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Company News

Altair Software Helps Students Reshape Their Robots and Their Lives

March 20, 2009

Fifteen students at a Seattle-area high school are using [Altair Engineering's](#) OptiStruct software to help build robots for the national FIRST Robotics competition; but, to their amazement, the real prizes they have won have been improved social skills, a passion for teamwork and a newfound love of engineering.

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The team from Jackson High School in Mill Creek, Wash., worked with their career technical education instructor Maggie Thorleifson, along with Boeing engineer Brian Gattman and four other mentors, to learn about robotics and engineering from scratch. Over a period of six weeks they absorbed information about motors and structures and constructed the robot they will enter in the regional competition this month as part of the Lunacy games, sponsored by FIRST (For Inspiration and Recognition of Science and Technology). FIRST is an annual international competition designed to build science, engineering and technology skills that inspire innovation and foster well-rounded life capabilities, including self-confidence, communication and leadership.

Life-Altering Results

At Jackson High School, which joined the FIRST competition for the first time this year, these goals were realized beyond all expectations, with sometimes life-altering results. Whatever the outcome of the first round of competition March 26-28 in Everett, Wash., Jackson team members already have emerged as big winners from their experience.

"The entire robotics experience completely and totally changed my life," declared Monica Ilich, a junior at Jackson. "My stepdad and I have become even closer because he's so supportive of the program. I can think faster and understand concepts better so my classes are better. The whole teamwork thing has been amazing. I used to be a loner and now work with a team. I've made so many new friends who I never thought in a million years that I would be friends with."

Similarly, junior Bryan Kim reports, "The club has made my social skills better. I used to be quiet, but now I'm better at talking with people. In classes, I'm more of a leader, trying to help other people."

The FIRST Robotics experience has developed other, less anticipated skills in the students as well. Kymberly Featherkile, mother of team member Arwen Reeves, reported, "Arwen has gotten so much out of the experience, and she's really looking at her future career choices differently. And she learned to use power tools! How cool is that?"

Better grades

For others, the FIRST Robotics experience contributed to dramatic changes in their school work. "Overall, I've learned so much," said sophomore Christian Bundschu. "Programming, engineering, mathematics -- most of it I didn't know. I'm in a geometry class and an average student. Since participating in this program, though, I'm getting way better grades in math class now."

Kartik Rishi, a junior, had been an AP physics student. But he said, "Robotics taught me the integration of all the math techniques and physics. I learned how motors work and how to apply them in a robot. It was all interconnected. My grades have been going up and teachers are amazed at how I'm able to derive equations and understand how physics works. And I know that younger team members in lower-level math classes were learning way beyond what they were supposed to be learning—and actually getting it—because of our team."

"As I learned how FIRST Robotics uses computer programming, math and engineering," Thorleifson said, "and how kids get to experience these applications -- and the fact that judging includes such elements as 'gracious professionalism' and 'team spirit' -- I thought, how could I not give kids at my school this opportunity? The kids are talking about how much fun math is because of this. I'll hear them discussing, 'How does that part work? Which kind of gear or torque is best?' They're analyzing in an incredibly new way and their minds are expanding."

A fulfilling and motivating experience

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While assembling the robots, the students used Altair's OptiStruct software to lay out the optimal structural members in the design. It's the same software used by Boeing in the design of its 787 Dreamliner aircraft. The students spent considerable time in machine shops, classrooms and small group as they constructed the robot, thanks to monetary and software grants sought by Thorleifson and awarded to the team by Boeing and Altair.

Mentor Brian Gattman said the Jackson team specifically used Altair's OptiStruct to do topology optimization for the robot. For example, the application showed them that they needed to add a cross member to the back area of the robot to help stiffen the frame to support linkages.

"The goal of FIRST Robotics is to inspire young people in careers in science, technology, engineering and math," Gattman said. "A study by Brandeis University that looked back at previous participants in FIRST, comparing them with other students that had similar backgrounds, found that more than three times as many FIRST team students were likely to major in engineering. Furthermore, FIRST students are about 10 times more likely to have had an apprenticeship, internship or co-op job as a college freshman."

Mentor Joris Poort from Boeing revealed that he was inspired by his observations of the Jackson team. "For us to see kids use the tools that we use in the industry, like Altair software, is really a powerful thing," he said. "They have the opportunity to become great engineers in the future."

His impressions were echoed by senior Colin Bundschu, who said, "Before, I didn't know what I wanted to do; I had no direction. Now I feel like I'm doing something that will help me get somewhere. The experience has been very fulfilling and extremely motivating."

The Jackson High School team members included:

Seniors Colin Bundschu and Brian Stephan, Mike Tomber

Juniors Monica Ilich, Bryan Kim, Arwen Reeves, Kartik Rishi and Patrick Woolfenden, Natasha Gendran

Sophomores Christian Bundschu and Charlie Franklin

Freshmen Jeff Goodhue, Tyler Hittle, Michael Yagi and Kai-Hwa Yao.

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BlueCielo Exercises Option to Up Stake in Brazilian Organization

16 March 2009

BlueCielo ECM Solutions announced that it has acquired a further two percent of BlueCielo do Brasil Soluções de Gerenciamento Ltda (formerly called PONTODOC), a company specializing in the implementation of ECM solutions based in Santo André, São Paulo, Brazil, making it BlueCielo do Brasil's majority shareholder with a total stake of 51 percent.

BlueCielo ECM Solutions first acquired 49 percent of the Brazilian organization in December 2008, which was BlueCielo's first move towards forming a strong, operational infrastructure in Brazil and the rest of Latin America, where it has a broad customer base including key players in the energy, oil and gas, and discrete and process manufacturing industries.

In another strategic maneuver in January 2009, BlueCielo ECM Solutions further strengthened its Latin American operations by acquiring all BlueCielo-related activity of the company's Brazilian distributor

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SKA Automação de Engenharias Ltda and its largest Brazilian reseller GAMA – Soluções em Gerenciamento Eletrônico de Documentos Ltda, both based in São Leopoldo, Brazil. These were subsequently incorporated into BlueCielo do Brasil.

BlueCielo ECM Solutions has options to acquire the remaining 49 percent in BlueCielo do Brasil over the next two years.

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CD-adapco ATOMIC Consortium to Reduce Carbon Dioxide Emissions through the Application of Advanced Simulation Technology

17 March 2009

CD-adapco announced the formation of the ATOMIC project.

The ATOMIC project is focused on developing Computational Fluid Dynamics methods to model the atomization of sprays generated by engine fuel injection systems. The atomization process is critical to the efficiency and emissions of both diesel and gasoline engines.

Dr Richard Johns, CD-adapco's director for the Automotive industry is confident that the results of the project will have an immediate beneficial impact: "We anticipate that the results of this project will lead to a more fundamental understanding and predictive capability for engine analysis, ultimately contributing to lower carbon dioxide and polluting emissions."

The project is supported by leading automotive companies, large engine manufacturers and fuel injection system suppliers including Daimler AG, Delphi Diesel Systems, Lotus, Honda, MAN Diesel, Porsche AG and Wärtsilä. Academic institutions providing experimental support include ETH Zurich and Loughborough University.

Designed to handle large-scale parallel computations, the ATOMIC project will be powered by the HP Cluster Platform Workgroup System. This high-performance system utilizes an HP BladeSystem c3000 enclosure, Gigabit Ethernet switch and five HP ProLiant BL260c G5 blade servers. Each blade server features two Xeon Intel E5450 quad-core processors, 12-gigabyte (GB) memory and two 120 GB disks. The HP Cluster Platform Workgroup System will be used to model engine fuel injection system sprays from the companies participating in the ATOMIC project.

"Customers in automotive and engine research are continually looking for cost-effective solutions that deliver the high performance computing needed to run more simulations economically," said Ed Turkel, manager, Product Marketing, Scalable Computing and Infrastructure, HP. "The CD-adapco and HP combined system will help advance simulation technology that will provide customers with powerful, environmentally friendly systems to further accelerate the product development process."

For more information on the ATOMIC project please contact: atomic@cd-adapco.com

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COADE President/CEO Van Laan Interviewed in Pump Engineer Magazine Discussing Today's Challenges for Plant Designers and Engineers

17 March 2009

COADE announced that Thomas J. Van Laan, PE, the company's president/CEO, is featured in an

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interview in the January issue of Pump Engineer magazine in which he discusses the challenges in the plant design and engineering industry and COADE's response to these challenges. As discussed in the article, COADE's approach emphasizes monitoring plant design industry trends, listening to customers and designing products and support for customers that deliver responsive solutions that save them time and money.

The Pump Engineer article discusses how COADE's approach has resulted in 7,500 different customers in 85 countries and sales growth of 30%+ compounded annually. In fact, the company saw a sales increase for this year (fiscal year ending March 31) despite the economic downturn of the last several months.

"Our aim has been to help engineers and designers solve their problems," states Van Laan in the article. "We also believe in listening closely to the needs of our customers." He describes how, with over 50% of COADE's employees having a background as engineers or designers in the plant design industry, they can relate in a personal way to the challenges facing plant engineers today. Because the support staff at COADE is also the development staff, unique in the software industry, customers receive knowledgeable support in real time directly from those responsible for the software without any intermediate personnel to confuse the issue.

The article also discusses the changing face of plant design and engineering for software developers, with today's engineers being much younger and often with little if any specialized training. "On average, our customer base had a much higher level of experience 10-15 years ago than they do today," Van Laan explains regarding the company's current approach to product development for these less experienced designers and engineers. "We want them to be able to press a button to get the answers they need."

Information on COADE and its products can be found at <http://www.coade.com>.

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Coastal Logic Partners with Dassault Systèmes to Provide Powerful PDF and Batch Printing Integrations for ENOVIA MatrixOne

16 March 2009

Coastal Logic, Inc. announced it has signed a new partnership agreement with Dassault Systèmes.

Coastal Logic provides commercial software applications that address several key requirements common to many Dassault Systèmes ENOVIA MatrixOne customers. They offer a batch printing solution that allows users to print files directly from the ENOVIA MatrixOne database without first opening them, and a PDF/TIFF rendering application that uses core ENOVIA MatrixOne functionality to automatically check out, convert, and check files back into the database within the Business Process Lifecycle. These two integrations, printLogic and convertLogic, provide strict control over printing, rendering, metadata stamping and watermarking helping customers increase efficiency, ensure regulatory compliance and accelerate profit.

"We are happy that Dassault Systèmes customers will be able to leverage Coastal Logic Solutions" said Stuart Woolman, Business Development Director, Software Partnerships at Dassault Systèmes. Prior to their new partnership with Dassault Systèmes, Coastal Logic was an ENOVIA MatrixOne Independent Software Vendor (ISV) for over six years. "We have enjoyed working with ENOVIA MatrixOne in the past", said Wayne Hoit, Vice President of Coastal Logic, "and we look forward to bringing value and

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utility to Dassault Systèmes customers.”

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DP Technology Reseller CIM Integraters Opens New ESPRIT CAM Center Office in Houston, Texas

18 March 2009

Expanding its geographical service area to better fulfill the needs of existing and future customers, CIM Integraters, an Oklahoma-based reseller for computer-aided-manufacturing (CAM) industry [DP Technology](#), maker of ESPRIT®, has opened a new office in Houston, Texas.

The new ESPRIT CAM Center, a division of CIM Integraters, presently supports such Houston-based ESPRIT customers as Baker Oil Tool, Halliburton, Cameron, Dyna-Drill and Ameriforge.

“It only makes sense to open an office there,” said Randy Rauh, president of CIM Integraters. “Houston is a center for oilfield-related manufacturing, and is a magnet for many of the new multi-tasking machines. There will be great demand for ESPRIT’s revolutionary new 5-axis capabilities and ESPRIT CAM Center will be there to provide world-class training and support for new Houston ESPRIT users.”

The new office is conveniently located on the west side of town, where ESPRIT trainings will take place regularly.

About CIM Integraters

CIM Integraters is a member of the ESPRIT CAM Center Program, a certification earned by leading ESPRIT resellers who have proven to provide the highest level of commitment to ESPRIT customers. This program identifies those leading resellers who have demonstrated success with their customers and provides new customers with a recognizable authorized source for ESPRIT software and service.

Based in Owasso, Okla., a suburb of Tulsa, CIM Integraters opened its doors in 1989 and has served as an ESPRIT reseller since 1998. “CIM Integraters’ formula for success was founded on providing superior customer support while focusing the business on one product,” Rauh said.

Striving to improve manufacturing efficiency in the four-state region of Oklahoma, Arkansas, Kansas and Missouri, CIM Integraters operates a dedicated training facility equipped with experienced trainers and technical support. The company also produces a range of AVI tutorials that have provided training for ESPRIT users worldwide.

The new office can be found at 4801 Woodway Dr., Suite 300 East; Houston, Texas, 77056, and can be reached by phone at (713) 964-2717.

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Lectra Appoints Alexander Neuss Managing Director for Germany, Eastern Europe, and CIS Countries

19 March 2009

Lectra has named Alexander Neuss Managing Director of Lectra Germany, based in Ismaning, near Munich.

Alexander Neuss, a business school graduate (Diplom-Kaufmann), has been working for Lectra since 2002. He most recently held the joint positions of Finance Manager for Lectra Germany and Managing

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Director of Lectra's subsidiary Humantec Industriesysteme, Huisheim.

Lectra's business activity in Germany, the Eastern European region, and all the countries of the Community of Independent States (CIS) is managed from Ismaning. A team of 112 people work in the area, out of locations in Germany, Poland, Romania, and Croatia.

For Lectra, Germany and Eastern Europe is a developing region of great importance, where customers represent a significant market share. 40% of sales are made in the fashion sector with almost an equal proportion in the automotive and industrial fabrics industries, while 20% of sales are in the furniture market. There is still a great need for modernization and new technology for all industries in the region, even if the current economic situation is causing a lull in investments. Sales and services activities in Eastern Europe and Russia will continue to expand over the course of the year in close cooperation with Lectra's network of agents.

"With the support of the local management team, Alexander Neuss aims to strengthen our market share in the Eastern European region and reinforce our relationships with customers. With his background and thorough knowledge of our solutions, Alexander is well prepared to demonstrate to our customers and prospects the great economic advantages and added value of our integrated solutions," said Daniel Harari, [Lectra](#) CEO. "In spite of the tough economic situation, companies from all sectors are prepared to invest in innovative intelligent software and efficient cutting systems if those investments guarantee a considerable increase in productivity, cost savings, and a rapid return on investment. This has been our experience thus far. Knowing that our customers can achieve measurable competitive advantages through our value-added solutions, we remain confident for 2009."

"I am really motivated by this new challenge," said Alexander Neuss. "The defining characteristic of our region is its diversity—we serve various markets in 21 different countries, with 17 different languages. Yet our range of solutions is identical everywhere and helps our customers gain in efficiency wherever they are. That is a very powerful argument in any language!"

During and after his studies, Alexander Neuss gained experience in various domestic and overseas departments of Commerzbank, including the Hong Kong section. Later, he acquired comprehensive financial and market expertise through executive positions with Arthur Andersen in Munich.

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Magma Announces Agenda and Chairman for MUSIC Users Conference in India

18 March 2009

Magma® Design Automation Inc. revealed the agenda for the MUSIC users conference in India. Scheduled for April 16 in Bangalore, the program will feature technical presentations and tutorials given by Magma users, design industry experts and Magma's engineering research and development staff. Magma CEO Rajeev Madhavan will deliver a keynote address.

Professor V. Kamakoti of the Indian Institutes of Technology was named chairman of MUSIC (Magma Users Summit on Integrated Circuits) India. Kamakoti has overseen the Technical Program Committee and been instrumental in developing a technically rich program.

MUSIC Agenda Focuses on Meeting Today's Nanometer Design Challenges

MUSIC provides an open forum for users to gain expertise using Magma's chip design software, and to exchange ideas about and solutions for the challenges of nanometer integrated circuit and system-on-

chip (SoC) designs.

MUSIC has become a leading venue for Magma users to gather, share and learn best practices and solutions. The conference's program covers a range of Magma software capabilities including synthesis, clock tree synthesis (CTS), placement and routing, floorplanning and library characterization. Users will share useful tips on how to leverage Magma software to improve results, reduce power, minimize costs and increase productivity.

Users' presentations include:

- "Post-Clock-Tree-Synthesis Crosstalk Optimization"
- "Skew Balancing and Area Reduction by Equalizing Route Lengths"
- "Using Talus on a Critical 65-nm Wireless SoC to Meet a Very Tight Schedule"
- "IBIS Model Generation and Validation with SiliconSmart®"
- "Concurrent Leakage Power and Timing Optimization Using Talus on a 600 Mhz, 100K Instance Processor Core"
- "A Configurable and Automated Approach for High-Speed Custom Digital Design"

For the complete MUSIC agenda and to register for the conference visit the Magma website at <http://www.magma-da.com/MUSIC>.

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MSC.Software Names Masood Jabbar to Board of Directors

17 March 2009

[MSC.Software Corp.](#) today announced that Masood Jabbar has rejoined the Company's board of directors and his appointment will increase the size of the board to seven.

"Masood's deep knowledge of technology companies and their customers makes him a valuable asset to our board," said Ashfaq Munshi, interim chief executive officer and president, MSC.Software. "We look forward to working with him once again."

Mr. Jabbar spent more than 16 years in senior management positions at Sun Microsystems, including executive vice president and advisor to the CEO, executive vice president of global sales operations, president of the Computer Systems Division and vice president, chief financial officer and chief of staff of Sun Microsystems Computer Corporation. Prior to joining Sun Microsystems, Mr. Jabbar held executive positions at Xerox Corporation as well as IBM Corporation.

Mr. Jabbar currently sits on the boards of publicly traded JDS Uniphase and Silicon Image. He holds a masters degree in international management from the American Graduate School of International Management, an MBA from West Texas A&M University and a bachelor's degree in economics & statistics from the University of the Punjab, Pakistan. He previously served on the MSC.Software board of directors from July 2005 to January 2007.

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MSC.Software's MD Solutions Honored in China with Prestigious Awards

March 17, 2009

[MSC.Software](#), a leading global provider of enterprise simulation solutions, including simulation software and services, today announced that its next generation multi-discipline (MD) solutions have been recognized with two notable technology awards in China.

The company recently received [China Information World's](#) Impact Award and was named one of 2008's most influential technology solutions. This award recognizes distinctive contributions that have made a significant impact to the advancement of manufacturing technology solutions in China. Winners were based on the technology's popularity and merits as well as application focus and user recommendations.

Separately, MSC.Software's MD solutions were also recognized by the [Manufacture Information Engineering of China \(MIE\)](#) with the Product Innovation Award. The Product Innovation award honors the best solutions in manufacturing technology as determined by innovation and customer value.

"We are pleased to have our MD solutions recognized by these esteemed awards that establish our continued leadership and industry adoption of our MSC.Software's multi-discipline solutions in China," said David Yuen, vice president and general manager, MSC.Software Asia Pacific. "Our MD solutions continue to set an industry standard for simulation analysis, both in the enterprise market, as well as an expanding small and medium sized business space."

"By providing a common data environment that eliminates multiple model translation and transformations, organizations can reduce inaccuracies and time associated with manually taking results from one point solution to another, driving efficiency and streamlining processes," added Kevin Zhao, country manager for MSC.Software China.

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PROSTEP Partners with Siemens PLM Software

February 2009

Darmstadt-headquartered PROSTEP AG has signed a Partner agreement with Siemens PLM Software, a business unit of the Siemens Industry Automation Division. As a Software and Technology partner, PROSTEP will provide deep integrations with PDM and CAD software tools from Siemens PLM Software. PROSTEP extends the existing capability of its OpenDXM® and OpenPDM® products to allow additional automation, workflow, and standards based interoperability between a variety of third-party and in house applications. This includes internal integrations within a company as well as the integration of external partners, suppliers and customers.

"The partner agreement with Siemens PLM Software is a tribute to our competence as an integration partner to leading companies in the automotive, air- and space, shipbuilding and other industries, who struggle with the problem of heterogeneous CAD, PDM and PLM environments", says Dr. Martin Holland, VP of sales at PROSTEP AG. "The partnership enables us to adapt our integration solutions better and faster to the functions and requirements of Siemens PLM Software's offerings, to the benefit of our joint customers."

"Siemens PLM Software is committed to open systems and an open business model," said Rich Ramsey, vice president of Partner and Components Marketing, Siemens PLM Software. "The addition of PROSTEP to our Partner Program is consistent with our strategy to encourage the integration of third-

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party software tools that extend this open value proposition to our customers.”

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PTC and French National Ministry of Education Sign Agreement to Train Engineers of Tomorrow

18 March 2009

PTC has announced the signing of an agreement with the French National Ministry of Education and Ministry of Higher Education and Research to provide PLM technology training in schools across France. In many countries, PTC offers students, from college to university, an original program for Product Life-cycle Management (PLM) education in the form of software, training or course materials for teachers. In France, the National Ministry of Education has also decided to adopt this program which aims to bridge the gap between the educational "theory" and the "practical" aspects of the real-life professional, industrial world.

This agreement is based on two essential principles:

- Free individual license for all teachers in France. Via a web link, teachers will be able to download for free, and for unlimited duration, Pro/ENGINEER® software and access over 80 hours of online training. Pro/ENGINEER Wildfire 4.0 can be used to design, analyse and manufacture any product. This means that the teachers benefiting from the scheme will be able to give shape to their CAD/CAM ideas, to create models and complex surfaces and produce real-life simulations while connecting instantaneously to the necessary information and resources.
- Free access to a "site license" for teachers in secondary education establishments. Teachers in secondary establishments who have successfully completed preliminary training will have free access to a Pro/ENGINEER Schools Edition license. This Site License will provide free accesses to the establishment, and will additionally allow students to use Pro/ENGINEER in their homes. PTC will also provide access to teaching materials for schools participating in this program. What is more, every establishment will be able to take part in the PTC Collaborative Engineering project via access to a PLM platform.

A dedicated site – <http://www.ptc.com/go/education> - provides all the information that teachers and students need.

"We are very pleased to have PTC taking part in the operation: 'A Key to Getting Started' ('Une Clé pour Démarrer') and extending the resources for all teachers," comments Jean-Yves Capul, Deputy-Director, Information and Communication Technologies at the French Ministry of Education. "The PTC Education Program puts the emphasis on training the teachers and facilitates the introduction of PLM at the secondary level. This program is of massive benefit for both teachers and students!"

"We are delighted with this agreement," explains Kevin Dickey, Vice President Global Education at PTC. "We wish to make our Pro/ENGINEER software, our PLM solutions and our many training resources available to French teachers. It is vital for PTC to commit wholeheartedly to the training of young people in the new technologies so that they arrive on the jobs market with a solid grounding. Our program offers genuine opportunities for developing the skills of students and teachers alike, in order to encourage universal engineering training."

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SimuTech Group Launches "Lend a Hand" Training Program

18 March 2009

Simutech Group (a dba of STI Technologies, Inc., Rochester, NY) announced that it has launched its "Lend a Hand" program. As a member of the engineering community, SimuTech Group is reaching out and "lending a hand" to fellow engineers that have been recently displaced or unemployed during these difficult and uncertain economic times.

The "Lend a Hand" program will provide free training of ANSYS simulation software at any of SimuTech Group's North American training facilities. The goal is to provide engineers with a marketable skill that will place them in much more competitive situation as they search for employment opportunities.

"ANSYS products are an integral part of the engineering process in many different industries throughout the world. Having the ability to include ANSYS proficiency on an engineering resume is invaluable," says Ken Lally, CEO of SimuTech Group. "If you simply type the keyword 'ANSYS' into any of the major career sites such as Monster.com or CareerBuilder.com, you can easily find numerous employment opportunities requiring ANSYS expertise. In these difficult economic times, every little bit helps and SimuTech Group hopes that these classes will provide engineers that extra edge needed in finding employment. "

Qualifying engineers will be able to attend all level of classes for [ANSYS](#) Mechanical, ANSYS Fluent, ANSYS CFX and ANSYS AUTODYN simulation software programs. Upon the successful completion of the class, attendees will receive a certificate of completion.

For more information as well as consideration for the "Lend a Hand" program, engineers should visit the SimuTech Group website at: <http://www.simutechgroup.com/training/lend-a-hand-program.html>.

About SimuTech Group, Inc.

SimuTech Group, Inc. is the largest reseller in North America of engineering simulation software from ANSYS. To complement sales and support of this technology, the company provides training, mentoring, consulting, and testing services. With more than 85 employees, over 50 percent of staff hold advanced degrees in fields such as engineering and sciences; many also have extensive industry expertise, including the aerospace, turbomachinery, automotive, electronics packaging and medical industries. Headquartered in Rochester, N.Y., U.S.A., the company has nine offices in North America. Visit <http://www.SimuTechGroup.com> for more information.

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VISTAGY Partners with ITS to Extend its Leadership in the Rapidly Expanding Russian Aerospace Market

19 March 2009

[VISTAGY, Inc.](#) announced a strategic partnership with Innovation Technologies and Solutions (ITS), one of the foremost technology sales and support organizations in the dynamic Russian aerospace market. The partnership will enable ITS to provide the most advanced software for engineering composite aircraft and will extend VISTAGY's global reach by developing a significant presence in a critical emerging market.

VISTAGY and ITS are enjoying explosive growth in the Russian market as the companies have

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collaborated on the sale of FiberSIM® composites engineering software for three high profile commercial aircraft programs. FiberSIM is being used to design and manufacture composite fuselages and wings.

Moscow-based ITS was founded in 2007 by Igor Kremenskov, the company's director general who is well known and esteemed in the Russian aerospace industry. ITS is a thought leader in the Russian aerospace market. It has recently held a number of industry seminars focused on composites, including the use of advanced materials in the development of helicopter and commercial aircraft programs as well as best practices for composites manufacturing.

"The use of composite materials is growing so fast in the Russian aerospace industry that there's a critical need for specialized engineering solutions that address the complexity of the product development process. We are extremely pleased to be working with VISTAGY, a global leader in this area," said Mr. Kremenskov. "FiberSIM is the benchmark software available to engineer composite products, and we're confident that we can help VISTAGY continue to extend its worldwide leadership position."

"The Russian aerospace market is developing at a swift pace and ITS is well positioned to support the growth due to its deep expertise in this area," said Steve Luby, president and CEO of VISTAGY. "Director General Kremenskov is a very well known and respected figure in the industry and will be invaluable in developing effective solutions and strong relationships with customers and prospects. Our partnership with ITS will enable VISTAGY to make an impact in a market that is rapidly adopting new technologies in order to better compete in the global landscape and will also ensure that our customers are well supported and successful in their efforts do so."

ITS Business Contact in Russia

Mr. Dmitry I. Kremenskov

Project Manager

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About ITS

ITS is an actively developing and fast growing company, which focuses mainly on delivering high-end technological design and manufacturing solutions to major industrial companies of the Russian Federation, primarily in the aerospace industry. ITS is an authorized agent for VISTAGY and an official representative of Siemens PLM Solutions, ACB S.A., and MSC.Software.

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VISTAGY Renames its Airframe Development Environments™ Software to SyncroFIT

18 March 2009

[VISTAGY, Inc.](#) announced that its product line of software for developing airframe assemblies - comprised of Airframe Design Environment™ and Airframe Manufacturing Environment™ - has been changed to SyncroFIT™ to enhance its brand recognition in the rapidly expanding airframe assembly market.

SyncroFIT, previously known as Airframe Development Environments, is a group of software products integrated into commercial 3D CAD systems for designing and manufacturing airframe assemblies and large aerostructures. SyncroFIT enables the user to author and capture complete digital representations of airframe assemblies and share critical design and manufacturing detail more efficiently across the enterprise and the global supply chain. The software provides a thorough representation of the airframe assembly, including individual mating parts and their relationships to joints, fasteners and holes. It also manages the interactions of composite details within assemblies and allows engineers to validate that fastener design rules have been met.

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Events News

CD-adapco to Unveil Wind Park Simulation Technology

16 March 2009

CD-adapco unveiled new simulation technology for the prospecting of Wind Parks and Wind Turbine Installations at the European Wind Energy Conference 2009 in Marseille, France (www.ewec2009.info).

The simulation technology, which is already being used by a leading turbine manufacturer, addresses two of the biggest challenges in prospecting: the prediction of Wind Power Density across complex terrain and the identification of local flow features likely to negatively influence asset durability.

CD-adapco has developed an automated process, through which large areas of terrain can be evaluated, with little or no manual input from the operator. The process is based around STAR-CCM+, CD-adapco's flagship simulation tool, which automates every part of the wind park simulation – from importing the terrain geometry to producing a final report that identifies the suitability of a particular area of land for wind turbine installation.

Dennis Nagy, CD-adapco's VP for the Energy Industry, explains:

“Previously numerical simulation for wind-park prospecting was rightly criticized because it either oversimplified the physics or was too complex and time consuming to deploy on a realistic scale – often requiring the integration of many different software modules and simulation times in excess of two weeks. In this respect STAR-CCM+ is paradigm changing – allowing large areas of terrain to be analyzed for twelve different wind directions in less than 3 hours, and with little or no manual input from the operator.”

As well as evaluating the Wind Power Density, the report produced also identifies local three dimensional flow features such as wind-shear, wind-weir and local gustiness that are likely to have a negative impact on the durability of the Wind Turbine gearbox.

CD-adapco will be holding an [exclusive webinar](#) on Wind Turbine and Windpark Simulation on April 30 2009. The webinar is free to attend, and registrants will receive a complimentary copy of CD-adapco's Energy Special report, which looks in detail at the role simulation is playing in guaranteeing future energy sustainability. [Register here for the Webinar>>](#)

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Dassault Systèmes (DS) Issues Call for Presenters for the 2009 DS Customer Conference (DSCC

2009)

March 2009

Dassault Systèmes is seeking customers who want to share how Product Lifecycle Management (PLM) solutions have transformed their business. Consider presenting a session during the **Dassault Systèmes Customer Conference (DSCC)** October 6-7, 2009, Renaissance Orlando Resort at Sea World in Orlando, Florida

If you are a customer of CATIA[®], DELMIA[®], ENOVIA[®], SIMULIA[®], and/or 3DVIA[®], submit your presentation for review by:

1. Obtaining approval from your organization before submitting a proposal.
2. **[Click here for details and submission form.](#)** All submissions must be completed by Friday, April 17, 2009. DS will not accept proposals after the deadline.
3. Final Presentations should be 45 minutes in length, including 10 minutes for questions and answers. *There is a maximum of two speakers per presentation, unless approved by DS. Partner presentations must include a customer presenter.*

Benefits as a Presenter:

- Gain recognition for your company as an industry leader
- Enhance your ability to network with conference attendees.
- Receive a complimentary Full Conference pass to attend all of the sessions.

Key Dates to Remember:

- Call for presentations ends — April 17, 2009
- All presenters will be notified by May 18, 2009
- Final presentations are due September 15, 2009

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Delcam to Demonstrate Jewellery Software and Services at BaselWorld

18 March 2009

Delcam will demonstrate its range of software and services for the jewellery industry at the BaselWorld exhibition to be held in Basel from 26th March to 2nd April, including the latest version of its ArtCAM JewelSmith CAD/CAM software and its new online rapid prototyping bureau service, rp.delcam.com.

ArtCAM JewelSmith enables jewellers to design and manufacture highly intricate, bespoke jewellery or complete new ranges. Whether modelmakers prefer to draw their designs, hand-sculpt a 3D model or create the piece in a familiar CAD package, their work can simply be scanned or imported directly into the software. Alternatively, designs can be created directly in ArtCAM JewelSmith.

Engineered for its ease of use, ArtCAM's structure is similar to artistic packages such as Adobe PhotoShop where the jeweller can utilise a number of layers to change elements of their design, or to

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form intricate and complex patterns. For example, when creating a matching necklace, ring and bracelet, ArtCAM's 'Project Tree' can keep all related models together, for quick reference, accessibility and easy duplication of any design element.

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

With JewelSmith 2009, modelmakers can sculpt their designs, either by using ArtCAM's sculpting toolbox or by customising their own sculpting brushes using imported textures or their own 2D design. For hand engravers, ArtCAM can replicate their current working methods by utilizing a Wacom tablet. With this device, the more pressure applied by the pen to the tablet, the more material can be moulded or manoeuvred into shape.

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

For companies offering a bureau service, ArtCAM's latest '3D PDF Viewer' will prove invaluable when seeking customer approval. Rather than taking multiple screenshots or sending large files, users can save the 3D View of their model as an accurate and rotatable PDF file that can then be e-mailed to all involved parties.

Once the design process is complete, ArtCAM JewelSmith's integrated machining wizards set the machine toolpaths or provide the necessary output files for CNC machining or rapid prototyping of the piece. For jewellery produced from more than one material, ArtCAM JewelSmith can divide the design into separate files for manufacturing.

Companies concerned about the cost of purchasing high quality RP machinery or those preferring to use a rapid prototyping bureau service for model construction will be interested to know that Delcam will also be showing its rapid prototyping service.

Delcam's rp.delcam.com bureau service will be available to anyone wishing to make 3D models for use in the lost wax casting process. Delcam will supply robust castable wax/resins within 48 hours for companies to use either in their own casting process or to supply to any third party casting company. ArtCAM JewelSmith files or any other 3D files can easily be uploaded to the Delcam FTP site for quick quoting and production.

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Delcam CRISPIN to Show Orthotics Design and Manufacture Software at BAPO

16 March 2009

Delcam CRISPIN will demonstrate the latest version of its software for the design and manufacture of orthotic insoles at the British Association of Prosthetists and Orthotists (BAPO) conference and exhibition to be held in Bolton from 27th to 29th March. Many enhancements have been added since last year's event in response to requests from the various orthotics companies that are supporting the development of the system. The software is now in use in many more organisations, including Blatchfords, Langers, Salts Techstep, Sub 4 and the East Lancashire NHS Trust.

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The Delcam CRISPIN software comprises two programs – OrthoModel and OrthoMill for computer-aided design (CAD) and computer-aided manufacture (CAM), respectively. This division increases purchasing flexibility for customers; giving both practitioners and laboratories the option to choose the combination of software which best suits their needs.

The combined programs provide a complete solution for the production 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 the terminology used by the industry to describe the various features of the orthotic. This makes it easy for medical and footwear professionals to use, even those having little previous experience of working with computers.

The main addition to the latest version of the software is a new method for creating “foot-positive” models. This allows patterns to be designed directly from scan data taken from the patient’s foot to create orthotics in a variety of materials, including carbon fibre.

A new “cast-dressing” option allows the user to apply corrections directly on the scan of a patient’s foot when designing orthotics. This process duplicates on the computer the modifications made to the cast by adding or subtracting plaster using the traditional methods. In a related development, the scan and the orthotic can now be overlaid and viewed together, so that the extent of the changes can be seen easily.

Improvements to existing options include enhancements to the functions for alignment of the scan to give more precise accuracy of measurement. Dynamic editing methods, with immediate on-screen feedback, have been added for heel expansion and for raising or lowering the arch.

In addition, the library of base models provided with the software has been enhanced and extended. Furthermore, customers are now able to add their own library of models, add-ons and cut-outs.

Although many customers are expected to use both OrthoModel and OrthoMill, the two programs are completely “open”. OrthoModel can take data from any scanning system or use manual measurements, while OrthoMill can take models from most CAD systems and output machining instructions to any milling machine. Delcam CRISPIN is happy to recommend the type of equipment that is required to companies that are new to computer-aided manufacturing.

Using OrthoModel and OrthoMill reduces the time needed to prepare orthotics so giving the faster turn-around times that customers demand. In addition, the use of computer-based design and manufacturing techniques brings the benefits of accuracy and quality to the orthotics industry that are already enjoyed by other areas of footwear manufacture.

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Delcam to Show Integrated Machining and Inspection at Control

18 March 2009

Delcam will demonstrate two new programs to improve machining quality, NC-Checker and NC-PartLocator, at the Control exhibition to be held in Stuttgart from 5th to 8th May. Both pieces of software combine machining and inspection technology to improve the speed and accuracy of production, especially when machining large, complex or flexible components. The company will also show the latest version of PowerINSPECT, the world’s leading hardware-independent inspection software.

NC-Checker provides a quick way to monitor the accuracy of a wide range of commonly-used machine

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tools with standard probing equipment. It can be used before machining starts to confirm that the equipment has been set up correctly and then applied during the production run to detect any movements out of tolerance that might have been caused by, for example, wear or temperature changes. Clearly, more regular checks will be needed when producing more expensive or more complex components with stricter tolerances.

All the results can be archived to provide a traceable history of the performance of each machine. Any deterioration in performance over time can be detected, possibly signalling the need to schedule maintenance work, even before any out-of-tolerance parts have been produced.

NC-PartLocator gives the ability to adjust toolpaths to the measured position of the part, rather than having to ensure that the piece is in exactly the nominal location specified in the CAM system. This adjustment can be made in the machine tool control much more quickly and easily than placing, and holding, the part in exactly the specified position.

NC-PartLocator can be used for the finish machining of components as well as for the production of tooling. For example, it is often necessary to drill into large plastic or composite components to a set depth to provide fixing holes. By using NC-PartLocator, the surface of the component can be scanned and the data used to calculate the drilling routine. This will give more reliable results than using the nominal surface from the CAD model of the part.

NC-PartLocator can also be used to prevent tolerance build-up when undertaking a series of machining operations. For example, if a series of holes have to be produced around a central bore, the location of the bore can be confirmed before starting the drilling operations. Again, using the actual positions of the features that have already been machined will give more accurate results than using the nominal positions from the CAD file.

The latest version of PowerINSPECT includes support for five-axis scanning with Renishaw's REVO probe. It also features the ability to use multiple alignments within parts or assemblies, additional GD&T features, more flexible best-fit algorithms, improved CMM connectivity and more versatile report generation.

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ESPRIT 2009 and ESPRIT Mold v10 by DP Technology to be exhibited at Intermold 2009, Tokyo, Japan, April 8-11

March 19, 2009

ESPRIT® 2009, created by computer aided manufacturing (CAM) industry leader DP Technology, will be on display in Tokyo, Japan, April 8-11, when the latest version of the company's software will be exhibited at Intermold 2009.

Considered an opportunity for professional networking, in addition to a showcase of the latest technological advancements, INTERMOLD 2009, the 20th Japan international Die & Mold Technology Exhibition, is expected to be a major hub of activity for those interested in making the most of innovative solutions and machinery.

Intermold participants are encouraged to visit the ESPRIT booth, where representatives knowledgeable about the latest upgrades in the software will perform demonstrations and be available for discussion.

Twenty-two new 5-axis machining strategies have been added to the existing 5-axis functionalities

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within ESPRIT Mold, an upgrade that translates to even greater machining flexibility and improved cycle times. The new patent-pending FreeForm 5-axis composite machining cycle allows users to independently define machining patterns and tool orientation strategies to be used for creating simultaneous 5-axis toolpaths, and includes 20 different machining strategies (cycles) in one—resulting in a wide range of easily manageable possibilities.

The new ESPRIT composite machining cycle gives users the ability to perform simultaneous 5-axis machining for a wide variety of different parts and industries—including the aerospace, medical and automotive sectors—with one simple user interface.

About ESPRIT

ESPRIT is a high-performance computer-aided manufacturing (CAM) system for a full range of machine tool applications. ESPRIT delivers powerful full-spectrum programming for 2–5 axis milling, 2–22 axis turning, 2–5 axis wire EDM, multitasking mill-turn machining and B-axis machine tools, and high-speed 3- and 5-axis machining.

About ESPRIT Mold

ESPRIT Mold is an automated, robust and easy-to-use high-speed 3-axis and 5-axis CAM system. Utilizing knowledge of in-process stock, remaining material, and integrated simulation and verification, ESPRIT Mold delivers fast, safe and reliable programming for a wide variety of 3D machining applications. ESPRIT Mold is a member of the ESPRIT family of CAM systems, which also includes ESPRIT SolidMill®, ESPRIT SolidTurn®, ESPRIT SolidMillTurn® and ESPRIT SolidWire™.

About DP Technology Corp.

DP Technology is a computer-aided manufacturing (CAM) software market leader with a mission to provide CNC programmers with the most powerful CAM software ever. DP Technology's flagship product, ESPRIT, captures the company's vision of technology's potential and its passion for excellence.

DP Technology maintains its worldwide headquarters in Camarillo, Calif., and product development teams in California and Florence, Italy. Sales and support operations are located in Europe, Asia, and North and South America. For additional information about DP Technology and ESPRIT, call +1-805-388-6000, send an e-mail to esprit@dptechnology.com, or visit the company Web site at www.dptechnology.com.

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ESPRIT 2009 by DP Technology to be Exhibited at WESTEC 2009 Los Angeles, Calif., March 30-April 2

16 March 2009

[DP Technology's](#) ESPRIT® 2009 computer-aided manufacturing (CAM) software will be exhibited at WESTEC 2009, slated for March 30-April 2 at the Los Angeles Convention Center, in Los Angeles, California.

The “pulse of manufacturing” is the theme of this year's installation of Westec, the West Coast's largest cutting-edge machine tool and manufacturing event. On display will be more than 600 exhibits staffed by manufacturing professionals showcasing the most advanced solutions, equipment and technologies.

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On exhibit at booth No. 3382, ESPRIT 2009 will be demonstrated for Westec visitors, who will also have access to knowledgeable ESPRIT representatives.

ESPRIT 2009 takes the previous redesign of the software's Operation Manager one step further with a new graphical user interface (GUI) for the ESPRIT Cutting Tool Manager. This new GUI presents the same look and feel for both milling and turning tools, with cutting tools being grouped by the milling head or lathe turret they belong to. The new tool manager also has better integration with the KnowledgeBase™ (cutting tool database). Icons show which tools have been added from the KnowledgeBase and which tools were created individually in the ESPRIT document, which can be easily added to the KnowledgeBase. They then may be reused in other programs or by other programmers. Additional GUI upgrades include new dialogs for the definition of individual cutting tools, which are significantly simplified and now support the definition of the tool shank. The new GUI displays more accurate images of the tools to aid in more easily defining tool geometry.

In addition to increasing the performance of the CAM software, the upgrades on display at WESTEC 2009 and available within ESPRIT 2009 reduce the time required to produce part programs while increasing the quality of those programs and helping to reduce machining cycle times.

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GibbsCAM 2009 Featured at WESTEC 2009

16 March 2009

Cimatron Limited announced that Gibbs and Associates, developer of GibbsCAM®, its software for programming CNC machine tools, will demonstrate its latest version of GibbsCAM at WESTEC 2009, in exhibit #3268, at the Los Angeles Convention Center in Los Angeles, California, from March 30 – April 2, 2009.

“We have incorporated many new features and enhancements across the GibbsCAM product line, but the most significant are those we made for Advanced 3D High Speed Machining” says Bill Gibbs, founder and president of Gibbs and Associates. “All the additions are geared for ease of use and productivity, with interface, interoperability, programming, verification and machine simulation features that decrease programming and prove-out time for even the most complex machine-tool configurations.”

Significant capabilities were added to the lathe modules, but the greatest enhancement for GibbsCAM 2009 was the addition of machining methods for multi-surface hard milling and high speed machining in SolidSurfacer®, to provide high quality surface finishes that reduce or eliminate polishing.

Advanced 3D HSM (High Speed Machining) Enhancements – These offer machining styles for smooth entries, exits and cutting motions, with steep or shallow angle limits, rest passes, tool-holder collision checking, and options to change cutting style, all applicable to multiple applications.

- **Constant Step Over Cut** – User-specified step distance drives this routine to generate 3D passes with constant separation along a part's surface, from the outside in, to achieve extremely smooth finishes through user-controlled steps.
- **Flats Cut** – This routine automatically recognizes and machines flat areas, using minimal distance retraction when moving from one section of a work piece to another, avoiding work piece features while minimizing non-cutting motion.
- **Contour** – For finishing and semi-finishing passes, Contour computes equal Z increments and

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generates toolpaths at the various levels, automatically providing clean transitions with smooth entries and exits from one level to the next.

- **Lace Cut** – Like Constant Step, but cutting in a single direction, this provides consistently smoother cuts. By using the toolpath filleting option, also available within other HSM routines, users optimize smoothness in cutting motion.
- **Intersections** – This automatically identifies seams of a part surface and generates toolpath along those seams, following and conforming to the part's 3D shape. Additional offset passes generated from the original seam pass provide a superior surface finish.
- **Automatic Core Detection** – For machining cores, this automated routine machines from the outside in, always climb cutting to protect inserted cutters. Toolpath direction changes automatically from inside to outside when internal pockets are detected, minimizing need of full-width or helical ramp-in cuts.
- **Improved Pocketing** – Like Automatic Core Detection, but specially geared for cavities, it works from the center outward. By computing equal Z increments on the model, it generates toolpaths for each level and removes large areas of material rapidly.

Extensive New Lathe Features – These provide greater efficiency through tool control, and take advantage of newer high-tech cutting tools to turn harder materials and machine smoother surfaces. They include advanced entries and exits, entry feed rates, enhanced no-drag, clean-up pass, multi-pass plunge roughing, notch ramp roughing, offset contour and tool edge path contour, threading entry and tapping tools, and groove-tool deflection compensation.

MTM Enhancements to Sync Manager – New additions to Sync Mgr and Op List and new Op Mgr associativity make multi-task machining easier and more efficient with the added flexibility.

Additional Enhancements – GibbsCAM 2009 incorporates multiple ease-of-use and productivity enhancements, including faster toolpath simulation, visualization features for multiple perspectives, hot keys for quick viewing options in Cut Part Rendering, updated certification for Windows Vista and Solid Edge v20, and many additional interoperability and interface features.

GibbsCAM 2009 shipped to domestic customers at the end of 2008, while the international version, with localized documentation and additional enhancements for simultaneous 5-axis machining, will be shipping through the first quarter of 2009.

For more information about GibbsCAM and the GibbsCAM 2009 release, or to locate your local GibbsCAM reseller, go to <http://www.gibbscam.com/>, call 1-800-654-9399, or email info@GibbsCAM.com.

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Magma Announces Agenda and Chairman for MUSIC Silicon Valley Users Conference

18 March 2009

Magma® Design Automation Inc. revealed the agenda for the MUSIC users conference in Silicon Valley. Scheduled for April 2 in Santa Clara, the program will feature parallel tracks of technical presentations and tutorials given by Magma users, design industry experts and Magma's engineering research and development staff, and an exposition of Magma partners. Magma CEO Rajeev Madhavan will deliver a keynote address.

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Dr. Uming Ko, senior fellow, director of the Worldwide Chip Technology Center, Wireless Terminals Business Unit, Semiconductor Group of Texas Instruments, was named chairman of MUSIC (Magma Users Summit on Integrated Circuits). Dr. Ko has overseen the Technical Program Committee and been instrumental in developing a technically rich program.

MUSIC Agenda Focuses on Meeting Today's Nanometer Design Challenges

MUSIC provides an open forum for users to gain expertise using Magma's chip design software, and to exchange ideas about and solutions for the challenges of nanometer integrated circuit and system-on-chip (SoC) designs.

Over the years MUSIC has become a leading venue for Magma users to gather, share and learn best practices and solutions. This year's program covers a range of Magma software capabilities including synthesis, placement and routing, floorplanning, library characterization, verification, circuit simulation and analog design. Users will share useful tips on how to leverage Magma software to improve results, reduce power, minimize costs and increase productivity.

Users' presentations include:

- * "Using Magma Software for Large, High-Speed ASICs in 65-nm and 40-nm Technologies"
- * "Hierarchical Planning and Implementation of a 25-Million-Gate, 80+ Soft Macro Flip Chip Using Hydra and Talus®"
- * "Evaluation and Comparison of the Talus Multi-Mode/Multi-Corner Flow to the Merged-Mode Approach"
- * "A Civilized Post-Mask ECO Flow"
- * "Qualifying SiliconSmart® and FineSim"
- * "A New Approach to Mixed-Signal Test Chip/IP Creation Flows Using Titan"
- * "Faster Analog Design Verification Using FineSim"

For the complete MUSIC agenda and to register for the conference visit the Magma website at <http://www.magma-da.com/MUSIC>.

Magma Partners at MUSIC

In addition to the technical program, the Silicon Valley conference will feature an exposition where users can learn how Magma is working with its partners to ensure design success. Attendees will be able to speak directly with Magma partners about design, flow and integration solutions. Magma partners exhibiting and/or sponsoring MUSIC include TSMC, Common Platform Alliance, Fastrack Design, IPL Alliance and Virage Logic.

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PTC To Host Webcast: What's New in Pro/ENGINEER

March 18, 2009

[PTC](#), the Product Development Company®, today announced that it will host a seminar designed to showcase the newest capabilities of Pro/ENGINEER®, its integrated 3D CAD/CAM/CAE software and a key component of the PTC® Product Development System. Pro/ENGINEER Wildfire 4.0 enables customers to optimize global design processes to create innovative, winning products with faster time-

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to-market, improved quality and reduced costs.

In this live webcast and Q&A session, Michael Campbell, senior vice president, product management, PTC will discuss the key productivity enhancements for all users, the new industry leading modules, and the new CAE Lite, CAM Lite, and Manikin Lite capabilities which are now included in all Pro/ENGINEER packages. Attendees will learn how Pro/ENGINEER helps:

Accelerate detailed design process

Improve design outsourcing process

Enhance verification and validation process

Optimize manufacturing tooling and factory equipment design process

When: Wednesday, March 25th, 2009

To register, please visit: <http://www.ptc.com/go/proengineer/webcast>

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Tom Brokaw to Keynote Intergraph® 2009 International Users' Conference

19 March 2009

Tom Brokaw will appear as the featured keynote speaker for Intergraph® 2009, Intergraph Corp.'s annual international users' conference. Under the theme "Powering the Future," Intergraph's geospatial and enterprise engineering software customers from around the world will gather from June 15-18 in Washington, D.C. at the Gaylord National Resort & Convention Center.

In his keynote presentation, Brokaw will draw from his broad range of professional experiences as a broadcast news anchor and author. Brokaw has won every major award in broadcast journalism, including two duPonts, a Peabody and several Emmys. During his keynote presentation, Brokaw will describe how today's challenging economic times can enable our generation to define itself and power the future, just as the Great Depression created the Greatest American Generation.

Conference attendees can also look forward to a private evening reception at the Smithsonian Institution's renowned National Air and Space Museum. Attendees will have access to the museum's historic spacecraft, aircraft exhibits and IMAX theaters throughout the evening. This evening event represents a return to Intergraph's roots in the Apollo space program over 40 years ago.

"Intergraph's international users' conference is consistently recognized by our customers and the industry for delivering a valuable educational experience, relevant speakers and unique value," said Halsey Wise, Intergraph chairman, president and chief executive officer. "We look forward to welcoming our customers from more than 60 countries to hear Tom Brokaw and other industry leaders for a timely perspective about the current state of our world and their ability to power their own futures and those of upcoming generations."

For more information or to register for Intergraph 2009, please visit <http://www.intergraph2009.com>.

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VISTAGY Emphasizes the Importance of its Partnerships with Industry Leaders at JEC Composites Show 2009

17 March 2009

VISTAGY, Inc. will be in attendance at the JEC Composites Show 2009. The event runs from March 24-26 at the Paris Expo, Porte de Versailles, Hall 1 in Paris, France. Show attendees can visit the VISTAGY Stand (#T45) to take part in the Passport To Composites Success Program so they can learn how the company is partnering with a variety of industry leaders to offer state-of-the-art technology for composites analysis, design, manufacturing, assembly and quality planning. VISTAGY's focus on software, partnerships and professional services provides a comprehensive solution for the entire composites product development process.

VISTAGY will also be taking part in the Wind Energy Forum as Dr. Olivier Guillermin, director of product and market strategy, will deliver a presentation on Tuesday, March 24 at 14:30 entitled, The Benefits of CAD Integrated Composite Design Software for Engineering Wind Turbine Composite Parts. Dr. Guillermin will discuss how the wind energy industry is looking to the aerospace industry for key engineering and manufacturing methods and tools, including using VISTAGY's FiberSIM® to address the challenges of developing larger turbine blades with reduced component weight and decreasing lifetime costs. He will explain how a specialized CAD environment can be applied to developing composite wind turbines, reducing costs and cycle time and improving overall performance and quality.

The ING Renault F1 Team racing car will also be on display at the VISTAGY stand, and senior CAE engineer, Ian Goddard, will make three presentations and take questions throughout the show. Mr. Goddard's presentation is entitled, Improving Composites Development Processes at ING Renault F1 Team. It will describe how the Team benefited by bringing a VISTAGY technical consultant onboard and using the latest version of FiberSIM® software to prepare for the 2009 racing season. Mr. Goddard's presentations will take place at the VISTAGY stand at the following times:

- Tuesday, March 24 at 14:10
- Wednesday, March 25 at 11:10
- Thursday, March 26 at 11:10

Finally, there will be a number of presentations at the VISTAGY Stand where attendees can learn about the latest composites technology innovations, including a Sneak Peak at FiberSIM 2009; Achieving Excellence with VISTAGY Services; New Developments in Composites Engineering for Wind Energy; Composite Aircraft Assemblies: The Complete Solution; Keys to Effectively Managing Fasteners; New Design Methodologies for AFP/ATL and Improving the Link Between Analysis and Design.

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Financial News

Autodesk Extends Invitation to Join Webcast of Annual Investor Day

March 19, 2009

[Autodesk Inc.](#) today announced that it will broadcast a webcast in conjunction with its upcoming Investor Day on Thursday, April 2, 2009

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WHAT: A webcast of Autodesk, Inc. Investor Day. Autodesk executives will discuss market factors, corporate strategy, and financial metrics

WHEN: Thursday, April 2, 2009 from 8:30am to approximately 1:00pm PDT

HOW: To listen to the live presentations, please go to www.autodesk.com/investors. This webcast will be archived for approximately one year on our website

CONTACT: For more information, please call Autodesk Investor Relations at: 415-507-6705

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Une Forte Croissance pour l'éditeur de PLM LASCOM

16 March 2009

LASCOM enregistre une progression de 12% de son chiffre d'affaires 2008 par rapport à 2007 en annonçant un CA de 12 M€.

Les bons résultats de LASCOM en 2008 s'expliquent par la pertinence de son offre produit : des solutions PLM verticalisées par secteur d'activité :

- Faciles et rapides à mettre en oeuvre
- Un ROI dans l'année d'acquisition

Sur les trois marchés (ICS, CPG et AEC) sur lesquels LASCOM décline son offre, la verticalisation du produit fait croître énergiquement le chiffre d'affaires des licences Advitium : + 30%. La répartition entre licences et services est respectivement de 45% et 55%.

Avec la maturité des offres verticales, le modèle de LASCOM est de plus en plus un mode éditeur avec un écosystème de partenaires et d'intégrateurs.

Sur le marché de l'ICS (Industrie et Systèmes Complexes) : LASCOM est toujours très bien placée avec encore cette année de gros contrats, notamment sur les projets SIMMAD et SIGLE du Ministère de la Défense. Sur ce secteur, l'éditeur est largement reconnu pour ses excellentes capacités en gestion de configuration et plus particulièrement en MCO (Maintenance en Condition Opérationnelle).

Sur le marché du CPG (Biens de Consommation, agroalimentaire, pharmaceutique et cosmétique) : [LASCOM](#) enregistre une forte progression.

La solution packagée de ce secteur a permis de démocratiser l'offre pour l'étendre au secteur de la cosmétique et de la pharmaceutique. L'expérience acquise permet également de toucher des structures de plus petite taille. Pour exemple, la Biscuiterie Moderne, entreprise agroalimentaire de moins de 20 personnes, a bénéficié d'un déploiement immédiat de son application.

Avec l'évolution d'Advitium CPG Solution, LASCOM a ainsi signé plus de 10 nouveaux clients depuis début 2008.

Sur le marché de l'AEC, LASCOM observe une tendance dynamique avec des extensions de systèmes, de nouveaux projets comme Setec et le plus grand nombre d'applications sur le modèle Saas.

« La pertinence des choix techniques et sectoriels effectués ses dernières années pour des offres démocratisées s'avère positive aujourd'hui et sont de vrais atouts pour faire face à une période critique.

Nous devons maintenant continuer à faire croître le volume de licences» déclare Jean-Louis Henriot

PDG de LASCOM.

Malgré la crise économique, LASCOM reste confiante et prévoit une croissance sur 2009 sur son métier d'éditeur, avec comme atouts :

- Un packaging des offres PLM CPG et AEC complètement renouvelé pour des déploiements systématiques en moins de 3 mois
- Des partenaires et intégrateurs actifs (cf : LASCOM et Sage signent un accord)
- La commercialisation d'Advitium CPG Solution aux USA

LASCOM détient LASCOM Solutions, une filiale aux USA et LASCOM CAD Solutions, une filiale 100% dédiée à la vente et aux services associés des solutions CAO d'Autodesk.

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Implementation Investments

After CAD, Zucchetti Chooses PLM From think3

17 March 2009

The Zucchetti Group S.p.A. is a leading manufacturer serving the high-end market for bathroom fixtures. In 2000, as part of its strategic growth plans, Zucchetti started collaboration with think3, a multinational software company operating in the CAD and PLM sector for over 30 years. The search for more highly developed shapes and forms led Zucchetti to adopt [think3](#)'s ThinkDesign, a CAD solution used initially to develop the innovative Isy collection designed by Matteo Thun and Antonio Rodriguez. Recently the two companies have consolidated their partnership with the introduction of a new PLM project designed to improve product data management and the sharing of documents between various departments.

The Group, based in Italy's Piedmont region, has been a family business for 80 years and today is managed by the third generation of the Zucchetti family. Over the years the company has consolidated its leading position in the high-end, luxury market and now has a rich, complete and varied range of bathroom fittings where top quality design is the keyword.

"Working on Isy we realised that in order to innovate in the true sense of the word we needed a tool which permitted a greater degree of creative freedom," says Davide Scocini, Technical Manager at Zucchetti. "After analysis of the various solutions offered by the market we opted for ThinkDesign because it is more oriented towards designer objects and is less rigid than the other products examined. With ThinkDesign we have been able to translate the ideas we want to communicate into the CAD environment and thus make them reality."

Winning features of ThinkDesign include powerful functions for modifying solids and surfaces. ThinkDesign is easy to use, easy to learn and can handle complex design tasks. Global Shape Modelling (GSM³) is still the only tool which enables rapid, accurate changes with a high degree of precision to any type of shape, native or imported, in any stage of the design process. GSM³ accelerates interaction without limiting creativity and without the need to rebuild models.

Recently Zucchetti renewed its trust in think3 by entrusting the multinational software house with the implementation of their new TD PLM solution. TD PLM will be used to manage technical

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documentation, part codes and technical data. The need for this type of solution was discovered by the R&D department. New modular products brought with them a greater need for sharing data and designs between more people and for accessing the latest versions of documents.

“The project,” says Scoccini, “will be expanded in a series of steps. In the first step it is vital that we recover our historic data and enter the data archive on the system in order to have all the information available at the touch of a button. Implementing a PLM system will allow us to optimise store management, improve our in-house processes, and enhance teamwork through optimised process management and greater sharing of data between all the departments involved. It also facilitates the quality control process which is very complex at Zucchetti.”

Inserting data on the PLM system will speed up access and re-use of information thereby facilitating the harmonisation and standardisation of components. Dialog between the PLM and the existing ERP will make parts lists directly available in the management system without the need to copy data over manually. Given that a water tap has 50 to 60 parts it is not difficult to imagine that dispensing with manual copying will save time and reduce errors. In the coming two years further additions across company departments are planned.

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Autodesk Announces Vancouver, British Columbia as Third City of Its Digital Cities Initiative

18 March 2009

[Autodesk](#) announced it has designated Vancouver as the third pilot city of its Digital Cities initiative. A Digital City provides a way for the public, city government, construction and business communities to combine mapping, building, civil engineering, and utility information into an accurate city model that can be used to simulate the future impact of decisions at a city-wide scale. Autodesk previously announced two other pilot cities in its Digital Cities program: Salzburg, Austria and Incheon, Korea.

The City of Vancouver is renowned for its innovative and sustainable approaches to urban development. The City of Vancouver plans to use Autodesk technology to aid its sustainability efforts; interact and share information with its residents and businesses; and prepare for future development and improved public participation. The goal of this pilot program is for Vancouver to be able to bring together 3D models of above and below ground features in an open platform that supports secure and robust integration of CAD, building information modeling (BIM), geospatial, civil engineering, and infrastructure data over a wide geographic area. By combining this data with realistic visualization, analysis and simulation tools, the City of Vancouver can deliver an intuitive and compelling way to understand the impact of plans and proposals from any point in time and from any point of view.

The City will be working with Autodesk to develop and deliver technologies that can best meet the needs of Vancouver's citizens and build on the City's existing resources like VanMap, a web-based map system that pulls together information and data from a variety of sources including street names, property lines, zoning information, and locations of sewer and water mains.

"Urban design at a city-wide scale is the next great design challenge. Our Digital City technology provides cities like Vancouver with a comprehensive approach to create a sustainable city that balances economic and engineering demands with environmental and social needs," said Jay Bhatt, senior vice president, AEC solutions, Autodesk. "Autodesk is uniquely positioned to help cities meet and overcome the challenges to visualize and simulate their future growth. While Salzburg plans to use Digital Cities technology for helping manage an aged and prized infrastructure and the city of Incheon will focus on

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how to build -- from the ground up -- a city of the future, the City of Vancouver will use Autodesk technology to extend its leadership role as one of the most liveable and progressive cities in the world."

About Digital Cities Technology

The Digital City initiative is Autodesk's technology designed to provide a collaborative environment for visualizing, analyzing and simulating the future impact of urban design and development at a city-wide scale. A Digital City allows stakeholders from the public, city government, construction, and business communities to work together to understand how many different proposals could impact the urban environment by experiencing the future of the city before it becomes real.

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Bostik Deploys Sopheon's Accolade® System to Enhance Product Innovation Results

18 March 2009

Sopheon announced that Bostik SA, one of the world's leading manufacturers of adhesives and sealants, has implemented Sopheon's Accolade system to support advancement of the company's product innovation processes. The deployment provides access to the Sopheon software by cross-functional teams and business leaders responsible for product development and commercialization throughout Bostik's worldwide operations.

Bostik's history is a testimony to the business value of product innovation. Founded in 1889, the company began as a manufacturer of adhesives and polish for leather work and shoemaking. In the ensuing years, its product lines grew and became more diversified. For instance, a strategic focus on finding new applications for its chemical know-how led to the invention of hot-melt adhesives. The technology was used initially during World War II to hold parachute dummies together. Today, Bostik's adhesives are used for everything from sealing cereal boxes and gluing disposable diapers to bonding hulls to decks on leisure boats. The contribution of new products to Bostik's sales shows a pattern of consistent year-over-year increases.

"Innovation is the engine that drives sustainable, profitable growth," said Bruno Charriere, corporate innovation director for Bostik. "We have stepped up our investment in product innovation with the objectives of growing faster and strengthening our competitive position through increased differentiation. With Sopheon's solution, we have end-to-end visibility and management across our product ideation, selection, development and commercialization processes. The software gives us the consistent data we need for sound product innovation decisions. We view Accolade as a critical enabler of our efforts to ensure that we invest our resources in the right product opportunities, and bring those products to market at the right time."

Bostik's choice of Accolade was based on such advantages as the solution's ease-of-use and simple configurability, and its strong alignment with the Stage-Gate® product development methodology that had already been introduced within the company. Executives benefit from comprehensive views of product portfolios that inform go/kill decisions about products in the pipeline and help to keep resources focused on the most commercially promising projects. The system's reporting capabilities are used to make certain that project activity is aligned with financial and strategic business targets and linked to the company's operating plans. The software also facilitates shared learning and knowledge reuse among the company's cross-functional product development teams, helping them to avoid redundant work effort.

CIMdata PLM Industry Summary

Bostik's implementation of Accolade includes the software's idea management and screening module, which facilitates the generation, capture and assessment of new product ideas. Bostik also intends to take advantage of Accolade's capacity to integrate with Microsoft® Office technology, a step that will give product development teams and executives the ability to access and share project-related information from enterprise-wide systems and use that data to make faster, better portfolio management decisions.

Sopheon partner and affiliate Sopheon France was responsible for the sale of Accolade to Bostik. It supported implementation of the software and subsequently maintains it. Patrice Duponchel, founding manager of Sopheon France, said, "As one of the top global manufacturers in France, Bostik is a skilled practitioner in the area of product innovation. And their business results have long shown it. A central thrust of Bostik's approach to product life cycle management is to find methods and tools that can add sophistication to their innovation processes by driving decisions that improve growth and profitability. Accolade is unsurpassed in its capacity to support the range of operational and business decision-making associated with product innovation. It is well-matched to the strategic goals of Bostik's continuing commitment to innovation-driven success."

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Delcam Software Used by Bowes to Develop Airbus Cabin Interiors

18 March 2009

Delcam's CAD/CAM software has been used by Bowes Design and Development in most projects it has undertaken for the last 15 years, including two projects within the development of the cabin interiors for the Airbus A380. The first project was to develop a concept interior; the second to manufacture replica cabin linings for climate-control testing.

The interior project, which was undertaken in association with a team of design consultants, involved the development of the complete cabin, including the seating, lighting and a bar, within 20 weeks. To complete the work to deadline, the cabin was divided into a number of sections that were manufactured, checked and finished with the Delcam software before being shipped to Toulouse for assembly.

The cabin linings had to be delivered to the Airbus engineering division in Hamburg with an even shorter deadline of 16 weeks. Unlike mock-ups for sales and marketing, the engineering prototypes had to perform under real-life conditions and be subjected to the full range of environmental conditions that could be experienced in the cabin. The replica cabin met and exceeded customer expectations, in both temperature and humidity testing, and so provided an important contribution to the development of the A380.

While this type of work may provide some of Bowes' most high-profile projects, it only makes up half of the company's business. The remainder comes from the automotive, marine and other industries. The range of processes used is equally diverse, including direct machining, reaction injection moulding, vacuum casting, resin transfer moulding, thermoforming, and carbon fibre-reinforced plastics moulding and hand lay-up.

This diversity is an important part of the company's success according to Director Dave Thompson. "Most of our clients provide a CAD model that needs to be turned into a physical prototype," he explained. "With our range of processes, we can choose the route that is most cost-effective and that will also meet the customer's quality requirements."

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To provide all these services, Bowes has thirteen CNC machines, six of which are five-axis. These are used to give a very fast, accurate turn around. The largest is a CMS router that is 4.8 x 2.4 x 1.2 metres. “We use the different machines for different materials and applications,” said Mr. Thompson. “For example, our newest piece of equipment is a DMG DMU 100 that we chose for machining aluminium injection moulds for short-run production. This is a growing part of our business and the results from the new machine have been very impressive.”

In contrast, in its 18 years of using CAD/CAM, Bowes has always stuck with Delcam software. The company now uses the PowerSHAPE modelling software to design all its different types of tooling from the CAD models supplied by its customers. Delcam’s PowerMILL CAM system is used for all the machining, whether it is the direct production of finished parts or the manufacture of tooling. Similarly, all inspection is carried out with the PowerINSPECT inspection software, both on a conventional coordinate measuring machine and on a portable FARO inspection arm.

Paul Beckett, who has been using the Delcam software for fifteen years and is now Managing Director, said “Delcam is established as the leading system for toolmaking and cutter-path generation. Now it is even more dominant. Our [Delcam](#) software always does the job. It is extremely flexible, which is essential for our variety of processes, and gets faster with every release, which we need when customers want projects completed the day before they place the order. Over the years, we’ve looked at other systems but we’ve never felt any need to change from Delcam.”

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Delcam’s FeatureCAM Gives Five-Axis Profit in Four Months

March 20, 2009

Padgett Machine has turned a profit on a new five-axis machine in just four months thanks to [Delcam](#)’s FeatureCAM feature-based CAM system. The AS9100-compliant machining company of fifteen employees based in Tulsa, Oklahoma, recently added a five-axis Haas machine and moved up to the five-axis version of FeatureCAM. It was already using the software across the range of other CNC machines in its shop.

“Adding this capability has put perhaps 35% onto our gross sales,” claimed company president Ed Padgett. “Four months into this new line of work and we are already profitable with it. That would not have been possible without FeatureCAM.”

“Using FeatureCAM’s five-axis capabilities allowed us to hold the part so that we can machine on the top and four sides in one setup, saving us quite a bit of time and providing much better results,” said Mr. Padgett. “In a three-axis machine, it would take eight or nine setups for some of the parts that we can now do in one operation.”

Shops like Padgett are the backbone of the aircraft-maintenance industry. 95% of its work is for military aircraft. Most of it starts with an old drawing, sometimes more than 50 years old. “It may take ten to fifteen hours per part to develop the geometry and load all the dimensions, but FeatureCAM lets us quickly build the features of the part in order to generate the CNC program,” said Mr. Padgett.

The FeatureCAM edge is important. “We have to be competitive against many other approved vendors every time a job is offered or I lose my business,” Mr. Padgett stressed. “So far, we have been able to keep our niche, working in heavy maintenance programmes for military aircraft.”

One of Padgett’s recent jobs included 75 different replacement parts for F-16 jet fighters. Among the

CIMdata PLM Industry Summary

most complex were sixteen supports holding the wings. Each had a different surface where it had to meet the fuselage of the plane. "The surface on this critical part is accomplished with just one command in FeatureCAM, saving me a lot of programming time," commented Mr. Padgett.

Padgett also provides parts for B-52 bombers. "It's mind-boggling how they built more than 700 of these planes in the 1950s, without the benefit of CNC," said Mr. Padgett. "The process code for just one of the parts we are working on is over 160,000 lines. FeatureCAM processes it in less than 20 seconds."

Another use for FeatureCAM is in helping to build quotes. "Scheduling is always a big issue with our customers," explained Mr. Padgett. "With FeatureCAM, we can do this quickly and efficiently, and at less cost. I can do a time study that will be accurate to within 2-3% of what it will cost to produce a part."

According to Mr. Padgett's experience, "If you do not have CAM software, you cannot be competitive because these programs cannot be written manually. You would be out of business before you got it done." Far from being out of business, Padgett is planning its next expansion. The company has purchased land adjoining its existing site and is ready to double its plant size.

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Dellalui Selects PLM, Sourcing from Centric Software

17 March 2009

Dellalui, the French manufacturer and marketer of men's and women's apparel, has become the latest fashion company to purchase the product lifecycle management (PLM) system from Centric Software, Inc.

Centric provides PLM and sourcing solutions for companies in the consumer goods and fashion industries, including those that globally source private-label products. Dellalui will use the product sourcing, calendar management and other modules of the Centric 8 PLM and sourcing system to capture, track and efficiently communicate information throughout the entire product lifecycle process, according to Maurice Kammoun, Dellalui's managing director.

"To meet our rigid delivery schedules to customers throughout Europe, we must have - and share with everyone involved - precise information during every aspect of the process," says Kammoun. With design and product management in France, manufacturing in Asia and retail clients spread throughout Europe, "getting consistent, reliable, up-to-date information to everyone in real time is critical. Centric's Web-based platform makes that happen, simply and easily."

Historically, Dellalui has used many spreadsheets and reports to cross-aggregate information about materials and styles, explains Olivier Stainmesse, the company's supply chain manager. With Centric 8, the company can eliminate the spreadsheets and instead rely on a full solution that its fast development cycle, highly complex production network of global manufacturers, and exacting standards require. Citing Dellalui's reputation for high-quality products and diversity of clients - which range from large retailers and mail order companies to several thousand small boutiques - Stainmesse stresses that they "cannot afford mistakes," and affirms that "Centric will provide needed visibility by delivering a complete view of our process, from order to customer delivery."

The [Dellalui](#) team also cited Centric for its implementation services. "We were quite impressed by the expertise of the [Centric](#) team, and with its reputation for delivering value through quick implementation," notes Stainmesse. Fast implementation and ease of use are Centric hallmarks, says

CIMdata PLM Industry Summary

Chris Groves, president and CEO of Centric. "Particularly in today's economy, as companies look to do more with less, customers need the rapid financial results our solutions deliver. We are confident Dellalui will join the rest of our customer base in quickly gaining a competitive advantage with Centric 8."

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FORTUNE 500-Ameren Corporation Selects Enterprise Informatics Software for New Quality Management Program

13 March 2009

[Enterprise Informatics](#) has announced that Ameren Corporation, a FORTUNE 500 utility company based in St. Louis, Missouri, has selected eB to support a new Quality Management Program it is initiating throughout company to procedurally standardize the manner in which the plant assets are operated and maintained. Enterprise Informatics' software will be used to manage inter-dependent operational information core to the support of the Quality Management business process with the initial focus on Document Control, Quality Records, Design Control, Corrective Action, and Project Management.

Employing 9,000 people, Ameren provides energy services to 2.4 million electric customers and nearly one million natural gas customers across Illinois and Missouri.

"Ameren has been using our eB Nuclear Application Suite at its Callaway Nuclear Power Plant for approximately 14 years," explains Glenn Cox, Enterprise Informatics' Vice President, Energy. "They have been focusing on growing their core energy operations in the transmission and distribution of power generated by fossil and hydro plants. With this selection, Ameren is expanding the eB footprint to apply our energy-focused solutions to non-nuclear business processes throughout the enterprise," he adds.

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Great Wall Motor Drives New Era of Eco-Design with Dassault Systemes PLM Solutions

17 March 2009

Dassault Systemes ([DS](#)) announced that Great Wall Motor Company Limited ([GWM](#)), the largest commercial pickup and SUV manufacturer in China, has chosen Dassault Systemes' ENOVIA Materials Compliance Central™ to establish an enterprise-wide compliance platform to promote eco-design. The solution, which is being deployed in partnership with D&A Technology (Shanghai) Co., Ltd., a Dassault Systemes' partner in China, will significantly improve GWM's competitiveness in a new era where environmental compliance is a basic requirement and a key strategy in GWM successfully expanding its global presence.

Based on the ENOVIA V6 platform, ENOVIA Materials Compliance Central is a business-process application, designed to empower companies to adopt proactive environmental compliance strategies throughout a product's lifecycle, from design to disposal. This application provides automobile companies like GWM with material verification solutions. ENOVIA Materials Compliance Central provides strong search mechanisms and analytical capabilities to verify whether the materials in the entire product lifecycle meet the requirements of the relevant regional and global regulations, enabling enterprises to collect, sort and generate part-level material verification reports and material composition

data more easily.

By introducing a stronger sense of corporate social responsibility and increasingly stringent materials compliance regulations, countries have made “green” a trend in the manufacturing industry. GWM views social responsibility and eco-design as core elements of its mission.

Li ShuLi, deputy president, R&D Center, Great Wall Motor Company stated, “Ensuring that our products comply with key international material compliance and environmental regulations will be a crucial element of our long term business success and commitment to green initiatives as we look to expand overseas. The deployment of Dassault Systemes’ ENOVIA Materials Compliance Central represents a significant investment enabling us to proactively manage all of the reporting and analysis requirements for all of the thousands of parts and multitude of suppliers involved in the development of our products.”

“We are very pleased to announce the expansion of our relationship with Great Wall Motor to incorporate eco-design which is one of their most strategic, long term business initiatives. Moving forward we believe that being able to effectively navigate the complex world of international regulatory compliance will be paramount to timely innovation and new product development,” says Zhao Heng, Vice President, Greater China Value Channel, Dassault Systemes. “GWM’s adoption of the ENOVIA Materials Compliance Central provides additional evidence that our dedicated compliance solutions are gaining traction internationally and across a variety of key vertical markets including auto and high tech.”

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“Green Friendly” White House Playground Set was Designed in SolidWorks by Rainbow Play Systems of South Dakota

13 March 2009

First daughters Malia and Sasha Obama got a big surprise after school on Wednesday, March 4th, 2009: a brand-new swing set from Rainbow Play Systems, a Dassault Systèmes SolidWorks Corporation and Alignex, Incorporated customer.

The “Green Friendly” set, which Rainbow Play Systems have dubbed, “Malia & Sasha's Castle” includes features for both active and passive play, including a "penthouse" with a double bubble, overhead monkey bars, shimmy bars, four standard swings, a race car tire swing, rock wall, step chain ladder, slide, binoculars, periscopes and chalkboard. The design of the set was reversed from the standard design model so that the "double bubble" faces the Oval Office, where President Obama can keep an eye on his daughters at play.

The design for the “Rainbow Castle” branded system was accomplished utilizing SolidWorks 3D Mechanical Design (CAD) software. This manufacturing software allowed the designers the flexibility to develop multiple configurations of parts and subsystems that makes customizing the final design layout a simple process. “SolidWorks helps us provide the customer with the exact play system they are looking for,” said Jon Mattson, Product Design Manager for Rainbow Play Systems.

The 100 percent North American Cedar and Redwood structure was an important selling point due to President Obama drive to promote green energy. Rainbow Play Systems markets these materials as an "environmentally responsible choice". Original Rainbow ® Play Systems contain only “Certified” lumber from 3rd party inspected mills that comply with all Local, State, and Federal harvesting

regulations.

A factory crew from the Brookings plant, including Foster, installed the play set along with a “Presidential” picnic table, which was a gift for the Obama’s. The massive wooden table now sits near the swing set and features brass plates etched with the names of all 44 presidents.

A plaque on the play system reads: "Established March 4th, 2009, Malia & Sasha's Castle, Handcrafted with Pride in the Heartland of America, Beautiful Brookings, South Dakota, The Hometown of: Rainbow Play Systems, Inc., God Bless America."

Malia, 10, and Sasha, 7, were said to have greeted the swing set with "squeals of joy", according to White House staff. The girls played on the set for almost an hour in chilly weather that afternoon. Their mother went for a swing, too.

About Rainbow Play Systems

Rainbow Play Systems has grown from a small custom job shop in Minnesota to a high-tech manufacturing facility on 130 acres in the heartland of America-Beautiful Brookings, South Dakota. While the scale of our operation has changed over the last 24 years, our focus has not. We continue to pride ourselves on manufacturing the safest, most durable and highest-quality play systems available in America.

About Alignex, Inc.

Alignex is an Engineering technology company that assists their customers in improving their manufacturing process, whether through software solutions or engineering services. Serving Minnesota, Iowa, North Dakota, South Dakota and western areas of Wisconsin and Illinois, Alignex has been the premier SolidWorks Reseller in the Upper Midwest for 11 years and in business as an engineering technology provider for nearly 20 years. Alignex has helped over 1000 companies make the transition to SolidWorks from a wide variety of 2D and 3D CAD formats.

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Maple Leaf Foods Selects SAP Software to Enhance Business Efficiency

March 16, 2009

[SAP Canada Inc.](#), a subsidiary of [SAP AG](#), today announced that Maple Leaf Foods Inc. will implement SAP® software to provide an integrated technology platform across its global operations, help increase operational efficiencies and support its growth plans.

Headquartered in Toronto, Maple Leaf Foods is a household name in the Canadian food industry, with a portfolio of leading brands such as Maple Leaf, Dempster's, Olivieri and Schneiders, and has significant and growing bakery operations in the United States and the U.K. To support its goal of establishing a highly efficient and fully integrated systems and shared services organization, Maple Leaf Foods will implement SAP® Business Suite software and industry-specific applications.

“Maple Leaf Foods requires a flexible, integrated information system that provides a single, consistent view of data to support our growth as a global food company,” said Michael Vels, chief financial officer, Maple Leaf Foods. “The capabilities of SAP will streamline our customer interface, increase our speed to market and reduce operating costs. The software will provide us with the ability to incorporate best practices in the consumer packaged goods industry in North America and worldwide. SAP’s best practices and deep integration in consumer packaged goods functionality will help us achieve our

business goals.”

Maple Leaf Foods will implement SAP solutions using a phased approach. The company will first leverage SAP's market-leading enterprise resource planning application, SAP® ERP, which helps companies continually improve their core processes, including financials, human resources, manufacturing, sales, procurement and logistics. In addition, SAP enhancement packages are designed to enable leading organizations like Maple Leaf Foods to embrace continuous innovation while minimizing any potential disruption to its business. SAP enhancement packages allow customers to select and deploy only the functionality they need without upgrading their entire solution—leaving long implementations, upgrades and disintegrated point solutions in the past (see related Nov. 12, 2008 press release, titled “Latest Enhancement Package from SAP Delivers Innovation and Value to Customers in Challenging Economic Times”).

Maple Leaf Foods will also deploy the SAP for Consumer Products solution portfolio, a set of applications with industry-specific functionalities to help food companies become more demand-driven. The applications serve to enable innovation of business processes and products, speed time to market for new products, reduce operating costs, meet regulatory requirements and increase visibility and responsiveness throughout its supply chain. In addition, Maple Leaf Foods will leverage solutions within the SAP® BusinessObjects™ portfolio, which help organizations better monitor business performance, increase process transparency, spot inefficiencies and identify and leverage growth opportunities.

“Consumer products companies such as Maple Leaf Foods operate in a very competitive market,” said Mark Aboud, president and managing director, SAP Canada Inc. “To gain a competitive edge, these companies need to meet the volatile demands of their customers by introducing affordable quality products much faster than their competitors and meet increasingly stringent industry regulations. SAP’s industry-rich solutions are expected to help Maple Leaf Foods to further strengthen its business processes, tighten costs, increase sales and marketing effectiveness, manage risk and enhance global competitiveness.”

Maple Leaf Foods joins more than 3,000 consumer products companies worldwide that use SAP solutions to power their businesses.

About Maple Leaf Foods Inc.

Maple Leaf Foods Inc. is a leading food processing company, headquartered in Toronto, Canada . The Company employs approximately 23,500 people at its operations across Canada and in the United States, the United Kingdom and Asia . The Company had sales of \$5.2 billion in 2008.

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Mindray Delivers Award Winning Medical Devices Designed with Pro/ENGINEER and Pro/INTRALINK

17 March 2009

PTC announced that [Mindray](#) Medical International Co. Ltd, one of the leading manufacturers of medical devices in China, has grown its business with the implementation of PTC Pro/ENGINEER and Pro/INTRALINK. Mindray’s patient monitoring products and its digital ultrasound imaging systems, blood cell analyzers and biochemical analyzers continue to lead the medical devices market. Mindray’s products were developed using Pro/ENGINEER, PTC’s integrated CAD/CAM/CAE software that helps companies develop detailed, intuitive and realistic digital product representations and Pro/INTRALINK,

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PTC's software for Pro/ENGINEER workgroup data management.

Mindray continues to develop innovative products with the implementation of Pro/ENGINEER and Pro/INTRALINK, including decreasing time-to-market and costs while improving quality and overall efficiencies. In addition, customer satisfaction has also been improved by leveraging ProductView, PTC's 3D visualization tool to provide better insight into what products will look like and how they will behave when produced.

With Pro/INTRALINK, Mindray has a tool that can help eliminate inconsistency between parts, enabling simultaneous engineering among divisions and improving overall product design. With Pro/INTRALINK's version control, Mindray can enable its design teams to share the right version of Pro/ENGINEER data as compared with its previous 2D design process. Furthermore, with the standardization of its structural design process, Mindray has improved its version control and ability to manage changes.

"Pro/ENGINEER empowers us to create a complete 3D design containing all required parts and components. Now we are capable of analyzing and evaluating an entire model easily," said Mr. Mu Le Min, VP of Operation of Mindray. "The number of drawings has decreased and evaluation accuracy has improved, achieving the goal of reducing the development cycle time and cost. Moreover, machining and assembly have been refined without rework through easy access to CAD/CAM data. This has virtually eliminated the necessity of redrawing. Ultimately, the changes we made in 3D design have benefited the company from both environmental regulation and cost perspectives."

"Life sciences customers are facing more pressures in their businesses to speed time-to-market while meeting increasingly stringent regulatory demands," said David Rubin, director of vertical market strategy, life sciences industry, [PTC](#). "The accolades that Mindray has received on their innovative designs and craftsmanship are a testament to the company's pioneering status in the realm of medical industrial design."

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Next-Generation Medical Device Companies Adopt Arena to Improve Their Product Development Processes

18 March 2009

[Arena Solutions](#) announced its software is being used by some of the hottest new medical device manufacturers defining what is possible in healthcare now and in the future. The latest companies in the medical device industry to adopt Arena -- ACUTemp, VasoNova, ProGenTech Ltd., and Nanostim -- share a culture of innovation and have realized early in the lives of their businesses that it's more important than ever, despite the challenging economic climate, to support their operations teams with tools that help get their products to market in line with time, cost, regulatory and quality expectations.

Arena provides these medical device manufacturers a collaborative environment for centralizing, controlling and analyzing complex and constantly changing product information, including the design history file (DHF), device master record (DMR), bills of materials (BOMs), part specifications and change orders. The software helps reduce design errors while increasing the speed of information exchange across the enterprise and with its outsourcing partners. In addition, Arena makes it much easier for small and mid-size medical device manufacturers to comply with the ever-changing standards and regulations that govern the development and delivery of products in their industry.

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The companies using Arena to gain greater control over their design and manufacturing processes are bringing to market new technologies that will significantly benefit healthcare across the nation and throughout the world. Among them are:

- **AcuTemp Thermal Systems**, which is responsible for the design and manufacture of reliable products for the storage and transport of temperature-sensitive goods that enhance or save human life.
- **Nanostim, Inc.**, a company that creates miniaturized, leadless cardiac pacemakers.
- **VasoNova**, which is developing a new peripherally inserted central catheter to facilitate easier, more accurate catheter placement.
- **ProGenTech Limited**, a life science and molecular diagnostics company committed to delivering next-generation instrumentation for nucleic acid and protein purification and molecular diagnostic testing.

Because Arena is a web-native, on-demand (SaaS) application, these small and mid-size manufacturers have been easily able to take advantage of its benefits in the areas of availability, cost savings, security, ease of implementation and ease of use. With no servers or IT staff required, companies are able to get up and running with little to no investment or overhead.

Perhaps the most significant advantage of the SaaS model is the Arena Validation Maintenance Service (VMS). Arena is able to provide customers with results of its internal software validation for use as their own evidence of system compliance, saving customers the time and expense associated with completing these efforts themselves. This type of service is not available with traditional client/server software and can often take internal teams hundreds of hours every time a new software version is released.

"Our newest medical device customers are terrific examples of innovative companies with great foresight. They are staying squarely focused on getting their products to market instead of on trying to work with, and ultimately around, inefficient and error-prone spreadsheet software that many small and mid-size companies use at the start and quickly find to be one of their greatest roadblocks," said Marc Escobosa, vice president of product design at Arena Solutions. "When it comes to the success of their companies, these managers have recognized the critical role played by their operations professionals, quality and regulatory leaders and key team members like document control managers, and have made sure to provide them with software that can enhance the way they do their jobs."

To offer strategies for how to address the unique obstacles medical manufacturers face in effectively managing and securely sharing their product information, Arena Solutions has written a whitepaper, titled "Beyond Colored Folders and Spreadsheets: Next-Generation Document Control for the Medical Device Industry." The complimentary whitepaper discusses the issues and risks associated with using manual processes, paper folders and network drives for the distribution, sign-off and storage of device records, and it gives insight into how automated, electronic solutions can help medical device companies manage their DMR, DHF and change orders easily and efficiently without extra validation overhead. To download the free document, please go to: <http://www.arenasolutions.com/medical-device>.

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PlanetSolar Taps Autodesk Digital Prototyping Software for First Solar-Powered Round-the-World Voyage

18 March 2009

CIMdata PLM Industry Summary

[Autodesk](#) is sponsoring a unique project from PlanetSolar to produce the world's largest solar-powered sailboat capable of circumnavigating the globe.

Based in Germany, PlanetSolar is leading the project to construct the solar catamaran, and Autodesk is supplying the Digital Prototyping technology and training that will help PlanetSolar design and build it. Autodesk supplied PlanetSolar engineers with Digital Prototyping software from the Autodesk Inventor and Autodesk Alias product families along with AutoCAD Electrical and Autodesk Productstream to help PlanetSolar digitally design, visualize and simulate the solar catamaran before it is built.

The project is the brainchild of Raphael Domjan, president of PlanetSolar, who will also pilot the boat. PlanetSolar aims to demonstrate the potential of renewable energies, such as solar power, through technological developments while advancing hybrid and electric-powered means of transport.

"Our planet deserves better. We have to start asking ourselves what tomorrow's technologies will be, and at the same time, offer answers," said Domjan. "Engineers and scientists need to be motivated to develop innovative technologies that inspire people and show that we can achieve the impossible.

Autodesk software enables our engineers to carry out extensive testing without wasting time and materials building a costly physical prototype."

"Building an actual prototype of the vessel would contradict the environmental philosophy of the project," said Robert "Buzz" Kross, senior vice president, Manufacturing Industry Group at Autodesk. "Our design software helps designers to make more sustainable choices at key points in the design, engineering and manufacturing process. The Autodesk solution for Digital Prototyping enables engineers to develop products in an environmentally friendly manner using a minimum of resources."

The Knierim Yachtbau in Kiel, Germany, will assemble the boat. The first solar-powered circumnavigation of the globe is planned for 2010 along the equatorial route. The voyage - which will cover nearly 25,000 miles (more than 40,000 kilometers) at an average speed of 10 knots -- is expected to take about 120 days and set several new world records. Stops are planned in major harbors where the capabilities of renewable energies and solar power will be on display to a wider audience. For more information, visit <http://www.planetsolar.org>.

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Procter & Gamble Selects Dassault Systemes as Enterprise Simulation Partner

19 March 2009

Dassault Systemes ([DS](#)) announced that Procter & Gamble Company (P&G) has selected [SIMULIA](#) SLM as their simulation lifecycle management solution to support P&G's modeling & simulation strategy.

The announcement evolves the long-standing business relationship in the simulation domain from one of solution provider into a strategic, collaborative partnership. By working closely with SIMULIA, P&G will define critical SLM requirements and identify out-of-the-box capabilities that will be incorporated into the general SIMULIA SLM solution and adopted globally within P&G.

"P&G shares a common vision with SIMULIA regarding the democratization of predictive simulation," said Tom Lange, Director, Corporate R&D Modeling and Simulation, Procter & Gamble. "It is our goal to make the benefits of realistic simulation available to a broader range of users than previously possible. SIMULIA SLM will help our global teams accelerate innovation by providing access to

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simulation tools, validated processes and corporate knowledge bases throughout the product lifecycle.”

Based on Dassault Systemes’ V6 platform, the online collaborative environment for PLM 2.0, SIMULIA SLM enables P&G to capture, share and automate the execution of approved simulation methods, improve traceability of simulation data, and accelerate decision-making while securing valuable intellectual property.

“We are pleased to have established a strategic relationship with Dassault Systemes and its SIMULIA brand to further define the robust, feature-rich solution for simulation lifecycle management at P&G,” stated Andrea Berger, Associate Director, Information Technology, GBS, Procter & Gamble.

“Incorporating our simulation processes, applications and data into a managed and controlled environment is a critical element to our success. We are confident SIMULIA SLM will provide P&G the best simulation data and process management foundation that fully supports our modeling & simulation strategy and seamlessly integrates into our broader ENOVIA-based PLM environment.”

“As an innovative leader in the consumer packaged goods industry, P&G continues to set the standard for product development,” stated Scott Berkey, CEO, SIMULIA. “The partnership with SIMULIA will help the company develop better products and test them more efficiently—ultimately lowering costs and accelerating delivery of innovative products to consumers.”

The selection of SIMULIA SLM reinforces P&G’s recently announced commitment to leveraging Dassault Systemes’ V6 technology. By integrating its existing systems with ENOVIA’s Consumer Packaged Goods (CPG) Accelerator™ for Global Specification Management, P&G will be able to better manage products spanning multiple brands and markets.

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Up in the Sky, it’s a Plane ... But on the Road, it’s a Car

18 March 2009

[Terrafugia](#) is one of only a few aeronautics companies in the world that has to design its aircraft to survive hitting a pothole at 40 mph. That’s because Terrafugia’s [Transition](#)® aircraft can convert into road-legal vehicle once on the ground, Dassault Systèmes SolidWorks Corp. announced today.

Terrafugia used [SolidWorks® 3D CAD](#) software to model the Transition and make the precise calculations needed to meet both aircraft and road vehicle safety and performance standards. As a double-duty vehicle, the Transition has to be light enough to get off the ground, yet sturdy enough to pass government regulations for crash safety. That meant reducing the amount of material wherever possible, which Terrafugia did by using [SolidWorks Simulation](#) to closely calculate the amount of material that could be reduced from key assemblies without compromising performance. Transition recently completed its first test flight at Plattsburgh International Airport in New York.

Key points about Terrafugia’s Transition:

The Transition is in a category of vehicles called [roadable aircraft](#). Unlike [novelty flying cars](#), which can be anything from a military hovercraft to a road car with wings grafted onto it, the Transition is first and foremost an aircraft. It is designed primarily for private pilots who fly to business and personal engagements and need a road vehicle for commuting to and from airports.

In addition to its flight assemblies, the Transition has a full automotive suspension, crumple zones, and roll cages to meet [safety standards](#) for road vehicles. Its wings fold to the side with the push of a button

in the cockpit.

Terrafugia's design team used SolidWorks to model the Transition's major assemblies and ensure they would fit together properly before the company committed to physical construction. The machine shops that manufactured components for the aircraft also used SolidWorks 3D models to build the parts.

Terrafugia relies on authorized SolidWorks reseller [CADD Edge](#) for ongoing software training, implementation, and support.

Terrafugia quotables:

"We put all our designs into SolidWorks, then used the finite element analysis features to determine how much material we could cut out of the design without compromising Transition's integrity as a road vehicle. SolidWorks let us be very precise, which was important because every ounce counts in this design."

"It's interesting how much reality matches what's in SolidWorks. All the little details we see on the screen end up in reality, so we can modify the design to eliminate whatever we don't want in the finished product. If we were working with just physical prototypes, we'd end up sanding those unwanted details off the parts by hand."

Samuel Schweighart

Vice President of Engineering and Co-Founder

Terrafugia

About Terrafugia

Terrafugia (terra-FOO-gee-ah), based in Woburn, MA, is comprised of a team of engineers who have been advancing the state of personal aircraft since 2006. Founded by five pilots who are graduates of MIT and supported by a world-class network of advisors and private investors, Terrafugia's mission is the innovative expansion of personal mobility. "Terrafugia" is Latin for "escape from land."

For more information, visit <http://www.terrafugia.com>.

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Wind Turbine Manufacturer WinWinD Continues to Grow with IFS Applications

16 March 2009

WinWinD Oy, headquartered in Helsinki, Finland, has signed an agreement with IFS for the delivery of a complete ERP solution for its entire operations. WinWinD has developed a low-speed 1 MW and 3 MW turbines and is extending its production facilities in Finland and India.

An advanced planetary gear solution and low-speed synchronous generator form the heart of the concept, which combines the reliability of a modern direct drive and the compactness of the traditional high speed gear system. Low rotational speed and proper dimensioning ensure reliability and high availability.

Rapidly growing WinWinD will use IFS Applications components for financials, distribution, manufacturing, project management, document management and service management. The company is looking to manage its rapid growth with a global solution that can handle all its business-critical processes and increase visibility throughout the product lifecycle.

Global ERP Project Owner Markku Korhonen at WinWinD said, “IFS has a strong presence in Finland and India and with strong global references. The component architecture of IFS Applications is modern and scalable, and it supports our operations—from design and installation to the all-important service at the customer site.

Furthermore, IFS Applications was the most user-friendly solution for all levels of users.

In India a major manufacturing plant for the 1MW turbines will start production in the near future and in Finland a new 3MW turbine factory will be built during 2009.

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Product News

3DVIA Announces Virtools Support for Xbox 360 Development

March 17, 2009

[Dassault Systèmes](#) (DS), a world leader in 3D, today announced Xbox 360 support in the latest release of its game development engine, [3DVIA](#) Virtools 5. With the new addition of Xbox 360 support, 3DVIA Virtools 5 continues to help reduce development time and costs by allowing developers to create a game within the 3DVIA Virtools 5 engine once and publish it to multiple platforms, including Xbox 360, Wii, PC, Mac or the Web, without any code modifications.

“The addition of Xbox 360 to 3DVIA Virtools 5 makes it a more versatile tool for developers, catering to the growing demands of the gaming public,” said Lynne Wilson, CEO of Dassault Systèmes’ 3DVIA brand. “With this enhancement, 3DVIA continues to provide professional-grade game development capabilities that make the development process easy and quick across multiple platforms.”

In addition to the range of publishing capabilities, 3DVIA Virtools has a dedicated support team, offering customers consultation and other types support at critical milestones, including the certification process, which is essential to releasing a game on consoles.

“Our 3DVIA Virtools 5 beta testers were very pleased with the addition of Xbox 360 support, both for casual retail games and Xbox Live Arcade titles,” said Virgile Delporte, vice president of electronic entertainment, 3DVIA, Dassault Systèmes. “The ability to ‘create once, publish to many’ enables developers to show a working game on the target platform in record time and saves development teams hours of code rewrites and frustration at the most critical time in the development schedule just before a release.”

3DVIA Virtools 5 will be showcased at the Game Developers Conference in San Francisco March 25-27, at booth number 5738 in the North Hall. 3DVIA will also be demonstrating 3DVIA MP, its next generation visualization engine for AAA game development and 3DVIA.com, its online community of 3D artists and enthusiasts and a resource to share game concepts and models.

About 3DVIA

3DVIA is Dassault Systèmes' brand for lifelike 3D product experiences. 3DVIA extends 3D to new users, businesses and consumers in order to create new communities with 3D as the common language. With its open web services-based architecture, it enables high-performance distribution of 3D content. 3DVIA also delivers authoring products that revolutionize 3D product publishing and the Virtools platform for developing interactive, real-time applications.

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Anark Releases Anark Core 2.2

17 March 2009

Anark Corporation announced the release of the Anark Core™ Platform 2.2. This new release now supports direct export of the Autodesk® DWG format, providing a valuable bridge between mechanical CAD and AEC products and solutions.

The Anark Core platform is a software platform that transforms native 3D CAD data for use throughout manufacturing, design, engineering, and support organizations. Unlike conventional CAD tools and translators, Anark Core enables users to automate the modification of 3D product structure and geometry, and export revised product data into high-precision B-rep and lightweight mesh formats.

The addition of 3D DWG support enables users to convert and simplify their 3D CAD geometry for use in AEC and visualization products such as Autodesk Revit®, Bentley MicroStation, Google SketchUp, 20-20 Technologies Cap Studio™, and others. Anark Core's automation capabilities, coupled with support for 3D mechanical and AEC CAD formats, enables manufacturers to exponentially reduce costs by automating the production of optimized lightweight DWG models for use in layout, space planning, configuration, and catalog applications.

"After receiving a consistently growing number of inquiries and requests, we are happy now to deliver a streamlined bridge between native 3D mechanical CAD data and leading AEC applications," said Stephen Collins, CEO, Anark Corporation. "Anark Core 2.2 includes several robust new features and performance enhancements, and the addition of the DWG format further extends its value to a large and important group of consumers of 3D CAD geometry."

"Our customers and supply chain partners will benefit greatly from the latest version of Anark Core," said Jean Mignault, CEO of 20-20 Technologies. "Autodesk DWG format support will allow them to easily prepare lightweight 3D models for use in our Cap Studio™ and Office Sales™ products, which will dramatically cut their implementation time and cost for their space planning and 3D catalog applications."

Additionally, Anark Core 2.2 includes numerous new features and performance enhancements, including a new feature called "Region Select" that reduces the time to create shell geometry for visualization and simulation applications as well as supply chain data exchange and collaboration. The company also added direct export support for MultiGen-Paradigm's OpenFlight format, the de-facto visual database format for simulation and visualization applications.

Anark Core 2.2 is now available. Please visit <http://www.anark.com> to request for detailed product information and to request a trial version of Anark Core.

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Bentley Releases U.S. and Canadian Versions of Robust Energy Performance Series for 'Green' Building Design

17 March 2009

Bentley Systems, Incorporated announced the immediate availability in the United States and Canada of Bentley's Energy Performance Series, the first robust software for building energy design, analysis, and

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simulation. Bentley's Energy Performance Series, which includes Bentley Tas Simulator V8i, Hevacomp Simulator V8i, and Hevacomp Mechanical Designer V8i, has been proven in the U.K. market for the design and construction of high performance "green" buildings, including the iconic 30 St Mary Axe, Heron Tower, Terminal 5 Heathrow, 122 Leadenhall Street, and CityPoint, London. Now engineers, architects, and energy assessors in the United States and Canada can use this software to accomplish the additional and complex work that successful "green" building projects require – to assure they perform as predicted. This release of the Energy Performance Series highlights Bentley's building performance strategy dedicated to the design, construction, and operation of better-performing, more sustainable buildings.

"In today's economy, you must be certain you are providing your clients the highest quality work for their dollars," said David J. Cusano, BIM/CAD Technology, SSOE, Inc. "This means working both harder and smarter to stretch that investment and assure the building meets expected performance goals. We feel Bentley's Energy Performance Series will help us do just that."

Shaun Ackerly, director, Parsec Consulting Engineers Ltd., said, "Parsec Consulting Engineers has used Hevacomp on many projects, and we find that it gives us an edge over the competition to provide support in our scheme designs. Our commitment to work beyond building regulations would not be achievable without the use of this software; it provides a valuable working platform for all our projects."

Bentley's Energy Performance Series makes it possible to better understand and accurately predict the energy consumption, CO2 emissions, operating costs, and occupant comfort of projects ranging from small and simple to very large and highly complex. It also provides the right tools to effectively and productively design, analyze, and simulate building energy systems.

Noah Eckhouse, vice president of Bentley's Building Performance Group, said, "Bentley's Energy Performance Series fills the void left by existing tools in this arena, which typically are incomplete, siloed, imprecise, and slow. It provides the fastest, most powerful, and most accurate dynamic simulation and analysis available for building load, plant energy, passive design, and thermal simulations. And, because all of the products interoperate, the Energy Performance Series ensures a collaborative process that increases reuse of information. In addition, its support of industry standards, including ASHRAE Standard 90.1-2004, ASHRAE Standard 140-2004 (BESTEST Models), LEED Energy and Atmosphere Credit 1, U.K. Building Regulations Part L2, ISO, ANSI/ASME, CIBSE, and others, facilitates required compliance checking and documentation."

In the United States, the U.S. Green Building Council's LEED program is the emerging standard for evaluating a building's energy performance. Bentley's Energy Performance Series maximizes point accumulation under LEED Energy and Atmosphere Credit 1.

Bentley's Energy Performance Series uses two differently purposed simulation engines to provide building energy design and analysis: the EnergyPlus engine, the standard developed by the U.S. Department of Energy, and the independently developed and highly regarded Tas high-speed engine. The Hevacomp simulation engine is optimized for typical project configurations and to ensure compliance with regulatory requirements and industry best practices. The Tas simulation engine is ideally suited for fast evaluation of multiple options, quick testing of concepts, and comprehensive analysis of large and complex buildings. Hevacomp and Tas simulations can be used in tandem for additional insight and complementary in-depth studies to further optimize building performance.

Users of Bentley's Energy Performance Series can not only quickly create, from 2D floor plans, 3D analysis models with detailed thermal properties, but can also predict – with unrivaled detail and

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accuracy – annual energy consumption, CO2 emissions, and operating costs. Moreover, users can accomplish all of this in a seamless workflow for design, analysis, and simulation.

The high-speed simulation engine allows users to perform analyses more frequently, in sync with the design process. The results of the analyses are timely and actionable, supporting iterative design refinement. Real-time decisions from near-real-time analysis make for a more effective design process and better-performing buildings – setting the bar for the contributions of “green-building” professionals.

The capabilities of Bentley’s Energy Performance Series far exceed those of today’s typical energy modelers. Bentley Tas Simulator V8i and Hevacomp Simulator V8i enable users to perform a complete and in-depth analysis of a building’s architecture and critical systems by considering the interrelationships between multiple systems and aspects of design.

“With the Energy Performance Series, users can study the energy dynamics of a building in conjunction with detailed models of the building’s mechanical systems. These models are created using Hevacomp Mechanical Designer V8i, an indispensable, quick-and-easy design and analysis tool long and widely used across the U.K. to make engineering-quality building load and energy calculations, lay out systems, select equipment, and resize duct and pipe systems. All of the energy analysis and building system engineering data can then be used to develop integrated strategies that maximize efficiencies,” said Eckhouse.

Eckhouse continued, “Additionally, designers can see the effects of their decisions room by room, zone to zone, as well as on the building as a whole, and accurately predict a building’s performance over any specified time. This holistic design approach improves building quality – and reduces the risk of unacceptable building performance associated with systems that only offer static snapshots – by increasing design options.”

Bentley’s Energy Performance Series easily integrates with existing 2D workflows and brings detailed building analysis and simulation to Building Information Modeling (BIM). All of the products work with MicroStation, AutoCAD, and Google SketchUp, and interoperate with Bentley Architecture, Revit, and other BIM programs, facilitating collaborative streamlined workflows.

For additional information about Bentley’s Energy Performance Series, visit <http://www.bentley.com/eps>.

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Cadence Enhances Low-Power Solution Enabling More Predictable Power-Efficient Design

16 March 2009

[Cadence Design Systems, Inc.](#) announced that the Cadence® Low-Power Solution has been enhanced to include support for new on-chip power management schemes enabled by the recently ratified Si2 Common Power Format (CPF) Version 1.1. The enhanced solution spans the Cadence Encounter® digital implementation and logic design technologies, as well as the Incisive® functional verification and system design and verification technologies. This upgraded solution enables designers to more accurately model, analyze and debug power management components targeted for integration into large system-on-chip (SoC) designs. It includes macro modeling, multi-language support for IP integration and automated support of metric-driven verification methodologies, such as those in the new Cadence Incisive Enterprise Simulation Environment.

The power macro-modeling capability enables more accurate characterization and analysis of power

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consumption within complex SoC IP. Additionally, the Cadence Low-Power Solution is completely generalized to enable a multitude of popular programming approaches to IP block integration, and delivers automated low-power design capabilities that extend well beyond implementation. These enhancements enable the IP block or SoC to operate as designed and within the power parameters required by the end application.

One proponent of the enhanced CPF-enabled solution is Virage Logic. The company is consistently an early provider of advanced technology solutions, and over the years has broadened the power management capabilities of its SiWare™ Memory and SiWare™ Logic product lines. By utilizing these products with the Cadence Low-Power Solution, SoC designers can more accurately analyze the benefits of the power management schemes in the context of their full designs.

"As the semiconductor industry's trusted IP partner, we recognize that support for macro modeling is essential for accurate power modeling in today's complex memory sub-systems," said Brani Buric, executive vice president of marketing and sales at Virage Logic. "Our support of the Cadence Low-Power Solution enables us to deliver accurate power modeling to our mutual customers, which in turn enables them to develop complex, multifaceted SoCs that are fully capable of optimizing the low-power capabilities embedded in each IP block."

Another user of the CPF-enabled Cadence Low-Power Solution is Sonics, a leading provider of intelligent interconnect solutions that manage the on-chip communications in system-on-chip devices. "Sonics provides our customers with low-power on-chip connectivity solutions that allow a high degree of power control," said Jack Browne, Senior Vice President of Marketing and Sales at Sonics. "The inclusion of CPF 1.1 in Sonics products is an efficient way for designers to leverage these low-power solutions as designers integrate the IP back into their design flow."

Through the metric-driven Cadence Incisive Enterprise Simulation suite, the Cadence Low-Power Solution now enables automated assertion generation and automated low-power coverage for low-power intent verification; voltage-aware simulation and voltage tracking; full multi-language support for low-power verification; and powerful new debug and visualization mechanisms.

"As customers innovate and create new methods to achieve more power-efficient IC solutions, we are driven to innovate alongside them," said Steve Carlson, vice president of Low-Power Solutions at Cadence. "It is tremendously gratifying to work so closely with the broad ecosystem of customers and collaborators to deploy these solutions quickly into the design community."

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FormatWorks 2009 Delivers PMI with CAD Translation from CATIA® V5, Pro/ENGINEER®, UG-NX® to SolidWorks®

16 March 2009

[Spatial Corp.](#) and Capvidia, a Belgium company offering specialized data translation products and services for the automotive and aerospace industry, announce the availability of FormatWorks 2009 Professional. This recently released product employs Spatial's 3D InterOp with Manufacturing Option to provide high-quality CAD translation of geometry and Product Manufacturing Information (PMI) from CATIA V5, Pro/ENGINEER and UG-NX to SolidWorks.

The inclusion and exchange of PMI with 3D CAD models has become increasingly important among automotive and aerospace companies as a way to reduce costs and improve product quality throughout

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the supply chain. With leading manufacturing industries moving toward a single model-based definition, where all design and manufacturing information is embedded in the 3D CAD file, Capvidia has taken a leading role in supporting PMI exchange between disparate CAD systems.

“By having access to PMI within the 3D model file, our customers are able to improve their processes and reduce reliance on 2D drawings,” stated Lyle Fischer, Capvidia Technical Marketing Director. “When we implemented PMI within FormatWorks, we chose to partner with Spatial, an industry leader in 3D software components. Spatial’s 3D InterOp with Manufacturing Option provides all necessary data from each of the major CAD formats. FormatWorks completes the exchange.”

FormatWorks 2009 Professional supports PMI data stored in 3D CAD models in the following native formats: CATIA V5, Pro/ENGINEER and UG-NX. The PMI information is available for SolidWorks users working with native CAD data.

Capvidia’s implementation enables the display of model views and associated PMI data, including:

- Dimensions, tolerances, surface finishes, and product manufacturing notes
- Geometric Dimensioning and Tolerance (GD&T)
- Functional Tolerance and Annotation (FT&A)

“Spatial 3D InterOp components are easily integrated into new or existing applications, enabling companies like Capvidia to respond quickly to end-user demands.” commented Ray Bagley, Spatial’s Director of Product Planning and Management. “By providing semantic PMI translation from the broadest range of CAD formats to complement our industry-leading B-rep translators, Spatial is enabling customers to deliver real value and increased productivity to the manufacturing supply chain.”

About Capvidia

Capvidia, a Belgium company, offers specialized data translation products and services for the automotive and aerospace industry. Both FormatWorks (the first and only SolidWorks Gold Product for CATIA translation) and 3DTransVidia provide advanced automatic repair and healing to resolve incompatibilities between different CAD systems. FormatWorks is tuned to satisfy SolidWorks internal requirements for forming topological solids with correct model tolerance, without gaps and missing surfaces and no deformation. For more information contact: info@capvidia.be

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Intergraph® Introduces SmartPlant® for Life Sciences

18 March 2009

Intergraph® introduced SmartPlant® for Life Sciences, a solution to help cut the cost of construction and qualification/commissioning activities for new pharmaceutical production facilities and reconfigurations, and to reduce maintenance and validation activities.

SmartPlant for Life Sciences creates and manages the engineering design basis throughout the life cycle of a plant to provide an accurate, single source of data from which to operate and maintain a facility in a compliant, qualified state. The software is tailored to the specialized needs of pharmaceutical and bio-sciences owners that addresses the exacting challenges this industry faces, such as time-to-market, patent windows, stringent FDA regulations and facility audits.

SmartPlant for Life Sciences automates the production of the 3000+ possible commissioning and

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qualification test protocols and manages their execution through completion, including resolution of deviations. Qualification protocols are generated and may be taken offline for execution in the field (for example on ruggedized tablet PCs or laptops), and uploaded back into the system where the work process continues. The product comes with out-of-the-box, easily customizable workflows which support handover, qualification, and change activities.

SmartPlant for Life Sciences greatly eases a plant manager's ability to respond to spot inspections and audits, allowing them to view all the information available about a tag, item of plant, system, or most anything else including the entire plant, at the revision level current at a given point in time.

SmartPlant for Life Sciences is a standards-based information management system, based on ISO15926, that manages the plant technical design and licensing basis, qualification state, and associated information, through commissioning, over the course of a plant's life and through decommissioning. When interfaced with maintenance management systems such as SAP/PM or IBM Maximo, SmartPlant for Life Sciences saves maintenance planners many hours for every PM or inspection, reducing plant walkdowns by ensuring they have access to the most current information available. When change occurs, the system manages the revision and flow of project information, collates packages and makes them available to all authorized parties, local and remote, and manages the various qualification test activities through completion and handover of the "as-installed" information to operations and maintenance.

SmartPlant for Life Sciences offers benefits for the complete plant life cycle, and is customized for pharmaceutical industry needs such as:

- Documenting design in compliance with FDA regulators
- Managing design data and documents over the plant life cycle
- Modular design issues
- Procurement and effective materials management
- Compressed design and construction schedules

In addition, the solution allows users to:

- Reduce time to market for fast-track projects plus modular and stick-built designs
- Reduce commissioning and validation effort through work process automation
- Maximize patent window and minimize time to market by enabling global engineering via 24-hour access to a single source of all up-to-date engineering information
- Expedite the re-configuration of a plant for the production of different drugs through electronically managed plant configuration management
- Track and disposition all deviations using best practice electronic work processes

Gerhard Sallinger, [Intergraph](#) Process, Power and Marine president, said, "SmartPlant for Life Sciences leverages Intergraph's established industry-leading enterprise solutions for the pharmaceutical industry by supporting the evolving configuration of API (Active Pharmaceutical Ingredient) facilities and manufacturing plants. Building on our enterprise engineering strengths and pharmaceutical production expertise, we have further incorporated engineering work process control and compliance in this product to assist our pharmaceutical customers in reaching the same results we have achieved for our customers in other industries worldwide."

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As part of the SmartPlant Enterprise solutions suite, SmartPlant for Life Sciences is the latest addition to Intergraph's comprehensive range of offerings to enable engineering, procurement and construction (EPC) firms, owner operators, marine and offshore users and now the pharmaceutical industry to increase productivity and accelerate projects.

The introduction of SmartPlant for Life Sciences was made in conjunction with the INTERPHEX 2009 conference in New York City.

SmartPlant for Life Sciences is scheduled for release in third-quarter 2009.

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Lectra Launches Modaris® V6R1 and Optimizes Model and Collection Development

16 March 2009

[Lectra](#) launched the latest version of Modaris, its pattern-making solution for the apparel industry. Modaris has been the industry standard for more than 15 years and is used by the biggest names in fashion worldwide. Modaris V6R1 offers even greater productivity, quality, and innovation for apparel industry professionals.

Modaris V6R1: Dealing with accelerated collection renewal in stores

With this new version of its pattern-making solution, Lectra allows apparel professionals to fully optimize their product ranges and associated patterns. The solution supports brands, retailers, sub- and co-contractors, service bureaus, and fashion schools, alike in their quest to meet the most stringent quality standards for finished products. This tool responds to the industry's constant search for innovative technological solutions and, by facilitating the creation of different models more quickly, Modaris V6R1's construction tools allow apparel professionals to develop more patterns in less time. With this solution the number of physical prototypes necessary for the finalization and validation of models is reduced, and initial production runs can be made sooner and at reduced costs. Its high-performance capacities for all-size grading guarantee the quality and fit of garments and permit companies to optimize the development of new models and collections by drawing on existing elements. By making pattern information exchange simpler and clearer, Modaris V6R1 enables users to capitalize on resources and best practices in pattern-making and manage product development in a collaborative and international context.

Modaris V6R1: Real benefits for pattern makers

Modaris V6R1 is more user-friendly and offers higher performance, along with increased accuracy and speed at every stage of the model development cycle, including the creation and finalization of patterns, industrialization, grading, verification, and pre-production. A new layer interface for pattern construction ensures better quality and accuracy and reduces both the risk of error and the number of checks necessary. With Modaris V6R1, apparel professionals are able to reduce the time needed for the creation, modification, grading, and verification of their model patterns by around 20%.

In addition, Modaris V6R1's tools for automated creation and adjustment of corners, hems, and even mitered corners contribute to producing garments with a better quality of finish. These features can cut the time needed for this phase of the model industrialization process in half.

"The new version of Modaris has enabled us to save around 15% more time in our pattern-making activity compared to the previous version," said Silvio Cattarin, Design Office Manager for Tessilform,

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an Italian company known for its Patrizia Pepe brand of women's wear. "On grading alone we have accelerated the process by an extra 10%, and we have reduced the time necessary to finalize models by more than 20%."

Modaris ExpertPro: An entirely original approach that takes collection development optimization even further

As part of the Modaris range, Modaris ExpertPro offers companies a whole-process approach to pattern-making that deals with the garment and product line development process in its entirety. Pattern makers can create intelligent links between the different elements of a garment in order to speed up the construction and finalization of models, thereby eliminating repetitive verification tasks and ensuring optimal garment quality.

At the crossroads of design and production, this task-oriented pattern-making solution facilitates the rapid creation of product ranges and patterns for all garment types—lingerie, suits, men's and women's pants, children's wear, swimwear, uniforms, and work clothing—from the simplest to the most complex, from ready-to-wear to haute couture. Drawing on best practices for working methods, Modaris ExpertPro is a real performance accelerator for pattern-making teams. It can halve the time needed for model development and enables companies to re-use 80% of pattern pieces created in future collections. As a result, Modaris ExpertPro frees up time that pattern makers can spend on tasks other than pattern development, such as design or work with suppliers. It is no coincidence that every company currently operating in the luxury sector in France has adopted this method and Lectra's solution.

In addition to its new dependencies concept, Modaris ExpertPro V6R1 features a concept which is unique on today's market: advanced functions enable users to create certain pattern elements such as waistbands, pockets, and facings in a way that can almost be called automatic. This approach, the first of its kind, reduces the time necessary to produce certain garment parts by up to 50%.

"Modaris ExpertPro V6R1 enables us to save a considerable amount of time during our pattern "fine-tuning" phase. Despite the increasing complexity of our models, the risk of error has been even further reduced, along with the number of verifications necessary. This is achieved through an improved pattern structuring system and a reduced possibility of mistakes when making modifications," said Claude Marchand, Head of Lise Charmel's internal Lectra Services Department, a French brand of high-end luxury lingerie.

Modaris: compatible with Windows Vista®

Like all new versions of Lectra software, Modaris is compatible with the Microsoft Windows Vista® operating system.

In line with Lectra's customer support strategy, Modaris is accompanied by a range of high value-added professional services provided by Lectra's business and solutions experts.

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Mentor Graphics Announces FloEFD Industry-leading Functionality for Electronics Cooling Simulation and Analysis

16 March 2009

Mentor Graphics Corporation announced the FloEFD™ [Engineering Fluid Dynamics] v9.0 product suite from the company's Mechanical Analysis Division (formerly known as Flomerics), with

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functionality specifically targeted for simulation and analysis of electronics cooling applications. As a “CAD-Embedded” application, the FloEFD suite integrates with all popular MCAD design solutions to enable mechanical designers to analyze sophisticated electronic products, including those with complex geometries.

The FloEFD suite now complements Mentor’s FloTHERM® product line to cover analysis by both the mechanical designer as well as the thermal analysis specialist. With FloEFD, the simulation models are directly generated from the design database while in the MCAD environment, thus enabling a seamless, streamlined design flow for optimum designer productivity and accuracy. Moreover, with analysis capabilities readily available to the designer, more simulations will result in higher product reliability and fewer prototypes/manufacturing re-spins.

“This new generation of CAD-embedded tools saves us money and time by enabling design engineers to optimize the design from a thermal standpoint early in the design process,” stated James Young, Azonix Corporation design engineer. “Mentor's FloEFD enables simulation results to be incorporated into the design process by the right person, in the right place, at the right time. The result is that we get the design right the first time, only have to make one prototype versus as many as twelve, and avoid expensive design changes in the late stages of the development process.”

“With the addition of FloEFD to our family of electronics cooling simulation tools, we now offer a complete solution for the thermal analysis of complex electronic products,” stated Roland Feldhinkel, product line director for the Mentor Graphics Mechanical Analysis Division. “Based on our powerful EFD analysis engine, FloEFD is able to quickly and accurately analyze thermal effects in designs, including those with complex geometries and curved surfaces. And, by embedding this functionality directly into the MCAD environment, we have improved the productivity of the designer, made easy-to-use analysis available to the entire design team, and enabled our customers to improve the reliability of their products by managing thermal effects.”

Platform for Accurate, Easy-to-Use Simulation for Electronics Cooling Applications

Developed by the same team behind the FloTHERM product, the FloEFD suite offers a single environment to develop, analyze, and modify a complex electronic product design based on the original mechanical CAD model. Changes to the design are made directly and simply, thereby enabling users to conduct “what-if” analysis effortlessly. Products can be easily optimized for electronics cooling due to the availability of several key features:

- Joule heating allows for accurate modeling of the physics in applications where heat is an unwanted by-product of current use; for example, load losses in electrical transformers
- Heat pipe compact models offer a simple and pragmatic method for modelling a predominant cooling approach in space-constrained or conduction cooled designs
- Access to wide range of engineering databases and libraries for fans, thermoelectric coolers, two-resistor components and IC packages enable users to create accurate models quickly

Availability

The FloEFD suite is available now. As well as a stand-alone version supporting all popular MCAD software, the FloEFD Suite includes FloEFD™Pro and FloEFD™V5 for support of PTC Pro/ENGINEER Wildfire and Dassault Systemes CATIA V5 platforms. For further product information or to watch a free online demo, visit the website at: http://www.mentor.com/mechanical/FloEFD_EC.

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Mentor Graphics Provides Complete 3D Variability Solution Addressing Density and Thickness Challenges

17 March 2009

Mentor Graphics Corporation announced new capabilities that extend the Calibre® platform to provide a complete solution for the control of thickness variability due to Chemical Mechanical Polishing (CMP) at advanced nodes. An industry first, the Calibre solution provides a way for customers to transition from dummy fill to density-based fill, or to full model-based fill, depending on the demands of their designs and target manufacturing process.

Enables Seamless Transition to More Advanced Filling

Because the percentage of total thickness variability per layer has increased at each node, CMP variations are much more significant below 65nm, and traditional dummy fill approaches are no longer adequate. The SmartFill capability of the Calibre YieldEnhancer tool extends the capabilities of the Calibre platform, the industry standard for insertion of dummy fill, to enable fill based on complex three-dimensional rules or density and density gradient measurements.

“The ability to control thickness variation with precise fill insertion is critical for achieving successful high performance designs,” said Norma Rodriguez, Senior Member of Technical Staff at AMD. “Our experience with the Calibre SmartFill solution shows significantly better results than we could achieve with dummy fill.”

Provides Full CMP Simulation with Unique Model-building Capability

Achieving even greater accuracy for thickness variability control requires detailed simulation of the CMP process. The Calibre solution now provides its own CMP simulator with models for leading fabs validated against silicon. Because the rapidly changing CMP process often requires CMP model updates, the Calibre solution also allows users to create and calibrate their own thickness models, a capability that is unique in the industry.

“Today [Mentor Graphics](#) is announcing the availability of a CMP model specifically calibrated to Chartered Semiconductor’s 45nm process,” stated Walter Ng, Vice President of Design Enablement Alliances at Chartered Semiconductor Manufacturing. “We have worked closely with Mentor to verify model accuracy with silicon data. Equally as important for Chartered, the Calibre toolset allows us to build, calibrate and update our own CMP model.”

The Calibre SmartFill facility is fully integrated with the CMP simulator and customer-owned CMP models to enable optimized automated fill driven by signoff-quality CMP simulation and analysis, providing a single solution for any technology environment.

“Collaboration with customers at the leading process nodes helped us to identify the real issues of thickness variability, and the most effective ways of dealing with them,” said Joseph Sawicki, vice president and general manager for the design-to-silicon division at Mentor Graphics. “The adoption of SmartFill signals the start of a transition from dummy fill to a more optimized approach based on density measurements or full-blown CMP simulation. We’re excited to be the first EDA vendor to offer a comprehensive, integrated solution that meets the industry’s complete needs, including the ability to create and maintain their own CMP models.”

Availability

The complete Mentor 3D variability solution is available now and it includes the Calibre YieldEnhancer product with SmartFill, and the Calibre CMPAnalyzer product. The model building capabilities are part of the Calibre WORKbench™ product. The new built-in CMP simulator capability enables broader support by additional fabs and technologies. The Calibre CMP flow has been certified for TSMC's 8.0 and 9.0 Reference Flows.

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New CFdesign UVCalc Module Removes Barriers for Design Engineers to Validate Reactor Performance for UV Light Disinfection

18 March 2009

Blue Ridge Numerics, Inc. announced the availability of the new **CFdesign UVCalc Module**, an industry-first Upfront CFD solution for simulating and validating ultraviolet (UV) reactor performance to ensure accurate fluence rates (irradiances) for UV light disinfection. The use of germicidal UV light is a rapidly expanding technology that is used to ensure public safety by deactivating the DNA of bacteria, viruses, and other pathogens, removing their ability to multiply and cause disease. With the new partnership of Blue Ridge Numerics, Inc. and **Bolton Photosciences Inc.** design engineers developing UV applications for drinking water disinfection, wastewater treatment, and manufacturing processes for the food and beverage, medical device, pharmaceutical, and semiconductors industries (among others), can now easily leverage fluid flow and UV calculation capabilities to speed up and optimize their product development process.

The CFdesign UVCalc Module furthers the commitment of Blue Ridge Numerics to empower engineers with CAD-driven simulation tools that optimize product performance during the digital design phase. The ability to validate UV reactor performance for biosimetry testing, while still on the digital drawing board, is the focus of CFdesign and the UVCalc Module. Exploration of multiple design scenarios before building prototypes for physical testing equates to significant cost and time savings.

The Synergy of CFdesign and UVCalc

For many years, CFdesign, has successfully been used to simulate the hydraulic performance through UV reactors. To build on existing capabilities and address the current needs of its customers, Blue Ridge Numerics realized the importance of a reliable solution for predicting UV fluence rates in CFdesign. The knowledge and experience needed came from a new partnership with Dr. Jim Bolton, a recognized expert in the UV calculation field and developer of UVCalc, a trusted and tested UV calculation tool currently in its 3rd generation.

"As the use of UV light disinfection rapidly expands around the world, especially in emerging countries like China and India where infrastructure is aggressively being developed to support population demands, companies will be looking for cost effective solutions to help more accurately design their products," said Ed Williams, CEO, Blue Ridge Numerics. "Together CFdesign and UVCalc provide a holistic and accessible solution to help design engineers in water treatment and manufacturing industries more easily simulate and predict accurate reactor performance."

How Does the CFdesign UVCalc Module Work?

UVCalc, developed by Dr. Bolton, is a software program that allows an engineer to map out the fluence rate or irradiance distribution in a UV reactor. The combination of CFdesign and UVCalc together in the

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CFdesign UVCalc Module allows engineers to simulate the UV fluence rate in combination with the flow field, to ultimately predict the fluence or UV dose delivered. Predicting the UV dose is vital, but even more important is studying and understanding the sensitivity of a reactor design with respect to changing conditions, such as piping connections, water transmittance, and flow rate.

"Validating a UV reactor's performance for biosimetry testing through digital 'what if' scenarios helps significantly reduce the number of physical prototypes that a company needs to build and ensures a more accurate design upfront in the process," said Dr. Jim Bolton, President, Bolton Photosciences Inc. "CFdesign provides an easy to use software platform that addresses geometry and flow calculations at the design engineering level. The combination of UVCalc and CFdesign creates a synergistic design tool that provides the data and visualization needed to quickly determine the optimum UV reactor performance."

CFdesign UVCalc Module Features

The combination of CFdesign and the UVCalc Module now allows engineers to:

- Determine the distribution of UV dose along various flow paths in the reactors and determine the impact of other factors, such as the flow rate, flow distribution, and axial mixing, all which can affect the fluence or UV dose and the performance of the reactor.
- Run scenarios which include simulating the effect of inlet flow distribution changes (piping), different transmittance of the fluids, changes in flow rate or flow obstructions.
- See side-by-side design comparison and data results of multiple reactor concepts through contour plots, cut planes, iso-surface, particle traces and vectors.
- Providing the ability to explore a broad spectrum of possibilities to achieve an optimal design before proceeding with the very expensive and time consuming certification process.

About the CFdesign UVCalc Module

CFdesign v10 and the CFdesign UVCalc Module are available immediately as an integrated, associative solution for Autodesk Inventor, CATIA, CoCreate, NX, Pro/ENGINEER, SolidWorks, Solid Edge, and SpaceClaim. The CFdesign Base Analysis System is a requisite for the UVCalc Module.

For further information on purchasing CFdesign and the CFdesign UVCalc Module contact a local sales office or visit the Company's website: <http://cfdesign.com/Products/UVCalc-Module.aspx>

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New GRC Solutions from SAP Help Mitigate Trade Risk Across Global Supply Chain

March 18, 2009

The current economic downturn, combined with an increasingly complex global business and regulatory environment, has left international businesses more vulnerable than ever to supply chain risk, and it is imperative that they find better ways to manage that risk. [SAP AG](#) today announced a new version of the SAP® BusinessObjects™ Global Trade Services application, part of the SAP BusinessObjects governance, risk, and compliance (GRC) family of solutions. Combined with the SAP® BusinessObjects™ Risk Management application, also an SAP BusinessObjects GRC solution, the new application automates regulatory compliance across numerous trade processes such as logistics and order fulfillment, helping customers to identify and mitigate supply chain risk easily, quickly and

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effectively. The SAP BusinessObjects GRC family of solutions promotes a unified approach to addressing compliance issues across lines of business, regions and industries. Today's announcement enhances these solutions by helping companies address supply chain risk and improve performance. The announcement was made at GRC 2009, being held in Las Vegas, Nevada, March 17-20.

"Supply chains have become both more strategically important and risky over the last several years," said Mark Smith, CEO & EVP, Research, Ventana Research. "The world's economies have become simultaneously more integrated and uncertain as companies have expanded the geographic scope of their potential sourcing and addressable markets. That's why businesses are examining SAP for better visibility into increasingly complex, geographically dispersed supply chains. Solutions from vendors like SAP can help organizations spot potential risks before they become problems and enhance supply chain performance."

Supply chain and logistics professionals need solutions that help them increase their control over risk factors that impact operational efficiency. By leveraging SAP BusinessObjects Global Trade Services with SAP BusinessObjects Risk Management, supply chain executives improve their visibility and management of global trade risk factors and performance issues. SAP BusinessObjects GRC solutions help give customers updated status information on supply chain logistics and order fulfillment including: supplier and customer service, cross-border trade and international trade regulations. With prompt access to data, supply chain professionals can formulate smarter action plans and risk-mitigation strategies that can ultimately improve "delivery performance," or the time from the supplier's receipt of an order to customer delivery.

SAP BusinessObjects GRC solutions provide a proactive, preventive approach to helping minimize risk and improve performance. For example, if a vice president of supply chain wants to improve delivery performance, he or she can use SAP BusinessObjects GRC solutions to establish quantifiable key risk indicators (KRIs) that measure and monitor aspects of the order to help ensure that deadlines are met. These quantifiable KRIs estimate the financial impact of various risk factors, showing supply chain executives how risk vulnerability can affect their bottom line. Through the interaction of global trade services with risk management solutions, organizations can create KRIs that alert them to quantified risks associated with an inability to meet customer commitment goals or aggressive order fulfillment times. Additionally, KRI alerts let supply chain professionals know when they need to enact risk mitigation plans to help ensure delivery timelines are met. KRIs can also be triggered if there are errors in the electronic filing process, or improper, inaccurate or missing shipping documentation.

The comprehensive global trade services and risk management approach offered by SAP also helps customers determine if their suppliers are Authorized Economic Operator (AEO) certified, meaning that suppliers' business transactions have been certified to be safe and transparent according to international trade standards. If an issue arises, customers are notified, thus helping to minimize some potential supply chain disruption and expedite the flow of goods through ports worldwide.

Consistent with the SAP BusinessObjects portfolio, SAP BusinessObjects GRC solutions work across customers' heterogeneous IT environments. SAP customers gain additional benefits from deeper integration with SAP® Business Suite software, linking supply chain risk, trade compliance and execution. For example, the new version of SAP BusinessObjects Global Trade Services works with the SAP® Transportation Management application (part of the SAP Business Suite) to help customers further streamline cross-border trade and visibility. Together the SAP applications promote a holistic approach to trade and transportation, managing both trade compliance and transportation logistics issues, and helping ensure that organizations execute efficiently on their international trading strategy.

"Supply chain risk has become a top challenge for companies worldwide, and without a unified GRC approach these issues can spiral out of control if they are not proactively managed," said Narina Sippy, senior vice president and general manager, GRC Solutions, SAP BusinessObjects division. "SAP recognizes that a company's ability to meet its corporate objectives - ranging from revenue to customer satisfaction to sustainability goals - may hinge on how well it can identify and mitigate supply chain risk. That's why the SAP BusinessObjects GRC offerings are designed to help proactively flag supply chain risks and vulnerabilities, empowering business users with the information they need to help develop an immediate plan of action to respond to a potential crisis across their global trade operations. With the insight provided by our solutions, companies may develop more risk-aware, productive business strategies and promote consistent execution upon them."

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New Release of NEi® Nastran V9.2 Finite Element Analysis Software Focuses on Productivity and Realism in Engineering Simulation

17 March 2009

NEi Software (NEi), a leading developer of [Nastran engineering analysis and simulation software](#), announced the availability of NEi Nastran V9.2, a major upgrade to its FEA solver for high end [Finite Element Analysis](#) (FEA). The new NEi Nastran version incorporates over 85 customer driven enhancements. The following is a list of key additions: nonlinear composite Progressive Ply Failure Analysis (PPFA™), concrete material model, direct enforced motion, bolt preload, enhanced rigid element features, visualization support for various entities, automatic dynamic plots during nonlinear analysis, transparent max/min, and a new look and feel for its industry unique Editor. A complete detailed description of all the new capabilities in NEi Nastran V9.2 can be downloaded at www.nenastran.com/AnnouncingV92.pdf.

Technology Differentiators

The new technology in NEi Nastran V9.2 is of particular interest to engineers who are looking for more realistic simulations, and want to cut man-hours from analyses that typically are very time consuming and tedious. Technology differentiators in NEi Nastran include:

[Automated Impact Analysis](#) (AIA™) for transient impact studies

[Automated Surface Contact Generation](#) (ASCG™) for easier and more realistic simulation involving assemblies

[Automated Edge Contact Generation](#) (AECG™) for increasing productivity on shell type structures typically found in aircraft, ships, and automobiles

[Linear Surface Contact](#) for performing true surface-to-surface contact analysis in a linear static solution

[Composite Tools](#) like [Progressive Ply Failure Analysis](#) (PPFA™) and 3D Composite Solid Element Vibration Fatigue Analysis

[64-Bit Large Model Capability](#) Industry specific tools for aerospace and maritime users

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Parametric Exchange for SolidWorks Now Available on Geomagic Labs Website

17 March 2009

A technology preview of Parametric Exchange for Solidworks, a feature that enables transfer of parametric models from Geomagic Studio to SolidWorks, is now available on Geomagic Labs at <http://labs.geomagic.com/>. Parametric Exchange for SolidWorks provides an intelligent connection between Geomagic Studio and SolidWorks to enable automatic native reconstruction of geometry from scan data.

[Geomagic Labs](#) is a community website that provides early access to new technologies, innovation and product concepts before they appear in commercial Geomagic software. Collaborative conversations opened up by Geomagic Labs will enable Geomagic to better understand user needs and tailor its products and solutions to meet those needs.

Parametric Exchange – currently available for SolidWorks, Autodesk Inventor and Pro/ENGINEER Wildfire – is a new feature that reduces product development time by enabling seamless transfer of parametric surfaces, solids, datums and curves from Geomagic Studio software to major CAD packages.

Other technology previews and utilities available on Geomagic Labs include:

- **GeoAutoMate** – a utility that improves productivity by monitoring a directory, automatically loading input files into Geomagic Studio or Geomagic Qualify, and executing a user-defined macro.
- **MakumDatum** – a program that provides drag-and-drop automation for creating datum points in Geomagic Studio and Geomagic Qualify.

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Synopsys Announces Yield Explorer - Design-Centric Yield Management for Product Engineering Teams

16 March 2009

Synopsys, Inc. introduced Yield Explorer, a new yield management product that expedites the discovery and mitigation of yield limiters in leading-edge integrated circuits. When compared with traditional methods, Yield Explorer can accelerate the first-silicon debug time by an order of magnitude. Establishing seamless connectivity between design, simulation, manufacturing and test domains, Yield Explorer enables return on investment (ROI) by minimizing design re-spin through rapid and comprehensive capture of design-process-test interactions causing low yield.

Traditional yield management methods are centered on wafer and die-level data and do not offer an easy connection to design. These methods are also inadequate for leading- edge technology nodes due to the systematic yield limiters originating in design-process-test interaction. Users have been forced to devise lengthy, manual workarounds to move data between yield management and EDA tools.

"Yield Explorer enabled us to achieve a tenfold improvement in time to results when investigating the causes of test failures using our volume diagnostics approach," said Davide Appello, DfX technologies senior expert, at STMicroelectronics. "With Yield Explorer, we were able to rapidly isolate, prioritize and correct the significant design issues within the first batch of product chips. This helped us reach higher yields immediately on the next design spin. Additionally, Yield Explorer also allowed accurate electrical defectivity monitoring, which is a key enabler for prediction of quality excursions for our automotive products."

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Yield Explorer offers several novel approaches to enable fast interactive analysis for yield engineers dealing with systematic yield limiters. The GUI is structured around a layout viewer for easy superposition of test failures on the corresponding layers of physical design. In addition to the wide range of analytical functions, users also benefit from the industry standard Tcl scripting environment built into the GUI. This environment can accommodate very large volumes of data with customer-specific data naming and content requirements. Its dynamically extendable data model provides a way of assimilating new types and formats of data without any loss of information or efficiency.

"The nanometer node yield challenges are largely a result of complex marginalities in the interaction between design, process and test. Our customers, fabless and IDM alike have stressed the need for bringing design information into yield analysis," said Howard Ko, senior vice president and general manager of the Silicon Engineering Group at Synopsys. "Yield Explorer is the only yield management tool that links all aspects of the design, manufacturing and test flows into a single data-bank. We are confident that Yield Explorer will impart far greater effectiveness and efficiency to the product engineering efforts across our wide customer base."

For more information on Yield Explorer, please visit:

<http://www.synopsys.com/Tools/Manufacturing/YieldManagement/YieldExplorer/Pages/default.aspx>.

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Synopsys Introduces Lynx Design System

16 March 2009

[Synopsys, Inc.](#) announced the immediate availability of its Lynx Design System, a comprehensive and highly automated environment for implementing chips. Designed for scalable use in design organizations of all sizes, the Lynx Design System combines a production-proven RTL-to-GDSII design flow with productivity-enhancing features to accelerate chip development while mitigating the risks of designing at new process nodes. Lynx's open architecture is optimized for rapid, out-of-the-box deployment with Synopsys' Galaxy™ Design Platform and is inherently configurable to readily incorporate third-party technology. Since Lynx encapsulates the collective experience of Synopsys and its foundry and third-party IP partners through pre-established flows, recommended tool settings and pre-validated technology data, the Lynx Design System can be set up and fully operational for design teams within a week.

"Lynx addresses two current and pressing needs: getting chips designed more efficiently without sacrificing quality of results, and attacking total cost of design through systematic design flow management," said Aart de Geus, chairman and CEO of Synopsys. "At a time of tremendous economic pressures, Lynx also gives project and executive management an on-demand dashboard to track design progress and spot potential schedule issues."

"For years, companies have been faced with allocating enormous internal resources to pre-validate design flows and libraries for a specific process or technology node," said John Goodenough, worldwide director of design technology, ARM. "Through close collaboration with Synopsys we are dedicated to providing foundry-ready physical IP platforms integrated into Lynx, demonstrated through optimized ARM processor solutions. This enables accelerated time-to-market without compromising design choice or performance."

The Lynx Design System incorporates four core components:

Full-chip Production Flow

Foundry-Ready System

Runtime Manager

Management Cockpit

Full-chip Production Flow

The Lynx Design System features a flexible, fully integrated RTL-to-GDSII design flow that has been validated with more than 100 customer tape-outs. Lynx incorporates the latest methodologies required for implementing 65 and 40 nanometer (nm) designs including aggressive low power techniques such as multi-corner multi-mode (MCMM), state-retention power gating (SRPG) and dynamic voltage frequency scaling (DVFS), as well as concurrent hierarchical design for managing large, complex designs. Lynx automates flow configuration and execution to improve the productivity of the design team. Embedded in Lynx are the best design practices from the ARM-Synopsys implementation Reference Methodologies (iRM) using ARM physical IP optimized for ARM processors. The iRM streamlines the procedures used by designers to target ARM processors to their chosen technology nodes by delivering a comprehensive solution proven by ARM and Synopsys to enable outstanding performance and energy efficiency.

"The pre-tested flows in Lynx minimize the risks associated with migrating to a new process node and enable our engineers to focus on getting the design done," said Mogens Balsby, director of product development-Team Platform for Oticon A/S, one of the world's most innovative hearing aid manufacturers. "We were impressed with Lynx's ease of installation, and its comprehensiveness made it the most cost-effective way for us to get up and running on our project quickly."

Foundry-Ready System

One of the challenges that design teams face is qualifying incoming technology data and IP from multiple sources. Lynx features a Foundry-Ready System that accelerates the start of a chip's implementation phase by pre-validating technology files and libraries for use in the flow. In addition, a hard IP checker enables designers to quickly validate incoming IP by performing standalone and interoperability testing with other design IP for faster implementation. The Foundry-Ready System, which is tuned to specific foundry process nodes and libraries, also incorporates process-specific checks and representative default settings for factors that impact manufacturability such as metal fill density and on-chip timing variation. These features improve the quality of the design handoff to the foundry and facilitate manufacturing-ready design submissions.

Runtime Manager

Lynx includes a Runtime Manager that automates the configuration and execution of the design flow to improve the productivity of the design team. The Runtime Manager is a GUI-based application that enables easy setup and validation of design flow variables and provides an intuitive drag-and-drop interface for creating and modifying the flow. From the Runtime Manager, designers can monitor one or more design blocks concurrently as they progress through the design flow, with dashboard reporting of status at each design step and the ability to more easily debug identified problems in the context of the flow. The Runtime Manager can also be used in a batch mode to automate the build of a block or the entire chip.

Management Cockpit

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Another key feature of the Lynx Design System is the visibility it provides into design project status. Lynx's Management Cockpit offers browser-based access to important project data captured automatically by Lynx as the design progresses through the design flow, and an intuitive GUI-based tool for generating customized reports of the current design status against specified goals. More than 50 metrics related to both design characteristics (e.g., timing, utilization, clock skew, leakage power, and fault coverage) and system resources (e.g., run time, CPU and memory usage) are tracked at the block and chip level, and users can add their own metrics to the flow. Direct visibility into key project statistics and associated trend data from any web browser not only helps managers at all levels better predict when to expect design closure, it also facilitates data-driven decisions throughout the project to make the best use of personnel and compute resources.

"The automation and parallelism supported in Lynx help our physical design engineers get their blocks through the flow in an efficient manner," stated Sujeeth Joseph, principal consultant, Wipro Technologies. "The GUI-based Runtime Manager also makes it easier to monitor and debug designs as they progress in the design flow. In addition, being able to start the design phase with libraries and foundry data that have been pre-tested in the flow helps accelerate schedule and reduce risk."

Synopsys' Lynx Design System is available now.

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TopSolid'Cam 2009 is Now Available

13 March 2009

Missler Software will shortly launch TopSolid'Cam 2009. One of TopSolid'Cam's greatest forces is its capacity to manage all machining processes thereby making it one of the only CAM solutions on the market which is able to machine all parts by offering the most suitable machining process. TopSolid'Cam is capable of piloting turning, 2 axes milling, 3 axis milling, 4 & 5 axis continued milling, 4 & 5 axis continued turning, synchronization and complex simulation.

TopSolid'Cam 2009 deals with such issues as simplifying machine programming, reducing cycle times, improving quality and reducing manufacturing costs (notably by prolonging the life span of tools).

Here are some of the major improvements of TopSolid'Cam 2009:

Tolerance management of imported parts - Parts designed using TopSolid'Design or another CAD software are very often modelised to the nominal dimensions. Thanks to its advanced modelor, TopSolid'Design enables a user to transform nominal dimensions to average dimensions. However, what happens when a CAD software other than TopSolid'Design has been used? TopSolid 2009 has taken this into account and allows model dimensions to be easily changed so that the part can be easily machined without having to re-design the complete geometry.

Automatic 4 axis roughing cycles - The creation of a new function which enables automatic 4 axis roughing operations on parts such as extrusion screws, impellers, etc. This new function manages such roughing operations while managing collisions, underdrafts, the cutting conditions, etc. In fact the ease of 3 axis roughing is now possible in 4 axis.

Drilling automation of cooling circuits for mold makers - This function is particularly useful for mold makers and permits the automatic detection of intersecting cooling circuits. This in turn manages speed modifications of the tool when it enters a zone already drilled for a previous intersecting cooling circuit. This greatly eliminates the risk of breaking the mold plate in an automated fashion.

CIMdata PLM Industry Summary

Paraxial roughing on a milling machine - Traditionally such roughing operations are carried out on a turning machine where the shallow pass levels implied the operation was carried out in several passes. Thanks to TopSolid'Cam 2009 such operations can be carried out on a milling machine which means that all material is removed in just 1 operation by using a particular helicoidal cycle. This leads to important time gains.

5 axis machining of composite materials - TopSolid'Cam 2009 now enables tools to make sinusoidal movements which means that tool wear is equal throughout the entire length of the tool. This new function is very important in the cutting of carbon fibre parts, which are notably used in the aerospace industry. Carbon fibre is highly abrasive material and is machined by milling machines equipped with diamond-tipped or very hard metal tools which are very expensive. When the length of the tool is longer than the depth of the material to be machined (which is the case in aerospace parts) it is common sense to try to use the rest of the tool. The new sinusoidal movements offered by TopSolid'Cam 2009 prolong thus the lifespan of these tools and thereby generate cost savings.

Customized approach and retract movements - This new function allows operators to customize approach and retract contouring movements. The user is not therefore obliged to choose from predefined options. He can design and parameter, thanks to TopSolid'Design, the form he wishes for his approach and retract movements and re-use these. Missler Software also added specific approach and retract movements for the wood industry where automation is essential.

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