and more.

The positive impact of such sweeping change can be staggering, which is why organizations worldwide continue to implement PLM during even the difficult economic times that we are currently facing.

Ed Miller is president of CIMdata, an independent worldwide firm providing strategic consulting to maximize an enterprise's ability to design and deliver innovative products and services through the application of PLM strategies.

This article appeared in Manufacturing Business Technology, June 17 2009.
Company News

Atos Origin and PTC Partner to Deliver World-Class Product Lifecycle Management Solutions
17 June 2009

Atos Origin, an international IT services company, and PTC® announced they will partner to provide best-in-class Product Lifecycle Management (PLM) solutions for discrete manufacturing companies in the Aerospace & Defense, Industrial, Electronics & High Tech, Automotive, Medical and Consumer industries in Europe.

The partners will focus on a consulting-led approach and exploit in-depth market knowledge to offer customers innovative, sustainable and results-oriented solutions that will reduce time to market considerably.

“We have been implementing best-in-class PLM solutions based on PTC’s technologies for over 10 years for a range of international customers including Ballast Nedam, Hansen Transmissions International, Hiab, John Zink, National Oilwell Varco, Thales Nederland BV, Verreries du Courval,” said Thierry Breton, Chief Executive Officer of Atos Origin.

“We are very impressed with PTC’s technology and believe it to be the premier PLM platform due to its IT architecture and scalability, as well as flexibility in managing heterogeneous data,” Thierry Breton continued. “Working together, Atos Origin and PTC will offer customers innovative, sustainable and results-oriented solutions with a reduced time to market. This strategic agreement will position us as a leader in the Product Lifecycle Management market which shows considerable growth over the next few years”.

Atos Origin will deliver ‘design-build-run’ solutions based on integrating PTC solutions to its clients. The scope of activities includes product lifecycle management, product design, and technical documentation management. By the end of this year, Atos Origin plans to have a consistent critical mass of certified consultants on PTC technologies to start serving existing and new clients throughout Europe.

“We are delighted to expand and formalize our relationship with Atos Origin,” said Marc Diouane, Vice President Europe at PTC. “This alliance brings together the deep vertical expertise of Atos Origin in managing global IT projects with PTC’s superior Windchill technology. The winning combination of Atos Origin and PTC promises to help customers implement and realize the full value of a Product LifeCycle Management solution.”

Both parties are present at the Paris Air Show that takes place in Le Bourget from 15 to 19 June 2009 where they host daily dedicated seminars on PTC in Chalet A310. Themes like PLM, Sustainability & Environmental Compliance will be discussed in-depth, PTC and Atos Origin will co-present a seminar on 19 June titled “Optimize Change Management through Business Intelligence”.

About Atos Origin

Atos Origin is an international information technology services company. Its business is turning client vision into results through the application of Consulting, Systems Integration and Managed Operations. The Company’s annual revenue is EUR 5.5 billion and it employs 50,000 professionals in 40 countries.

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Cimatron Named the Most Rapidly Growing CAD/CAM Vendor in 2008
15 June 2009

Cimatron Limited announced that it was identified as the fastest growing CAD/CAM provider in 2008 according to report by prominent market research firm CIMdata.

According to CIMdata's NC Software and Related Services Market Assessment, Cimatron's growth in 2008 was 45.6%, making Cimatron the sixth largest CAD/CAM provider globally.

Cimatron's revenue increased by over 12 Million USD compared with 2007 revenue. CIMdata credited the growth to the merger with Gibbs and Associates, among other factors.


Mr. Alan Christman, Chairman of CIMdata, wrote: "CIMdata believes that the merging of Gibbs with Cimatron is a positive move. The companies are very complementary to one another in product, markets pursued, and distribution channels. It brings together the CimatronE integrated CAD/CAM suite focused on toolmaking with GibbsCAM—which is focused on production machining to provide a more complete product portfolio for the manufacturing industry. Cimatron was a company with about twice Gibbs' current sales volume and very little product or distribution overlap. CIMdata believes that as a combined entity, they are better positioned to increase their presence in the CAD/CAM market with increased resources for product development, sales, and marketing. The combined product offering strengthens Cimatron's market position, with the ability to deliver products targeting all segments of the CAM market, from mold and die making, through 2.5-axis and 5-axis production, to mill-turn and multi-tasking machining (MTM). Moreover, the combined distribution networks of CimatronE and GibbsCAM complement each other and provide excellent coverage of all target markets worldwide, including a strong presence in North America, Europe, and Asia Pacific."

"We are pleased to be recognized by CIMdata for the rapid growth in 2008 and for the overall stronger market position of Cimatron", said Danny Haran, President and CEO of Cimatron Group. "We took advantage of every opportunity the Gibbs merger afforded us. We now cater to a much broader customer base and our stronger global presence has allowed us to provide better services to our customers worldwide, with CimatronE and GibbsCAM alike."

As well as pointing out Cimatron's growth of the last year, CIMdata analysts confirmed that Cimatron was one of 5 vendors ranked among the top 10 in every geographical region.

CIMdata also praised CimatronE's electrode solution, one of the strongest available on the market, and identified Cimatron as one of the companies most dedicated to customer services and technical support.

Delcam Issues Guide to Parallel Processing for CAM
18 June 2009

Delcam has issued a free guide to the use of computers with parallel processing technology in CNC programming. The white paper is based on Delcam’s research into the use of the latest computer technology in the CAM environment. It aims to help users separate the facts from the marketing hype and give a clear understanding of the potential benefits. Copies can be downloaded from http://www.powermill.com.
The paper begins with an explanation of the two potential benefits of multi-core computers. Firstly, background processing allows the user to prepare, simulate or edit one toolpath in the foreground, while simultaneously calculating other toolpaths in the background. This technology can work on any hardware but the benefits are much greater on multi-core equipment.

Secondly, parallel processing can perform different parts of a single complex calculation at the same time. Essentially, this divides the processing of this operation over all of the cores in the CPU chip to reduce the overall calculation time.

The ultimate benefit comes from applying both these technologies at the same time, with parallel processing being used for both the foreground and background operations.

Having explained the technology, the paper then describes how it is applied in the latest release of Delcam’s PowerMILL CAM system and gives examples of the improvements obtained. Tests on a range of toolpaths show that using the latest PowerMILL release on a quad-core machine results in a saving of up to 60% in toolpath calculation times.

IBM and Siemens Announce Integrated Solutions to Help Companies Deliver Smarter Products

18 June 2009

IBM and Siemens PLM Software today jointly announced offerings that help companies improve the management of products throughout their lifecycle -- from design and manufacturing to end-of-life planning and recycling -- and simplify the process of sharing key product data and manufacturing plans.

As products become more sophisticated and the number of suppliers and manufacturers increases around the globe, companies need a more intelligent and well-connected framework to support the accurate exchange of millions of data transactions. These transactions are important in the design and manufacturing of mechanical, software and electrical components critical in products from planes and ships to global positioning systems and cell phones.

Using IBM's Product Development Integration Framework (PDIF) as a development platform and primary integration environment, Siemens is delivering ready-to-use solutions built on its Teamcenter® PLM software portfolio and IBM WebSphere and Information Management (DB2). PDIF also enables a richer integration between Siemens Teamcenter and Rational Software Platform for Systems.

Additionally, IBM and Siemens will jointly provide a comprehensive range of services including consulting and implementation, systems integration, and application hosting.

“Siemens PLM Software’s Teamcenter is the industry’s first PDIF-ready platform to deliver tightly integrated IBM middleware offerings that reduce PLM software acquisition and lifecycle costs,” said Michael Wheeler, vice president, IBM PLM and Supply Chain Solutions. “By using a flexible software environment, companies have a framework for marrying key PLM business processes to technology initiatives that offer a structured approach to managing the life of a product,” added Wheeler.

By exploiting the open computing flexibility of IBM's service-oriented architecture (SOA) and IBM's PDIF, companies can address the challenge of making sure millions of pieces of data and design plans are exchanged accurately throughout the product lifecycle communities. The combination of PLM with SOA helps companies build, extend and transform their existing infrastructures incrementally over time by allowing multiple systems to re-use business services and incorporate new technologies such as web-
based collaboration across the product supply chain.

“One of the significant benefits of today’s announcement is the fact that customers will no longer need to choose between IBM and Siemens when selecting the best PLM solution for their organizations,” said Chuck Grindstaff, executive vice president of Products and CTO, Siemens PLM Software. “Companies now have access to the performance and reliability of IBM middleware combined with the scalability and instant access to product knowledge provided by Teamcenter. This combination presents a unique advantage for companies as they address the growing demand from their customers for more sustainable products.”

IBM and Siemens PLM Software are also working closely with IBM’s Business Partner network to deliver PLM to the small and medium size business community. In addition, the companies will deepen their joint client offerings by optimizing Siemens PLM Software applications that can run IBM server and storage devices.


**About IBM Smarter Products**

A new generation of intelligent, instrumented and interconnected products are transforming the way the world works. IBM Rational Software provides a fully-integrated software delivery platform that addresses requirements, design, development and management across electrical, mechanical and software technologies and helps organizations derive the greatest value from the products they deliver.


**About Siemens PLM Software**

Siemens PLM Software, a business unit of the Siemens Industry Automation Division, is a leading global provider of product lifecycle management (PLM) software and services with nearly six million licensed seats and 56,000 customers worldwide. Headquartered in Plano, Texas, Siemens PLM Software works collaboratively with companies to deliver open solutions that help them turn more ideas into successful products. For more information on Siemens PLM Software products and services, visit [www.siemens.com/plm](http://www.siemens.com/plm)

**MAGNET Wins Managing Automation 2009 Progressive Manufacturing And Innovation Mastery Awards**

17 June 2009

The Manufacturing Advocacy & Growth Network (MAGNET) announced that it received Managing Automation 2009 Progressive Manufacturing 100 Award and the High Achiever award in Innovation Mastery. The Progressive Manufacturing (PM) award recognizes 100 projects that have achieved distinction in at least one of the eight core disciplines defined as critical to business success in the years ahead. In addition, the Progressive Manufacturing High Achiever award is given to eight manufacturers that demonstrate the highest-level mastery of individual PM mastery categories and Magnet was the Innovation Mastery category winner.

MAGNET won the awards for developing the anti-leak toilet flapper, Siphon Flush, for American Innovative Products. Designed with Invention Machine’s innovation software, Siphon Flush eliminates
water leakage in toilets, is impervious to harsh chemicals found in most water and cleaning solutions, and has a lifespan 20 times that of existing flappers. The toilet flapper is available today and can be purchased from American Innovative Products for $27.95.

MAGNET helps manufacturing and technology-based companies and entrepreneurs excel and grow through understanding, adopting, and implementing innovative methods and technologies. Its business incubator for manufacturing and technology-based companies is the only one of its kind in the region.

“The Progressive Manufacturing awards raises the bar for MAGNET and we look forward to working with more local entrepreneurs’ and making their dreams a reality,” said Dave Pierson, sr. design engineer, MAGNET. “We also share this honor with entrepreneur Wally Berry for coming up with the idea of combating water leaks and Invention Machine for its innovation software that empowers us to design such breakthrough products.”

Wally Berry, CEO of American Innovative Products received a $600 water bill for his unoccupied vacation home. He quickly realized that the bill was due to faulty toilet flappers. Research indicates that more than 85 percent of water leakage in residential plumbing systems is found in the toilet and a majority of toilet leaks are caused by faulty or worn flappers. A silent leak in a toilet can waste 500 gallons of water a day, according to the Environmental Protection Agency.

Armed with this information, Berry approached MAGNET to see if the engineers could help solve the problem. The engineers used Invention Machine Goldfire to identify the root cause of water leakage, analyze technology trends and materials, play out the consequences of design features to ensure the validity of the concept and anticipate future failure points. Goldfire helped create Siphon Flush’s design that not only eliminates water-leakage, but uses 50 percent fewer parts than the standard flush mechanism technology. Goldfire also accelerated time to market by 30 percent.

“Magnet and Invention Machine turned my idea into a revolutionary new product and cut development cost by more than 56 percent,” said Wally Berry, CEO, American Innovative Products. “Within six months, we received more than 17,000 orders from different municipalities and companies around the world.”

About MAGNET

MAGNET is the region’s “one-stop shop” for manufacturers and manufacturing related companies seeking resources to become or remain globally competitive. MAGNET has assisted thousands of manufacturers through its Edison Technology Center programs, Manufacturing Extension Partnership (MEP) services and its business incubation programs. For more information, please visit http://www.magnetwork.org

About American Innovative Products

Independently and in conjunction with other organizations, such as universities and manufacturing firms, American Innovative Products, Inc. develops and brings to market cutting edge products. Siphon Flush, Inc., a subsidiary of American Innovative Products, manufactures and distributes the non-leak toilet flapper, Siphon Flush. For more information please visit www.SiphonFlush.com.

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Mentor Graphics Signs EDA Direct as New Distributor

18 June 2009

Mentor Graphics announced it has signed EDA Direct, Inc. as a distributor in the San Francisco Bay
area for its complete product line, but particularly PCB and ASIC/FPGA products for systems design — Expedition® Enterprise and PADS® PCB design flows; the ModelSim® tool for ASIC and FPGA simulations; the Questa® tool for functional verification, and the HyperLynx® family for high-speed PCB interconnect simulations. This portfolio is tuned to the predominant needs of the Bay area where electronics companies are designing the world’s leading-edge systems.

"We are pleased to have EDA Direct as our partner on the US West Coast,” says Rick Bosshardt, vice president of Mentor’s Geography and Distribution Channel. “EDA Direct has a proven success record as an asset to the industry and is known for their excellent support and serving their customers needs with the best available products. We look forward to working with them to expand our reach in the Bay area."

"Many of our customers design very complex products, requiring efficient design and analysis solutions, and they need to upgrade from outdated tools to new functionality and features that are needed to design today’s complex systems,” stated Sanjay Patel, CEO and president of EDA Direct. “Mentor Graphics provides affordable, innovative technology to users of individual desktop tool solutions as well as to enterprises with more complex design processes and organizations. The PADS and Expedition Enterprise flows give our customers the scalability, power and ease-of-use they need. Providing the ModelSim and Questa products for advanced ASIC and FPGA verifications gives engineers a full solution to complex systems design."

EDA Direct, a former distributor of Altium desktop PCB software products, will now represent Mentor’s PADS product line to those target customers. In addition, they will offer scalability to Mentor’s enterprise PCB design solutions.

Over the past year, Mentor Graphics has made significant enhancements and added industry-unique and innovative technologies to their PCB design flows:

- The PADS 9.0 release adds new levels of functionality, scalability and integration, enabling designers to leverage many of Mentor’s unique and innovative technologies for design, analysis and manufacturing preparation.
- The HyperLynx 8.0 product expands the industry-leading signal integrity solution with easy-to-use and accurate power integrity analysis as well as new functionality to analyze advanced interconnect methods like DDR2/3.
- To serve mid-sized to large companies, the Expedition Enterprise flow focuses on designer productivity, the use of advanced PCB fabrication and IC technologies, and multi-discipline collaboration of globally-dispersed design teams to improve the complete product development process.

For the functional verification of complex SoCs and ASICs, the Questa verification platform delivers the full value of advanced verification and debug technologies within a comprehensive verification solution based on a metrics-driven verification management system. The Questa product spans the levels of abstraction required for complex SoC and FPGA design and verification.

In addition, Mentor was the first to combine single kernel simulator technology with a unified debug environment for Verilog, VHDL, and SystemC. The combination of native single kernel simulator performance with the best integrated debug and analysis environment makes ModelSim the simulator of choice for both ASIC and FPGA design. The best standards and platform support in the industry make it easy to adopt in the majority of process and tool flows.

About EDA Direct
EDA Direct, established in 1997, specializes in the sales and support of EDA software products. They are a leading reseller of EDA products from several companies: Cliosoft, Concept Engineering, Mentor Graphics and MunEDA, acting as an extension of the vendors’ sales team, marketing to a broad customer base that vendors cannot serve economically. Corporate headquarters are located in Silicon Valley at 1617 South Main Street, Milpitas, CA 95035. [http://www.edadirect.com](http://www.edadirect.com)

ModuleWorks Leads New 5-Axis Mold and Die Research Project

June 2009

ModuleWorks has begun a major new research project aiming to create new automated methods for 5-Axis Machining in Mold and Die manufacture.

The research project is supported by the BMBF (Federal Ministry of Education and Research) under grant 01IS07016 and led by ModuleWorks in collaboration with the Institute for Production Technologies (IPT) at the Fraunhofer Research Centre in Aachen. The goal is to develop new techniques to simplify the programming of 5-Axis toolpaths on complex mold and die components. A team of researchers are working with ModuleWorks software and expertise to extend automation techniques used for 3-Axis machining into the realm of 5-Axis machining.

SISGRAPH Opens Office in Rio de Janeiro to Meet Demands of Growing Intergraph® Customer Base

15 June 2009

SISGRAPH, the distributor for Intergraph® enterprise engineering and geospatially powered software in Latin America, has opened an office in Rio de Janeiro, Brazil to meet the service and support demands of Intergraph’s growing customer base.

SISGRAPH’s new office in Rio de Janeiro will enable the company to serve Intergraph’s growing regional customer base including renowned Brazilian enterprise engineering software customers and Petrobras, the Brazilian international energy company, as well as the Public Safety Secretariat of Rio de Janeiro State.

In addition to serving Intergraph customers, the two companies also have partnered on major projects such as the 2007 Pan American Games in Rio de Janeiro when they provided emergency incident response, planning and reporting solutions and support for 15 command and control centers.

“In keeping with serving and expanding Intergraph’s global customer base, SISGRAPH’s newly-opened office in Rio de Janeiro will enable Intergraph to further grow and support the needs of our rapidly growing customer base in Brazil and South America,” said Intergraph President and CEO Halsey Wise. “We are delighted to work with SISGRAPH in continuing to bring Intergraph solutions to our customers in this fast-growing and important market.”

“The opening of SISGRAPH’s office in Rio de Janeiro marks the expansion of our firm and our commitment to Intergraph,” said SISGRAPH Marketing Director Fernando Schmiegelow. “We welcome this new location to expand SISGRAPH’s resources and support for Intergraph’s global customers.”
In addition to providing Intergraph solutions and training, SISGRAPH also offers services such as consulting, software development and support from qualified, highly-trained engineering experts. The office will also offer a variety of training courses to promote user education.

**About SISGRAPH**

SISGRAPH has been providing Intergraph solutions to Brazil since 1980. SISGRAPH, which is headquartered in São Paulo, provides exclusive sales, consulting, implementation and training services - in its Training Center or in its customers' facilities as well - for all Intergraph Process, Power & Marine products in Brazil and for all Intergraph Security, Government & Infrastructure products in Latin America and the Caribbean. SISGRAPH's technical team of more than 100 engineers and specialists has deep knowledge of Intergraph products, its applications and the markets to which they are destined. For more information about SISGRAPH, visit [http://www.sisgraph.com.br](http://www.sisgraph.com.br).

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**Tacton Employs a Highly Experienced Sales Executive as a Chief Business Officer**

15 June 2009

Tacton Systems announce the appointment of Dr Tom Francke as a Chief Business Officer. He is based in Stockholm and will be in charge of the Sales Department.

In 1997, Dr Francke founded XCounter AB, a technology leader in 3D medical imaging, where he acted as CEO and director of the Board until 2008. XCounter is since 2006 listed on AIM of the London Stock Exchange.

Dr Francke has worked closely with the medical imaging industry and early start-up companies, including acting as vice Chairman of the Board of Directors of Supersonic Imagine, a French technology leader in ultrasound imaging, and director of the Board in LightLab AB, a Swedish company developing mercury free low-energy lamps.

He has also developed radiation instruments for astroparticle physics research on behalf of a number of universities, research laboratories and space agencies around the world, including CERN, NASA, CNRS etc.

Dr Francke has received a number of awards, including the 2007 Frost&Sullivan Award for Entrepreneurial Company, 2007 Bronze Medal at “Salon International des Inventions” in Geneva, 1999 Honorary Award of Innovation Cup, and the Sparre Prize in 1990 from the Swedish Royal Academy of Sciences.

“Tacton has an innovative and unique product solution. I strongly believe that the Configurator technology and design automation platform carry significant value and market potential. I am looking forward to working with the Tacton team in the further development of Tacton’s business,” says Tom Francke.

For information please contact:

**Tacton Systems AB**

Christer Wallberg, CEO

Telephone: +46 (0)8 690 07 50. Cell: +46 (0)730 32 49 70
Zuken Appoints Novatrace New Benelux CADSTAR Distributor

12 June 2009

Zuken announced that as of July 15, 2009 the company Novatrace will be taking over CADSTAR distribution in the important Benelux territory.

Henceforth Novatrace will be responsible for all CADSTAR sales and first line support. Existing customers of the previous distributor, LAYERS, will automatically be transferred to Novatrace, as the sole contact for all CADSTAR sales and support in the Benelux region.

CADSTAR has recently introduced several new modules, like the new 3D tool BoardModeler Lite, and DRAGON auto-router.

CADSTAR European Sales Manager Jeroen Leinders stated, "With we have found a group of experienced and enthusiastic professionals who know the market and understand our customer needs. We are very much looking forward to working with them in the coming years."

"Novatrace is delighted to be chosen as the new CADSTAR distributor for the Benelux region and we are excited to be representing this important software on behalf of Zuken." said Mr Muhittin Karakus, Sales Manager, Novatrace.

To find out more about CADSTAR go to http://www.zuken.com/cadstar or for more details on Novatrace please visit http://www.novatrace.nl.

About Novatrace

Novatrace delivers a complete PCB Design and EDA solution product and services-package. By combining the expertise of Novatrace with the expertise of the high tech-partners, they are able to flexible deliver high quality projects. Novatrace has expanded its activities to include training and prototype assembly. Novatrace has considerable experience in representing EDA design software products.

Novatrace company details:

Novatrace bv
Burg. de Kockstraat 11
7861 AA Oosterhesselen
T: +31 (0)524 222 453
E: info@novatrace.nl
W: http://www.novatrace.nl

The Novatrace CADSTAR software contacts are:
Events News

Cimatron to Feature New Version at MoldMaking Expo 2009
16 June 2009

Cimatron Limited announced that its latest release of CimatronE, Version 9, will be demonstrated at the 2009 NPE/MoldMaking Expo. The exhibition will take place June 22-26, 2009 at the McCormick Place Convention Center in Chicago, IL.

Helping tool makers and manufacturers deliver higher quality tools and products at lower costs and shorter cycle times, the CimatronE CAD/CAM solution suite addresses the entire process from quoting through design, engineering changes, NC, and EDM programming to delivery.

Highlights of the new and enhanced capabilities in CimatronE 9.0 include:

- Greater mold design automation
- A new application for defining electrode measuring points and probe path
- New machining strategies for High Speed Machining (HSM) and 5-Axis milling
- New capabilities for handling Product Manufacturing Information (PMI) throughout the design and manufacturing process
- A new application for transfer die design
- A new die quote generator

The CimatronE solutions will be presented at booth #W10300, June 22-26, 2009 at the McCormick Place in Chicago, IL. For information and registration, visit http://www.moldmakingexpo.com.

Cimatron to Unveil Latest Die Design Solution at Stanztec
15 June 2009

Cimatron Limited announced that it will exhibit its latest Die Design solution at the Stanztec Die Making Tradeshow, Germany (Hall MSEG, Booth B02).

The Stanztec tradeshow, for the die making industry, will take place for the first time in Pforzheim, Germany starting June 16th. Participants at the exhibition will include die shops, machine tool builders, material providers and software solutions. Roeders, a leading machine tool builder, will also participate.
in the trade show as part of the Cimatron GmbH booth.

**Latest Die Making Solutions**

At the trade show, visitors will be able to see demonstrations of the latest Die Design solution which includes enhancements for progressive and transfer die making, as well as tool design, and the brand new CimatronE DieQuote Solution.

New enhancements to the Die Design solution increase automation, improve analysis capabilities, and handle changes across the entire die design process including forming, strip and tool design.

Enhancements include:

- Ability to pre-define parameters related to tool design and material used in order to further automate the tool design process.

- Improvements to dedicated applicative tools: The time-saving unbending capabilities have been enhanced to work in more situations including "unfold" and "L-Unbend", for unbending sharp corners.

- New piercing design functionality allows users to easily plan the piercing sequence of array of holes and create the suitable faces.

- Easy implementation of geometry changes in each of the forming shapes and stations across the project.

- A new die forces analysis tool which calculates the forces applied on the strip during production, allowing for a quick estimate of the required press capacity.

Cimatron GmbH will also be showcasing CimatronE's new DieQuote Solution, designed to allow die shop estimators to generate more accurate quotations in record time.

**Roeders**

Roeders will present a new machining series that facilitates Jig Grinding and High Speed Cutting in one machine.

Stanztec is one of many events in which Roeders and Cimatron have worked together to present their complementary products. Past events in which Cimatron and Roeders have cooperated include a Roeders open house that took place last month in Italy, as well as several events in Germany during the last years. Cimatron and Roeders work together to achieve the most accurate, reliable results for
customers who use their products together.

"We are privileged to participate in the first Stanztec trade show for die making," said Dirk Dombert, General Manager of Cimatron GmbH. "The dedicated solutions we have provided especially for die makers can speed up the process considerably and we are working with Machine Tool Builders, like Roeders, to make sure our solutions operate seamlessly with the most advanced machines available."

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Delcam’s ArtCAM Software for Woodworking on Display at AWFS

16 June 2009

Delcam’s latest release of the ArtCAM family of woodworking software will be on display on booth 5038 at the AWFS show July 15th to July 18th 2009 at the Las Vegas Convention Center in Las Vegas, Nevada. Already used by many signmakers, cabinet-makers, and furniture manufacturers, the new version, ArtCAM 2010, is set to further increase its use into other woodworking applications.

A new interface is being introduced that is designed to minimize the learning curve so even beginners to CNC technology can start using the program as quickly as possible. All products within the range of ArtCAM products offer upgrade options so users can move from entry-level programs to more advanced solutions as their businesses require.

Entry-level ArtCAM Express provides a very versatile program for smaller businesses, offering basic 2D drawing, and 2D and 3D machining functions, plus the ability to import different types of artwork. In addition, the software includes a range of drawing tools for creating shapes, and for editing or repairing designs. The options for text creation support a wide range of fonts and also give complete control over spacing, kerning, and formatting of lines and paragraphs.

Once the design has been finalised, the software offers a variety of strategies for CNC machining. To aid in machining, the software is supplied with a tooling database that can be edited or added to by the user at any time, plus post-processors for all major CNC woodworking machines.

The main advances in the new versions can be found in the Insignia and Pro versions and concentrate on the design process. A new “Embossing Wizard” will allow users to tilt and rotate their 3D model to change the viewers’ perspective. The resulting design still maintains the salient details and the illusion of depth from the original model.

Another new and innovative feature in ArtCAM is the ‘Relief Analysis Tool’. This will highlight any sharp edges or discontinuities within the design that could cause problems during manufacture. The user can see and make the necessary design modifications before incurring any timely or costly manufacturing delays.

At the end of a design process, approval is required before machining can take place. Rather than taking screenshots or sending large cumbersome files by e-mail, ArtCAM’s new PDF viewer can embed a dynamically viewable 3D model of the final design in an efficient, industry-standard and printable document.
**ESPRIT 2009, by DP Technology, to be Exhibited at Citizen Miyano Open House, Wood Dale, Ill., June 23-25**

16 June 2009

The latest version of computer-aided manufacturing (CAM) software created by DP Technology will be featured June 23-25, when ESPRIT® 2009 will be displayed at the Citizen Miyano Open House in Wood Dale, Ill.

Scheduled to take place at Marubeni Citizen’s new location, the Miyano Machinery facility in Wood Dale, the event will serve as both an educational seminar and open house featuring Citizen cutting demonstrations and Miyano featured machines.

Overviews of ESPRIT for Citizen and Miyano machine tools will take place from 2:30 p.m. to 3 p.m. on each day of the show, at which ESPRIT representatives will be available to answer questions, perform demonstrations and discuss the latest enhancements to the software.

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

**Intergraph® Honors 2009 Golden Valve Award Winners at Annual Users’ Conference**

17 June 2009

Keppel FELS Ltd. has been awarded “Best of Show” in the annual Intergraph® Golden Valve Awards Competition for the company’s detailed view of a semi-submersible drilling tender created with SmartMarine® 3D design software.

The Golden Valve Awards competition is sponsored by Intergraph and is open to all SmartPlant and SmartMarine Enterprise engineering design software users. The winners were announced in Washington, D.C. at Intergraph 2009, the engineering and geospatial software leader’s annual international users’ conference. Keppel FELS’ submission won over the more than 80 entries in this year’s competition.

“We are honored to be named Best of Show in the 2009 Golden Valve Awards Competition,” said Aziz Merchant, general manager (Group Design & Engineering) at Keppel Offshore & Marine. “SmartMarine 3D, which we used to design the winning entry, is one of our key 3D solutions and reinforces our position as the provider of choice and partner for solutions in the offshore and marine industry.”

SmartPlant Enterprise and its marine and offshore counterpart SmartMarine Enterprise are integrated solutions suites that provide design, construction, fabrication, materials and engineering data management capabilities needed for the creation, safe operation and maintenance and capital Plant Lifecycle Management (cPLM) of large-scale process, power, marine and offshore assets.

Other Golden Valve award winners include:

**Category: Working Views**

- 1st Place – Dongkwon Lee, Samsung Heavy Industries
- 2nd Place – Carolina Braganca and Cristiane Alvarenga, ECM S.A. Projectos Industriais
- 3rd Place – Martin T. Ammann Jr., Shaw Group
• Honorable Mention: Darío Rigaud Méndez, EmpresasY&V; Kevin J. Alba, Selas Fluid Processing Corp.; and Soonmi Jeon, Daelim Industrial Co. Ltd.

**Category: Visually Complex**

• 1st Place – A R Vivekraj, L&T Valdel Engineering Ltd.
• 2nd Place – Kenneth R. Houston, Selas Fluid Processing Corp.
• 3rd Place – Michael Bashore, WorleyParsons Group Inc.
• Honorable Mention: Dongkwon Lee, Samsung Heavy Industries; and Robert Anderson, Linde Process Plants Inc.

**Category: Rendering and Ray Traces**

• 1st Place – William Fisch, Selas Fluid Processing Corp.
• 2nd Place – Carolina Braganca and Cristiane Alvarenga, ECM S.A. Projectos Industriais
• 3rd Place – Emil P. Kushner Jr., Selas Fluid Processing Corp.
• Honorable Mention: Rhys Ryan and Scott Foster, WorleyParsons Services Pty Ltd.; and Jimmie Cannon, Linde Process Plants Inc.

**Category: Animation**

• 1st Place – Augusto Munhão, Promon Engenharia SA
• 2nd Place – Jerzy Chrzanowski and Michael J. Kosanovich, Westinghouse Electric Co.
• 3rd Place – Augusto Munhão, Promon Engenharia SA
• Honorable Mention: Soo Hyun Park, Young Min Lee, and Chang Jae Lee, Hyundai Engineering Co. Ltd.; and Zhao Ying Lu and Xu Zhang, Chinergy

All the place winners will receive a monetary award for their efforts and will also have their work appear on Intergraph’s Web site, in the division’s Insight magazine and the 2010 Intergraph Process, Power & Marine calendar.

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**LMS to Highlight Unique Simulation Solutions for Balancing Mission-Critical Performance Attributes at the Vehicle Dynamics Expo 2009**

15 June 2009

LMS will highlight its simulation solutions at the Vehicle Dynamics Expo 2009 to be held in Stuttgart, Germany from June 16th until June 18th, 2009. Both LMS Imagine.Lab AMESim and LMS Virtual.Lab product suites are designed to help vehicle dynamics engineers tackle the complex challenge of balancing mission-critical aspects, such as fuel efficiency, driving dynamics, comfort and safety.

“LMS delivers comprehensive, cutting-edge solutions that provide engineers a unique platform for the development of their driving dynamics systems, from the early design stages to controls integration,” stated Willy Bakers, LMS Executive Vice-President & Chief Business Operations Officer. “Our strong experience in this field gives LMS an indisputable advantage to become the preferred tools in driving dynamics studies.”
The advanced LMS solutions assess the interaction between the vehicle, its key subsystems and their controllers to ensure optimal energy consumption, driving pleasure and enhanced safety. The simulation applications can run system dynamics studies in parallel with fuel efficiency analyses and present a unique platform to model and simulate vehicles, with different levels of model details and straightforward integration with software-in-the-loop or hardware-in-the-loop validation processes. With the LMS solutions, users can perform fatigue life predictions on the vehicle suspension components and trimmed body as well as develop active safety systems such as ESP. They maximize vehicle dynamics performance and optimize stability control while reducing power consumption.

LMS offers dedicated simulation solutions for suspension, braking and power steering system design, global chassis control validation, full vehicle approach for fuel efficiency simulation, vehicle-driver simulation, control system integration, as well as NVH and durability simulation. LMS further offers professional and engineering services to assist customers in integrating LMS solutions into their existing product development process and optimizing their simulation process.

Please visit booth 5206 at the Vehicle Dynamics Expo 2009 in Stuttgart, Germany from June 16th until June 18th, 2009 to learn more about the LMS integrated 1D and 3D simulation solutions as well as other unique cost-efficient LMS solutions and tools. Their experts will be present to answer your questions.

Register for COE's June Ask the Experts Webcast on Tuesday, June 23rd 2009

June 2009

Join Tod Cruikshank (Marketing & Community Development), Dassault Systèmes, as he presents, Introduction to 3DVIA Composer Animation Module - Part 1, in a live, interactive Webcast on Tuesday, June 23rd at 11:00 a.m. (EDT).

In this presentation, the basics of animation in 3DVIA Composer will be covered. The presenter will go through creating views to help story board an animation, as well as discuss techniques to create animations from the views. The timeline basics to better understand the use and proper techniques to be able to easily edit and modify an animation will also be covered. This information will be followed by a 15 minute Q&A.

About the speakers:
Tod brings to Dassault Systèmes over 25 years of graphics experience, animation and creative thinking. A 1982 graduate of UW Stout's Industrial design program, Tod's ability to creatively visualize, model and animate has helped numerous companies better market their products. Tod is now using these skills along with his ability to effectively communicate with engineers and designers in his role in Dassault Systèmes, Marketing and Community Development.

Register for Introduction to 3DVIA Composer Animation Module - Part 1 today

Make plans to attend part 2 of this series How to Create Effective and Interactive 3D Animated Instructions on Tuesday, July 14th.

Sescoi Demonstrates Productivity Suite in Japan and the USA

16 June 2009
Sescoi will be exhibiting at the International Plastics Showcase, NPE2009, in Chicago, on Booth 100011 from 22 to 26th June, and at the Design Engineering & Manufacturing Solutions Expo, DMS, in Tokyo from 24 to 26th June on Booth 6-14. Both of these shows will give visitors a chance to experience Sescoi’s broad range of productivity tools.

As well as its flagship automatic CAM/CAD software WorkNC, Sescoi will be focusing on its newest system WorkXPlore 3D. Designed to enable collaborative working, it can read-in, share, mark-up and analyze CAD data from the majority of popular modeling and design systems. Its functionality handles large files, allowing design data to be interrogated by more people in an organization and its supply chain, at low cost. Concurrent evaluation of new products, made possible with this software, speeds up the development process, optimizes the finished design and increases return on investment. Visitors to Sescoi’s booth at DMS will benefit from daily open presentations of WorkXPlore3D and take away a free version.

The latest Japanese language version of WorkNC will be demonstrated at the DMS show in Tokyo, while at NPE, Sescoi U.S. will be showcasing WorkNC V20. At both shows a selection of state-of-the-art and typical milled parts will be on display and Sescoi engineers will be detailing how the advanced automation in WorkNC can give manufacturers a critical advantage in a tough economic environment, by reducing the skill levels required to learn and use the software and producing reliable toolpaths, fast.

Sescoi U.S. is so confident of WorkNC’s capability that it is launching the “WorkNC Challenge” at NPE - if, during an evaluation period, WorkNC does not generate more efficient 3D cutterpaths than the usual CAM solution used, then Sescoi will provide a copy of the top of the range version of WorkXPlore 3D (Manufacturing Pro) absolutely free.

The new Global Finishing toolpath, coming soon in WorkNC V20, analyses the part geometry and fits the most appropriate cutterpaths to it. More advanced technology has been built into the new version to cut difficult and hard materials. This follows a joint 5-axis research program with the French technical center CETIM. WorkNC’s Auto 5 module, which automatically changes 3-axis toolpaths into collision free 5-axis paths, now supports lollipop cutters and new spiral finishing movements. Companies using WorkNC achieve trouble free and efficient CNC programming of the most complex shapes for a range of industries. WorkNC V20 adds further enhancements which will increase the productivity of the existing workforce, improve the quality of finished parts, and broaden the scope of work that companies can profitably manufacture.

NCspeed software toolpath optimization software shaves even more time off machining operations. This system, fully integrated into WorkNC, will be demonstrated at NPE and DMS. Using detailed analysis of the cutter position and tool load, it makes adjustments to feeds and speeds to produce the optimum cutting conditions. Savings can be up to 20% on cycle times, while with constant tool loading cutter life will also increase substantially. Companies that use long or small diameter cutters will benefit particularly from the avoidance of excessive tool deflection or breakage, which can seriously damage the finished part.

Efficient management of business processes and production can make a huge difference to productivity and profitability. WorkPLAN Enterprise, Sescoi’s full ERP system for mold, tool and die manufacturers, covers every aspect of the process. Starting with drawing analysis and the production of accurate quotations, the software manages time and attendance, scheduling, quality, purchasing and stock control, right through to invoicing and cash flow management. Real time data collection ensures information is current, and detailed management reports keep track of key business indicators, enabling companies to deliver goods on time and to budget, maximizing profitability. This system, which has been designed for
easy implementation and to fit with the customers’ way of working, can be experienced at both DMS and NPE.

By visiting Sescoi’s booth at either DMS or NPE, engineers will benefit from Sescoi’s 21 years of research and development into production efficiency.

Share Your Expertise with Top Users in the Aerospace & Defense Industries – Submit a Presentation to Speak at the Workshop by July 10

June 2009

For 25 years, the COE community has helped Dassault Systemes users discover solutions to real user issues. Become a part of this tradition of advanced knowledge sharing by submitting an abstract to become a speaker at the COE 2009 Industry Workshop – Aerospace & Defense.

**COE 2009 Industry Workshop – Aerospace & Defense**

October 26-27, 2009

Fort Worth Convention Center

Fort Worth, Texas

The following tracks have been established for the Aerospace & Defense workshop. Consider these topics when submitting your abstract:

- Digital Manufacturing
- Electro-Mechanical Engineering
- Post Delivery Product Support
- Migration/Integration with CATIA V6 from Non-EM1 PDM System
- CATIA Analysis from a Designer Standpoint
- Program Management
- Processes for Dealing with Legacy Data
- Large Assemblies and Knowledgeware
- Shipbuilding track: V4 to V6 Shipbuilding Evolution/Transition
- Awareness of V6

Submit an abstract of your presentation for consideration by the Workshop Planning Committee by **Friday, July 10, 2009**.

All accepted presenters will be contacted by August 2009. Your final presentation is due by October 16, 2009 for inclusion in the online proceedings. Contact speakers@coe.org if you have any questions.

Siemens PLM Software Technology Enables Global Aerospace & Defense Companies to Address Industry’s Toughest Challenges

15 June 2009
Siemens PLM Software announced it will demonstrate its comprehensive PLM portfolio at the 2009 Paris Air Show in the Siemens PLM Software booth located in Hall 2-F73.

Siemens PLM Software will demonstrate Teamcenter® software, the company’s flagship digital lifecycle management portfolio; NX™ software, its next-generation digital product development system; and Tecnomatix® software, its digital manufacturing portfolio.

The company this year plans to unveil advanced capabilities for Teamcenter and Tecnomatix designed to address key business needs for aerospace and defense (A&D) organizations, including advancing total enterprise productivity, creating complex program efficiencies and improving service and logistics productivity.

Enhancements to Teamcenter will allow program teams to better coordinate resources required to meet the strategic needs of a company and drive their product and program performance. New capabilities in Tecnomatix will help A&D companies optimize manufacturing lines and improve manufacturing planning, resulting in faster time-to-market for their products through increased planning and manufacturing productivity.

“Siemens PLM Software continues to demonstrate their commitment to the A&D market and reinforce their position as one of the leading suppliers of PLM solutions,” said Ed Miller, president of CIMdata, Inc., a leading PLM industry consulting and research firm. “Having a firm grasp of the challenges that global A&D organizations face, the company is responding with enhancements to their solutions that are intended to further drive productivity and establish program control throughout the entire product lifecycle.”

A&D Industry Leadership

Over the last year, Siemens PLM Software made multiple selection announcements for its Teamcenter software solutions with key customers in A&D including Boeing, Lockheed Martin Aeronautics, Snecma (SAFRAN Group), Space Exploration Technologies (SpaceX) and Sukhoi Civil Aircraft Company:

Boeing, the world's leading aerospace company, signed a new software license agreement for Teamcenter. Siemens PLM Software technology enables Boeing to access current and accurate digital information wherever and whenever required. Boeing uses Teamcenter on several key programs to enhance collaboration and improve workflow management. Full Press Release.

Lockheed Martin Aeronautics, the builder of the world’s most advanced multi-role fighter, the F-35 Lightning II Joint Strike Fighter (JSF), is expanding the use of Teamcenter® software to enable a fully digital PLM backbone for design, manufacturing and maintenance support for the JSF program. Full Press Release.

Siemens PLM Software received an order from Snecma, SAFRAN Group, a world-class aircraft and space engine manufacturer, for delivery and implementation of its Teamcenter software. Full Press Release.

Space Exploration Technologies (SpaceX), a privately-held leading space launch vehicle developer and services provider, standardized on NX and Teamcenter software for product design, simulation and product data management. Full Press Release.

Siemens PLM Software announced that its Teamcenter software suite enabled the production of Russia’s first internationally-designed and manufactured, paperless aircraft. Sukhoi Civil Aircraft
Company’s Superjet 100 (SSJ100) marked its maiden flight on May 19, 2008. Full Press Release.

“To succeed in today’s economic climate, aerospace and defense organizations need to ensure that they are managing complex programs in the most efficient way possible. Our PLM tools are helping A&D customers enhance supply-chain performance, speed product time-to-market, and drive seamless, secure collaboration with partners and suppliers, all while reducing costs,” said Dave Shirk, executive vice president, Global Marketing, Siemens PLM Software. “Our A&D customers continue to recognize the value that PLM brings to their organizations and we’re committed to expanding our solutions’ capabilities to address new industry challenges and help our customers meet their goals.”

SPESA EXPO to Highlight “Supply Chain of the Americas” at 2010 Event

16 June 2009

The Sewn Products Equipment & Suppliers of the Americas (SPESA) announced plans to expand its May 18-20, 2010 SPESA EXPO event in Atlanta, Georgia (http://www.spesaexpo.com) through the addition of a special “Supply Chain of the Americas” exhibit that will highlight the unique business opportunities and wide-ranging resources available to sewn products manufacturers, brand marketers, and vertical retailers in the region. Comprising textiles and components, design and development services, production and logistics providers, country and industry association pavilions and more, the new exhibit will complement what is already the largest and most comprehensive exhibition of sewn products equipment, technology, and education in the Western Hemisphere. Supply Chain of the Americas will expand the event’s coverage to the entire concept-to-delivery fashion and sewn products lifecycle by highlighting innovation in design, development, engineering, sourcing, production, logistics, distribution, and other key business processes.

The new Supply Chain of the Americas exhibit is also expected to attract a significantly broader audience to the triennial event, which has historically focused primarily on equipment and machinery exhibits. “Interest in producing in close proximity to the U.S. market is growing,” noted SPESA managing director Dave Gardner. “By expanding the scope of SPESA EXPO, we are working to fill the need that sewn products manufacturers, brands, and retailers have to better understand the opportunities and identify the resources available to them in the Western Hemisphere. We believe that, as the largest fashion and sewn products technology and educational event in the region, SPESA EXPO is the perfect venue to bring together the complete range of products, services, and resources available to companies that consider the Americas as part of their supply chain strategy.”

For the first time ever at SPESA EXPO, the Supply Chain of the Americas exhibit will welcome the full range of product and service resources that serve sewn products manufacturers, brands, and retailers; including fabrics and textiles, trims and components, textile and screen printing, trend and design, product development and engineering, CAD/CAM, spreading and cutting, contract and package providers, laundry and garment dying, logistics and distribution, product identification and labeling, testing and compliance, sourcing and supply chain, fit and sizing, consulting and education, and other related products and services.

About SPESA EXPO

SPESA EXPO is the most comprehensive exhibition and seminar event for the sewn products industry in the Western Hemisphere. It comprises all segments of the sewn products market, including apparel and fashion, auto and transportation interiors, footwear and accessories, home furnishings and
upholstery, safety and protective gear, luggage and leather goods, and other technical and industrial textiles; and covers the entire concept-to-delivery sewn products lifecycle including design, development, production, and distribution. In 2010, SPESA EXPO will co-locate with Techtextil North America and ATME-I/Megatex on May 18-20 to form “Textile and Sewn Products Industry Week” in Atlanta, Georgia. SPESA EXPO is solely owned by SPESA.

About SPESA

Formed in 1990, the Sewn Products Equipment & Suppliers of the Americas (SPESA) is an industry association dedicated to suppliers (manufacturers and distributors of machinery, equipment, related parts and supplies, systems, technology, supply chain solutions, and other products and services for the development, manufacture, or distribution of sewn products) to the sewn products industries (apparel, upholstered furniture, home textiles, transportation interiors, leather goods, footwear, and technical/industrial textiles).

Vero USA to Offer Free Flow Analyses at NPE 2009
18 June 2009

Vero USA will offer free Plastic Flow Analyses at NPE 2009 (Chicago, IL - June 22-26, 2009 – booth W133047, W133048)

Attendees are invited to bring a part file (compatible CAD formats: Parasolid, IGES, CATIA v4 & v5, Pro-E, UG, STEP, Solid Works, Solid Edge, ACIS, DXF, DWG, STL, VDA and VISI) to the booth from 3pm-5pm, and have their analysis done on the spot (first come first served). This will offer the opportunity to test the new version 17 of VISI Flow, the one-stop solution for the Plastic and Tooling industry.

Visi Flow 17 is an affordable injection molding simulation software that uses a patented hexahedral hybrid mesh technology. It provides accurate results and is extremely fast. Visi Flow now has a powerful CAD capability which makes evaluating design changes easier and faster. Visi Flow is also integrated with Visi Mold and Visi Machining which facilitates faster transfer to manufacturing.

Visi Flow Mesh Wizard, new thickness sphere algorithm, and feature recognition for runners and cooling channels, coupled with Visi Flow’s renowned high speed simulations enable users to achieve solutions faster than before.

Along with gas-assist, sequential, and co-injection molding simulations, Visi Flow now offers simulation of overmolding and crosslinking polymers including liquid silicone rubbers.

Financial News

ESI Group Sales for Q1 2009/10: +11.6% - Further growth in the installed base
11 June 2009

ESI Group announced its consolidated sales for its first quarter to 30th April 2009.
Q1 2009/10 Sales

<table>
<thead>
<tr>
<th></th>
<th>T1 2009/10</th>
<th>T1 2008/09</th>
<th>Δ % (volume)</th>
<th>Δ % (actual)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Licences</td>
<td>11.1</td>
<td>10.8</td>
<td>-6.3%</td>
<td>+2.9%</td>
</tr>
<tr>
<td>Services &amp; other activities</td>
<td>5.3</td>
<td>3.9</td>
<td>+31.4%</td>
<td>+35.1%</td>
</tr>
<tr>
<td>Total</td>
<td>16.4</td>
<td>14.7</td>
<td>+3.8%</td>
<td>+11.6%</td>
</tr>
</tbody>
</table>

*Group’s FY runs to 31st January*

Sales for the first quarter of the current financial year totalled €16.4 million euros, up +3.8% in volume terms on the first quarter of 2008/09, and up +11.6% in actual terms given the favourable evolution of exchange rates.

The change in the geographical breakdown of the Group’s activity reflects the integration of Mindware, essentially based in the United States. 39% of first-quarter activity was thus recorded in Europe, 23% in the Americas and 38% in Asia, versus figures of 47%, 13% and 40% respectively in 2008/09.

Driven by the ongoing growth in the Licences installed base, which grew by +4.1% by volume compared to the first quarter of the previous year, and by the positive exchange rate effect, Licence sales came to €11.1 million euros, up +2.9%. Although it continued to benefit from the stability of its Repeat Business at the high level of 81% by volume and from the growth in its installed base, Licence sales did however continue to suffer – albeit less than during the fourth quarter of 2008/09 – from the slowdown in new investments resulting from the deterioration in the economic situation around the world, and in Japan in particular. Subsequently, the proportion of New Business at the end of the first quarter of 2009/10 was down to 14% of Licence sales, versus 22% at the end of the first quarter of 2008/09.

Sales from Services totalled €5.3 million euros, up +35.1% in actual terms and +31.4% by volume. Consolidated within the Group since mid-December 2008, Mindware recorded a first quarter that was in line with expectations and contributed 1.5 million euros to total Group sales. Penalised by a negative base effect given the very high rate of growth recorded by Services over the first three months of the previous financial year, Service sales totalled €3.8 million euros on a constant scope basis at the end of the first quarter of 2009/10, down -2.2% on the sales figure of €3.9 million euros recorded over the first quarter of 2008/09.

Alain de Rouvray, ESI Group’s Chairman and CEO, concludes: “Traditionally not very representative of our activity recorded through the rest of the year, first quarter sales nevertheless continued to emphasize the excellent performance of our Licences installed base within an economic context that remains very difficult. Backed by the renewed trust placed in us by our major corporate clients, by the significant contribution of Mindware and by the numerous innovative projects that are currently the subject of negotiations in our Services activity, we continue to have confidence in the pursuance of our growth in activity and our improvement in profitability with a product mix for the full financial year that should consist of around 30% of Service sales and 70% of Licence sales.”

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Implementation Investments

Airbus Has Chosen Dassault Systemes PLM for New Eco-Efficient Aircraft

15 June 2009

Dassault Systèmes (DS) announced that Airbus is deploying DS Product Lifecycle Management (PLM) solutions to support several key design processes around 3D of its A350 XWB programme. The software will provide Airbus engineers with a collaborative solution from 3D design to manufacturing engineering, enhanced comparatively to previous programmes.

Based on Dassault Systèmes ENOVIA VPM, a 3D Digital Mock Up of the plane will support design activities from several thousands of designers, from Airbus and its suppliers. The aircraft composite structure design, developed on Dassault Systèmes CATIA Composite Part Design solution, can be revised by all parties involved, leading to improved engineering reactivity. The 3D Digital Mock-Up (DMU) is also going to be connected to Manufacturing Engineering (Dassault Systèmes DELMIA software) for an optimization of the manufacturing process and an end to end process from engineering to manufacturing.

The A350 XWB programme is focused on operational efficiency with a family of new-generation aircraft perfectly suited to the market’s changing needs in terms of size, range, passenger comfort and the environment. It will provide improved fuel efficiency, reduced emissions and lower noise levels during departure, cruise and arrival. This is why, managing the lifecycle of its A350 aircraft in a virtual 3D PLM environment, has been one of Airbus’ major objectives.

“Dassault Systèmes is supporting Airbus in its objective to improve manufacturing techniques and to increase collaborative innovation for sustainable business.” comments Etienne Droit, Executive Vice President, Dassault Systèmes. “Two years ago, Dassault Systèmes and Airbus agreed to have 3D as the master of the A350 definition and 3D reliable configured DMU to be the reference for any A350 designers and managers, to put in place Dassault Systèmes PLM solutions to support the wide Extended Enterprise ecosystem working to develop and produce A350, and to simplify and harmonize IT environment to be efficient in supporting these challenges: This is now a reality.”

“In today's interconnected world, it is even more critical for manufacturers to intensify their collaborative approach for smart product design and development. IBM and Dassault Systèmes have worked together to deliver an implementation that allows Airbus to collaborate more easily with partners and suppliers. This helps optimize operations globally and creates a leaner and faster model for product development”, stated Albert Bunshaft, vice president, IBM Product Lifecycle Management.

Autodesk Hits Industry Milestone at Paris Air Show

16 June 2009

Autodesk, Inc. announced at the International Paris Air Show that the company now has more than 1,000 customers in the aerospace and defense industry.

"Our rapidly expanding aerospace customer base is a testament to the strength of the Autodesk solution for Digital Prototyping," said Robert "Buzz" Kross, senior vice president, Manufacturing Industry Group at Autodesk. "Today we are uniquely positioned to help aerospace suppliers and manufacturers get more
innovative products to market faster through less reliance on costly physical prototypes."

A growing list of large and small manufacturers in the aerospace sector relies on Autodesk Inventor software and the complete solution for Digital Prototyping to overcome a wide variety of business challenges. The Autodesk solution for Digital Prototyping brings together design data from all phases of the product development process into a single digital model created in Inventor.

ADEPT Airmotive, a South Africa-based manufacturer of general aviation engines for the light aircraft market, relied on Autodesk Inventor software to develop the 320T, a 320-horsepower general aviation engine with a compact design that offers low vibration levels and high structural integrity. Inventor software's Digital Prototyping capabilities helped ADEPT produce accurate 3D models of the 320T before anything was actually built, reducing the number of physical prototypes that needed to be constructed. Processes that once took hours - such as changing the wall thickness of an engine component - were completed almost instantaneously with Autodesk Inventor software. As a result, engineers were able to spend less time constructing geometric models and more time creating innovative designs, and then simulating the performance of the designs under real-world conditions.

U.S.-based Gemcor, which designs and sells custom machinery and tooling for aircraft parts assembly, has used Inventor for nearly five years. By putting aircraft part designs into Inventor, Gemcor can simulate dynamic assemblies and test how machines will fasten together the different parts such as a wing panel or fuselage.

"With Inventor, we've streamlined our entire design and engineering process to accomplish more with fewer resources," said Bill Mangus, Gemcor president and CEO.

The St. Petersburg Aircraft Repair Company (SPARC), one of Russia's leading companies, employs Inventor to design assemblies within its helicopter maintenance center, develop service and training documentation on aircraft repairs and enhance project management.

"Many of our projects involve the management of large aircraft assemblies and the handling of huge volumes of data," said Dmitry Khohlov, SPARC department chief. "Autodesk Inventor has proved invaluable in processing and managing all of this material efficiently but has also supported innovation and aided the decision-making process through its 3D visualization capabilities."

Techman-Head recently licensed Autodesk Inventor software to digitally design its mechanical and hydraulic aircraft maintenance tools. Inventor software has helped the French company design, visualize and simulate its tools for Airbus and Boeing planes before they are produced.

"What we like most about Autodesk Inventor is its ease of use. Inventor helps us rapidly design a range of maintenance tools, and the software suite's power makes it ideal for the development of our tool parts," said Philippe Chirade, design office manager at Techman-Head. "It also offers a range of native converters that can read and write files from and to other CAD applications, and standard converters such as STEP."

**Autodesk in Aerospace**

The Autodesk solution for Digital Prototyping helps aerospace suppliers and manufacturers bring together design data from all phases of the product development process to develop a single digital model created in Inventor software. The single digital model simulates the complete product and gives engineers the ability to design, visualize and simulate their product with less reliance on costly physical prototypes - thereby helping to improve time to market and increase competitive advantage.
Buehler Motor Standardizes on PTC Product Development System to Support Globalization Strategy
15 June 2009

PTC announced that Buehler Motor GmbH, based in Nuernberg, Germany, has decided to standardize on the PTC® Product Development System (PDS) as its enterprise product lifecycle management (PLM) solution to improve global collaboration and reduce development costs. Buehler is a small and medium business (SMB) company developing and manufacturing standard products like DC motors, DC gear motors and water pumps and highly customized mechatronic drive solutions for customers in the automotive, aerospace and general industries.

Buehler selected Pro/ENGINEER® and Windchill® to better connect their development and production sites in Germany, the Czech Republic, Great Britain, Mexico, USA and China, creating one centralized platform for data and process management for all field activities within the company. In the past, engineers used a non-parametric 3D system and managed their CAD data locally, without having direct access to data produced at other sites, which inhibited design reuse and collaboration in global project teams. Further challenges to overcome were the heterogeneous release and change management processes at the different locations. Buehler will implement the PDS at six locations worldwide to support global product development and data management, setting up a common design release and change management process for the entire organization. More than 150 engineers and technicians will use the system on a regular basis.

Buehler has realized that although it is a medium sized company, they are facing the same challenges in product development as large enterprises. They need to develop innovative high-quality products in ever-shorter time and react more and more flexibly to quickly changing customer requirements. PLM technology turns out to be a significant competitive edge for succeeding in global competition. As SMB companies are not able to scale in equal measure as large enterprises they rely even more on robust PLM technology to help drive efficiencies into product development. Accordingly, Buehler Group was looking for a PLM vendor with sound track record in product development. Ultimately, Buehler chose PTC for its single platform approach and its success deploying enterprise PLM solutions.

The PTC PDS was benchmarked against another PLM solution with a strong foothold in the automotive industry and won the contest on a number of key points. “PTC’s broad market penetration in the automotive industry, as well as its marquee deployments at many leading product development organizations and its better cost/performance ratio were key factors in our decision,” said Gerhard Denk, chief information officer of Buehler Motor GmbH. “Our goal is to shorten time-to-market by improving our product development. The PTC product development system offers key capabilities enabling us to work closer with our customers. We expect the PDS to help us reduce our development cycle times and the related costs”.

“Today’s small and mid-sized companies have basically the same product lifecycle management requirements as large corporations because they are developing and manufacturing highly sophisticated products on a global scale. They need a powerful web-based product development system to support collaboration among their global sites and with customers,” says Sin Min Yap, director, product and market strategy, PTC. “We are happy about Buehler’s strategic decision to implement our product development system. This will help them to further leverage their product development goals at their dispersed development sites.”
GraphiXystems GmbH, a PTC silver partner, provided comprehensive consulting during the selection of the PLM system. Finally, Pro/ENGINEER and Windchill were purchased through GraphiXystems GmbH in conjunction with their partner MTC Antos, Buckel & Partner GmbH, a GraphiXystems partner and a PTC gold partner. The entire implementation of Pro/ENGINEER and Windchill, and user training, as well as process consultancy is being provided by PTC Platinum partner INNEO Solutions GmbH. For further information on GraphiXysts please visit [http://www.graphixystems.de](http://www.graphixystems.de); for MTC Antos, Buckel & Partner GmbH, please visit [http://www.mtc-gmbh.com](http://www.mtc-gmbh.com); for INNEO Solutions GmbH please visit [http://www.inneo.com](http://www.inneo.com).

**About Buehler Motor**

DC PM Motors and DC PM Gear Motors by Buehler Motor have become an integral part of everyday life. Buehler Motor creates things for motion, in the automotive industry, in office technology and many other areas. The company provides round-the-clock reliability and fulfills user's individual requirements with customized drive solutions. Buehler Motors provides a wide range of products – motors from 1 W to 250 W, gear motors from 1 Ncm to 10 Nm – and many applications: drives for windows, furniture, doors, hinged lids and much more, valve controls, drives for pumps, fans and compressors, paper handling, positioning drives, and folding actuators. For more information please visit: [http://www.buehlermotor.de](http://www.buehlermotor.de).

**EADS Defence & Security and Premium AEROTEC GmbH Extend Use of HyperWorks**

17 June 2009

**Altair Engineering, Inc.** announced that EADS Defence & Security and Premium AEROTEC GmbH, a wholly owned EADS subsidiary, have extended their use of HyperWorks. EADS Defence & Security first started using HyperWorks’ optimization solution, OptiStruct in 2005. The following year, HyperMesh was selected as the preferred finite element (FE) pre-processing solution for analysis departments and HyperView, the suite's FE post-processing technology, followed shortly after. HyperMesh and HyperView are heavily used for Eurofighter support and enhancement tasks as well as for the structural development of future aviation products. Premium AEROTEC GmbH is using HyperWorks to aid in the development of all the Airbus programs they support.

"We see a growing need for simulation and optimization within the aerospace industry and decided therefore to extend our use of HyperWorks," said Franz Josef Weiss, CAE Requirement Manager at EADS Defence & Security, Germany. "HyperMesh allows our engineers to get better FE models in a shorter time. Thus, we can quickly prepare accurate models of complex composite components for analysis. OptiStruct is an optimization tool that supports us in particular with the structural concept development, in order to meet aggressive weight targets of modern aircraft structures."

"We are very pleased with the broad expansion of HyperWorks at EADS Defence & Security," said Dr. Michael Hoffmann, Altair Vice President EMEA. "All of our HyperWorks products are continuously enriched with valuable input from customers like EADS Defence & Security. This helps us stay in close contact with the industry in order to provide the simulation technology required to develop today's modern aircraft systems. From streamlining CAE processes to providing what has become the de facto standard for structural optimization in the aerospace industry (OptiStruct), we look forward to increasing our cooperation with EADS Defence & Security and I am confident that both parties will continue to mutually benefit."
About EADS Defence & Security

EADS Defence & Security (DS) is a systems solutions provider for armed forces and civil security worldwide. Its portfolio ranges from sensors and secure networks through missiles to aircraft and UAVs as well as global security, service and support solutions. In 2008, DS - with around 23,000 employees - achieved revenues of euro 5.7 billion. EADS is a global leader in aerospace, defence and related services. In 2008, EADS generated revenues of euro 43.3 billion and employed a workforce of about 118,000.

About Premium AEROTEC

Premium AEROTEC is one of the worldwide leading suppliers for structures and manufacturing systems for aircraft construction. It plays a significant role in the design of new concepts in such fields as fibre-composite technologies.

Premium AEROTEC has over 6,000 employees and expects revenues to reach more than one billion Euros for 2009. Premium AEROTEC's core business is the development and manufacturing of metal and carbon composite aerostructures and the corresponding production systems. The company has factories in Augsburg, Nordenham and Varel and is part of the EADS Group. For more information please visit: http://www.premium-aerotec.com/

From Rooftops To Blimps, SolidWorks Software Drives Innovation In Wind Power

15 June 2009

Located on house roofs or floating 900 feet above them, from remote villages to the local industrial park, a new generation of wind turbines is expanding wind power’s reach to any home or business that wants an environmentally friendly source of electricity. Two companies developing new wind turbines, MicroWind Technologies LLC. and Magenn Power Inc., were recently cited by SolidWorks CEO Jeff Ray as examples of innovators ushering in a new generation of cost-effective wind power. They are among several SolidWorks® 3D CAD software users stretching the boundaries of wind turbine designs and expanding wind power’s reach around the world.

Magenn and MicroWind confront a key obstacle to wind power’s growth; generating a steady stream of power from unpredictable winds. Burlington, Mass.-based MicroWind is developing a low-cost rooftop wind turbine that can generate electricity from winds as light as 10 mph. Ontario-based Magenn is working on a lighter-than-air wind turbine that floats 600-1,000 feet above the ground to catch the steady wind flows.

“MicroWind and Magenn demonstrate the kind of thinking that will make wind power a practical, economically feasible electricity source on a large scale,” Ray said. “The basic concept of generating power from wind has been around for centuries, but companies like MicroWind and Magenn are confronting engineering and design obstacles that have prevented it from working on a large scale – even if that large scale is actually a lot of small turbines working together.”

MicroWind Technologies is the creation of entrepreneur Michael Easton, a Tufts University-educated engineer. Easton designed the “residential scale” wind turbine as part of a research project, then started the company to develop it commercially. In 2008, MicroWind won first place in the Hellenic Business Network competition, second place in the Tufts 50K competition and received a grant from the Compton Foundation, raising enough seed money to start the venture. The MicroWind turbine, designed in
SolidWorks® 3D CAD software, features a vertical axis configuration, which means the turbine’s axle is perpendicular to the ground instead of parallel. That orientation enables the turbine to generate electricity from slow winds. Two people can install the turbine, and its simplicity reduces the chance of damage and keeps maintenance and replacements costs low.

“The simpler it is to make, the less likely it is to break,” Easton said. “We used SolidWorks to design a simply constructed and aesthetically pleasing turbine that can fit into a residential or small business area.” The MicroWind turbine produces around 50 to 75 percent of the electricity an average home uses in a year.

Scottish residential turbine developer Windsave, another SolidWorks user, is developing a similar small turbine that homeowners can bolt onto their house. Like MicroWind’s, the Windsave turbine is designed for efficient, quiet, and vibration-free operation.

Magenn approaches the issue of fickle winds from a different angle. Instead of waiting for wind to come to it, Magenn’s MARS (Magenn Air Rotor System) turbine goes to the wind. It is a 50-x-120-foot lighter-than-air device that floats 600 to 1,000 feet above the ground to catch the jet stream currents present almost everywhere. MARS rotates to generate up to 100 kilowatts per hour, then feeds it down a tether to a grid or a battery array.

“Traditional fixed turbines work in 15 percent of the world. We’re the solution for the other 85 percent,” said Mac Brown, Magenn’s chief operating officer. “SolidWorks helps us experiment with different turbine configurations, compare their power outputs, and save thousands that we used to spend on outsourced simulation work.”

In addition to its popularity with emerging wind power companies, SolidWorks has a strong presence with established wind technology companies. Dutch offshore turbine developer Darwind is using SolidWorks to design offshore wind turbines with a patented magnet configuration that reduces up-front and maintenance costs. The British division of Ramboll Oil & Gas has used SolidWorks to design the foundations that support half of the world’s offshore wind power capacity.

“Wind power is entering a period of great growth and innovation. We will continue to highlight the best in wind power technology to encourage development of energy independence and reduced reliance on polluting fuels,” Ray said.

Intergraph® Icon Awards Honor Innovative Industry Leader; Awards Recognize Exceptional Application of Enterprise Engineering and Geospatial Technologies

16 June 2009

Intergraph® named the recipients of the 2009 Icon Awards, the company’s most prestigious customer distinction recognizing companies and organizations that have innovatively used Intergraph’s enterprise engineering and geospatial software to bring significant benefits to their business or industry.

The Icon Awards were announced in Washington, D.C. during the opening keynote ceremonies of Intergraph 2009. The guest keynote speaker for Intergraph’s international users’ conference was broadcast television anchor and author Tom Brokaw.

The 2009 Icon Award winners are: Atomic Energy of Canada Limited (AECL), a fully integrated nuclear technology and service provider; Enersource Hydro Mississauga, an electricity distribution
company for the city of Mississauga in Ontario, Canada; Istituto Geografico Militare Italiano (IGMI), a national institution that produces digital cartography and provides integrated geospatial data to the Italian government; Saipem, an Italy-based turnkey contractor in the oil and gas industry; SINOPEC Engineering Incorporation (SEI), a subsidiary of China National Petroleum Corp., China’s largest petrochemical producer and crude oil refiner; and Surrey Police, a metropolitan London police department.

**Icon Award Winner Profiles**

When AECL needed a company whose solutions could enable it to complete projects on time as well as on budget, it chose Intergraph. By using Intergraph’s SmartPlant® 3D design software, AECL was able to more design its Advanced CANDU Reactor, a reactor so safe and efficient that it can continue operating at full power operation even during refueling. Together, Intergraph and AECL are working to deliver carbon-free power for the future while also striving to meet the need for electricity today.

To meet the energy demands of its customers, Enersource Hydro Mississauga, an Ontario-based utility, manages its Smart Grid infrastructure and operations with Intergraph command-and-control software. This technology allows Enersource to operate its entire electric grid from a single computer console. Enersource’s unified command-and-control environment, accomplished through the use of Intergraph solutions, provides easy-to-visualize actionable intelligence allowing for quick detection and remediation of outages and other possible issues.

Italy’s national mapping agency IGMI, which provides mapping products used by the Italian military for both domestic and international operations, utilizes Intergraph mapping solutions to streamline and automate its map production and to assure quality. Chosen in part for its high-level geographic data production, Intergraph technology played a critical role during the 2006 Olympic Winter Games in Torino when IGMI relied on it to provide digital geospatial cartography.

Saipem, a global energy services provider and a leader in the oil and gas industry, relies on Intergraph SmartPlant Enterprise solutions for its onshore, offshore and drilling projects. Recognized for its prowess in surmounting technical challenges in hard-to-operate areas, Saipem is another industry leader that, together with Intergraph, is defining the future of engineering today.

SEI, a subsidiary of China National Petroleum Corp., specializes in engineering, procurement and construction management and supervision, technical consultation project management and technical services, along with other sectors within the oil and gas industry. In the last 50 years, SEI has completed more than 1,000 refining units, petrochemical plants and utility facilities in China, and is currently No. 1 among the country’s top 100 engineering companies and design institutes. SEI selected SmartPlant Enterprise solutions for their advanced technology and open database structure that would allow them to increase productivity and accelerate the pipeline, refinery and utility infrastructure projects necessary to meet the demands of the world’s fastest growing economy.

To increase the effectiveness of the 9-9-9 emergency call system, Surrey Police, which protects the nearly 1.1 million residents of the southeastern England county bordering London, sought to expand call handling with a customer contact center. Surrey Police chose Intergraph public safety incident management and reporting solutions, which protect 1 in 12 people in the world, to aid in the development of the center which answers 36,000 calls per month. Since the Intergraph technology was implemented last year, the department experienced significant reductions in the number of crime calls and efficiency savings.

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Intergraph® SmartPlant® Enterprise Selected by Fabricom Suez as its Engineering and Data Management Solution

16 June 2009

Fabricom Suez, a supplier of maintenance and modification services to the oil and gas industry, has selected Intergraph® SmartPlant® Enterprise engineering and data management software to manage its extensive project data.

Fabricom chose Intergraph SmartPlant Foundation over other competitors’ solutions to more accurately manage and reuse engineering design data throughout the life cycle of its projects.

SmartPlant Foundation is the first through-life data management solution specifically for the process, power and marine industries, and is now the market leader with about 300 customers worldwide. The software’s life cycle data management also enables a smoother handover for engineering, procurement and construction (EPC) companies to owner operators and for owner operators to more easily maintain, refurbish or modify their plants.

In choosing SmartPlant Foundation, Fabricom had realized the limitations and disadvantages of its previous information storage system – misspelled data, multiple copies of information tags, invalid property values, low security and problems detecting changes. With SmartPlant Foundation, Fabricom acquired a database solution that provided flexibility, efficiency, and better quality data management. Additionally, SmartPlant Foundation has been integrated with ProArc, Fabricom’s document management system. This will provide a tag-to-document relation to keep track of all the documents produced for each information tag and vice versa. Initially 5,000 tags and approximately 250,000 property fields were imported into the SmartPlant Foundation database.

SmartPlant Foundation offers enhanced decision support capabilities to facilitate global data management for the design, construction, production and life cycle optimization of the plant. From concept and design through handover and plant maintenance, operations and decommissioning, SmartPlant Foundation enables electronic management of all of the project’s and the plant’s engineering information, integrating data on the physical asset, work processes and regulatory and safety imperatives.

“After our initial use of SmartPlant Foundation we have seen measurable improvements in the quality of our data and the working environment,” said Øivind Hansen at Fabricom. “All of our project groups globally are now able to find, view and edit the information they need from one place, one database. We are highly satisfied with the results and the productivity gains we have achieved.”

About Fabricom

Fabricom performs challenging engineering work, executes projects and provides specialized maintenance services for leading players in the Norwegian oil and gas industry. The company is engaged in the complete project value chain from concept studies through project design, procurement, fabrication, installation and commissioning, supporting the operational management of oil and gas installations throughout life-of-field

Fabricom was established in Norway in 1992. Today, the company employs more than 1650 highly experienced and qualified co-workers. The main office is in Stavanger. Branch offices are located in Stavanter and Trondheim, and workshops in Stavanger, Haugesund and Orkanger. Fabricom AS is part of the international industry and service group SUEZ, which has more than 200,000 employees worldwide. http://www.fabricom.com
Kaben Wireless Silicon Achieves up to 7X Performance Boost with Cadence Virtuoso Accelerated Parallel Simulator

16 June 2009

Cadence Design Systems, Inc. announced that Kaben Wireless Silicon has achieved performance boosts while running top-level simulations using the Cadence® Virtuoso® Accelerated Parallel Simulator (APS). Kaben, a leading provider of RFIC semiconductor IP for next-generation wireless communication, also credits the Virtuoso Accelerated Parallel Simulator with enabling engineers to find and resolve design issues that they believe they would have missed without the performance and capacity delivered by APS.

The simulator was introduced in December, and to date Kaben has achieved impressive results, including one case where Kaben achieved a 7.6 times performance boost with four threads over the baseline SPICE simulator on a pre-layout PLL design with fewer than 5,000 devices. In the case of a post-layout PLL design with 328,000 devices dominated by parasitics, the Virtuoso Accelerated Parallel Simulator ran the complete simulation without reducing the design net list in four days with full SPICE accuracy compared to a previous solution where they were not even able to run the simulation.

“Because of its quick run time and high-capacity, the Virtuoso Accelerated Parallel Simulator helped our team find design issues early on in the verification phase, then quickly fix them and run another iteration of verification,” said Tom Riley, chief technology officer of Kaben Wireless Silicon. “The ability to perform high-capacity post-layout simulations quickly, for fully functional and integrated transceiver IP, with full SPICE accuracy and scalable performance across a multi-compute platform is a real enabler for our efforts to deliver turnkey wireless applications to our customers.”

The Virtuoso Accelerated Parallel Simulator also enables Kaben to run simulations at new levels of abstraction. Kaben engineers can get more coverage across various corners and conditions in less time than required by previous solutions. The simulator can be accessed through a flexible token-based licensing model.

The Virtuoso Accelerated Parallel Simulator delivers the full accuracy of the industry reference Cadence Virtuoso Spectre® Circuit Simulator. Developed to solve the largest and most complex analog and mixed-signal designs across all process nodes, it consists of a combination of proven Cadence simulation technologies and a breakthrough parallel circuit solver, along with a newly architected engine that efficiently harnesses the power of multiprocessing computing platforms. The result is a circuit simulator with an accuracy and use model identical to the Virtuoso Spectre Circuit Simulator, delivering significantly improved single-thread performance and scalable multi-thread performance.

“Kaben Wireless Silicon’s designs are, by necessity, very complex components, and therefore comprehensive simulations are a necessity to help ensure they meet customer specifications,” said Zhihong Liu, corporate vice president of Cadence. “Kaben is seeing firsthand how the Virtuoso Accelerated Parallel Simulator delivers comprehensive simulation, and helps ensure market opportunities are realized.”
Leading Russian Helicopter Engineering Firm Kamov Turns to Dassault Systemes PLM Solutions

15 June 2009

Dassault Systèmes (DS) announced that Kamov Corporation, is starting the deployment of CATIA, Dassault Systèmes’ virtual design solution, and ENOVIA SmarTeam, Dassault Systèmes’ project management and collaboration solution. Kamov is transforming its business with PLM, moving from 2D drawings to a 3D virtual modeling paradigm. Its use of CATIA PLM Express - the Dassault Systèmes’ solution combining the power of CATIA’s design excellence with ENOVIA SmarTeam’s collaborative virtual product information management - will optimize the work of Kamov engineers and designers and speed time to market. It is the largest implementation of Dassault Systèmes PLM in Russian helicopter industry history.

Prior to purchasing CATIA, Kamov designers worked on drawing boards in 2D. Typically, designers involved in one project worked independently and had no connection with each other. The company lacked a unified, collaborative design process, which resulted in excessive interactions among designers and a lengthy documentation approval period. Taking into consideration the growing competition in the market and the need to establish efficient design processes with new helicopter models, Kamov decided to switch to more innovative and collaborative digital design methods.

During the first phase of implementation, nearing completion now, Kamov implemented the CATIA PLM Express module for mechanical product creation. This module provides extended functions for large and complex product design, surface modeling and design of castings parts and is a core component of Kamov’s move to a PLM design authoring strategy. The company also plans to benefit from the implementation of additional dedicated modules for the design and manufacturing preparation of helicopter’ individual parts and components, including composites, sheetmetal, and electrical wire harness. In addition, Kamov deployed the Microsoft® SQL Server 2005 database management system – a productive and intelligent data platform that helps companies reduce time and costs for development and maintenance of applications, and to deliver applicable information to the entire organization. By implementing on Microsoft Windows Server, customers open up possibilities for creating a unified operating environment that is easier and less costly to maintain, providing enterprise performance and scalability with lower deployment and maintenance investments. Dassault Systèmes ENOVIA uses the full potential of the Microsoft Application Platform in order to enable customers to reduce costs and free up resources by optimizing business processes.

“A critical factor in our decision to switch to a 3D design strategy was the ability to not only visualize the designed products, but to reuse that design data in technical calculations and NC machining,” said Alexander Petrov, CEO, Kamov Corporation. “CATIA and ENOVIA SmarTeam’s technical documentation capabilities, remote management and multi-CAD capabilities were key as well.”

“With Dassault Systèmes PLM solutions, we have made an important step towards transforming our business and succeeding in this highly competitive market,” added Petrov. “PLM’s ability to improve assembly quality and provide greater visibility into each project’s economic indicators will help Kamov once again prove its leadership.”

“We are pleased to have been selected by such a famous design bureau as Kamov, which has been defining standards for the helicopter industry for over 60 years,” says Laurent Valroff, director of Dassault Systemes in Russia and CIS. “CATIA, the world leader in virtual authoring software, will allow Kamov to simplify and speed up the design process, reduce the time required for the launch of new helicopter models, and to decrease its costs. Moreover, because CATIA is the worldwide aerospace
industry design standard, this implementation will enable Kamov to work with foreign helicopter companies in a framework of global partnership.”

About Kamov

Kamov JSC (Moscow) is one of the world leaders in helicopter engineering. It deals with design and construction of all types of “KA” helicopters for various purposes: navy, army, and civil. Kamov JSC is the part of the “Helicopters of Russia” corporation.

Leading Ukrainian Aircraft Designer Antonov ASTC and Dassault Systemes Sign Alliance

18 June 2009

Dassault Systèmes (DS) announced that Dmytro Kiva, General Designer of Antonov ASTC (Ukraine), and Bernard Charlès, President and CEO, Dassault Systèmes, signed a strategic partnership at Le Bourget Air Show to speed up the implementation of DS latest PLM solutions.

Since more than 60 years, Antonov ASTC is developing and commercializing aircrafts, known for their structural reliability and economic efficiency, easy maintenance and the ability to use unpaved airfields. Over 1,500 Antonov aircrafts have been exported to more than 70 countries. Beyond designing and building new aircrafts, Antonov ASTC is providing operational and engineering support as an extended service throughout the entire lifecycle of its aircrafts. Today, the company is seeking to drive its operational efficiency and the sustainability of its products to the next level.

“Dassault Systèmes PLM solutions have long-since proven to be the best answer to the Aerospace industry challenges”, stated Dmytro Kiva. “Our cooperation will be of mutual benefit, as we will continue to nurture each others’ know how”.

The project of employing Dassault Systèmes solutions at Antonov ASTC started in 2002 with CATIA V5 and continued in 2007 with the implementation of ENOVIA in order to establish effective business processes. The major advantages of CATIA/ENOVIA software in Relational Design, Collaborative Design and Configuration Management were crucial for Antonov when choosing Dassault Systemes solutions.

The main focus of the companies’ collaboration will now be the implementation of Dassault Systèmes latest PLM portfolio to optimize Antonov aircraft conception processes. This aims to provide Antonov’ experts full access to the high-end aeronautical technologies.

“Our collaboration with Antonov is undoubtedly beneficial for both parts”, comments Laurent Valroff, Director of Dassault Systemes in Russia and CIS. “It is a special honour for us to provide this major aeronautical complex with our technical know-how. We are sure that our solutions will enable the company to make a considerable breakthrough in the design and construction of aircrafts”.

About Antonov ASTC

ANTONOV Aeronautical Scientific/Technical Complex was founded in 1946 by Oleg Antonov, the eminent aircraft designer. Since then, more than one hundred types and modifications of aircraft of various classes and purposes have been designed, including: AN-2, AN-32, AN-38, AN-74, multipurpose aircrafts, transport AN-8, AN-12, AN-22 Anteis, AN-26, AN-70, AN-3T, heavyload AN-124 and AN-124-100 Ruslan, AN-225 Mriya, AN-10, AN-14, AN-24, AN-140, AN-148 passenger aircrafts.
Antonov ASTC and Dassault Systèmes cooperation started in 2002 when the companies carried out a mutual pilot project devoted to the research of medium aircraft’s units design based on CATIA V5R8. Since then, intensive work has been done to create a brand-new design system of “AN” aircrafts based on the systematic implementation of PLM solutions.

**Piaggio Aero Industries Selects Dassault Systèmes V6 for Global Product Development**

15 June 2009

Dassault Systèmes (DS) announced that Piaggio Aero Industries has selected DS V6 as its global product development platform including all required applications to support the company’s business needs and industry leadership strategy.

Piaggio Aero Industries is implementing the ENOVIA V6 platform and DS PLM applications including ENOVIA and CATIA to enable the company and its core risk-sharing partners to collaborate on the creation of new product designs in real time. This approach addresses the complexity of managing a global supply chain by developing a single version of the truth capable of speeding product delivery, reducing operational costs and driving return on investment.

“As the international aerospace industry continues to evolve, our biggest business challenge is ensuring that we have the infrastructure in place to support the transformation of our company from a low volume, niche manufacturer in a best-in-class, global player,” said Antonio Maglione, CTO, Piaggio Aero Industries. “Dassault Systemes’ V6 PLM solution is enabling us to more efficiently compete on a global stage by maximizing real time collaboration to drive sustainable innovation, product development and new programs.”

Known for the development of its P180 Avanti II, Piaggio Aero wanted to transform its isolated business processes into a closely integrated collaborative environment that would provide employees and partners with access to mission-critical intellectual property including design data. The DS V6 solution provided a centralized PLM platform to support product development, communication and data sharing, and decision-making across the product lifecycle of its aircraft.

Michel Tellier, CEO, ENOVIA, Dassault Systèmes says, “Piaggio Aero Industries is demonstrating its industry leadership by adopting DS’s vision and solutions supporting PLM 2.0, or PLM online for all. Whereas other companies are still deploying separate engineering and enterprise solutions, DS’s ENOVIA V6 is the only solution that provides a single, unified collaboration platform for all users In addition, ENOVIA delivers production proven applications built on an SOA environment including regulatory compliance/eco design, integrated global supply chain management, program management and contracts and security management all on one platform that scales from workgroups to support a global enterprise, delivering low TCO and a platform for innovation. When combined with DS CATIA for real-time collaboration and 3D-design, Piaggio is well-positioned to surpass their competitors in delivering next-generation products first — in both business aviation and engine design.”

To enhance the real time component of the implementation, Piaggio Aero also deployed the ENOVIA 3DLive interface as part of the V6 solution. Designed as a web-based 3D application for improved collaboration, 3DLive provides Piaggio Aero’s technical and non-technical employees with 24/7 access to a common environment to share and manage mission critical intellectual property (IP) for the development of design elements and programs. For example, users have the ability to edit the same model virtually in real time over the Internet without physically having to share large, image-based files.
About Piaggio Aero Industries

Piaggio Aero Industries S.p.A. is the only company in the world that is active in the design, manufacturing and maintenance of both aircraft and aircraft engines. Leading technologies, expertise and commitment, combined with a constant attention to environment, style, innovation and comfort are the embodiment of Piaggio Aero Industries' success.

PTC Extends Leadership in Aerospace & Defense with Samsung Thales Corporation’s Selection of Pro/ENGINEER in Competitive Benchmark

16 June 2009

PTC announced that Samsung Thales Corporation, a leading Korean defense company, has selected Pro/ENGINEER®, PTC’s parametric 3D CAD/CAM/CAE solution as its next generation design solution in a competitive benchmark. With this decision, Samsung Thales, who had previously standardized on PTC Windchill® as its product lifecycle management (PLM) solution, expands its use of the PTC® Product Development System.

Samsung Thales selected Pro/ENGINEER to provide a global design process optimized according to international standards as a means to secure global competitiveness, displacing its previous CAD system. Increasingly dissatisfied with the vendor’s level of investment and commitment to its existing tool, Samsung Thales decided to conduct a competitive benchmark earlier this year to select its next generation 3D CAD solution. During the benchmark, PTC Pro/ENGINEER outperformed other solutions both in terms of technical validation and support. Samsung Thales cited the simple and easy to adopt Pro/ENGINEER user experience and powerful capabilities as key influencers in its decision to standardize on Pro/ENGINEER.

“Samsung Thales has a long term relationship with PTC through the implementation of Windchill as its standard PLM solution,” said Seung-Cheol Baek, senior manager of Samsung Thales. “Windchill provides Samsung Thales with powerful, Web-based support for key product development processes in a single technology architecture and execution environment. The CAD solution benchmark was an independent assessment specifically focused upon usability and functional capabilities. Based upon this criteria, PTC Pro/ENGINEER was selected as the solution that best meets Samsung’s business needs. We look forward to expanding our strategic partnership with PTC by implementing Pro/ENGINEER and working with PTC Global Services to maximize the value we derive from the solution,” Baek added.

“Pro/ENGINEER and Windchill together make an unbeatable product development system for our customers who are facing continuing pressures to be world class in efficiency and innovation,” said Brian Shepherd, executive vice president, product development, PTC. “We are pleased to extend our partnership with Samsung Thales to help them achieve their product development process improvement goals.”

Russia’s United Aircraft Corporation Selects Siemens PLM Software’s Teamcenter and NX Software

17 June 2009
Siemens PLM Software and United Aircraft Corporation (UAC) of Russia, announced a long-term strategic relationship in which UAC intends to standardize on Siemens PLM Software’s Teamcenter® software for its product data management (PDM) platform and adding NX™ software as one of its basic computer-aided design, manufacturing and engineering (CAD/CAM/CAE) applications.

Siemens PLM Software and UAC made the announcement in conjunction with the Paris Air Show in Le Bourget, France. The newly announced agreement builds on the long standing relationship and outlines the principles and primary areas of cooperation between the companies.

Siemens PLM Software’s solutions have been successfully used in many UAC projects and key programs, such as the Sukhoi SuperJet 100, in order to enhance collaboration and optimize workflows. (See related release)

“The modern market is raising demands for our products and to meet the demand, we must focus on our processes and making them as efficient as possible,” said Alexey Fedorov, president and chairman of the executive board, United Aircraft Corporation. “As our companies have shifted from supplier-client relations to a partnership, we are now able to build more efficient lifecycle management systems for our aviation programs. By standardizing on Teamcenter and adding NX, we are able to make high quality modern aircraft using a wide-scale engineering and production collaboration.”

“No matter where a company is located, fast and successful development requires efficient technologies that support a design anywhere; build anywhere demanded by today’s marketplace ,” said Dr. Helmuth Ludwig, president, Siemens PLM Software. “Our leading position in the aerospace industry helps us understand the issues and challenges UAC grapples with daily. In any program, managing change throughout the lifecycle while meeting production requirements is a difficult task, especially in a complex environment. We are happy to continue working with UAC look forward to a long and successful future together.”

**About UAC**

JSC “UAC” was established according to the Decree #140 “On Joint Stock Company “United Aircraft Corporation” signed by Russian Federation President V. Putin on February 20, 2006. The corporation was incorporated on November 20, 2006. UAC’s priorities include design, manufacture, sales, maintenance, upgrades and utilization of civil and military aircraft.

The size of UAC’s chartered capital is 110.28 billion rubles; Russian Federation holds 91.34 percent shares of the corporation. UAC is formed by the following companies: JSC “Sukhoi Aviation Holding Company”, JSC “Irkut Corporation”, JSC “Komsomolsk-on-Amur Aircraft Production Association named after Yury Gagarin”, JSC “UAC – Transport Aircraft”, JSC “Nizhny Novgorod Aircraft building plant “Sokol”, JSC “Novosibirsk Aircraft Production Association named after Valery Chkalov”, JSC Tupolev, JSC “Ilyushin Finance Co.”, JSC “TAVIA”.

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**Shibaura Institute Of Technology Provides Campus-Wide Access To MATLAB And Simulink Products**

16 June 2009

The MathWorks announced that the Shibaura Institute of Technology in Japan has adopted the country’s first Total Academic Headcount (TAH) license for the MATLAB and Simulink product families. This licensing agreement allows all students and faculty to access MATLAB and Simulink products from on-
Shibaura Institute of Technology began using MATLAB and Simulink for its control engineering studies in 1994. Since then, these products have been widely adopted throughout the university in programs ranging from specialized undergraduate studies to control engineering studies at the graduate level.

“I am pleased that all students and faculty members have access to MATLAB and Simulink products,” said Tatsuro Yamazaki, general manager of the Center for Science Information at Shibaura Institute of Technology. “We hope this will be a major step toward realizing our goal of providing a model education and research environment based on information and communication technology.”

A MathWorks institution-wide TAH license provides all university students and professors with ready access to the latest versions of MathWorks software. In addition to the core products of MATLAB and Simulink universities can choose products that cover a variety of application areas, including image processing, control systems, statistics, finance, signal processing, mathematics, instrument control and data acquisition, and computational biology.

“Our objective is to help universities attain their academic goals,” said Ken Dunstan, Asia Pacific education manager at The MathWorks. “Shibaura’s TAH implementation ensures that its students are able to benefit from industry-standard technology tools through wide-scale use in studying, teaching, and research. As adoption of MathWorks products continues to grow across multiple industries, their widespread use in universities helps to ensure graduates enter the workforce with the skills that employers are seeking.”

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**SHI-ME Launches its First Ship Designed with AVEVA Marine**

15 June 2009

Sumitomo Heavy Industries Marine & Engineering (SHI-ME) Co., Ltd., a wholly owned subsidiary of Sumitomo Heavy Industries Ltd., has successfully delivered the first ship the yard designed using AVEVA Marine.

SHI-ME is one of Japan's leading shipyards and has been building ships for over 110 years. It was one of the first yards in Japan to subscribe to AVEVA Marine. SHI-ME started designing the 105,000 DWT Jasmin Joy in April 2007 and handed the Oil Tanker over to the owner in early April 2009.

Masao Takekawa, Director, SHI-ME, said:

"Quality and efficiency of our design have been improved with AVEVA Marine. We at SHI-ME practice the 'Toyota Production System' concept, which will be enhanced with the aid of AVEVA Marine. We believe these efficient solutions are key ingredients to success in today's competitive and very challenging shipbuilding world."

Peter Finch, President, AVEVA Asia Pacific, said:

"Since AVEVA launched AVEVA Marine, over 30 customers in Asia Pacific have subscribed to this world-leading set of solutions. AVEVA Marine has been contributing significantly to the improvements in quality and productivity in these shipyards."
**SINOPEC Standardizes on Intergraph® SmartPlant® 3D Design and Expands Use of SmartPlant Enterprise Solutions**

16 June 2009

SINOPEC Engineering Inc. (SEI), a leading engineering, procurement and construction (EPC) company and a subsidiary of China Petroleum & Chemical Corporation, has standardized on Intergraph® SmartPlant® 3D design and engineering software and expanded its use of the SmartPlant Enterprise solutions suite.

A long-time Intergraph customer, SEI standardized on SmartPlant 3D after successful completion of an initial pilot project and then a production assignment designed to test the implementation and integration through Intergraph’s SmartPlant Enterprise solution. This project called for the integration of multiple engineering disciplines such as process, piping, structural, instrumentation and electrical and resulted in a substantial reduction in project duration while providing increased productivity. The production project also demonstrated that SmartPlant 3D could more efficiently design and maintain the piping database, layout equipment, instruments, structure and cable trays.

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

Intergraph’s SmartPlant 3D is the industry’s only next-generation 3D design system for the process, marine and power industries. SmartPlant 3D can deliver substantial productivity savings in key plant design disciplines compared to conventional software — and even more when it is integrated using the SmartPlant Enterprise solutions suite as SEI now is doing. In addition, SmartPlant 3D can cut the time taken to check P&ID consistency and accuracy between the 2D schematic model and 3D digital plant model by more than 90 percent.

SEI also has adopted other SmartPlant Enterprise solutions including SmartPlant Materials, SmartPlant Instrumentation, SmartPlant P&ID and SmartPlant Foundation, which have enhanced the synergy among the project processes to help them provide high quality services to their clients.

“We expect Intergraph’s SmartPlant Enterprise and SmartPlant 3D design solutions to play an important role in our engineering design and construction projects,” said Sun Lili, vice president and chief information officer for SEI. “As we move forward, Intergraph’s industry-leading software will continue to power our innovations and help us solve new challenges.”

**About SEI**

China Petroleum & Chemical Corporation ("Sinopec Corp.") is one of the largest integrated energy and chemical company in China. The scope of its business mainly covers oil and gas exploration and production, extraction, pipeline transmission and marketing; oil refining; production, marketing, storage and transportation of petrochemicals, chemical fibers, chemical fertilizers and other chemical products; import, export and import/export agency business of crude oil, natural gas, refined oil products, petrochemicals, chemicals, and other commodities and technologies; research, development and application of technology and information. The Company is China's largest producer and supplier of refined oil products (including gasoline, diesel and jet fuel, etc.) and major petrochemical products.
CIMdata PLM Industry Summary

(including synthetic resin, synthetic fiber monomers and polymers, synthetic fiber, synthetic rubber, chemical fertilizer and petrochemical intermediates). It is also China’s second largest crude oil producer.

SEI is a subsidiary of China Petroleum & Chemical Corporation and a global engineering company engaging in feasibility study, technical consultation, geo-technical investigation, engineering, procurement, construction management & supervision, EPC contracting, project management, technical services.

Suncor Becomes the 300th Intergraph® SmartPlant® Foundation Customer
16 June 2009

Just one year after reaching the 200th customer mark, rapid industry adoption of Intergraph®’s SmartPlant® Foundation has pushed sales past the 300th customer milestone with Suncor Energy Inc.’s selection of the engineering information management solution.

Suncor, a major North American energy producer and Intergraph customer, selected SmartPlant Foundation to manage non-Intergraph data - Suncor’s legacy of 3D models - for oil and gas development projects. The sale marks a 50-percent growth rate for SmartPlant Foundation in a single year.

SmartPlant Foundation is the ISO15926 compliant document and data management solution within SmartPlant Enterprise, an integrated solutions suite that provides full design, construction, materials and engineering data management capabilities needed for the creation, safe operation and maintenance, and capital Plant Lifecycle Management (cPLM) of large-scale process, power, marine and offshore projects.

SmartPlant Foundation’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. The solution permits electronic management of all project and plant engineering information, integrating data on the physical asset, work processes and regulatory and safety imperatives to facilitate enhanced global decision support capabilities.

Taiwan’s Industrial Technology Research Institute Achieves Digital Video Tuner Tapeout Success with Cadence Virtuoso IC 6.1
15 June 2009

Cadence Design Systems, Inc. announced that the Industrial Technology Research Institute (ITRI), a non-profit organization that serves to strengthen Taiwan’s technological competitiveness, used Cadence® Virtuoso® IC 6.1 technology to tape out a low-power DVB-H (digital video broadcasting – handheld) RF tuner chip. The ITRI has licensed this developed RF circuit design to several third parties as part of its effort to promote technological innovation in Taiwan.

The ITRI deployed Virtuoso IC 6.1 technology to accelerate the design of its DVB-H RF tuner chip, which was based on TSMC’s 65-nanometer process and used the Virtuoso IC 6.1 process design kit. The Virtuoso technology includes comprehensive advanced features like a powerful built-in toolbox, which enables bus creation and high-level editing to dramatically improve layout productivity and enhance the
post-simulation result. Designers also benefit from the user-friendly GUI and the ability to use existing SKILL code in the IC 6.1 design environment without extra effort or repetitive manual work. The result is a fast, accurate path to differentiated silicon.

“Our DVB-H RF tuner, which provides a low-power solution, is well-suited to the mobile phone and other portable devices, and Cadence Virtuoso IC 6.1 technology helps to drive our goal of continuing to enable the Taiwan semiconductor market,” said Dr. Cheng-Wen Wu, general director of SoC Technology Center, ITRI. “As the leader in custom design solutions, Cadence has provided its unique technology and expertise to enhance the Institute’s design capabilities. This solution will help us to continue expediting the development of new industrial technology.”

“We are glad to see that through Cadence technology in custom design, the ITRI is on the fast track of wireless broadband communication design development for the digital television field,” said Chi-Ping Hsu, senior vice president of research and development for the Implementation Group at Cadence. “We are confident our technology can bring to many more customers the high value and high productivity that the ITRI is benefiting from right now.”

Universitas Indonesia Deploys ANSYS Academic Products for Teaching and Research

15 June 2009

ANSYS, Inc. announced that the Universitas Indonesia (UI) has chosen to deploy Ansoft™ software from ANSYS within its Depok Campus (West Java), Indonesia. UI is one of the top universities in Indonesia focusing on engineering teaching and research. The Department of Electrical Engineering, UI will use Ansoft academic products from ANSYS for teaching programs and research activities in the telecommunications field. The selected software consists of a high-value technology bundle that features HFSS™ technology, enabling students to address high-frequency (HF), radio frequency (RF) and signal integrity (SI) problems.

“UI is committed to becoming a world-class teaching and research institution, as stated in its vision and mission statement. Deploying Ansoft academic products from ANSYS allows our students to be trained on a cutting-edge commercial electromagnetic simulation tool set along with the underlying numerical methods and physics, making them globally competitive and ready for industry,” said Professor Eko Tjipto Rahardjo, leader of the Antenna Microwave and Propagation Research Group (AMRG), Department of Electrical Engineering, Universitas Indonesia. “Using HFSS technology — which is the gold standard for high-frequency electromagnetics in the electronics industry — along with its linkages to mechanical and fluid dynamics solutions from ANSYS will enhance our research capabilities for better collaboration between UI and other world-renowned universities and industry.”

UI's Department of Electrical Engineering offers courses on antenna propagation and microwave circuits in the sixth and seventh semesters, respectively. By using HFSS to learn computational techniques in electromagnetics as well as commercial software packages widely used for high-frequency electronic design, students will have a better understanding of 3-D finite element analysis, adaptive and automatic meshing techniques, and accuracy and convergence in the simulation of 3-D structures such as antennas, circulators, couplers and connectors. The engineering simulation tools offer a real-life approach to design tradeoffs.

“A well-trained and industry-ready work force is one of the key obstacles that customers in Indonesia and other ASEAN (Association of Southeast Asian Nations) countries face when deploying engineering
simulation to become globally competitive,” said Dr. Zol Cendes, chief technology officer and general manager at Ansoft. “UI is one of Indonesia's leading teaching and research universities with an eye toward the future: It recognizes that academic products from ANSYS provide unmatched value and commercial-grade technology. Our relationship with UI will help ensure that there is an ANSYS® trained workforce available to the country’s domestic customers and multinational corporations in the aerospace, automotive, industrial machinery and electronics industries.”

ANSYS offers a highly scalable range of engineering simulation software — including electronic design, mechatronic, structural mechanics, fluid dynamics, explicit dynamics and electromagnetics — for academic teaching and research applications around the globe. For more information, visit [http://www.ansys.com/academic](http://www.ansys.com/academic).

**About Universitas Indonesia and the Department of Electrical Engineering**

Universitas Indonesia (UI) is a modern, comprehensive, open-minded, multi-culture, and humanism campus that covers wide arrays of scientific disciplines.

The Department of Electrical Engineering, Faculty of Engineering, Universitas Indonesia manages Regular Undergraduate Program of Electrical Engineering (S1), Regular Undergraduate Program of Computer Engineering (S1), Undergraduate International Program (S1), Graduate Program (S2) and Post-Graduate Program (S3). Currently there are several research activities conducted in the department, namely microwave and antenna propagation, wireless and mobile communication, signal processing, renewable energy and microgrids, energy management and economics, multimedia and networking, high voltage and materials technology, power electronics and electric devices, electric power systems, microelectronic and sensor devices, optics and remote sensing, and control and robotics.

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**Volkswagen Racing’s Continued Success with Siemens PLM Software and ESTEQ PLM**

18 June 2009

South Africa - ESTEQ PLM, the sole distributor of Siemens PLM Software in the region and Volkswagen Racing have renewed their sponsorship agreement for another three years, up for renewal again in 2012. The Volkswagen Racing Team has been using Siemens PLM software since the inception in 2005 of the S2000 class for vehicle design and more recently, data management and engineering change as part of the vehicle development process.

The CAD system in use at Volkswagen Racing is ‘NX’ from Siemens PLM Software and is widely regarded as one of the world’s leading CAD/CAM/CAE tools for engineering development.

To carry out their engineering configuration management and engineering change as well as data management, Volkswagen Racing has recently implemented Siemens’ Teamcenter solution to meet these needs.

These four-wheel drive Volkswagen Polos have been consistent performers in the South African National Rally circuit winning the championship every year since the inception of the S2000 class in 2005.

This performance looks set to continue as the team amasses ever-more points in the 2009 season. Driver Hergen Fekken and navigator Pierre Arries currently lead the Volkswagen entries.

The drivers and navigators know that the skill they display would be worthless without the dedication
and attention to detail shown by their technicians and development staff.

The combination of skills in the design office and manufacturing workshops, the software technology they use to develop and validate these designs and the exceptional ability of the drivers and navigators during the rally stages is what makes the Volkswagen team so successful.

This is not only the case in the top-class S2000 category, but also in the A5 class where the Volkswagen Racing team leads with their Volkswagen Citi Golf entries - Here driver Gugu Zulu and navigator Carl Peskin currently lead.

Mr. Andre van der Watt, VWSA Motorsport Manager: “I am delighted at the renewal of another 3 year partnership with ESTEQ and Siemens PLM. Our rally championship success, based on ESTEQ’s total engineering solutions, has been the result of this valued sponsorship agreement”

Cobus Oosthuizen, CEO of ESTEQ: “We congratulate the Volkswagen Racing team for their success. We are thrilled to be involved with Volkswagen Racing in this way. They have proved in their environment what our customers prove in the market on a daily basis, that Siemens PLM Software technology dominates the competition. Good luck with the rest of the 2009 Championship!”

The 2009 Rally Championship still has four more rallies taking place, with the final in Gauteng during October.

ESTEQ is the sole distributor of Siemens PLM Software in South Africa.

ESTEQ has offices in Gauteng and the Western Cape. To find out more about ESTEQ and Volkswagen Racing’s partnership, please contact Lisle Hansen at 012 809 9500 or visit http://plm.esteq.co.za/ For more information on Volkswagen Racing in South Africa visit: http://www.vw.co.za/about/racing/

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William A. Berry & Son Announces Paperless Construction Project Results

16 June 2009

Today, construction management firm William A. Berry & Son, Inc. (Berry) announced impressive results in its quest for a paperless project. Using Bluebeam PDF Revu, Berry, project architect Perkins+Will and all sub-contractors electronically redlined over 42,000 pages of construction documents in PDF – making the project almost completely paperless. By reviewing these documents electronically, the team reduced the project’s carbon footprint by 1,557 lbs of CO2. Based on this achievement in sustainable communication, Berry is applying for a LEED Innovation & Design Credit from the United States Green Building Council (USGBC).

Berry achieved this milestone by deploying Bluebeam PDF Revu, a PDF creation, markup and editing solution, to the entire project team working on the Overlook Center. Berry managed the core and shell construction, and is currently managing the fit out of this 100,000 square foot building in Waltham, MA.

Developed by Bluebeam Software, Revu was selected due to its specialized features for architecture, engineering and construction (AEC) professionals. Unlike other redlining tools, Bluebeam PDF Revu includes industry standard markups and takeoffs, an exclusive Tool Chest for storing custom annotations, a drawing comparison feature, integrated tracking and tablet PC compatibility. Combined, these features enabled all project documents –submittals, RFIs, punch lists and more – to be reviewed and redlined in a light-weight, universal file format.
“Bluebeam was instrumental in helping us review and respond to project documents electronically,” said Jay Bradley, Project Manager at Perkins+Will. “We found that Bluebeam was an essential part of streamlining and simplifying the construction administration process. The inherent simplicity of utilizing Bluebeam technology was key in helping achieve a cost effective, time sensitive, and sustainable solution to our daily work output.”

To ensure project-wide adoption, Berry and Bluebeam collaborated to train its staff, the Perkins+Will architectural team and sub-contractors on best practices for PDF markup and editing. As a result, Berry created a blueprint for paperless workflows that is being replicated on all of its future projects.

“Bluebeam PDF Revu helped us transform the way we manage project communication and its unique tools for AEC allowed us to design an electronic workflow that is scalable,” said Jake Chace, Senior Project Manager at William A. Berry & Son. “We’re already using this process on current green building projects to eliminate paper usage and distribution, and hope that the example we’ve set will be recognized by the USGBC.”

“The paperless project has been the holy grail of the construction industry,” said Richard Lee, CEO of Bluebeam Software. “Berry has proven that it is possible to go virtually paperless and engineer an electronic workflow that can be duplicated using Bluebeam technology. By recognizing paperless workflows in the LEED standard, the USGBC can incentivize green builders to follow Berry’s lead in process sustainability, and affect real and significant change industry wide. Using Berry’s results as an example, we estimate that the USGBC would be responsible for the reduction of over 25 million tons of CO2 emissions annually.”

Berry has submitted a LEED Silver application for the Overlook project and is currently awaiting notification from the USGBC.

About William A. Berry & Son, Inc.

Founded in 1857, William A. Berry & Son, Inc. is one of the nation’s oldest construction companies. Berry has an extraordinary portfolio of institutional and corporate construction projects throughout the Northeast.

About Perkins+Will

Since 1935, Perkins+Will has collaborated with globally recognized clients to set worldwide standards for design innovation and exceptional service. Their practice spans Corporate + Commercial + Civic, Aviation, Healthcare, Higher Education, K-12 Education, and Science + Technology. Their areas of expertise include architecture, interior design, branded environments, planning + strategies, and urban design.

Product News

ANSYS Releases SIwave 4.0

16 June 2009

ANSYS, Inc. announced the latest release of SIwave™ software. Part of the Ansoft family of products, version 4.0 of this technology includes new features for signal-integrity, power-integrity and electromagnetic compatibility testing. It includes numerous enhancements including an improved...
desktop graphical user interface with new post-processing of results, solver enhancements that provide accurate solutions beyond 10 Gb/s, and automation that links SIwave electromagnetics with circuit simulation using Ansoft Designer® and Nexxim®. Additionally, a new link between electromagnetics and thermal analysis has been created for board and package thermal effects via ANSYS® Icepak® software. The link enables accurate characterization of additional heating due to copper-resistive losses that engineers have previously estimated or ignored completely.

SIwave technology is an electromagnetic field solver that performs broadband signal- and power-integrity analyses along with DC voltage and current analysis for complete boards and packages. SIwave software offers comprehensive electromagnetic interference and compatibility analyses, and it has the unique ability to couple board and package electromagnetic fields with HFSS™ technology for complete system-level simulation.

“SIwave 4.0 will allow designers to continually push the envelope of high-speed design, deliver first-in-class performance, and go beyond the 10 Gb/s design barrier that exists in high-performance computing,” said Dr. Zol Cendes, chief technology officer and general manager at Ansoft. “These advancements in electrical simulation plus the coupling between SIwave and ANSYS Icepak provide a comprehensive solution for our customers.”

SIwave features an enhanced graphical user interface that makes component management easy and allows simultaneous analyses and dynamic zooming. A new reporter feature makes the analysis of results easy and fast. Improved solver enhancements include smart coupling algorithms with an advanced via solver combined with non-uniform (hexagonal and trapezoidal) trace cross-sections that provide accurate solutions beyond 10 Gb/s. A new co-planar algorithm within the solver extends accuracy for difficult package designs, and a new field solver calculates trace characteristics on the fly. Enhanced near- and far-field solvers provide an unmatched solution to electromagnetic interference and compatibility problems for data-dependent fields when linked to circuit simulation using Ansoft Designer® software.

The latest release includes multiple automation enhancements that ease design flows by removing tedious manipulations that, most often, are done manually. Automated error checking and geometry correction have been implemented within SIwave software. Schematic creation, transient and QuickEye™ analyses setups have been automated for circuit simulation driven by electromagnetics when using SIwave with Ansoft Designer. The technology now also allows native merging of packages to boards. SIwave also allows automated port creation for Apache RedHawk chip power modules based on the provided header information.

“Version 4.0 of SIwave has added significant improvement to our design capabilities, making it an invaluable analysis tool for signal and power integrity applications. It's a significant step toward the goals of first-pass system success and reduction of the number of fab spins (design iterations),” said George Peterson, lead signal integrity engineer at Jabil Technology Services - Jabil, Inc. Headquartered in Florida, United States with facilities in 22 countries, Jabil is an electronic product solutions company providing comprehensive electronics design, manufacturing and product management services to global electronics and technology companies.
BlueCielo ECM Solutions announced that it has signed an OEM agreement with Oracle – a move that will allow its customers to benefit from the enhanced visualization capabilities of Oracle’s AutoVue 2D Professional in BlueCielo’s pioneering InnoCielo solutions.

AutoVue 2D Professional will be embedded into the entire InnoCielo suite of ECM solutions from the upcoming 2009 release onwards. With the introduction of AutoVue 2D Professional into InnoCielo 2009, only one visualization product will need to be deployed, where previously multiple viewers were needed to support more demanding customer environments. This will result in a less complex IT configuration and enable a lower total cost of ownership, in addition to delivering outstanding viewing functionality that will help streamline collaboration across the global enterprise, improve productivity, reduce errors and accelerate time to market.

“BlueCielo has a firm commitment to providing our customers with cutting-edge technology to enable them to optimize their engineering processes and to stay ahead in the current demanding economic environment,” says Martijn Janmaat, BlueCielo’s CEO. “Through our OEM agreement with Oracle, we are delighted to be able to provide our entire client base and future customers with AutoVue’s best of breed visualization technology at exceptional price/performance conditions. This integration of the AutoVue technology further underlines the leadership position of the BlueCielo solutions portfolio.”

"Oracle is pleased to enter into an OEM agreement with BlueCielo. We are excited to provide InnoCielo users worldwide with the opportunity to benefit from AutoVue, Oracle’s state-of-the-art engineering and CAD visualization, digital markup and collaboration solutions,” says Sami Bannour, Oracle Vice President, AutoVue Development. “We are confident that the pairing of AutoVue enterprise visualization and Innocielo ECM solutions will enable customers to better leverage their engineering and technical content and deliver improvements in their engineering centric business processes.”

With AutoVue 2D Professional, InnoCielo customers will benefit from the most up-to-date and high fidelity viewing of Microsoft Office and 2D CAD formats including AutoCAD, MicroStation, SolidWorks drawings, Smartsketch, IGES 2D and SolidEdge draft; features such as markup, commenting, redlining, magnifying glass, and more for all supported file formats (Microsoft Office, Adobe PDF, graphic files and all enhanced 2D formats); precise 2D measurements with 2D measurement markups displayed on screen and document compare for graphic (CAD) formats, advanced printing options and more.

Support for additional AutoVue 2D Professional features, including web based viewing, is scheduled to become available in future releases of InnoCielo Meridian Enterprise, BlueCielo’s flagship solution employed by owner/operators across multiple industries such as energy, oil and gas and pharmaceuticals to effectively manage their engineering and asset information.

For advanced 3D visualization functionality, BlueCielo will offer the possibility to upgrade to AutoVue 3D Professional Advanced, which supports all the formats supported by AutoVue 2D Professional, and also provides additional visualization and markup capabilities for 3D CAD formats such as Autodesk Inventor, CATIA, Pro/ENGINEER, SolidWorks and more.

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CoWare Reduces Design Cost for Complex ARM AMBA Platform Optimization
15 June 2009
CoWare®, Inc. announced the availability of a new Interconnect and Memory Subsystem Performance
Optimization design flow for CoWare Platform Architect, enabling early and efficient optimization of next-generation system-on-chip (SoC) architectures using ARM® AMBA®-based virtual platforms.

CoWare virtual platforms for architecture design are the virtualized representation of an electronic system used for the purpose of system-level performance analysis and architecture optimization. The new flow provides system architects with the ability to efficiently capture the dynamic performance workloads of each application subsystem of a multi-function SoC in the form of transaction traffic, months before software is available and with minimum modeling effort using a well-defined, repeatable methodology.

CoWare is a leading global supplier of electronic system virtualization solutions for software development, platform architecture design and platform verification of ARM-based platforms. CoWare combines ARM instruction-accurate processor models and implementation-accurate Carbonized ARM models within one standards-based SystemC design environment. The CoWare solutions enable engineers to take full advantage of the capabilities of the entire range of ARM system elements in the context of the actual design; from ARM memory controllers and interconnects to application and embedded processors and embedded firmware.

“CoWare has been the leader in electronic system virtualization solutions for ARM technology-based platforms for more than 10 years now,” said Johannes Stahl, vice president of marketing and business development at CoWare. “This new flow captures the production-proven design methods successfully deployed by CoWare customers to analyze and improve next-generation system performance and cost sooner by using transaction traffic generation, while retaining full support in the same environment for the HW-SW performance validation of early architectural decisions using cycle-accurate processor models and software, as they become available throughout the development process.”

**CoWare Capabilities Enabling the New Flow**

The new Interconnect and Memory Subsystem Performance Optimization design flow for CoWare Platform Architect is enabled by CoWare’s advanced system-level design features, including:

- Trace- and task-driven generation of transaction traffic, enabling creation of performance workload models reflecting the application performance workloads of the multi-function use-cases for interconnect and memory subsystem analysis;

- Integrated graphical environment for transaction tracing and statistical port analysis enabling platform model validation and system-level performance measurement of transaction count, transaction throughput, and transaction latency;

- Support for simulation and analysis of multiple TLM protocols at mixed levels of abstraction, including TLM-2.0 and cycle-accurate AHB, APB, and AXI communication protocols, and user-defined data collection based on SCV transaction recording;

- Scripting support for simulation sweeping of traffic scenarios and IP parameters across multiple simulations enabling design space exploration, sensitivity analysis using spreadsheets, and root cause analysis;

- CoStart services for rapid end-user ramp-up with AXI-based designs.

**Availability**

CoWare Platform Architect tool and IP model enhancements and CoWare CoStart services are available immediately for use with the 2009.1.1 release.
Dassault Systèmes and Microsoft partner to Help High Tech Companies expand Product Lifecycle Management Communities

10 June 2009

Dassault Systèmes (DS) announced that it has expanded its successful partnership with Microsoft to offer high tech companies a more effective way to collaborate throughout the product development process. By pairing Dassault Systèmes ENOVIA V6 PLM solutions with Microsoft’s SQL Server 2008 technology, users will have the power to increase organizational efficiency and collaboration. The combination of ENOVIA V6, which is based on a service-oriented architecture (SOA), and Microsoft’s SQL Server 2008 enables customers to rapidly deploy out-of-the-box applications helping to improve time to market and profitability by reducing development time and costs.

To stay ahead of global competition, manufacturers must create a collaborative environment that brings together all of the key functions including engineering, manufacturing, marketing and sales teams. By integrating ENOVIA V6 with Microsoft SQL Server and the suite of Microsoft Office tools, users will have desktop access to real-time information and project details as needed, enabling employees to work more productively. In addition, Microsoft’s Unified Communications technologies combined with the ENOVIA 3DLive application, provide collaboration tools that enhance the user’s ability to work seamlessly in 3D, regardless of their geographical location or function.

“Most organizations today need to collaborate cross-functionally, bringing together marketing, product planning, customers and outside suppliers to develop high-quality, winning product designs and doing so in a manner that helps products get out to market faster,” said Rob Shinno, global director, Hi-Tech Strategy & Solutions ENOVIA R&D Dassault Systèmes. “By working together, Dassault Systèmes and Microsoft are able to offer an affordable alternative to more expensive, complex data base solutions—giving companies both large and small the power to easily collaborate using the familiar Microsoft tools that are ubiquitous in business.”

The strategic relationship between Dassault Systèmes and Microsoft enables users to enjoy a number of benefits, including:

• Ease of use through integration with the common Microsoft tools and programs that are universal in the business community, including Excel for extracting, charting and presenting data; Microsoft Word for documentation of design updates; and Microsoft Unified Communications for video conferencing and IM Chat.

• Synchronized development between packaging, product, operations and R&D to reduce critical errors and the associated costs of poor collaboration.

• The ability to leverage industry-specific PLM best practices and capabilities off the shelf, to speed deployment and cut time to ROI.

• A solution that can grow alongside any business, as the technologies integrate easily with existing or legacy software and can be used by employees with no programming skills.

“We continue to develop our long-standing relationship with Dassault Systèmes, as we share the common goal of reaching more users in an organization,” said Don Richardson, director of global PLM strategy at Microsoft. “By offering customers applications that are easy to implement and use, we will ultimately improve productivity while also lowering total cost of ownership. This partnership will enable
customers to stay ahead of the competition with unparalleled integration and seamless collaboration across the enterprise.”

Delcam CRISPIN Adds Anatomical Options to Orthotics Design Software

16 June 2009

Delcam CRISPIN has added options for the creation of anatomical orthotics to its OrthoModel software for the design and manufacture of orthotic insoles. The new version also includes a new method to define heel lift, improved arch definition, greater flexibility when creating bespoke orthotics from standard models, and enhanced graphics and workflow to make the system even easier to use. All of the new functions have been added in response to requests from the various orthotics companies that are supporting the development of the system.

OrthoModel provides a complete solution for the design of high-quality insoles for both the comfort and medical markets. The entire process is driven by a series of easy-to-use menus, which incorporate terminology and imagery familiar to the industry to describe the various features of the orthotic. This makes it easy for medical and footwear professionals to use the software, even those having no previous computer experience. OrthoModel is completely “open” and can take data from any scanning system or use manual measurements from a prescription.

The new anatomical option allows scan data to be taken from part or all of the plantar scan representing the chosen sections of the sole and heel of the foot. This shape can then be reproduced exactly in the orthotic design to give the optimum contact area between the base of the foot and the device, and so spread the weight of the body as widely as required.

Most importantly, a smooth blend can be created between the contact area of the orthotic and the inside of the shoe, ensuring that the foot is matched correctly with the surface of the orthotic while walking. This is an essential requirement for patients with diabetes, as well as giving improved results for comfort orthotics.

The new option for heel lift gives extra versatility to the software. It can be used to compensate for different leg lengths in the patient or to create orthotics for high-heeled shoes.

The arch is one of the most critical areas within the foot. If it does not flatten sufficiently, it absorbs shock poorly, putting extra stress on the foot, especially on the heel. Alternatively, if the arch flattens too much, the foot will be unstable and the bones can become misaligned. Improved definition in this area within OrthoModel will give a more effective and more comfortable orthotic.

Many orthotics are purely accommodative and so do not require such high levels of customisation. In these cases, the designs are often created from a range of base models that can be adapted with add-ons or cut-outs for the individual patient. This approach has been further supported in the new release with an expanded library of components, plus the ability for the user to add their own shapes to this library.

In addition, it has been made possible for the design of these styles to be “batched.” This allows the operator to input prescriptions for a number of patients, together with the associated base model for each case. The software can then generate all the required designs in a continuous series of calculations. This process can even be carried out overnight, to give maximum productivity for the designer.
Delcam Launches New PowerINSPECT Inspection Software

15 June 2009

Delcam has launched a new version of its PowerINSPECT inspection software for checking the dimensions of parts, prototypes and tooling against CAD data. The new version includes a range of enhancements to make the software easier and more flexible to use.

The most obvious change in the new version 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.

It has also been made easier to add or delete points during an inspection from a set of measurements defining any feature. Points might need to be added to collect extra data from a suspect area, while “rogue” measurements can be deleted to prevent them affecting the overall inspection result.

A number of improvements have been made to the ways in which PowerINSPECT can use data within geometric features. The attributes of each point making up the sequence will be able to be displayed separately, either as the renowned PowerINSPECT dots or as needles proportionate in length to the extent of the deviation. This will make it easier to see where the problems areas are, especially in bigger parts with large numbers of measurements.

It will also be possible to use individual points within more than one feature. For example, two sets of points could be used to check the circles at the top and bottom of a cylinder, and then combined to produce the inspection report for the cylinder itself.

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

One simple enhancement that could save considerable time is the ability to halt an inspection during the measurement process. This will allow the operator to produce a report as soon as the part is found to be out of tolerance rather than having to complete the full sequence of measurements. It will be particularly helpful when inspecting a long series of more complex components in a production environment.

PowerINSPECT’s easy-to-understand reporting has always been one of its popular attributes. This has been further improved with the ability to display an image of the part on each page of the report showing just the measurements listed on that page. This will make it easier to analyse the results from large sets of data, for example, results collected with laser scanners.

Developers Release More Than 70 Companion Products for Autodesk 3ds Max 2010 and Autodesk 3ds Max Design 2010

18 June 2009

Autodesk Developer Network (ADN) Sparks members have released more than 70 companion products for Autodesk 3ds Max 2010 and Autodesk 3ds Max Design 2010 modeling, animation and rendering software. ADN Sparks developers provide tools for artists, designers and engineers that enhance creative capabilities and workflows for digital entertainment creation and design visualization. Their flexible and intuitive solutions address various production needs — including render farm management, shading and
particle effects and 3D visualization and simulation.
ADN Sparks members that have recently released products compatible with both the 32- and 64-bit versions of 3ds Max 2010 and 3ds Max Design 2010 include:

3am Solutions Ltd. (www.3am-solutions.com): Dynamite VSP 4.0 – coming soon
3Daliens Ltd. (www.3daliens.com): glu3d
ArchVision, Inc. (www.archvision.com): ArchVision RPC Plug-in
Axceleon Inc. (www.axceleon.com): EnFuzion3D
CaptiveMotion (www.captivemotion.com): Embody
cebas VISUAL TECHNOLOGY Inc. (www.cebas.com): finalF/X Bundle – coming soon
CG Academy (www.cg-academy.net): CG Academy Box Sets training tutorials
Chaos Software Ltd. (www.chaosgroup.com): V-Ray Renderer
Craft Animations & Entertainment AB (www.craftanimations.com): Craft Director Tools
David Lanier 3D, LLC (www.davidlanier3d.com): DL3D Physical Ocean shader, XToon shader
DX Studio (www.dxstudio.com): DX Studio 3.0
GHOST 3D, LLC (www.ghost3d.com): Scribe-iT
Itoo Software (www.itoosoft.com): Forest Pack Pro
PipelineFX, LLC (www.pipelinefx.com): QUBE!
Sitni Sati d.o.o (www.afterworks.com): Afterburn, FumeFX, Dreamscape
Stoehr+Sauer (www.stoehr-sauer.de): Sauberwerk
ThinkKinetic (www.pulldownit.com): Pull Down it! Pro
Tree C Technology B.V. (www.tree-c.nl): VR4MAX
Trinigy (www.trinigy.net): Vision 3D Game Engine
TurboSquid Inc. (www.turbosquid.com): Tentacles asset publisher
Unity (unity3d.com): Unity
Virtual Vertex (www.vvertex.com): Muster
Z Corporation (www.zcorp.com): ZEdit Pro, ZPrint

For more information, or to purchase Autodesk Developer Network Sparks applications for 3ds Max and 3ds Max Design, visit partnerproductsme.autodesk.com.

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Dyadem Releases Stature 4.0 with Enhanced Collaborative Risk Management Capabilities

18 June 2009

Dyadem announced a major upgrade to its Stature enterprise Risk Management platform. Stature 4.0 will enable Dyadem’s customers to make more informed and strategic decisions about the production processes and products they manage.

The Stature platform is built on the principles of continuous improvement, providing a single enterprise platform to identify, measure, mitigate and communicate safety and quality risks to all stakeholders within an organization. This helps companies understand risk factors and improve Safety, Health and Environment (SHE) compliance and bring better quality products to market.

“Every manufacturer tolerates and operates with some form of risk. Whether it is managing the quality of the products that carry your brand or the risk associated with your production processes, companies need advanced solutions that cater to everyone touching the product and process – from the drawing board to the boardroom – in order to make informed decisions,” said Kevin North, President and CEO of Dyadem. “Stature provides a platform that ensures continuous communication throughout operational and quality risk management, removing the proverbial walls that often exist between departments or business units. This allows our customers to better understand the risk factors that can affect their business and to be more proactive in mitigating those risks.”

Global and regional regulations are becoming increasingly complex, and companies that silo information into several proprietary risk management systems are incapable of easily restructuring data or templates when a regulatory report needs to be generated or edited with new specifications. The Stature 4.0 suite integrates Risk Assessment, Risk Registry, Change Management, Incident Management, Failure Mode Management, Safety Management, Action Tracking, Corrective Measures and Vulnerability Management into an overall solution that allows organizations to accurately capture trends, implement preventive measures, efficiently execute processes, and make informed decisions based on project and business process performance, all in real-time. The Stature platform is a Web-based solution that allows users throughout the world to securely work and collaborate as a single virtual team.

Safety, Health and Environment

Ensuring that a system is in place to manage the actual and potential health hazards and consequent risks arising from activities, products and services is critical for organizations to maintain and allows them to react quickly and foresee hazards. Stature 4.0 provides a fully integrated platform that allows organizations to run Management of Change (MOC) and Incident Management projects effectively and accurately across the enterprise. The Stature platform excels in its ability to effectively allow organization to manage Pre-Startup Safety Reviews (PSSRs) and Process Safety Management (PSM) checklists within the integrated MOC framework as well as with existing third-party maintenance management systems such as Maximo and SAP. Security, history and audit logs are available to ensure that transparency and compliance and standards are enforced and auditable.

Product Quality Execution

A fractured quality process results in repeat issues leading to FDA & ISO certification challenges, poor visibility into production-related risks, stalled continuous improvement and ultimately, product recalls. Stature 4.0 solutions allows companies to create a closed-loop quality planning process that spans the design and production environments and links post-market events, like warranty claims, with risk and
failure analysis studies. Unlike other systems that rely on unstructured data and file-based approaches, Stature 4.0 manages and aggregates data directly across the organization to create a common taxonomy, allowing executives to validate for themselves that operations are done correctly and on-time with the necessary cross-functional reviews.

Homeland Security

Stature provides applications that enable process, oil and gas, and chemical facilities to improve their security systems through detailed Security Vulnerability Analysis (SVA) studies. Stature is designed to help organizations put corporate-wide security policies and programs into place and aid in the adoption of regulations now and in the future. Stature has preformatted industry standard templates for CCPS’s SVA, API/NPRA’s SVA for Petroleum and Petrochemical Industries, RAMCAP – Risk Analysis and Management for Critical Asset Production, CFATS – Chemical Facility Anti-Terrorism Standards, and VAM – Vulnerability Assessment Methodology for Chemical Facilities.

Compliance

Stature 4.0 allows organizations to create a common language for risk across the organization along with standardized libraries that enables organization to track, measure and communicate consistently. Stature allows organizations to address a host of standards including: Process Safety Management (OSHA 1910.119, COMAH), TS 16949, ISO 14001, OHSAS 18001, ISO 14971, AS/NZS 4360, J1739, ARP 5580, MIL STD 1629A, IEC 60182, ISO/TS 14949, APQP, ISO 14121, ISO 14971, RCM2 book, SAE JA1011, SAE JA1012, IEC 61508, IEC 61511, ANS/ISA 84 and many others.

Stature 4.0 is built on industry-based standards and provides an open architecture, APIs and Web services that allows for easy integration to other systems. Support for exporting data to user-friendly and standard formats such as Word, Excel, XML, PDF, and Text along with user-defined formats are provided. E-mail notification, scheduling and escalations are provided with all the Stature solutions. Stature 4.0 is available immediately in English, French, Spanish, Portuguese, German, Japanese, Korean and Simplified Chinese.

Geomagic Releases Technology Preview of Add-on for Designing Dental Copings and Bridge Frameworks

15 June 2009

A new add-on for designing dental copings and bridge frameworks in conjunction with Geomagic Studio is now available as a free technology preview on Geomagic Labs (http://labs.geomagic.com/).

Geomagic Labs is a community website that provides early access to new technologies, innovation and product concepts before they appear in commercial Geomagic software.

The new Copings and Frameworks Add-On enables copings and bridge frameworks to be designed directly from intra-oral scans, 3D scans of dental impressions, and CBCT scans. It extends the functionality of Geomagic Studio 3D modeling software, which automatically transforms scan data and polygon meshes into accurate 3D digital models.

Fastest path from scan to 3D model

Key features in the Copings and Frameworks Add-On include:
A wide range of specialized dental design tools, and the ability to leverage comprehensive editing tools in Geomagic Studio, enabling users to design complex and difficult cases.

Automatic creation of copings and bridge frameworks in a few simple steps.

Automatic detection of the margin line for a high-quality restoration fit.

Compatibility with manufacturing processes that utilize superior materials such as zirconia for strength, durability and greater aesthetic value.

Compatibility with a wide variety of scanning and manufacturing hardware devices and file formats, giving users the freedom to choose which hardware they use with Geomagic software.

“The Copings and Frameworks Add-On provides a fast, easy path from scan data to completed 3D models ready for manufacturing,” says Karl Matthews, director of product management for Geomagic. “We are aiming for faster development time, less waste, and more accurate modeling and analysis that leads to a higher-quality end product.”

New tools for speed and quality

New tools in the Copings and Frameworks Add-On include:

- A cement gap adder that digitally replicates the cement a dentist adds when seating a crown. This ensures a good fit in the final restoration.

- Undercut removal or “blocking out” to help ensure that the final restoration will seat properly.

- Tool radius compensation that shows what the restoration will look like after final milling, helping to ensure a higher-quality outcome and save materials.

- A sculpt knife that simulates a dental technician using a wax knife for restoration design. This enables users to fine-tune their designs and apply their expertise and artistry with greater precision and flexibility without physical models.

- Analysis tools such as cross-section and digital calipers that allow users to check the quality of their restorations.

Graphic Products North America Inc, Announces the Upcoming Release of CAM-TOOL Version 5.0

19 June 2009

CAM-TOOL Version 5.0 will be available for viewing at the Moldmaking Expo 2009, which is a part of the NPE Show in Chicago June 22nd-26th/2009. CAM-TOOL will be demonstrated at Booth W98003 which is in the West Building of McCormick Place in Chicago.

CAM-TOOL CAD/CAM Software has been able to use Multiple Processors of a computer since its North American Release in 2001. Other Vendor’s claiming White Papers etc. are now trying to catch up.

With the release of CAM-TOOL Version 5.0 the previously used Terminology V3 and MX as product names will now take a back seat and be considered option levels.
In January of 2009 Graphic Products Japan released the 1st Version of their 5 Axis Simultaneous Editor. This 5 Axis Simultaneous Editor allows users to easily learn how to make 5 Axis tool paths by 1st creating 3 Axis Tool paths, and then editing them to become Simultaneous. In this Version 5 Release there 2 additional tool paths that are part of this “S5” Option. Swarf Cutting allows machining of angled planer surfaces with the side of an End Mill. The ability to control the Step Down and Step Over independently allows a great flexibility with this tool path choice.

Part of the arsenal now is also a Z-Level Finishing Tool Path that is able to follow undercuts and then be edited to machine safely and accurately.

Two other new tool paths added are named “3D Offset Cutting” and “Z-Level Finishing (Polygon). Both of these tool paths add a greater choice when deciding the best way to machine a project.

Chris Renaud of Graphic Products North America, the North American Re-seller of CAM-TOOL, will be involved in 2 Seminars at the Moldmaking Expo. Tuesday the 23rd at 9:15 an AMBA sponsored “Techniques and Technology for Keeping Your Mold Manufacturing Competitive in a Global Marketplace” will be the 1st one.

Chris will also be involved with SECO Tools at 11:00 a.m. on Thursday the 25th, CUTTING TOOLS/SOFTWARE/COLLABORATION

Service Is Key to Developing a Manufacturing Process to Maximize Productivity

Please visit Chris at one of the Seminars

Hanley Releases Stallion 3D, a 3-Dimensional Compressible Flow Solver with Automatic Cartesian Grid Generation and Built-in Post Processing

15 June 2009

Hanley Innovations announced the availability of Stallion 3D, an all-in-one three-dimensional compressible flow analysis software package for Windows XP/Vista PCs.

Stallion 3D allows users to enter single or multiple CAD drawings (saved in the .stl file format) into the program for a three dimensional computational fluid dynamics (CFD) analysis. In addition, components such as wings, cylindrical shapes and closed bodies can be added to the analysis using the built-in geometry engine. Users can position and rotate any of the components to match a desired test setup. The built-in pre-processor automatically detects the immersed boundaries and generates a Cartesian grid for the entire flow field. Users are not required to explicitly identify the components or their locations during the grid generation process. The cut cell approach at the boundary is not used in Stallion 3D. Boundary conditions are satisfied using a novel ghost cell method that supports first, second or higher order flow solvers. The scheme is unstructured and can efficiently produce a grid for any arrangement of closed three dimensional components without the need for user intervention.

Stallion 3D is equipped with both first and second order (spatial accuracy) finite volume methods to solve the three-dimensional Euler equations. A flux vector splitting scheme is used to determine the correct domain of dependence across grid cells and to sharply capture shock waves. The equations are solved in Cartesian coordinates throughout the entire flow field and does not require the use of coordinate transformations. This reduces the operation count of the finite volume method and increases the overall computational speed of the solver. The flow variables are marched to steady state using a
four stage Runge-Kutta method with local time steps.

Stallion 3D has built-in tools for post processing and aerodynamics analysis. Contour plots of flow variables such as pressure, density and vorticity can be presented on the design components as well as in the flow field. Streamlines can be initiated at any location in the flow field and stopped or started after a desired time interval or at a specified location. Multiple planes parallel to the x, y and z axes can be viewed to highlight pressure, density, vorticity and velocity contours. Stallion 3D computes lift, drag and moment coefficients for individual objects.

Stallion 3D requires a PC running under Microsoft Windows XP or Vista operating systems. It is available as a three months or annual lease. The introductory cost for the three months lease is $2,995. The cost for the annual lease is $7,495.

More information about the software can be found at http://www.hanleyinnovations.com/stallion3d.html. Validation results for the Onera M6 wing can be found at http://www.hanleyinnovations.com/m6wing.html.

Infolytica Releases MotorSolve v2.2

2 June 2009

Infolytica Corporation announced the availability of MotorSolve v2.2, an upgrade to the company’s design software for rotating electric machines. The extensive list of new features includes simulations and performance results for induction machines, system modeling tools and additional templates for induction and brushless machines.

MotorSolve IM’s new results module can predict the performance of an induction machine based on computations from the automated finite element based simulations. "We refer to MotorSolve as an automated FEA design tool since the user doesn’t have to worry about the mesh or any typical post-processing tasks associated with FEA software" said Chad Ghalamzan, Marketing Manager at Infolytica Corporation.

These results include charts (torque, power, etc), field plots (flux, losses, etc) and waveforms (currents, etc) amongst other quantities and reporting features.

The results module includes several different analysis methods which give the user control over the speed and accuracy of the simulation, including:

- Equivalent circuit analysis of induction machine based on no load/locked rotor tests
- Motion analysis including saturation at each rotor step

MotorSolve IM accurately accounts for important effects such as leakage inductances, slotting, deep bar effects and skewing.

MotorSolve now supports exporting designs to VHDL-AMS, a popular format supported by most popular software for system simulations, such as System Vision©.

Pricing and Availability

MotorSolve v2.2 is now available for PC’s running Microsoft Windows® 2000, XP and Vista. For information regarding pricing or to request an evaluation please contact an Infolytica Corporation
Intergraph® Introduces SmartPlant® Enterprise Power Solution

17 June 2009

Intergraph® introduced SmartPlant® Enterprise Power Solution (KKS-Enabled), a preconfigured solution template for designers and operators of power generating plants to optimize the design and construction, safe and reliable operation, and life cycle management of the engineering design basis for handover and regulatory compliance.

SmartPlant Enterprise Power Solution builds on the SmartPlant Enterprise solutions suite with features tailored to the needs of the power industry, such as out-of-the-box configuration for KKS (Kraftwerk Kennzeichen System) plant classification convention and specification-driven integration between SmartPlant P&ID and SmartPlant Reference Data. Customers benefit from an accelerated implementation because of the preconfigured KKS asset naming convention and plant classification structure, ready-made application integration, as well as early and accurate materials estimation capabilities.

KKS is recognized as the industry standard for consistent and systematic classification of power plants. Intergraph is the first company to receive permission from VGB PowerTech e.V., the industry association that issues guidelines for the development, construction and operation of power plants, to pre-configure its solutions with KKS standards. By delivering predefined KKS content for the SmartPlant Enterprise Power Solution, Intergraph allows clients to more benefit from the software’s existing capabilities and expedites the engineering process for those clients who adhere to these specifications.

“After extensive analysis of the power plant construction market, existing products and vendors, and input from our customers, we determined an integrated solution with KKS logic was the best solution for companies using KKS,” said Gerhard Sallinger, Intergraph Process, Power & Marine president. “The dramatic success and widespread industry adoption of SmartPlant design and data management solutions make SmartPlant Enterprise Power Solution the next logical step in streamlining enterprise engineering information throughout the concept, design, construction, operations and maintenance life cycle of power plants.”

Intergraph’s SmartPlant Enterprise is an integrated solutions suite that provides 3D design, construction, materials and engineering data management capabilities. SmartPlant Enterprise users are able to increase productivity, accelerate projects and enhance global work sharing.

The SmartPlant Enterprise Power Solution is available immediately. For more information, visit http://www.intergraph.com/power/.

Intergraph® Introduces SmartPlant® 3D Materials Handling Edition to Automate Design of Bulk Facilities

17 June 2009

Intergraph® has introduced the newest solution of its SmartPlant® Enterprise engineering software
suite, SmartPlant 3D Materials Handling Edition, to automate the design and modeling of bulk materials handling systems for the mining, port, power, pulp and paper industries.

A next-generation, data-centric, rule-driven solution, SmartPlant 3D Materials Handling Edition automates the design of conveyor systems and transfer chutes to enable bulk materials industries to rapidly and easily create or expand facilities.

The difficulty in quickly designing and modeling bulk materials handling systems in mining and other conveyor-intensive industries is a significant bottleneck to timely project completion and can greatly affect an owner’s ability to serve a market in time. These systems require considerable modifications due to the design complexity required to satisfy an owner’s requirements.

SmartPlant 3D Materials Handling Edition automates much of the design process, allowing changes to be completed faster with detailed fabrication-level deliverables, reducing the need for third-party software. Faster completion of projects directly relates to a reduction of man-hours required to achieve system options and to lower project costs and increase overall revenue. Also enhancing the ability to reduce capital expenditure (CAPEX) cost is the opportunity to design and model sections of the system once, save them to a catalog and reuse the design in future projects.

Two companies, Sinclair Knight Merz (SKM) and United Group Ltd. (UGL) Resources, provided industry input to Intergraph in the development of SmartPlant 3D Materials Handling Edition and are committed to using it on projects. SKM is a global engineering, project delivery and sciences firm, and UGL Resources is a construction, engineering, asset management and maintenance provider offering integrated solutions to the mining and mineral processing, oil and gas, chemical and heavy manufacturing sectors.

Both companies evaluated a number of potential software providers to create a design, fabrication and construction solution for materials handling systems and chose to partner with Intergraph. SmartPlant 3D was the only solution on the market with the necessary capabilities in rule-based design, global workshare, design reuse, steel detailing and automation required to achieve the step-change in productivity they desired.

David Medcroft, CADD business consultant at SKM, said, “The collaborative design effort between our companies has resulted in a very beneficial product that will make designing bulk materials handling systems much easier and more efficient. Because there is currently nothing similar to it on the market, the SmartPlant 3D Materials Handling Edition should attract a lot of attention. In fact, we have already purchased the solution and will use it on upcoming projects.”

“The solution created by Intergraph is truly cutting-edge for the bulk materials handling industry,” said Jeff Lawrence, Proposals and Systems Development manager at UGL Resources. “We expect this technology to revolutionize the work processes and methods used to design, fabricate, construct and commission materials handling systems. This is the new industry standard approach for bulk materials handling systems.”

Gerhard Sallinger, Intergraph Process, Power & Marine president, said, “Our SmartPlant 3D platform and industry leadership with process plant design applications makes us a logical choice for providing this solution for bulk materials handling. We appreciate the expertise provided by SKM and UGL Resources in developing this encompassing and integrated solution. We look forward to bringing increased productivity to this industry segment just as we have to the other markets who are already experiencing productivity gains through SmartPlant 3D.”
As part of Intergraph’s SmartPlant Enterprise suite of products, SmartPlant 3D Materials Handling Edition provides the capabilities needed to design a bulk handling system and keep it as-built throughout its life cycle. It offers piping, HVAC, electrical raceway, structural, platework and mechanical equipment modeling tasks, as well as a specification and catalog manager and a project administration environment.

Users’ productivity will be enhanced through improved automation in the initial design and automation to create the 3D model. Key features of the new solution include:

• Automation of object placement from a 3D catalog allowing for more rapid design completion
• Generation of fabrication-level drawings in a single environment for an entire system
• Data reuse for future projects.


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**Lattice Technology Releases XVL Player Version 10**

17 June 2009

Lattice Technology® announced the release of Version 10 of its free XVL Player.

XVL Player is a freely available viewer that allows anyone with 3D XVL data to be able to view, rotate and cross-section the 3D geometry, check assembly trees against 3D parts, play animations, and view PMI, annotations and other data that might be contained within the XVL file. XVL Player works on Windows PCs, and allows users with low specification PCs and no CAD knowledge to explore and understand 3D data for their needs.

This latest XVL Player supports the new XVL v10 format, which delivers the industry’s most compressed 3D format with no loss of accuracy. XVL v10 can compress 3D CAD data to 0.5% of its original size for both surface and polygon data, allowing anyone in the manufacturing supply chain to quickly view and understand even the most complex 3D CAD data.

New tools in this updated version of XVL Player include easier navigation of the user interface to more easily access the wide range of controls available to view and interrogate the 3D data, plus new tools to change the behavior of process animations saved within the XVL file.

“XVL Player is an important application for use of 3D as a part of a company’s digital manufacturing strategy,” commented Bill Barnes, General Manager, Lattice Technology. “It is important to allow access to 3D for everyone in the supply chain – not just those with CAD seats and high end hardware. This access, via the free XVL Player, builds productivity, eradicates errors and enables profitability to occur in manufacturing.”

XVL Player is available free, after a short registration, at Lattice Technology’s web site at: http://www.lattice3d.com.

More information about the XVL v10 format is available at: http://www.lattice3d.com/company/tech_3d_image.html

To understand more about the strategies and techniques for using 3D in a digital manufacturing strategy,
Lattice Technology recently released a free downloadable e-book, ‘Improving Lean Manufacturing Through 3D Data’ by Dr. Hiroshi Toriya. The book delivers a series of case studies, survey data and information that help manufacturers understand how to take 3D out of the design stage and make it relevant to a lean manufacturing strategy. This book is available at Lattice Technology’s web site at: http://www.lattice3d.com/book/index_1.html

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Lattice Technology Releases XVL Web Master Version 8.0

17 June 2009

Lattice Technology® announced Version 8 of its XVL Web Master application.

XVL Web Master takes 3D XVL data and publishes it into HTML format for immediate use on an internet or intranet. This tool uses pre-defined templates to allow for parts lists, animations, work instructions and other data that can be contained within an XVL file to be published into HTML files alongside the related 3D data. 3D process animations can also be automatically created by XVL Web Master directly from the 3D data depending on your needs. XVL Web Master can be used as a stand-alone application or within an integrated workflow to allow the automated publishing of data within a PLM, ERP or other IT infrastructure.

This latest version of XVL Web Master supports the new XVL v10 format, which delivers the industry’s most compressed 3D format with no loss of accuracy. XVL v10 can compress 3D CAD data to 0.5% of its original size for both surface and polygon data, allowing anyone in the manufacturing supply chain to quickly view and understand even the most complex 3D CAD data.

XVL Web Master Version 8.0 delivers more advanced tools which allow 3D process animations to be more realistic when created automatically within the application, including settings for showing and hiding annotations, and setting the intervals between each process. These process animations clearly show the way a product is assembled alongside the related work instructions, on the HTML page created.

“XVL Web Master automates the important step of getting 3D manufacturing data into HTML,” commented Bill Barnes, General Manager, Lattice Technology. “End-users can view 3D with related metadata, process instructions and parts lists via a web browser, making it very easy to use.”

XVL Web Master Version 8.0 is available to all maintenance customers now, and can be evaluated via registration at Lattice Technology’s web site at: http://www.lattice3d.com

More information about the XVL v.10 format is available at: http://www.lattice3d.com/company/tech_3d_image.html

To understand more about the strategies and techniques for using 3D in a digital manufacturing strategy, Lattice Technology recently released a free downloadable e-book, ‘Improving Lean Manufacturing Through 3D Data’ by Dr. Hiroshi Toriya. The book delivers a series of case studies, survey data and information that help manufacturers understand how to take 3D out of the design stage and make it relevant to a lean manufacturing strategy. This book is available at Lattice Technology’s web site at: http://www.lattice3d.com/book/index_1.html

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LMS International Launches Four LMS Virtual.Lab Packages Tailored to the ANSYS® User Community

12 June 2009

LMS recently introduced a new family of LMS Virtual.Lab product packages especially adapted to extend the engineering performance simulation capability of ANSYS®. The packages include individual versions of four dedicated LMS Virtual.Lab modules, each designed to enhance the ANSYS user experience offering more detailed simulation and design capabilities for multi-body simulation, structural durability, acoustics and test-simulation correlation. ANSYS users who want to benefit from more than one enhanced capability can combine any number of the packages.

“The new LMS Virtual.Lab for ANSYS product family provides a superior solution for performance engineering especially designed for the ANSYS user community. It allows complete and accurate simulation for a number of mission-critical design attributes, such as motion, acoustic and durability characteristics of a product or system,” stated Stefaan Goossens, Vice-President Simulation at LMS International. “Offering the ANSYS user community this capability, based on ANSYS Structural complemented with LMS Virtual.Lab, allows users a complete virtual design process to develop and optimize designs faster.”

The four packages consist of:

**LMS Virtual.Lab Motion for ANSYS** offers a highly efficient, completely integrated solution to build multi-body models that simulate the full-dynamic-motion behavior of complex mechanical system designs. With this package, ANSYS users can create a complete and accurate system model and apply forces and motion to simulate the actual operational behavior --leveraging the ANSYS Structural Simulation platform. Users can examine system designs including the influence of flexibility for one or several components.

• **LMS Virtual.Lab Acoustics for ANSYS** provides an integrated solution to minimize radiated noise or optimize the sound quality. Convenient modeling capabilities combined with efficient solvers and easy-to-interpret visualization tools provide insight into acoustic performances. It simulates both internal and external acoustic radiation and offers dedicated applications for structural noise radiation and transmission-loss-through-panel phenomena. Based on leading LMS FEM (Finite Element Modeling) and BEM (Boundary Element Modeling) technology, this package can be used to further characterize system or component vibration and acoustic characteristics providing additional leverage for the ANSYS Structural Simulation platform.

• **LMS Virtual.Lab Durability for ANSYS** predicts fatigue hotspots and fatigue life by combining dynamic component loads and fatigue material parameters with ANSYS Structural Simulation stress results. This provides direct feedback regarding critical fatigue areas and the root cause of fatigue problems.

• **LMS Virtual.Lab Correlation for ANSYS** empowers users to compare test-based and virtual component models for more productive simulation. It offers direct access to standard ANSY vibration data and several test data formats to quickly compare and validate ANSYS-FEM models with test data to allow users to expeditiously identify possible modeling errors to systematically improve existing simulation models.

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Planview Introduces the Planview OpenSuite Interoperability Platform

18 June 2009

Planview introduced the Planview OpenSuite™ Interoperability Platform. This platform delivers out-of-the-box connectivity between Planview Enterprise and 200+ enterprise applications and enables custom integrations with in-house developed systems. The platform accelerates integrations and cuts risk, cost, and complexity from the integration process, reducing integrations to a mapping exercise that can be performed by a business analyst rather than by key technical resources.

The Planview OpenSuite Interoperability Platform delivers out-of-the-box connectors, including those for:

- Applications – including SAP applications; Oracle applications, Siebel CRM, and PeopleSoft ERP; Salesforce; Microsoft Great Plains and Dynamics; Peachtree; Sage CRM SalesLogix
- Databases – including Oracle; IBM DB2; Informix; MySQL; Microsoft SQLServer and Access; Sybase ASE; Teradata
- File Types – including ASCII and Mac ASCII; Microsoft Excel and Word; WordPerfect; Visual dBase; FoxPro; IBM Lotus; dBase
- Technologies – including Email; Email Attachments; FTP; HTTP/S; HTML; Oracle AQ and BPEL; SGML; SOAP; XML
- Legacy – including COBOL; Binary; C-tree; QSAM; Tape Drive Sequential
- Retail Standards – including EDI and EDIFACT; TRADACOM
- Healthcare and Insurance Standards – including HL7; UB92-NSF; HCFA 1500-NSF; ACORD

The company believes the time is ideal for the capabilities enabled by Planview OpenSuite Interoperability Platform.

With a long history of enabling easy integrations between Planview Enterprise and other key systems, the Planview OpenSuite Interoperability Platform represents the next phase of the Planview approach to integration. With out-of-the-box connectivity, Planview customers can leverage information in their disparate systems to make informed decisions without dedicating scarce technical resources to the often arduous task of integration. Additionally, the Platform saves and stores all design metadata in an open XML-based design repository, supporting customer requirements for value by allowing for fast and easy interchange and reuse of integration design elements across the organization.

“This platform is an extension of the Planview OpenSuite customer-focused value proposition of making integration within heterogeneous environments attainable, easy, and affordable,” said Patrick Tickle, executive vice president of products, Planview. “Our customers have robust infrastructures with many critical systems – PPM, ERP, CRM, cutting-edge and legacy, on-premise and SaaS – but what management really needs to know is if enough people and money are available to execute company strategy. Now, they have feature-rich, highly configurable, and easy to use data integration software that lets them offer exactly that transparency.”

The Planview OpenSuite Interoperability Platform will be available in June 2009. For more information, contact market@planview.com.
Synopsys Continues Galaxy Custom Designer Momentum with 2009.06 Release

15 June 2009

Synopsys, Inc. announced availability of advanced analog simulation and layout capabilities in its Galaxy Custom Designer™ implementation solution. The new features in the 2009.06 release deliver productivity advances to aid analog circuit designers and layout engineers, enabling Synopsys to further extend its reach in the custom implementation segment.

The Custom Designer 2009.06 release adds significant new capabilities, including high-capacity, high-performance schematic-driven layout (SDL) designed for today's large analog blocks. The SDL capability features schematic and layout synchronization technology and a streamlined engineering change order (ECO) flow. Also included in the 2009.06 release is an easy-to-use analog simulation and analysis environment featuring high-performance waveform display and processing, mixed text/schematic integration and Tcl scripting for batch verification.

"Designer productivity should quickly improve with Custom Designer's new capabilities. Additionally, the open environment and support for interoperable process design kits should enhance design reuse and portability," said Anand Valavi, group head and manager, Analog Mixed Signal Group at Wipro. "The 2009.06 release of Custom Designer continues Synopsys' established record of delivering differentiated capabilities with the same high quality, ease-of-use and enhanced productivity that we have come to expect."

Introduced in September 2008, Custom Designer is a modern-era custom implementation solution that delivers superior ease-of-use and leverages Synopsys' Galaxy™ Implementation Platform to provide a unified solution for custom and digital designs. Built natively on the OpenAccess database, it offers text/schematic integration and Tcl scripting for batch verification.

"Our vision is to deliver the industry's most productive and open custom implementation solution," said Paul Lo, senior vice president and general manager of the Analog/Mixed-Signal Group at Synopsys. "We are breaking new ground and delivering innovative capabilities previously not available in existing products. This release represents a major step in our mission to deliver advanced technologies to enhance designers' productivity through automation."

Synopsys and Actel Renew OEM Relationship for FPGA Design Software

17 June 2009

Synopsys, Inc. and Actel Corporation announced a multi-year extension of their OEM agreement for FPGA design tools. Under the terms of the agreement, Actel maintains rights to provide Actel-specific versions of Synopsys' Synplify Pro®, Identify® and Synplify® DSP software as part of the Libero® Integrated Design Environment (IDE). Actel has been offering these products to its customers for more than 10 years through an OEM agreement with Synplicity, which was acquired by Synopsys in May 2008. The objective is to provide highly optimized software solutions for Actel's complete portfolio of FPGA products, including the IGLOO®, Actel Fusion® and RTAX families of FPGAs.

"Actel's customers have come to expect the best in FPGA synthesis over the years," said Jim Davis, Vice President of Software and Systems Engineering at Actel. "Synopsys is a valued, best-in-class supplier, and we are very pleased to be able to continue to bundle Synopsys products as part of the Libero IDE."
"Actel provides distinctive programmable solutions for important electronic applications, including those requiring low-power, radiation-tolerant or mixed-signal FPGAs," said George Zafiropoulos, Vice President of Solutions Marketing at Synopsys. "Our technology-leading FPGA design and verification tools have been designed to take full advantage of the unique features of Actel devices and to provide our mutual customers with the quality of results and productivity required to address the needs of their markets."

In addition to the Synplify Pro FPGA synthesis product, the OEM agreement includes Synopsys' Identify RTL debugger software. The Identify product is a functional verification tool that provides probing and visibility into a live, running FPGA. The Identify RTL Debugger allows designers to debug an operating FPGA directly in their RTL source code, providing an efficient alternative to debugging at the gate level, where signal names may have been changed by synthesis and no longer match the RTL.

Designers implementing DSP algorithms will have a very fast and reliable path into Actel devices using Synopsys' Synplify DSP algorithm synthesis product. The Synplify DSP tool provides a high-level synthesis methodology that realizes significant productivity and optimization advantages over traditional HDL design flows. System and algorithm designers can capture complex algorithmic behavior using the Synplify DSP model library, which includes vector arithmetic, fixed-point precision up to 128-bits, and a rich set of IP cores. The Synplify DSP synthesis engine allows designers to automatically implement and explore a range of area/speed-optimized architectures from a single model and generate verification testbenches from a high-level environment.

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Trace Software Becomes SolidWorks Solution Partner and Announces the Worldwide Release of elecworks™

2 June 2009

Dassault Systèmes SolidWorks Corp. has named Trace Software, a leading electrical CAD company, as one of its selected Solution Partners on the basis of its development of elecworks™, a brand-new electrical CAD software, and its real integration to SolidWorks® 3D CAD for electrical and automation 3D design projects.

elecworks™: the electrical experience for SolidWorks has begun

Successfully presented in preview at the SolidWorks World Conference in February 2009 in Orlando, Florida, elecworks™ is now available. elecworks™, designed to cover the electrical and automation needs of the SolidWorks engineering offices, increases collaboration between electrical and mechanical teams and allows them to better design automation and electrical installation projects with faster documentation generation.

elecworks™ is a high-end new generation of software which allows users to work on all areas of a digital installation in real time, based on a SQL Server database driven kernel with multiple views: single line diagram, schematics, equipment management, input/output tables, etc.

elecworks™ ensures bidirectional links and data update between equipment in the 3D SolidWorks model and the corresponding symbol in the relevant diagram.

The integration between SolidWorks and elecworks™ 3D Layout module allows one to access and visualize all the schematics related to your design as well as share information between mechanical and electrical teams. This allows users to better evaluate the impact of the electrical needs within the
complete design.

With elecworks™ Routing and Cabling additional module, from the cable and wiring lists and the connection information one will be able to design the cabling system on the SolidWorks mock-up and to update the part list table with the different calculated lengths.

elecworks™ will now be sold worldwide through the SolidWorks reseller network in English, French, Spanish, Chinese, and Portuguese. German, Italian, Japanese and Russian will shortly follow.

"We are pleased to have Trace Software as part of the DS SolidWorks Partner community and make their integrated electrical and automation solution available to our customers. This is a good answer to an increasing demand we see from our customers". said Nick Iwaskow, Manager, Alliances.

elecworks™ is the result of an unprecedented technological development. We developed elecworks™ to provide SolidWorks designers with the tools to use and share electrical and automation information on the 3D mock-up. Our goal is to make it the electrical CAD worldwide de-facto standard. elecworks™ is definitely the right choice for the companies using SolidWorks as their design tool." said Etienne Mullie, CEO of Trace Software.

On-line videos and webinars are available on http://www.elecworks.com

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vdR Group Enhances Search-Based Application Through Actify Partnership

17 June 2009

Actify Inc. announced that it has forged a technology partnership with the vdR Group, a leading developer of integration solutions for manufacturing and engineering applications. The partnership incorporates a subset of Actify's SpinFire visualization offerings into vdR's Partrieve v5.0 product, allowing the search-based business application (SBA) to provide access to CAD data without the need for expensive CAD software.

Actify's SpinFire technology enables users to access numerous 3D and 2D CAD file formats without the overhead of expensive CAD softwares. The SpinFire products are able to take these native CAD files and transform the data into Actify's compact, lightweight .3D format that can be easily reused for viewing, measuring, markup, and other interrogative functions. With the vdR partnership, every instance of Partrieve will include a version of SpinFire Publisher, and depending on the customers' needs, the support for any of several major CAD formats.

"Our products are designed to meet a variety of needs and use models," said David Opsahl, CEO of Actify. "Our customers, like many other companies are always looking for ways to streamline the collaboration process. Partrieve v5.0 with the integration of our SpinFire technology, allows companies to solve their collaboration needs by providing users immediate access to information scattered across the enterprise including 3D and 2D data."

Companies often have multiple databases with disparate information containing numerous data formats that span the enterprise. While all of the information is relevant, they're not always easily accessible. Partrieve allows users to search for and access the product data trapped in these information silos, independent of language, source, format or unit of measure.

"Embedding the SpinFire viewing technology in Partrieve allows us to extend our capabilities to users that need to access 3D and 2D data without having to load an instance of a CAD solution," said Martin
van der Roest, president and CEO of vdR. "We knew that integrating a powerful visualization solution into Partrieve would give added value to our users and the SpinFire technology did not disappoint."

Partrieve is sold via Tata Technologies. For more information, please visit [http://www.Partrieve.com](http://www.Partrieve.com).

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