

Contents

Company News	2
"Alibre, Inc., Bunkspeed Announce Global Distribution Agreement"	2
Alibre Launches "Buy One - Give One" Initiative with \$100,000+ Software Gift	3
AVEVA: 10 Years of Continual Progression in Japan	4
CD-adapco Opens New Offices in Oslo and Aberdeen	5
CD-adapco Opens New SEAsia Office in Singapore	5
Conference Paper: Collaborative Change Management in the Virtual Enterprise	7
Delcam GmbH Wins Sales Partner of the Year	7
Delgadillo Joins COADE as Senior Applications Specialist for COADE's Plant Design Solutions	8
Intergraph® Celebrates 40th Anniversary	9
SoftInWay Offers AxSTREAM Educational Version for Turbomachinery Design to Celebrate Its 10th Anniversary	9
Symmetry Solutions Receives Prestigious Award from Dassault Systèmes SolidWorks Corp.	10
The isicad Questionnaire; Russian market leaders and foreign experts comment on the achievements and development trends on the CAD/PLM market	11
Zuken Builds Central European Marketing Team	11
Events News	11
ASCON Launches KOMPAS Online Webinars	11
Delcam Programs for Machine Tool Partners at TIMTOS	12
Delcam to Show Dental Software at US Lab Days	13
GIE Media to Educate Manufacturers on How to Survive Current Turbulent Economic Times	15
LMS Announces Dates for 2009 International Simulation Conference	15
ODA Opens Registration for ODA World Conference 2009	16
Sescoi Launches New Dental Software at Industrie 2009	16
2009 ProSTEP iViP Symposium - Program	18
VISTAGY President and CEO Steve Luby to Speak at CompositesWorld's Investment Forum	18
Webinar: SAP PLM Value and Effective Strategies in Uncertain Economic Times	19
Financial News	20
Aspen Technology Files Quarterly Report on Form 10-Q for the Second and Third Quarters of Fiscal 2008	20
Avatech Solutions Reports Fiscal 2009 Second Quarter Results	22
ProductDossier Receives Investment from India Innovation Investors	24
Synopsys Posts Financial Results for First Quarter Fiscal Year 2009	25
Implementation Investments	27
Alberta Transportation Chooses Bentley's InRoads V8i Software to Help Enhance In-House Design Capabilities	27
Airborne Composites Anticipates Cutting New Product Lead Time by 20 Percent with the Purchase of VISTAGY's FiberSIM® Software	28
Apache Deepens Collaboration with STMicroelectronics to Address Power and Noise Challenges for 45/32nm Designs	28
Delcam's PartMaker Give QA Technology Faster Turn Around	29
DONG Energy Power A/S Chooses Comos	30
LSI Corporation Selects Synopsys as Its Primary EDA Partner	31
Okuma America Corporation Selects PTC CoCreate to Design CNC Machinery for Growing American	

CIMdata PLM Industry Summary

Market	32
Olympus Medical Systems Starts Roll-Out of CIM DATABASE	33
Project Centric Serimax Selects IFS to Enhance Its Operations	34
Richard Childress Racing Team Uses PTC Software to Speed Development of NASCAR's Sprint Cup Series Winning Car	34
Schindler Group Increases Efficiency of Global Collaboration by 300% with PTC Product Development System	35
SawStop Selects Datastay PLM to Improve Its Engineering Effectiveness	37
SolidWorks Software Helps Transform Bathroom into Design-Inspired Retreat	37
Sredne-Nevisky Shipbuilding Plant Signs Large Contract with AVEVA	38
3DCS technology is Helping ITER Optimize Design and Assembly of Fusion Plant in Cadarache, France	38
WorkNC Provides a Fast Track to the Finished Tool at Babilon GmbH	40
Product News	42
Announcing Alibre Translate; New Product Offers Broad Suite for Import and Export of Most Popular CAD Files	42
Autodesk 2010 Manufacturing Software Demonstrates Power of Digital Prototyping	42
Centric 8 PLM Solution Offers Complete '10+2' Capability	46
Dassault Systèmes Invests in Intercim	47
E ³ .series 2009 from Zuken Breaks New Ground	48
Fishbowl Solutions Announces Bounding Box Application For PTC® Pro/ENGINEER®	49
Geometric launches DFMPRO for Pro/ENGINEER®	50
KOMPAS-3D V10 SP2 is Now Available	51
Magma Enhances SiliconSmart With New Functional Recognition Capabilities, Speeding Modeling of Complex Standard Cells and I/Os	51
Mastercam's Feature Based Machining	52
Mastercam's High Speed Toolpaths Increase Efficiency and Automation	53
Materialise and ANSYS Deliver Interoperable Solutions; Collaboration provides improved workflow for image-based biomechanical simulations	53
Planview Introduces Planview OpenSuite for IBM Rational ClearQuest	54
Planview Propels Innovation In Portfolio Management with Planview Enterprise 10	55
Siemens PLM Software and Capgemini Offer Integrated Supplier Relationship Management (SRM) Solution	57
SpaceClaim Advances 3D Direct Modeling for Engineering and Product Design	58

Company News

"Alibre, Inc., Bunkspeed Announce Global Distribution Agreement"

17 February 2009

Alibre, Inc. announced a new partnership with Bunkspeed, makers of HyperShot – the 3D rendering application for design, engineering, and marketing. Alibre will immediately begin distributing HyperShot Web, HyperShot HD, and HyperShot Pro, as well as provide local sales and support services through its reseller network in 50 countries worldwide.

Alibre Design, Alibre's flagship CAD software, delivers value to engineers by providing the same core functionality of products like SolidWorks, Inventor, and other mid-range solid modeling software at one fifth their cost.

"Our CAD/CAM technology, combined with HyperShot, makes a truly unique and highly cost effective solution from concept design all the way to downstream activities such as creating magazine quality ads

CIMdata PLM Industry Summary

for finished products or even product proposals for new ones. Since both Alibre and HyperShot are designed with simplicity and power in mind, the marriage of the two becomes really compelling. It's just never been done at the price we're doing it at, or even close for that matter," says J. Paul Grayson, Alibre Chairman and CEO. "It's a huge leap forward for our users, since many customers lack a marketing department or knowledge of complex rendering software. For these customers, the ability to jump in and make a magazine quality rendering of the products they design with Alibre Design, in minutes and not hours or days, is crucial to winning bids and selling their products. HyperShot empowers them in much the same way Alibre Design does," he adds.

Those interested in learning more about HyperShot and Alibre Design can watch a brief online demonstration at <http://www.alibre.com/hypershot>. A free trial of both Alibre Design and HyperShot can also be found there.

For more information on Alibre, or for a free trial of Alibre Design, please visit <http://www.alibre.com>.

 [Click here to return to Contents](#)

Alibre Launches "Buy One - Give One" Initiative with \$100,000+ Software Gift

February 2009

Alibre, Inc. today announced a "Buy One - Give One" program that enables customers to give a second seat of Alibre Design to a designated recipient for every license they purchase for their own use. Alibre hopes to benefit designers and engineers world-wide that may not be able to afford a license of professional 3D CAD due to unemployment or other circumstances. To help launch the initiative Alibre will contribute 101 seats of Alibre Design (normal retails price of \$999) to qualified and deserving candidates. Alibre's "Buy One - Give One" program has the following components.

1. All purchasers of a license of Alibre Design, regardless of the version level, can give a second copy of the same license level to a recipient of their choice.
2. The recipient can be an associate, a subcontractor or supplier, a co-worker, or a deserving engineer of Alibre's choice. The recipient must be in the same country as the purchaser.
3. Alibre is also creating a pool of 101 licenses of Alibre Design Standard, normally available for \$999, to be granted to deserving engineers. Alibre will accept nominations for the free licenses from current Alibre Design customers.

"Alibre is enabling customers to make a contribution to others in need so that they can develop and use their 3D design skills to positively impact their careers, employment and the economies in which they live," says J. Paul Grayson, Alibre's CEO. "Manufacturing and design engineers, with 3D CAD design skills, contribute to the health and wealth of our economy through their unique ability to conceive, design, and manufacture innovative new products, product improvements, and manufacturing processes that are an essential driving element of entrepreneurial capitalism. Many of those expected to benefit are engineers that have either been "orphaned" from a professional CAD program by a lay-off or never had access to these types of tools to begin with."

- [One Laptop Per Child - OLPC](#)
- [SunNight Solar](#)
- [Sam's Shoes](#)

CIMdata PLM Industry Summary

- **Procter and Gamble 1 Pack - 1 Vaccine**

Each of these programs has proven the value of "Buy One - Give One" initiatives. Alibre is extending the concept to professional design software, which can amplify the creative capability and capacity of talented individuals. Contributions, in the form of new products and new processes, by these people will be especially valuable in today's challenging global economy.

Modern 3D CAD software, like Alibre Design, enables engineers to create three-dimensional virtual prototypes of physical products that they want to make. They can assemble them into complete virtual working models of various product configurations and then run detailed analyses to validate their designs before spending a single dollar to actually make them. This means that ideas can be turned into reality much faster and less expensively than otherwise possible.

To help launch the "Buy One - Give One" initiative, Alibre will contribute 101 licenses of Alibre Design Standard and ask current customers to nominate deserving individuals, business partners, or affiliates to receive a free license. Alibre will evaluate these nominations and chose the recipients based on their qualifications and needs. Alibre will also provide periodic updates of this program and its impact on our web site.

For more information on Alibre, or for a free trial of Alibre Design, please visit <http://www.alibre.com>.

 [Click here to return to Contents](#)

AVEVA: 10 Years of Continual Progression in Japan

20 February 2009

AVEVA's subsidiary in Japan will be celebrating its 10th anniversary in February 2009. AVEVA K.K., based in the Yokohama Business Park, will be hosting a dinner reception to thank the company's loyal customers for their decade of support.

AVEVA is a leading supplier of engineering IT systems for the plant and marine industries and has more than 100 customers subscribing to its solutions in Japan. Amongst the customers that have been with AVEVA for the past 10 years are Mitsubishi Heavy Industries, Ltd., IHI Corporation, Kawasaki Plant Systems, Ltd., Toshiba Corporation, Chiyoda Corporation and JGC Corporation.

AVEVA has been providing services and solutions to Japanese customers for over 30 years. Prior to 1999, AVEVA was represented in Japan by Kyokuto Boeki Kaisha.

Mr. Yoichi Kayama of JGC Corporation, and incumbent Chairman of the AVEVA Plant Japan User Group, said: "AVEVA Plant solutions have helped optimise plant related industries in Japan with a range of engineering design and lifecycle information management tools."

In 2008, [AVEVA](#) hosted its annual global event, the AVEVA Marine Users' Meeting at the port city of Kobe. AVEVA has a strong marine customer base in Japan, with its first customer being Kawasaki Shipbuilding Corporation, which first subscribed to AVEVA -marine solutions in 1994.

Motoo Iso, Vice President, Sales & Business Development, AVEVA K.K., said:

"The number of customers subscribing to AVEVA solutions has grown fivefold from 20 in 2000, to 100+ today. I would like to take this opportunity to thank all our loyal customers for their trust in us throughout these years."

Peter Finch, President, AVEVA Asia Pacific, said:

CIMdata PLM Industry Summary

"We are proud to have built strong business relations with numerous Japanese companies since establishing our office in Japan 10 years ago. In these challenging times, we at AVEVA will continue to deliver and provide new and improved solutions to our customers."

 [Click here to return to Contents](#)

CD-adapco Opens New Offices in Oslo and Aberdeen

16 February 2009

CD-adapco announced the opening of two fully serviced offices in Aberdeen and Oslo bringing the number of [locations](#) in Europe to eight. These new offices demonstrate CD-adapco's commitment to satisfying the increasing demand for flow thermal and stress software and services in the Oil and Gas industry, and to the Energy Sector as a whole.

"Numerical simulation has a key role to play in delivering sustainable future supplies of energy, no matter what their source," says Bill Clark, CD-adapco's Senior VP of Operations. "The recent opening of new offices in Houston, Singapore, Aberdeen and Oslo shows that this organization is fully committed to delivering simulation technology to the Oil and Gas industry."

"The new offices give us the opportunity to expand the talented array of people that serve the Scottish and Norwegian markets and the Oil and Gas Industry as a whole," says CD-adapco President and co-founder Steve MacDonald. "The offices will provide state of the art computing facilities and dedicated customer areas for training and technology transfer. We have always prided ourselves on the quality of our people - becoming a CD-adapco customer means more than purchasing world-class software or services; it opens the door to an unrivalled wealth of engineering expertise."

CD-adapco Oslo Karenslyst allé 11 0278 Oslo Phone: +47 918 87 567	CD-adapco Aberdeen 6 Albyn Terrace Aberdeen AB10 1YP Phone: +44 1224 562981
--	--

 [Click here to return to Contents](#)

CD-adapco Opens New SEAsia Office in Singapore

16 February 2009

CD-adapco announced its further expansion into the Asian markets with the opening of a new office in Singapore. The decision to launch the South East Asian operations in Singapore is a reflection not only of CD-adapco's continued commitment to the Energy and Oil and Gas industries, but of an increased commitment to the Asian market in general.

Singapore has a 70% worldwide market share of both the FPSO conversions and the jack-up rigs as well as a strong refining industry, and has therefore long been regarded South East Asia's Oil and Gas hub. The level of oil and gas related activities in neighboring countries, Indonesia and Malaysia, further contribute to building up a strong regional oil and gas centre and in general an energy hub as a whole. The Energy Information Administration predicts that the worldwide demand for energy will increase by over 70% by 2030, with the majority of that growth in demand coming from Asia growth (between

CIMdata PLM Industry Summary

2000-2005, demand growth in Asia was 33% vs. 2% in the USA as reported by BP Statistical Review of World Energy).

Energy, Oil and Gas

CD-adapco's simulation technology is ideally suited to solving the type of engineering challenges that the energy industry faces on a daily basis. A combination of software and expertise can provide insight into any problem that involves fluid flow (liquid or gas or combination of both), thermal behavior, chemical kinetics, or stress and vibration issues. This technology has been employed at every stage of the oil and gas production process – from exploration to extraction, from transport to processing, and is increasingly deployed in all aspects of Energy Engineering.

"CD-adapco has been providing Engineering Simulation solutions to the Energy Industry for more than 28 years", explains Dr Dennis Nagy, CD-adapco's VP for the Energy Sector. "The opportunities presented by South East Asia make it a natural fit for CD-adapco's continued global expansion. Together with new offices in Houston, Oslo and Aberdeen, the Singapore office will give us the opportunity to expand the talented array of people that serve the South East Asian market and the Energy Industry as a whole."

"The oil field operators are increasingly considering exploration in deep waters in South East Asia. This generates a whole new set of new engineering challenges which naturally create demand for high technology suppliers. It is certainly the right time for CD-adapco to bring its expertise to the region", says Mr Loong Say Meng, Managing Director of the Asia Pacific Operations of the Energy Industries Council.

Located in the exclusive 37 storey Centennial Tower in the central business district CD-adapco's new office overlooks Singapore's Marina Bay, a location that was specifically chosen to include a large area for visitors, state-of-the-art training facilities, and fully equipped meeting rooms and demo theatres. CD-adapco's Dr Demetris Clerides, Director of the South East Asia operation, says: "Our business model relies on building long term partnerships with our clients and we would obviously like them to feel welcomed to our premises when hosting technology transfer seminars. The new office space allows us to do that in comfort; it is specifically designed to facilitate meeting and interacting with our clients."

The office also overlooks Singapore's already famous floodlit Formula One street circuit, which serves as a reminder that the region has more to offer than just the rapidly growing Energy Sector. This is perfectly aligned with CD-adapco's leadership in providing high technology to the transport industry.

"Our local presence will significantly contribute to boost the development activities and consequently, the economic growth of the region", explains Dr Demetris Clerides. "We welcome CD-adapco's decision to use Singapore as a base for their business. Their strength in engineering analysis software and services will enhance Singapore's capability to provide engineering solutions across a range of industries, including marine and offshore, aerospace, motorsports and automotive sectors", says Mr Sia Kheng Yok, Director, Transport Engineering, Singapore Economic Development Board. Other countries in the region with strong activities in the transport sector such as Malaysia, Thailand and Vietnam are also expected to be benefitted by the local presence of CD-adapco.

Further, the broad expertise of CD-adapco and particularly, its leading technology of surface wrapper and conjugate heat transfer will increase the development efficiency in all industry sectors. "Specifically in the electronics sector, which is strong in Singapore and Malaysia, it is important to increase the efficiency to be able to survive in difficult economic periods like the one we currently experience worldwide", says Dr Demetris Clerides. "In the environmental sector", he adds, "the economic crisis in

CIMdata PLM Industry Summary

combination with the energy demand and the industrial pollution make the energy efficient buildings increasingly popular. Our expertise can certainly help in designing sustainable buildings”.

CD-adapco SEAsia

Level 34,
Centennial Tower
3 Temasek Avenue
Singapore
039190
Tel: (+65) 6549 7872
Fax: (+65) 6549 7011
Email: info@sg.cd-adapco.com

 [Click here to return to Contents](#)

Conference Paper: Collaborative Change Management in the Virtual Enterprise

18 February 2009

The paper "Collaborative change management in the virtual enterprise, enabling the best partner vision", is written by Jonas Rosén and Fredrik Almyren. It was presented at the 2nd Nordic Conference on Product Lifecycle management - NordPLM'09, in Gothenburg, January 28 - 29.

The paper describes the implementation and use of a change management process between different companies. The solution is developed and designed to integrate PLM information from existing systems and used by the various partners. In order to provide support for collaborative processes, commercial SOA software tools have been used implementing industry best practice change management standards such as the Engineering Change Management, ECM, standardized by SASIG and VDA. The central part of the implementation is the notion of sharing information and processes based on standardized information models and interface definitions according to the VEC-Hub concept.

 [Collaborative Change Management in the Virtual Enterprise, enabling the Best Partner Vision](#)

If you have questions about collaborative change management in the virtual enterprise, please contact [Per Brorson](#).

[Visit the NordPLM conference website.](#)

[Read more about Eurostep's competence and solutions for the extended and virtual enterprise collaboration](#), and the involvement in the [VIVACE project](#).

 [Click here to return to Contents](#)

Delcam GmbH Wins Sales Partner of the Year

18 February 2009

Delcam's German subsidiary, Delcam GmbH, was named Sales Partner of the Year at the company's recent Sales Partner meeting in Birmingham. The subsidiary achieved sales growth of almost 40%

CIMdata PLM Industry Summary

during 2008, giving it the highest sales of any of Delcam's global network of resellers as well as its most successful year to date.

The increased sales were achieved across the complete range of Delcam software. The PowerMILL CAM system continued to contribute the largest proportion of the revenue, due mainly to the growing demand for more powerful five-axis machining software from many German customers. However, the highest growth was seen in sales of the FeatureCAM feature-based machining software, thanks in part to an impressive performance by sub-dealer Syscam. In addition, the PowerINSPECT inspection software saw sales almost double between 2007 and 2008. Sales of the ArtCAM artistic CAD/CAM program also grew strongly.

Like the whole Delcam organisation, Delcam GmbH achieved much of its success by diversifying outside of the company's traditional markets in the toolmaking industry. In particular, the German subsidiary has seen huge growth in the dental market.

Delcam GmbH General Manager Robert Aulbur was quick to praise the contribution of his whole team to the record-breaking performance. "Over the past three years, we have grown the number of staff from 16 to 27," he explained. "I have been able to recruit some extremely capable people during this time. Together with the very experienced staff that were already in the company, they have all contributed to our success."

Presenting the award, Delcam's Operations Director Clive Martell commented, "The increase in sales achieved by Delcam GmbH last year probably made it the fastest-growing CAD/CAM company in Germany. To be so successful in a mature economy, which is also the home country for several of our competitors, is a remarkable achievement."

 [Click here to return to Contents](#)

Delgadillo Joins COADE as Senior Applications Specialist for COADE's Plant Design Solutions

17 February 2009

COADE announced that Sonia Delgadillo has joined the design and engineering software company as Senior Applications Specialist for COADE's Plant Design Solutions, with special focus on Latin America, Spain and Portugal. In this position she will provide technical and sales instruction and support for the company's dealer channel, with special responsibility for the COADE CADWorx Plant Design Suite of products. "Sonia will be a great addition to the COADE team," said Bill Evans COADE's VP Corporate Sales/Operations. "The channel experience she brings with her will help both us and our dealers better serve our global customers," Evans concluded.

Prior to joining COADE, she was Process & Power Specialist for ECAD, Inc., a COADE Global Network Partner and the number one reseller of the CADWorx software suite as well as a leading reseller for Autodesk. During her five years with ECAD, she provided instruction on CADWorx Plant Professional, CADWorx P&ID Professional and CADWorx fieldPipe. Her previous experience includes positions with M&H Enterprises, Synergy Group, and ExxonMobil. She attended the University of Houston and studied computer-aided design (CAD) at Horn Drafting & CAD Center. Information on COADE and its products can be found at <http://www.coade.com>.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Intergraph® Celebrates 40th Anniversary

19 February 2009

Intergraph® Corp. marks its fortieth anniversary of technological innovation and market leadership this year.

From its roots in the Apollo space program 40 years ago, Intergraph has grown into a leading global provider of geospatial technology and engineering software. Today, businesses and governments in more than 60 countries rely on Intergraph's industry-specific software to organize vast amounts of data into understandable visual representations and actionable intelligence.

Intergraph's software and services empower customers to build and operate more efficient plants and ships, create intelligent maps and protect people and critical infrastructure across the world. Its public safety and security solutions protect one in 12 people in the world and its process engineering and 3D plant and ship design software are ranked number one. Intergraph utilities and communications solutions also make the operation of the Smart Grid more efficient, while other solutions enable the federal government to extend the life and reduce the cost of operating ships and aircraft.

"By any metric - technological innovation, customer satisfaction, market share or financial performance - Intergraph's 40 years of success in the technology sector have been remarkable," said Intergraph Chairman, President and CEO Halsey Wise. "Although such longevity is unusual in the software industry, the unwavering commitment by the people of Intergraph to innovation and our customers' success have been instrumental to the Company's longevity and leadership in the marketplace."

Founded in 1969 in Huntsville as M&S Computing, Inc., Intergraph's former IBM engineers assisted NASA and the U.S. Army in developing systems that would apply digital computing to real-time missile guidance. Out of this initial work, M&S Computing was among the forerunners of interactive computer graphics. The company later changed its name to [Intergraph](#) in 1980 to reflect this expertise.

Intergraph became a publicly traded company in 1981 under the NASDAQ ticker symbol INGR. In 2006, the company was acquired by an investor group led by Hellman & Friedman LLC and Texas Pacific Group and became a private company.

 [Click here to return to Contents](#)

SoftInWay Offers AxSTREAM Educational Version for Turbomachinery Design to Celebrate Its 10th Anniversary

18 February 2009

This year SoftInWay Inc. celebrates its 10th anniversary. On this occasion the company grants a free group license to use its Educational Version for Turbomachinery Flow Path Design to 10 universities.

For the 10th anniversary of its successful business activity SoftInWay decided to make a present to its future colleagues - today's students of technical colleges and engineering departments of universities. Thus, the first 10 universities, which have at least a 10-week course of turbomachinery design and a group of 10 students or more, will receive AxSTREAM Educational Version (AEV) for Multidisciplinary Turbomachinery Flow Path Design and Optimization for 10 weeks.

The Educational Version provides students with a practical insight into up-to-date principles of turbomachinery engineering. It was created to develop highly valued design skills and can be used as a

CIMdata PLM Industry Summary

conceptual turbomachinery design and multidisciplinary optimization tool. By the end of the course all users will be able to design, analyze and optimize turbomachinery flow path, including 1D and 2D direct problem computation, generation of cascade profiles and full 3D blade design with custom lean and sweep.

AEV is available for axial gas and steam turbines, axial compressor, centrifugal compressor and radial turbine. It features portability and dynamic learning environment and is updated for the latest version of AxSTREAM.

SoftInWay is known among the educational community for its permanent assistance in the areas of research and engineers' professional development. The company regularly provides training workshops and webinars on AxSTREAM – software for effective axial/radial turbomachinery design and optimization. During the past ten years SoftInWay has gained clients worldwide, among which are Peter Brotherhood (UK), Dresser-Rand (USA), MAN Turbo (Germany), Wood Group (Switzerland), Harbin Turbine Co. Ltd. (China) and many others.

Further information concerning this offer is available at the SoftInWay [website](#).

 [Click here to return to Contents](#)

Symmetry Solutions Receives Prestigious Award from Dassault Systèmes SolidWorks Corp.

17 February 2009

Symmetry Solutions (Minneapolis, MN) announced that, for the second year in a row, Dassault Systèmes SolidWorks Corp. (DS SolidWorks) has awarded them entry into the 2009 SolidWorks Elite 190 Club.

"The Elite 190 Club recognizes the best of the best. Symmetry Solutions has earned this distinction for the second year because of its obsession with helping customers develop world-class products with SolidWorks engineering design software," said Jeff Ray, chief executive officer of DS SolidWorks. "Those customers have responded in kind with loyalty rates that are the envy of the technology industry. I congratulate everyone at Symmetry Solutions for reaching the pinnacle of customer-driven performance."

Over 300 VARs competed worldwide for this rare and sought after recognition but only 3 VARs in North America (9 worldwide) reached the requirements to receive the award. Symmetry Solutions, which provides sales, support and training for SolidWorks users in the Midwest, also achieved the SolidWorks Elite 190 Club award in 2008.

"We have worked hard to build an organization that continually strives to improve users' experience with SolidWorks, whether that is matching software tools to solve business challenges, troubleshooting modeling problems, or keeping engineering departments fully trained," said Paul Rudin, vice president of [Symmetry Solutions](#). "We are, of course, pleased to be recognized by DS SolidWorks, but keeping our customer's satisfied is the reward in itself. Customer satisfaction has been our focus since we started this business over 10 years ago."

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

The isicad Questionnaire; Russian market leaders and foreign experts comment on the achievements and development trends on the CAD/PLM market

February 2009

isicad asked the heads of vendor companies and representative offices — leaders of the Russian market Andrey Bykov (ADEM), Maxim Bogdanov (ASCONE), Alexander Tasev (Autodesk CIS), Laurent Valroff (DS Russia), Arseny Tarasov (PTC Russia), Heinrich Melus (Siemens PLM Software Russia), and Sergey Kuraksin (Top Systems) — to briefly address two questions:

1. Main achievements of your office in Russia in 2008?
2. What are, in your opinion, the most significant events on the global PLM/CAD market in 2008?

To read the responses to this questionnaire please visit http://isicad.net/questionnaire_2008.php. isicad thanks their colleagues for their comments. Important addition to them are the remarks provided by renowned experts: Ken Amann (CIMdata), Francis Bernard (ESI Group), Oleg Shilovitsky (Daily PLM Think Tank), Evan Yares (Evan on Engineering Software), and Vladimir Malukh (LEDAS, isicad), as well as collective opinion of the visitors of our site, summarized in the results of the voting for the most significant PLM-event 2008.

 [Click here to return to Contents](#)

Zuken Builds Central European Marketing Team

19 February 2009

Zuken introduced its dedicated Marketing Manager for Central Europe. Experienced marketing professional Petra Haberer has joined Zuken GmbH's Munich based team to coordinate and deliver targeted marketing support for the company's electrical and electronic design software and consulting services across Central Europe.

Zuken is committed to raising its profile in Central Europe. Apart from classical marketing activities, Haberer is responsible for PR-activities, Media-planning and promoting Zuken brand awareness across Germany, Austria, Switzerland and the Netherlands.

Haberer brings over 17 years of international marketing experience gained in the investment goods and IT industries including such blue chip organizations as Microsoft and PTC GmbH.

General Manager Western Sales Gerhard Lipski stated, "Zuken's expansion into the European market continues at a very significant rate and Petra Haberer's appointment reflects that. We look forward to building even stronger relationships with our core customer base in Central Europe over the coming months."

 [Click here to return to Contents](#)

Events News

ASCONE Launches KOMPAS Online Webinars

17 February 2009

ASCONE Group announced its new initiative for current and potential customers, 3D beginners and

CIMdata PLM Industry Summary

partners of the company – Online Webinars for KOMPAS solutions.

Now all users will be able to benefit from online familiarization with professional KOMPAS solutions for 3D Solid Modelling, 2D Drafting, Design, Release of Documentation, as well as with wide range of add-ons of the software. Highly qualified specialists from ASCON will carry out trainings in English on different topics available for CAD-users of all levels, offer support and advice in any questions regarding solutions.

You are welcome to take part in following webinars:

- KOMPAS-3D Introduction

Brief overview of solution's functionality and possibility;

- 3D Designing in KOMPAS-3D

Part modeling, assembly modelling, BOM, sheet metal modelling, collaboration with other CAD systems, 3D parametrization;

- 2D Designing in KOMPAS-Graphic

Drafting, working with layers, 2D-parametrization, DWG/DXF import/export;

- Advanced Functionality

Administration KOMPAS-3D installation and set up, system files and auxiliary libraries;

- Working with Add-ons

Pipelines 3D, Animation, Photorealistica, Universal Mechanism Express, APM Studio FEM, eCAD-KOMPAS-3D converter

- Online Meeting at Request

Discussion of concrete situations and questions at user's request.

For participation in one or more webinars please ASCON at contact@ascon.net. Just send them the topic of webinar you are interested in, names and emails of participants, date and time of event suitable for you and version of KOMPAS-3D, if you already have an installed one.

 [Click here to return to Contents](#)

Delcam Programs for Machine Tool Partners at TIMTOS

17 February 2009

Programs produced with Delcam software will be used on sixteen machine tool partner stands at the TIMTOS exhibition to be held in Taipei, Taiwan, from 2nd to 7th March. Toolpaths generated with PowerMILL, FeatureCAM and PartMaker will be featured on the various stands, with many of the partners showing a number of parts machined with more than one of the Delcam systems.

The full list of partners is as follows:-

AWEA Mechatronic Co. Ltd.

Buffalo Machinery Co. Ltd.

Ching Hung Machinery & Electric Ind. Co. Ltd.

Euma-Spinner Corp.
Gentiger Machinery Industrial Co. Ltd.
Goodway Machine Corp.
Hardinge Machine Tools B.V.
Hurco Manufacturing Ltd.
Leadwell CNC Machines Mfg. Corp.
Quaser Machine Tools Inc.
She Hong Industrial Co. Ltd.
Shenq Fang Yuan Technology Co. Ltd.
Victor Taichung Machinery Works Co. Ltd.
Wele Mechatronic Co. Ltd.
Yamazaki Mazak Corp.
Yeong Ching Machinery Industries Co. Ltd.

As well as the machining demonstrations, visitors to the exhibition will be able to see programming demonstrations of the latest versions of Delcam machining software on the Delcam Taiwan stand. The complete range comprises PowerMILL for high-speed and five-axis machining, FeatureCAM for feature-based programming, PartMaker for Swiss-type lathes and turn-mill equipment, and ArtCAM for engraving and routing. This broad coverage is one of the reasons why Delcam is consistently ranked as a world's leading specialist supplier of NC software and services by US analysts CIMdata.

The new release of PowerMILL offer a more complete solution for complex machining operations, together with more control for experienced machinists that know exactly how they wish to machine a particular part. The program also includes a range of enhancements to existing functionality to enable both faster programming and faster machining.

FeatureCAM 2009 also incorporates enhancements across its complete range of functionality. An important focus has been increased options for more complex machines, such as mill-turn equipment, and four- and five-axis mills. This will allow users to tackle more sophisticated parts than could be programmed before. Developments have also continued increase the efficiency of the more fundamental machining operations, including turning and three-axis milling.

Major highlights of the new release of PartMaker include a revamped and more productive user-interface, improved capabilities for programming directly on solid models and more realistic machine simulation for the increasingly-complex machine architectures of today's multi-axis turn-mill centres and Swiss-type lathes. The enhanced user interface will make PartMaker users even more productive in programming their CNC equipment, while offering new users an even easier to learn, more capable CNC programming platform.

 [Click here to return to Contents](#)

Delcam to Show Dental Software at US Lab Days

20 February 2009

CIMdata PLM Industry Summary

Delcam will show its DentCAD and DentMILL dental software at the Lab Day series of events to be held across the USA over the coming months. The series opens with Lab Day Chicago on February 28th. This is followed by Lab Day East in New York on April 18th and Lab Day West in California on May 9th.

Delcam's DentCAD is a new computer-aided design (CAD) program that can be used for the fast, reliable creation of dental restorations, including copings, crowns and bridge frameworks, while DentMILL is a knowledge-based machining (CAM) system for the manufacture of components for the industry.

While the two programs can be used together to provide a complete design and manufacturing system, both DentCAD and DentMILL are completely 'open' and so can be used with software and hardware from other companies. For example, DentCAD accepts data from any scanner capable of exporting data in the STL format used widely within the dental industry. Similarly, DentMILL can output machining toolpaths to virtually any CNC machine. Most other dental CAM programs are part of a 'closed' system that can only work with unique data formats, or specific scanning or machining equipment.

The key benefit of DentCAD is that is easy to use and so is suited both for dental technicians with existing CAD knowledge and those that have no previous experience of computer-aided design. The whole process is based on a series of "Wizards" that guide the user through the entire design process.

A wide range of visualisation and analysis tools are available at every stage, including sectioning, measuring, shading and transparency options that allow detailed inspection of the shape being developed. This ensures that the results are exactly as required by the patient.

The system is also very flexible, so allowing different design options to be developed and compared. For example, key parameters like the margin line and the cement thickness can be modified and the computer model will automatically update to reflect the changes. In addition, sculpting tools let the user add or subtract material interactively, while the dynamic editing tools allow the complete model to be reshaped quickly and effectively.

All the functionality in DentMILL is based on Delcam's PowerMILL CAM system. The software offers offer a wide range of machining strategies. DentMILL first arranges the various components within the block to give the most efficient use of material and then generates the required cutting paths automatically.

The latest additions to the software are new five-axis options, which are particularly important for abutment manufacture as these components are difficult to produce with three-axis machining. The new five-axis functionality can reduce material wastage when producing copings and bridges. Previously, all the components needed to be oriented within the material block so that they could all be machined in a single direction. With the five-axis approach, the components can each be rotated to minimise the block thickness required, since the different pieces, or even different areas within a single part, can be machined in different directions. This allows a set of parts to be produced from a thinner block of material so reducing material costs and machining times. Five-axis machining can also be used to machine parts containing undercuts.

Another new option is the ability to generate set-up sheets. These allow the user to identify easily multiple parts manufactured in the same block of material.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

GIE Media to Educate Manufacturers on How to Survive Current Turbulent Economic Times

16 February 2009

GIE Media, Inc. announced the speakers and agenda for a new manufacturing conference, scheduled for March 17-18, 2009, to be held at the InterContinental Hotel and Conference Center in Cleveland, Ohio. This new event, "Industry & Innovation: The New Face of Manufacturing" will benefit professionals in the manufacturing industries looking for innovative business solutions to ensure continued growth in the current economic times and beyond.

Session topics are to include

"Leveraging the Automotive Industry Supply Chain to Meet Aerospace Demands," by Alex Craig, Managing Director of BBK, Ltd.

"Disruptive Technology: An Opportunity for Market Entry," by Greg Hyatt, VP Engineer and CTO from Mori Seiki

Loch McCabe President of Shepherd Advisors will conduct a session titled "Market Projections and Manufacturing Needs for the Wind and Solar Market." Additionally, how to diversify into these industries to grow your business, how to ensure a strong future with advanced technology, and economic opportunities and incentives in the state of Ohio.

Attendees will also have the opportunity to view exhibits and interface with a select group of key suppliers who are successfully serving these industries.

Produced and managed by Today's Medical Developments, Aerospace Manufacturing and Design, and Today's Energy Solutions, the Industry & Innovation Conference comes at a perfect time for those involved in this industry. "With uncertainty and change all around us, manufacturers need to explore every option to ensure their company's continued growth. The aerospace, medical and energy sectors of manufacturing continue to excel despite the current economic conditions, and this conference will give manufactures the chance to explore new opportunities in these industries," explains [GIE Group](#) Publisher Joe DiFranco.

For more information on the conference, visit <http://www.industryandinnovation.com>.

 [Click here to return to Contents](#)

LMS Announces Dates for 2009 International Simulation Conference

18 February 2009

LMS announced the dates of its 2009 International LMS Simulation Conference to be held at the Munich Airport Marriott® Hotel on October 28th and 29th.

In line with the current challenges in the industry, the 2009 International LMS Simulation Conference will focus on responding to the current global industry business drivers: sustainable product development with reduced cost of energy consumption and diminished environmental impact; optimizing the design and integration of the ever-increasing number of intelligent mechatronic systems in present-day products; or aligning the engineering process to create unique brand values. To satisfy these next-generation requirements, the 2009 International LMS Simulation Conference will also review how multi-physics, multi-functional system simulation boosts product innovation and overall development process efficiency and productivity.

CIMdata PLM Industry Summary

Over the years, the International LMS Simulation Conference has gained a reputation as the ideal venue to discover real-life business applications and the latest technological evolutions presented by leading industry experts, a tradition the 2009 Conference will continue to foster.

LMS invites engineering experts from around the world using LMS simulation software, either LMS Imagine.Lab, LMS Virtual.Lab or Noesis OPTIMUS, to submit an application or research presentation. The key industry trends listed above are only a few examples. Any innovative project in the world of simulation is welcome. Please visit <http://www.lmsintl.com/lmsconferences> for information regarding submissions and other practical details. The closing date for applications is April 20th, 2009.

For more information about the 2009 International LMS Simulation Conference, including additional submission information and early bird registration, please visit the LMS Simulation Conference website at <http://www.lmsintl.com/lmsconferences>.

 [Click here to return to Contents](#)

ODA Opens Registration for ODA World Conference 2009

16 February 2009

The Open Design Alliance (ODA) is opening the registration for the ODA World Conference 2009 April 27 – 29.

The preliminary agenda <http://www.opendesign.com/agenda> of the conference includes seminars and training sessions on industry-related topics such as future trends and objectives in the CAD/CAM community, ODA technology, third-party components, and technical graphics applications.

“We had an overwhelming response from the ODA members to the World Conference,” stated Arnold van der Weide, President of the ODA. He added, “Because the conference is limited to just over one hundred participants, we’re encouraging those who are interested in attending to register as soon as possible.”

For more details about the ODA World Conference, see <http://www.opendesign.com/conference>.

 [Click here to return to Contents](#)

Sescoi Launches New Dental Software at Industrie 2009

18 February 2009

Sescoi will be launching its new WorkNC Dental Labs software in the French market, and demonstrating its new entry level CAM/CAD solution WorkNC 3X, at the Industrie Lyon 2009 exhibition from 10-13th March in Hall 6 Stand G038.

Additionally, the Company will be previewing the latest version of its automatic CAM/CAD software, WorkNC V20, launching in late spring.

Other productivity solutions being demonstrated on the stand include SESCOI’s Industrie 2008 award-winning CAD Viewer, WorkXPlore-3D which includes a free version, as well as its WorkPLAN ERP and MyWorkPLAN job management systems for custom manufacturing.

WorkNC Dental Labs is SESCOI’s new “one-button CAM” system designed specifically to meet the needs of dental healthcare professionals when producing prosthetic dental implants. Working from STL or dental CAD data, the system orientates and nests the prosthesis. The system then automatically

CIMdata PLM Industry Summary

applies 3-axis and 5-axis toolpaths that have been optimized to suit the special materials and types of prosthesis used in the industry in order to produce collision free and precise results without specialist machining experience. Visitors to the show will be able to see a WorkNC Dental live machining demonstration on the SESCOI stand.

SESCOI's WorkNC 3X is a fast track solution that has been exclusively created for smaller companies or companies needing complementary capability. Along with WorkNC's famed ease to use, the 3X solution includes a number of the core 2 and 3-axis toolpaths available in the full WorkNC product, including automatic 3-axis roughing and finishing, contour and pencil machining, and automated drilling and tapping. CAD translators enable users to work directly with models and drawings supplied by customers, and its easy to use graphical user interface makes it possible for engineers to be productive virtually immediately.

Demonstrations of the WorkNC V20 pre-release version will enable visitors to SESCOI's stand to see the productivity enhancements that await them in this latest version of this automatic CAM/CAD system. Roughing, finishing and drilling toolpaths have all been optimized to include improvements such as interactive drilling, conical tool support and New toolpaths, Global Finishing and Undercut Finishing, which will shorten programming times and give engineers greater control and capability. WorkNC V20 sees some major improvements in 5-axis machining. Many more cutter types are now supported, including lollipop, dovetail and disk cutter, while a new 5-axis spiral finishing strategy machines the whole part, including undercuts, in one operation.

On display on the SESCOI stand, there will be a display of a range of showcase WorkNC-machined parts including the breathtaking Japanese Samurai helmet that turned heads at Euromold.

Visitors to the Industrie show will have the opportunity to witness WorkNC in action on various complex parts with live machining taking place on SESCOI's machine tool partner stands, whilst on the CETIM (French industrial and mechanical technical center) booth, there will be a screening of live WorkNC machining taking place at CETIM's St Etienne technical center.

With many years' business, engineering and software development experience, SESCOI understands customers' requirements, helps them master the challenges of new software implementation and build their business long-term.

For Further Information:

Keith Juggins

UK Sales Manager

SESCOI UK Ltd

8 Trinity Place

Midland Drive

Sutton Coldfield

B72 1TX

Tel. : 00 44 (0)121 355 5000 - Fax : 00 44 (0)121 355 4777

Email : keithj@sescoi.co.uk – Web : <http://www.sescoi.com/uk>

 [Click here to return to Contents](#)

2009 ProSTEP iViP Symposium - Program

February 2009

Maturity traceability, requirements management, virtual safeguarding and supplier communication – these are just a few keywords from this year’s program of the PROSTEP iViP Symposium, held on May 12 and 13, 2009 in the Berlin Congress Center.

Authors of more than 45 lectures will present various concepts and solutions for the challenges we are currently facing in the product creation process. Several lecture series held in parallel will feature topics like project management, E&E and much more. One lecture series will focus entirely on „Mechatronic Development – An Interdisciplinary Challenge“. Workshops and the accompanying exhibition will provide ample opportunity to look deeper into these subjects.

Choose from the variety of topics offered at the ProSTEP iViP Symposium according to your own special interests. Program details and further information on how to register for this event are available at <http://www.prostep.org/de/events/symposium-2009.html>.

The early-bird discounted rates for the ProSTEP iViP Symposium 2009 are only available until February 27, 2009. You can save about 10 % of the regular admission.

 [Click here to return to Contents](#)

VISTAGY President and CEO Steve Luby to Speak at CompositesWorld's Investment Forum

19 February 2009

[VISTAGY, Inc.](#) announced that President and CEO Steve Luby will speak at CompositesWorld's Investment Forum on Thursday, February 26 at 2 PM at the Roosevelt Hotel in New York City. Mr. Luby's speech is entitled, "Enabling the Potential of Composites - Trends and Keys to Speeding Effective Use of Composites in Different Applications."

Mr. Luby founded VISTAGY in 1991 and has helped pioneer the efficient use of composites in a variety of industries, including aerospace, high performance automotive, marine and wind energy. VISTAGY's revenues grew 30 percent and its product revenues climbed 52 percent in 2008. Mr. Luby is extremely bullish on the outlook for the composites industry.

"Composite materials provide all kinds of potential benefits," said Mr. Luby. "But there's a higher degree of complexity in working with composites than with more traditional materials, such as metal. So it is critical to have the right tools and methodologies if you expect to maximize the value of composites."

Composites can provide significant benefits across a variety of industries, including aerospace, automotive and wind energy. For instance, they can be used to enhance performance; reduce weight, part counts and assembly costs, and improve durability by virtue of being fatigue and corrosion-resistant

"The irony is that when manufacturers achieve great efficiency with composites, they actually end up using less of them," said Mr. Luby.

VISTAGY's FiberSIM® is a comprehensive software suite that addresses the entire composites engineering process, from conception, laminate definition and ply creation through simulation, performance optimization, documentation and manufacturing.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Webinar: SAP PLM Value and Effective Strategies in Uncertain Economic Times

24 February 2009

Title: SAP PLM Value and Effective Strategies in Uncertain Economic Times

Date: Webinar on February 24, 2009

Time: Time: 11:30 AM - 12:30 PM EST

Registration: <https://www2.gotomeeting.com/register/870803998>

Space is limited. After registering you will receive a confirmation email containing information about joining the Webinar.

Speakers:

Peter Bilello, Vice President, CIMdata, Inc.

Eric Stajda, PLM Practice Director, LeverX, Inc.

Webinar Agenda:

1. PLM Value to Companies in Uncertain Economic Times, CIMdata

"At the end of the day, a downturn in the economic climate doesn't change the fact that companies need to be more efficient and innovative. As a result, today's economic climate hasn't eliminated the need to implement PLM, nor has it changed the fact that the applicability of PLM-enabling solutions to solve critical business needs still exists. It has been CIMdata experience that effective PLM strategies are even more critical during uncertain economic times, such as the one we are facing today. The key to survival is often based on what companies prioritize and establish during stressful times to both survive and effectively position themselves for the market growth periods that will follow. This is true for companies in all industry sectors."

2. Options for Managing Documents in SAP, LeverX

- Tools available in SAP for managing or attaching documents: SAP DMS, Object Services, Business Documents, Knowledge Management Via SAP Portals and Records Management
- Brief overview of capabilities and selection criteria for choosing the best tool for a given purpose

3. Effective Document Management Using SAP DMS, LeverX

- Benefits and capabilities of SAP DMS
- Different front ends to SAP DMS: Standard GUI, Web, Easy DMS, Portal, PLM 7.0
- How other companies are using SAP DMS (Demonstrations): Management of engineering data, Collaboration scenarios and CAD integration
- How to start a SAP DMS project: Type of questions that need to be answered, Resources required (internal/external), Estimated effort and Review simple project plan for an accelerated DMS pilot

System Requirements:

[View system requirements](#)



[Click here to return to Contents](#)

Financial News

Aspen Technology Files Quarterly Report on Form 10-Q for the Second and Third Quarters of Fiscal 2008

19 February 2009

Aspen Technology, Inc. announced that the company filed its Quarterly Report on Form 10-Q for the second and third quarters of fiscal 2008, ending December 31, 2007 and March 31, 2008, respectively. The company also announced selected preliminary financial results for the second quarter of fiscal year 2009, ended December 31, 2008, and today filed restated financial results for the first quarter of fiscal 2008, ended September 30, 2007.

Selected Preliminary Results for the Second Quarter Fiscal 2009

Mark Fusco, Chief Executive Officer of AspenTech, said “With over \$63 million in license bookings during the second quarter of fiscal 2009, our performance for the quarter and first half of fiscal 2009 was solid compared to what was a strong year ago period, despite many of our customers facing increased economic pressures. During the second quarter, we saw a year-over-year increase in the number of seven figure deals and average deal size, which we believe shows continued interest in our differentiated, high value solutions.” Fusco concluded, “We remain cautious about the macro environment; however, we continue to believe that AspenTech is well positioned to weather the current economic downturn as a result of our proven ROI, long-standing customer relationships with recurring term-based contracts, and demonstrated ability to manage expenses closely.”

The company’s cash balance as of December 31, 2008, was approximately \$123 million, which was down from \$134 million at the end of the first quarter of fiscal 2009, including the payment of approximately \$13 million in taxes during the second quarter. The company did not sell any installments receivable during the second quarter of fiscal 2009 and it increased its company-owned installments receivables by approximately \$17 million, which adds to future cash flows. The company also continued to reduce its secured borrowings balance, which was down by approximately \$10 million for the quarter ending December 31, 2008.

Company Files 10Q’s for the Second and Third Quarters of Fiscal 2008

Brad Miller, Chief Financial Officer of AspenTech, said “Now that the company is on file with all required quarterly reports for fiscal 2008, our next focus is completing the audit of Fiscal 2008, ending June 30, 2008, as quickly as possible. Importantly, we believe we will benefit from the significant time and resources invested in the reviews of our second and third quarter 10-Q’s with our new independent auditing firm.”

Miller added, “After considerable testing of the second and third quarter fiscal 2008 results, it was determined that the company’s GAAP license revenue differed from license bookings due primarily to four large transactions in which license revenue will be recognized in subsequent quarters – based either on delivery of a small software component as part of a much larger aspenONE solution or as services are delivered. This difference can be seen in the significant increase in our deferred revenue balance as of March 31, 2008, which was up approximately \$51 million, or 75% from September 30, 2007.”

Miller concluded, “While the deferral of license revenue impacted our reported operating profitability in our fiscal second and third quarters, we are pleased that strong license bookings during this time period enabled the company to further strengthen its balance sheet. We held our cash balance relatively stable

CIMdata PLM Industry Summary

over these two quarters, while reducing secured borrowings and increasing customer accounts and installments receivable. We believe this is representative of the strong underlying growth of AspenTech's business during this time period."

Second Quarter Fiscal 2008 – ending December 31, 2007

For the second quarter ended December 31, 2007, AspenTech reported total revenue of \$74.2 million, a decrease of 23% compared to the second quarter of fiscal 2007. Within total revenue, license revenue was \$37.6 million, a decrease of 38%, and services revenue was \$36.6 million, an increase of 3%, compared to the second quarter of fiscal 2007, respectively. The company closed two large contracts with a net present value totaling \$23.8 million that did not meet all of the criteria for revenue recognition by the end of the second quarter of fiscal 2008 and, as such, were recorded as deferred revenue. There was no comparable impact on the prior year period.

AspenTech's income from operations, determined in accordance with generally accepted accounting principles (GAAP), was \$4.1 million in the second quarter of fiscal 2008, representing an operating margin of 5.5%, compared to \$24.5 million in the second quarter of fiscal 2007.

GAAP operating expenses in the second quarter of fiscal 2008 included \$3.8 million of total stock-based compensation, \$1.3 million in restructuring charges due to the company's continued office consolidations, and \$2.7 million in excess auditing and professional fees associated with bringing the company's financial statements current - the combination of which reduced the company's operating margin by approximately 11 percentage points. These items reduced the company's operating margin by approximately 5 percentage points in the second quarter of fiscal 2007.

Net income was \$9.3 million in the second quarter of fiscal 2008, including a tax benefit of \$2.6 million due to the release of a valuation allowance on foreign deferred income taxes. The valuation allowance release was recorded as a benefit to the provision for income tax in the second quarter of fiscal 2008. Net income was \$24.1 million in the second quarter of fiscal 2007.

Diluted income per share attributable to common shareholders was \$0.10 for the quarter ended December 31, 2007, compared to \$0.27 in the second quarter of fiscal 2007.

Third Quarter Fiscal 2008 – ending March 31, 2008

For the third quarter ended March 31, 2008, AspenTech reported total revenue of \$74.2 million, a decrease of 7% compared to the third quarter of fiscal 2007. Within total revenue, license revenue was \$40.0 million, a decrease of 8%, and services revenue was \$34.2 million, a decrease of 5%, compared to the third quarter of fiscal 2007, respectively. The company closed two large contracts with a net present value totaling \$21.2 million that did not meet all of the criteria for revenue recognition by the end of the third quarter of fiscal 2008 and, as such, were recorded as deferred revenue. There was no comparable impact on the prior year period.

AspenTech's income from operations, determined in accordance with generally accepted accounting principles (GAAP), was \$1.9 million in the third quarter of fiscal 2008, representing an operating margin of 2.5% compared to \$6.9 million in the third quarter of fiscal 2007.

GAAP operating expenses in the third quarter of fiscal 2008 included \$2.1 million of non-cash stock-based compensation, \$0.1 million in restructuring charges due to the company's continued office consolidations, and \$3.6 million in excess auditing and professional fees associated with bringing the company's financial statements current - the combination of which reduced the company's operating margin by approximately 8 percentage points. These items reduced the company's operating margin by

CIMdata PLM Industry Summary

approximately 7 percentage points in the comparable period for fiscal 2007.

Net income was \$4.0 million in the third quarter of fiscal 2008, a decrease compared to \$5.1 million in the year ago period. Diluted income per share attributable to common shareholders was \$0.04 for the quarter ended March 31, 2008, compared to \$0.06 in the third quarter of fiscal 2007.

Balance Sheet, Cash Flow and Restatement of First Quarter Fiscal 2008

The company's cash balance at the end of the third quarter of fiscal 2008 was \$136.4 million, an increase compared to \$129.5 million at the end of the first quarter of fiscal 2008. For the nine months ended March 31, 2008, cash flow from operations was \$47.7 million, offset by cash used in investing activities of \$7.0 million and cash used in financing activities of \$37.0 million.

Over the course of the second and third quarters of fiscal 2008, the company reduced its total secured borrowings account by \$24.2 million and its collateralized receivables account by \$49.0 million. Over this same time period, the company increased its accounts and installment receivable balances by \$89.7 million.

The company's total deferred revenue balance at March 31, 2008, was \$119 million, an increase of 77% since June 30, 2007.

The company has filed a restated cash flow statement and balance sheet for the first quarter of fiscal 2008. During this quarter repayments of secured borrowings were \$7.8 million lower than originally reported, while they were \$9.1 million higher than originally reported in the first quarter fiscal 2007. Offsetting adjustments were included in the cash flows from operations for both respective quarters. This correction did not impact the total cash repayments to the financial institutions, any change in total cash flows, or ending cash balances at the end of any reporting period.

The company also corrected an error in adjustments made to the accumulated deficit as of July 1, 2007, when it adopted FASB Interpretation No. 48. The company had previously recognized an increase of \$3.0 million in the liability for unrecognized tax benefits, with an offsetting increase to the accumulated deficit upon adoption. The company currently believes it is appropriate to reverse this \$3.0 million liability and the offsetting increase in accumulated deficit as of July 1, 2007. The company has today filed restated financial statements that correct these errors.

Conference Call and Webcast

AspenTech will host a conference call and webcast today, February 19, at 8:00am (Eastern Time), to discuss the Company's selected preliminary financial results for the second quarter of fiscal 2009, second and third quarter financial results for fiscal 2008, restated results for the first quarter of fiscal 2008, business outlook and related corporate and financial matters. The live dial-in number is (877) 239-3024, conference ID code (85678693). Interested parties may also listen to a live webcast of the call by logging on to the Investor Relations section of AspenTech's website, <http://www.aspentech.com/corporate/investor.cfm>, and clicking on the "webcast" link. A replay of the call will be archived on AspenTech's website and will also be available via telephone at (800) 642-1687 or (706) 645-9291, conference ID code (85678693) through February 26, 2009.

 [Click here to return to Contents](#)

Avatech Solutions Reports Fiscal 2009 Second Quarter Results

17 February 2009

CIMdata PLM Industry Summary

Avatech Solutions, Inc. announced financial results for its second fiscal quarter ended December 31, 2008.

George Davis, President and Chief Executive Officer of Avatech, commented, “Our business continues to be negatively affected by the downturn of the national economy. The design engineering markets and enterprises that we service remain fiscally challenged resulting in delays and interim reductions in the flow of the purchasing of technology and services that we provide. We remain committed to supporting our customers through these challenging times and are working diligently to bridge the gaps that currently exist with creative value added services that support the unique problems that our customers face. We intend to march side by side with our customers as we navigate through these unprecedented economic times to ensure that we are both uniquely positioned when the economy does turn more favorable.”

“The aggressive cost cutting measures that we implemented throughout the past fiscal year have helped us to offset the severity of the economic impacts on our current business. Additionally, we continue to maintain a healthy balance sheet and our liquidity remains strong supported by our cash balances and our recently-renewed \$5 million credit facility.”

“Though we continue to be challenged by the decrease in sales, we believe that once the economy recovers our customers’ demand for our traditional technology solutions and services will rebound.”

“While our business has suffered in the short-term, we are looking at the long-term opportunities that this difficult economy offers from a competitive standpoint. At current demand levels many of our competitors are struggling to compete and don’t possess the same resources we have at our disposal that allows us to weather this difficult period and effectively serve the needs of our customers. As such, we believe there is an opportunity for us to build up our share of the existing market and emerge from this difficult period as an even stronger company,” concluded Mr. Davis.

For the second quarter of fiscal 2009 the Company reported revenues of \$9.5 million, compared to \$12.9 million in the prior-year quarter. Selling, general & administrative (SG&A) expenses decreased to \$4.3 million in the three months ended December 31, 2008, compared to \$4.7 million in the same period of the prior fiscal year.

The Company incurred a net loss of \$223,000, or \$(0.03) per fully diluted share, for the three months ended December 31, 2008, compared to net income of \$855,000, or \$0.04 per fully diluted share, in the same period in the prior year. Adjusted EBITDA (as defined) decreased to a loss of \$67,000 in the second quarter of fiscal 2009, from adjusted EBITDA of \$1,388,000 in the prior year period.

For the six months ended December 31, 2008 the Company reported revenues of \$20.3 million, compared to \$25.3 million in the prior-year period. Selling, general & administrative (SG&A) expenses decreased to \$8.7 million in the first half of Fiscal 2009, compared to \$9.3 million in the same period of the prior fiscal year.

For the six months ended December 31, 2008, Avatech reported a net loss of \$70,000, or \$(0.02) per fully diluted share, compared to net income of \$1.3 million, or \$0.07 per fully diluted share, for the same period in the prior year. Adjusted EBITDA (as defined) decreased to \$380,000 in the first half of fiscal 2009 from adjusted EBITDA of \$2,347,000 in the prior year period.

Conference Call Information

Avatech Solutions will hold a conference call to discuss its first quarter results at 11:00 a.m. ET on February 17, 2009. A replay of the call will also be available through February 24, 2009, and can be

CIMdata PLM Industry Summary

accessed by dialing 888-286-8010 (domestic) or 617-801-6888, and dialing the passcode (16962474).

A live webcast of the conference call will be available to all investors in the Investor Relations section of the Company's website, <http://www.avatech.com>. For those who cannot listen to the live broadcast, an audio replay of the call will also be available on the Company's site for a limited time.

Note Regarding Use of Non-GAAP Financial Measure

This news release contains the non-GAAP measure Adjusted EBITDA. Adjusted EBITDA represents earnings (or losses) before interest, income taxes, depreciation and amortization, and stock-based compensation expense.

Adjusted EBITDA is used by management, analysts, investors and other interested parties in evaluating our operating performance compared to that of other companies in our industry, as the calculation of EBITDA as adjusted eliminates the effect of financing, income taxes, stock-based compensation costs, the accounting effects of capital spending and certain other merger related expenses, which items may vary from different companies for reasons unrelated to overall operating performance.

Avatech believes this non-GAAP measure provides useful information to both management and investors by excluding certain expenses that may not be indicative of its core operating results. These measures should be considered in addition to results prepared in accordance with GAAP, but should not be considered a substitute for, or superior to, GAAP results.

 [Click here to return to Contents](#)

ProductDossier Receives Investment from India Innovation Investors

16 February 2009

ProductDossier Solutions India Pvt. Ltd. announced that it had received investment from the India Innovation Investors (I3).

ProductDossier (<http://www.productdossier.com>) is a pioneer in P3LM (Project, Process and Product Lifecycle Management) space. The company's TouchBase product range provides functionality, rapid deployment and ease of use. It features a modular architecture consisting of an underlying framework overlaid with customizable industry-specific applications. Its platform independence and thoughtful features make it a ready-to-use, multi-purpose application supporting a variety of industries including manufacturing, EPC (engineering, procurement and construction), engineering and research services, energy and power, defense etc.

Commenting on the funding, Sandeep Kumar, Founder and MD of ProductDossier, said, "Our flagship product TouchBase has found rapid acceptance amongst 35+ clients. Having launched the product in late 2006, we have grown over 100% in the past year. Our valued clients include Onida, Videocon, Eicher, Bilcare, TACO, DRDO Labs and Bateman to name a few. The I3 funding is a significant validation for the company's product and business model. The investment will be utilized to ramp up our direct sales team and geographical reach. The I3 investors also provide us with access to high-caliber strategic inputs and contacts from a team of global professionals." I3 is an investor group consisting of successful IT professionals based in USA and India. They are all industry veterans, either successful entrepreneurs or holding senior positions at global software companies. ProductDossier is its first investment.

Nickhil Jakatdar, representing the I3 team, said, "We liked ProductDossier because of its unique

CIMdata PLM Industry Summary

product, strong founding team, and sales traction. We are investing in early stage Indian software product companies, with disruptive technologies and potential to scale.” Nickhil is CEO of Vuclip.com (<http://www.vuclip.com>), a Bay area based mobile video search and delivery company.

Madhukar Bhatia, Managing Partner at nFactorial Software (n!) and member of the advisory board at ProductDossier, commented: “We work very closely with the management team of ProductDossier in defining and executing the business plan. We are pleased to have introduced I3 to ProductDossier. Their decision to invest is yet another validation of ProductDossier’s immense potential to be a leading player in its space and its ability to raise funds in the tough economic scenario”.

 [Click here to return to Contents](#)

Synopsys Posts Financial Results for First Quarter Fiscal Year 2009

18 February 2009

Synopsys, Inc. reported results for its first quarter ended January 31, 2009.

For the first quarter of fiscal 2009, Synopsys reported revenue of \$339.8 million, a 7.7 percent increase compared to \$315.5 million for the first quarter of fiscal 2008.

"Synopsys' first quarter was characterized by solid financial performance, continued technology momentum and visible customer success," said Aart de Geus, chairman and CEO of Synopsys. "While the recession has clearly deepened and we have seen signs of customer stress, we believe that Synopsys is well positioned to help our customers weather the storm, and to emerge an even stronger company as a result."

GAAP Results

On a generally accepted accounting principles (GAAP) basis, net income for the first quarter of fiscal 2009 was \$52.4 million, or \$0.37 per share, compared to \$46.4 million, or \$0.31 per share, for the first quarter of fiscal 2008.

Non-GAAP Results

On a non-GAAP basis, net income for the first quarter of fiscal 2009 was \$71.6 million, or \$0.50 per share, compared to non-GAAP net income of \$66.0 million, or \$0.44 per share, for the first quarter of fiscal 2008.

Reconciliation between GAAP and non-GAAP results is provided at the end of this press release.

Financial Targets

Synopsys also provided its financial targets for the second quarter and full fiscal year 2009. These targets constitute forward-looking information and are based on current expectations. For a discussion of factors that could cause actual results to differ materially from these targets, see "Forward- Looking Statements" in the [unabbreviated press release](#).

Second Quarter of Fiscal Year 2009 Targets:

- * Revenue: \$332 million - \$340 million
- * GAAP expenses: \$280.5 million - \$296 million
- * Non-GAAP expenses: \$257 million - \$267 million

CIMdata PLM Industry Summary

- * Other income and expense: \$0 - \$3 million
- * Tax rate applied in non-GAAP net income calculations: approximately 27 percent
- * Fully diluted outstanding shares: 142 million - 147 million
- * GAAP earnings per share: \$0.25 - \$0.30
- * Non-GAAP earnings per share: \$0.39 - \$0.41
- * Revenue from backlog: greater than 90 percent

Full-Year Fiscal Year 2009 Targets:

- * Revenue: approximately \$1.37 billion - \$1.40 billion
- * Other income and expense: \$6 million - \$10 million
- * Tax rate applied in non-GAAP net income calculations: approximately 27 percent
- * Fully diluted outstanding shares: 144 million - 149 million
- * GAAP earnings per share: \$1.11 - \$1.27
- * Non-GAAP earnings per share: \$1.60 - \$1.72
- * Cash flow from operations: \$200 million - \$220 million

GAAP Reconciliation

Synopsys continues to provide all information required in accordance with GAAP, but believes evaluating its ongoing operating results may not be as useful if an investor is limited to reviewing only GAAP financial measures. Accordingly, Synopsys presents non-GAAP financial measures in reporting its financial results to provide investors with an additional tool to evaluate Synopsys' operating results in a manner that focuses on what Synopsys believes to be its ongoing business operations and what Synopsys uses to evaluate its ongoing operations and for internal planning and forecasting purposes. Synopsys' management does not itself, nor does it suggest that investors should, consider such non-GAAP financial measures in isolation from, or as a substitute for, financial information prepared in accordance with GAAP. Synopsys' management believes it is useful for itself and investors to review, as applicable, both GAAP information that includes: (i) share-based compensation; (ii) the amortization of acquired intangible assets and in-process research and development charges; and (iii) the income tax effect of the non-GAAP pre-tax adjustments from the provision for income taxes; and the non-GAAP measures that exclude such information in order to assess the performance of Synopsys' business and for planning and forecasting in subsequent periods. Whenever Synopsys uses such a non-GAAP financial measure, it provides a reconciliation of the non-GAAP financial measure to the most closely applicable GAAP financial measure. Investors are encouraged to review the related GAAP financial measures and the reconciliation of these non-GAAP financial measures to their most directly comparable GAAP financial measure as detailed below.

Reconciliation of First Quarter Fiscal Year 2009 Results

Access the [unabbreviated press release](#) for details

Earnings Call Open to Investors

CIMdata PLM Industry Summary

Synopsys will hold a conference call for financial analysts and investors today at 2:00 p.m., Pacific Time. A live webcast of the call will be available at Synopsys' corporate website at <http://www.synopsys.com/> A recording of the call will be available by calling +1-800-475-6701(+1-320-365-3844 for international callers), access code 985197, beginning at 5:30 p.m. Pacific Time today. A webcast replay will also be available on the website from approximately 5:30 p.m. Pacific Time today through the time Synopsys announces its results for the second quarter fiscal 2009 in May 2009. Synopsys will post copies of the prepared remarks of Aart de Geus, chairman and chief executive officer, and Brian Beattie, chief financial officer, on its website following the call. In addition, Synopsys makes additional financial information available in a financial supplement also posted on the corporate website, <http://www.synopsys.com/Company/InvestorRelations/Pages/default.aspx> .

Availability of Final Financial Statements

Synopsys will include final financial statements for the first quarter in its Quarterly Report on Form 10-Q to be filed by March 12, 2009.

 [Click here to return to Contents](#)

Implementation Investments

Alberta Transportation Chooses Bentley's InRoads V8i Software to Help Enhance In-House Design Capabilities

17 February 2009

Bentley Systems, Incorporated announced that the Alberta Transportation Ministry has chosen InRoads V8i as its standard road design software. A key factor behind the selection of InRoads was the ministry's need to enhance its in-house technical capabilities by providing its engineering teams with advanced design software. The department also recognized the many advantages of Bentley's OnDemand eLearning, which can cost-effectively provide entire organizations with 24x7 access to thousands of hours of quality, self-paced learning. By procuring its new software through Bentley's SELECT subscription program, [Alberta Transportation](#) will ensure a maximum return on its investment in Bentley software, training, and services.

Alberta outsources the bulk of its design services to engineering consultants, who are required to submit drawings in MicroStation format. With a number of engineers at Alberta Transportation retiring, the department wanted to ensure its team could continue to effectively manage the work of the consultants. To do this, it needed design software compatible with its MicroStation-based drafting system.

Because InRoads is built on and fully integrated with MicroStation, the complexities and data loss that could result from drawing conversion are no longer issues for Alberta Transportation. All drawings will now retain full design intelligence. InRoads' particular strengths in LiDAR survey data, divided highways, and interchange design were leading factors in the selection of the software. Dynamic updating and superior animation capabilities were also important criteria for success.

"Our portfolio for road design and engineering offers a comprehensive, interoperable toolset for roadway infrastructure development, and Alberta Transportation is the latest government entity to take advantage of its capabilities," said Ron Gant, Bentley's global marketing director for civil engineering. "The ministry joins the many government transportation agencies that have long relied on Bentley's road and bridge solutions and products for their civil engineering needs. Among these agencies are 47 of

CIMdata PLM Industry Summary

the 50 U.S. state departments of transportation (DOTs), the U.S. Federal Highway Administration, the U.S. Department of Transportation, and seven of the 10 provinces in Canada.”

For additional information about InRoads Suite V8i, visit <http://www.bentley.com/InRoads>.

 [Click here to return to Contents](#)

Airborne Composites Anticipates Cutting New Product Lead Time by 20 Percent with the Purchase of VISTAGY's FiberSIM® Software

18 February 2009

VISTAGY, Inc. announced that **Airborne Composites** has purchased FiberSIM® software to reduce lead times for new products by an anticipated 20 percent and for redesigned and scaled versions by more than 30 percent. The first program FiberSIM is being used on by Airborne Composites is for the design and tooling of the composite overhang panels for the empennage wing surfaces of the Gulfstream G650 business aircraft. The panels are a sandwich structure comprised of carbon fiber/epoxy skins and honeycomb core. Airborne Composites is subcontracting for Stork Fokker on the G650 program.

Airborne Composite's emphasis on precise product definition and its integrated design-and-build philosophy enables it to deliver cost-effective and reliable solutions. But the biggest challenge Airborne Composites faces with the G650 program is short lead times and the need to use concurrent engineering techniques to make rapid design changes during definition of tooling, plies and processes.

“FiberSIM provides us with a competitive advantage because it enables us to design and tool our composite parts accurately and quickly so we can meet the demanding deadlines that are so common in the industry these days,” said Wiard Leenders, general manager of Airborne Composites. “FiberSIM is completely integrated into the Pro/ENGINEER Wildfire CAD system and allows for redefinition of the CAD part while defining the plies, which enables our engineers in analysis and design to work in parallel and deliver designs faster. The software simulates how fibers deform when draped over a complex curvature, giving us the information we need to accurately define plies on the first iteration.

“Furthermore, FiberSIM's export and documentation capabilities give us the ability to quickly create clear instructions and export flat patterns to laser projection and cutting software. Our products require accurate ply definition and layup so engineering can be done quickly. FiberSIM enables us to accomplish this by generating this data in a controlled and efficient manner.”

“We're pleased to be working with one of the up-and-coming design-and-build companies in the aerospace industry to help them significantly reduce lead times on new products,” said Scott Carlyle, vice president of worldwide sales for VISTAGY. “Our combined expertise and FiberSIM's proven ability to accelerate the composites engineering process will help Airborne Composites meet the delivery timeline of the Gulfstream G650 program.”

 [Click here to return to Contents](#)

Apache Deepens Collaboration with STMicroelectronics to Address Power and Noise Challenges for 45/32nm Designs

19 February 2009

[Apache Design Solutions](#) announced that the company has expanded its business relationship and technical collaboration with STMicroelectronics to address the upcoming power and noise challenges

CIMdata PLM Industry Summary

associated with 45/32nm designs. Apache and ST's long-standing cooperative efforts have resulted in the delivery of power and noise solutions for SoC power signoff, advanced low power design validation, custom IP analysis and modeling, and early-design power/ground grid prototyping. This collaboration expands ST's use of Apache's RedHawk and Sentinel platforms to address the upcoming design challenges such as 3D-IC power integrity, DDR jitter detection and prevention, chip-package-system convergence, and EMI analysis.

"We selected Apache as our partner for power and noise integrity, because of their solid technical vision, their specific focus, and their expertise in this very important and difficult area, as well as for the quality of their R&D and support teams," said Philippe Magarshack, group vice president, Technology R&D, STMicroelectronics. "By collaborating with Apache, we expect to address early on the global power and noise issues brought by the 45/40nm and 32/28nm technology nodes. These early solutions will help us reduce system cost and mitigate signal-integrity and power-integrity-related design failure risks."

"We are excited to further deepen our partnership with ST to address the upcoming convergence challenges for the 45/32nm designs," said Andrew Yang, CEO of Apache. "We look forward to our continued technical collaboration and gaining their insight to further develop new technologies for power and noise integrity."

 [Click here to return to Contents](#)

Delcam's PartMaker Give QA Technology Faster Turn Around

19 February 2009

Delcam's PartMaker SwissCAM software allows QA Technology, a world-leading manufacturer of test probes for printed circuit boards, to efficiently turn around small lot sizes on its Tornos Deco Swiss-type turning centre. According to Dave Coe, Vice President at the New England-based company, his customers have a simple view of the benefit this helps his company to provide.

"The shorter the better as far as our customers are concerned," says Mr. Coe.

When he says short, he's referring to short lead times and small prototype lot sizes of the array of components and connectors his company engineers and manufactures. Historically, QA Technology's component manufacturing had been outsourced to a number of vendors with a variety of CNC machines. Because of the demand for quick turnaround and small lot sizes, QA Technology decided to add CNC Swiss capacity within the company, in order to fill customer requirements that outside vendors simply could not meet, either economically or reliably.

As a result, QA decided to purchase a Tornos Deco 7a, a machine used by some of the company's current vendors, and PartMaker SwissCAM. The software provides the link between QA's engineering department, which designs its product using both 2D drafting and 3D solid modelling, and the manufacturing department that is tasked with producing the parts.

"The really big benefit to having PartMaker is the ability to take the solid model, or even the DXF file, coming out of our engineering department for the part and immediately import it and be able to view it, edit it as necessary, and generate accurate toolpaths that are not subject to human error, as they often are when you are using manual programming methods," said Mr. Coe.

Thanks to a close collaboration between Tornos and the PartMaker developers, a special data-file format generated by PartMaker can be directly imported into Tornos' TB-Deco software. This ensures accurate

CIMdata PLM Industry Summary

transfer of the SwissCAM toolpaths. “If it looks good in the simulation in PartMaker, it should look good when it comes off the machine,” according to Phil Pierce, CNC programmer at QA.

This reliability also gives extra flexibility. For shorter-running jobs, the user might not even make any adjustments to data imported from PartMaker. For longer-running jobs, where every fraction of a second counts, the programmer can use the unique optimisation capabilities of the TB-Deco software to achieve the fastest possible cycle time.

“For me, it’s all about speed,” commented Mr. Pierce. “It’s easy for me to take a job, generate a program with PartMaker SwissCAM, send it right over to the machine, optimise the program in TB-Deco and get parts running within a day. If I had to write the whole program through TB-Deco, it would take a lot more time. With the system we have in place, it’s a very quick turnaround to have high-quality parts coming off the machine.”

 [Click here to return to Contents](#)

DONG Energy Power A/S Chooses Comos

26 January 2009

The Danish energy supplier DONG Energy Power A/S, based in Fredericia, is using Comos engineering software from Comos Industry Solutions for the first time. Comos, the complete engineering solution for the entire basic and detailed engineering process is being used for a major planned project. Already for years, Comos has been a proven solution in the power plant sector. The life cycle asset information management software is being used for the long-term planning, operation and maintenance phase of numerous projects, among others at ABB, E.On and Vattenfall.

In summer 2006, six Danish energy companies – DONG, Elsam, Energi E2, Nesa, Copenhagen Energy and Frederiksberg Forsyning – merged to form today’s DONG Energy Power A/S. The challenge was to bring together six different corporate cultures with around 5,000 employees, their working habits, and their workflows at numerous sites across Denmark and abroad.

Standardisation of engineering processes

The first thing in the focus was to achieve an optimum and efficient collaboration of all companies along with a standardisation of the engineering processes of all six companies. With the use of Comos, DONG Energy Power A/S has been enabled to create these essentials. The Comos engineering platform is now being used to manage all relevant data centrally in Comos and to achieve a transparent workflow across all departments even beyond the planning phase.

Ryan Schnipper, Senior Manager DONG Energy Power A/S:

“Not least, it has been a strategic decision for us to use Comos. The order situation is excellent; the demand for engineers is high, since in Denmark there is the same shortage of skilled professionals as elsewhere in Europe. By using the engineering tool, we can significantly reduce a large proportion of the current manual engineering. Besides accelerating the engineering and increasing the quality of our products, the integrative 3D engineering without cross-media conversion was the decisive feature that persuaded us to choose Comos. Comos will enable us to accelerate our engineering and increase the quality of our products.”

Terkel Tofte, Managing Director Comos Industry Solutions Denmark:

“We are proud of having won DONG Energy as our customer. It gives us the opportunity to prove once

CIMdata PLM Industry Summary

again that our experience in the power plant sector with our engineering software Comos will also cope with Dong's quality and security requirements. By using Comos, DONG Energy will not only be able to realise considerable savings in the future more quickly. Moreover, engineers will work more efficiently and will be able to focus on their real tasks with optimisation of the engineering at the same time, achieved by integrative 3D engineering without cross-media conversion.

DONG Energy Power A/S uses MicroStation* and, with the Comos Plant Modeler, is now able to carry out integrative 3D engineering without media interruptions. The linking of 2D/3D planning takes place right from the start of the project. Electrical planning starts in parallel and control planning will proceed at a later date."

If you have any further queries regarding Comos Industry Solutions in Denmark, please contact Mr. Terkel Tofte via e-mail at: terkel.tofte@innotec.com or call him at: + 45 3324 4434.

*MicroStation is a suite of CAD software products for two- and three-dimensional design and drafting, a Bentley Systems trademark.

 [Click here to return to Contents](#)

LSI Corporation Selects Synopsys as Its Primary EDA Partner

18 February 2009

[Synopsys, Inc.](#) announced that LSI Corporation, a leading provider of silicon, systems and software solutions for the storage and networking markets, has signed an expanded business agreement to establish Synopsys as its primary EDA partner across the LSI Corporation design flow. As a result of the expanded relationship, LSI Corporation plans to consolidate on Synopsys design flow for designs at 40-nanometers (nm) and below.

"During the last two years, we have successfully deployed Synopsys design tools to tape out a number of 65- and 40-nanometer production chips for networking and storage customers," said Sudhakar Sabada, Senior VP / General Manager, Custom Silicon Division. "Looking at design needs for next-generation products, we chose Synopsys because of its strong product portfolio, advanced technology coverage, superior product quality, and outstanding global support."

With this latest agreement, LSI Corporation has chosen products across Synopsys' product portfolio, including Synopsys' Galaxy™ design platform featuring IC Compiler place-and-route technology, Design Compiler® synthesis, PrimeTime® timing analysis, Star-RCXT™ parasitic extraction, Synopsys' Discovery™ verification platform featuring the VCS®, HSPICE® and HSIM™ simulators for analog and digital verification; DesignWare® Library; and the Eclipse™ Low Power solution.

"At LSI, our success is built on delivering more than technology. Through strategic partnerships, a comprehensive silicon-to-systems approach, and trusted relationships with our customers and their businesses, we're helping drive the next generation of products," said Jeff Richardson, executive vice president and general manager, Semiconductor Solutions Group at LSI Corporation. "By extending our long-term relationship with Synopsys, we can take full advantage of Synopsys' technology solution and services to drive further efficiencies in the design process across our business."

"LSI Corporation and Synopsys share a number of common goals, including providing innovative technology solutions that enable products which seamlessly bring people, information and digital content together," said Chi-Foon Chan, president and chief operating officer at Synopsys. "This collaboration can increase engineering productivity for LSI Corporation, accelerating delivery of next-

generation IC solutions while reducing costs and schedule risk."

 [Click here to return to Contents](#)

Okuma America Corporation Selects PTC CoCreate to Design CNC Machinery for Growing American Market

18 February 2009

PTC® announced that Okuma America Corporation, the US-based affiliate of Okuma Corporation and a world leader in the development of computer numeric controls (CNC) and machining technology, has selected PTC CoCreate® to design CNC machinery adaptations within their standard CNC product lines for North and South American markets. CoCreate is the explicit 3D CAD modeling and data management software that provides companies with a lightweight and flexible approach to designing products.

For manufacturers delivering products to a worldwide market, the challenges can be countless. For complex products, especially ones that are customized to meet localized needs, the barriers to success are even greater. Okuma America is one such manufacturer. With its parent company based in Japan, the majority of the product designs Okuma produces regularly require customization for application and use in the North and South American markets that Okuma serves. Its geographically distributed design teams need the ability to quickly develop unique and regionally appropriate customer designs that involve constant change across its variety of regional customer bases. Okuma America wanted a 3D CAD solution that would deliver a complete product design environment that would be flexible and easily adaptable for its design-to-order and custom product lines.

Okuma's US-based design team in Charlotte, NC uses PTC CoCreate to construct and adapt its existing product designs for these markets—custom designs that offer fast-on-the-fly interactions with geometry. Each month, the Charlotte team receives machines containing 2,000 to 10,000 components that require specific customization for these mixed American markets. By utilizing CoCreate explicit 3D modeling to adapt their existing product line, Okuma is able to satisfy the uniquely specialized customer requirements.

“Okuma America product engineers work in a global design environment and experience the constant pressure of needing to reduce design cycles of custom Okuma products in order to remain competitive,” said Marc von Amsberg, senior mechanical engineer, Okuma America. “PTC CoCreate explicit design software gives Okuma America engineers the flexibility to address that challenge.”

Explicit 3D CAD systems like CoCreate enable the import and adaptation of multi-source CAD data. This is a major benefit to companies working across an extended supply chain for procured components or subcontracted design, saving time, money and offering immediate benefits to both customer and manufacturer alike. For Okuma America, the CoCreate explicit approach to design offers a comprehensive method of product development tools that translate into speed, flexibility and responsiveness to change. Engineers are able to deliver fully customized products to customers fast—addressing and solving sudden complications that can often arise out of custom product design.

“[PTC CoCreate](#) provides speed, flexibility, and responsiveness-to-change for customers facing short design cycles, one-off product designs, or companies demanding a lightweight design process,” said Martin Neumueller, director product management, CoCreate product, PTC. “The CoCreate explicit approach to 3D CAD software design delivers faster design cycles and flexibility to organizations like [Okuma America](#).”

 [Click here to return to Contents](#)

Olympus Medical Systems Starts Roll-Out of CIM DATABASE

18 February 2009

The Japanese Olympus Corporation is not only globally successful with camera and audio equipment, but also a leader in medical systems technology. This especially applies to the surgical field, providing system solutions for the surgery ward. These are serviced across Europe by the European Competence Center for System Integration (ECCSI), located in Hamburg with Olympus Winter & Ibe GmbH (OWI). Here, CONTACT Software won a tender to implement a product lifecycle management strategy, initiated by the OWI management. The first applications went online end of last year with the installation of a centralized database for the sales and configuration of surgery wards based on CIM DATABASE. October 2008 also saw the commission of the next PLM module for the segments development and production. With its overall completion, the PLM platform will support the complete chain of processes from the virtual product to after-sales services, utilized as a global information hub for the surgical division.

Olympus counts as a leading international manufacturer of endoscopes and other imaging technique solutions for internal medicine and surgery departments and as such is specialized in equipping complete operating theatres. Such projects are complex and are, for obvious reasons, subject to strict quality specifications – not only in development and production, but also and especially in sales and after-sales services. To fulfil the demanding challenge of selecting a customized client solution from a wide range of system components, such a project implies the involvement of many - often internationally dispersed-specialists. Necessary data on configuration, installation and service are not only required by the different manufacturing units within the Olympus group, but also by external sub-contractors, which in the past meant time-consuming administration of data and documents. CIM DATABASE now provides all project-related, valid documents from within a logically centralized repository. This repository also manages other functions such as rights management, workflow and revisioning, warranting data validity and process compliance and reliability. „Our new project database makes the work of our international sales teams in collaboration with the project engineers considerably easier by providing a high degree of transparency, efficiency and security for all involved“, says Ingo Josten, head of the ECCSI PDM project with OWI.

Within the next few months, the CIM DATABASE application will be extended to the endoscopy research department, replacing the current PDM system. Forthcoming topics are the CAD/CAE data management for Unigraphics NX 4 and SolidEdge, the electronic-design-automation solution Pulsonix and EPLAN Electric P8 as well as the administration of Office documents. It is also planned to synchronize business objects with the ERP system BaaN via Web-Services. The integration of an external development site in the Czech Republic is planned for spring 2009.

The Olympus Group is headquartered in Tokyo, with its European HQ based in Hamburg. Medical technology is a key revenue asset within the group; its product range encompasses professional system solutions for medicine, science, research and industry and covers the domains endoscopy, microscopy, bioanalytics and diagnostics. The PLM project with ECCSI has received international attention within Olympus and has since initiated presentations in Japan and the US.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Project Centric Serimax Selects IFS to Enhance Its Operations

17 February 2009

IFS announced Serimax, an international welding company focusing on oil and gas industries, has selected IFS Applications to overhaul its information system and optimize the management and follow-up of projects carried out under extreme conditions.

The agreement covers project and inventory management, sales, financial activities, and project execution. Implementation has begun in the United States and France, and will be rolled out across the rest of the group starting in 2010. IFS' experience and extensive references in the energy industry and the field of engineering, procurement and construction (EPC) were key deciding factors for Serimax.

When designing its information systems, the company had to consider the need to harmonize processes after a merger, the complexity of the projects managed, and the extreme conditions under which the projects are carried out. Serimax needed a consolidated data management system to successfully manage its projects and ensure corporate growth. The rich feature set of IFS Applications allows the company to model project tracking and integrate its scheduling and logistical data. IFS' ERP solution offers several key advantages, including enhanced profitability, improved management of equipment risks and deadlines, as well as easier and faster collection of customer receivables.

The IFS Applications Project Management component allows Serimax to control all phases in the project lifecycle, improve communications and encourage information exchange between all parties involved.

“With the Sales and Financial Management components in IFS Applications, Serimax can monitor its projects all the way from sales prospecting through to final payment, and can generate detailed project profit and loss reports,” Serimax Information Systems Director Jean-Pierre Genoud-Prachex said. “This is a challenging project for Serimax, covering all our corporate processes worldwide and representing the largest investment we have ever made in an IT system. IFS Applications provides a global view of all our projects and an interdivisional view of their progress. Both the quality and availability of data provided by IFS Applications will boost the development potential for all our businesses.”

“SERIMAX is an excellent example of how IFS' focused industry approach fits the customer's needs. IFS Applications provides the range of components Serimax needs to run its project-based business efficiently, IFS France President and CEO Amor Bekrar said. “We are the obvious choice for this kind of company working in an international environment.”

 [Click here to return to Contents](#)

Richard Childress Racing Team Uses PTC Software to Speed Development of NASCAR's Sprint Cup Series Winning Car

17 February 2009

PTC announced that Richard Childress Racing (RCR), whose cars are designed and developed using PTC's Pro/ENGINEER parametric MCAD/CAM/CAE software, has claimed victory at the Budweiser

CIMdata PLM Industry Summary

Shootout, NASCAR's Sprint Cup Series exhibition event which took place Saturday, February 7, 2009 at Daytona International Speedway in Daytona Beach, Florida.

PTC software is used by RCR in all aspects of race car design, engineering, and manufacturing and directly contributed to RCR's No. 29 car victory at the 2009 Daytona Shootout. The entire chassis that won the 2009 Budweiser Shootout was designed using Pro/ENGINEER. Pro/ENGINEER is used to assemble and move the suspension mechanism to check for proper travel and clearance issues. All structural analyses for critical components such as spindles, lower control arms and seat belt mounts are performed utilizing Pro/ENGINEER. Furthermore, Pro/ENGINEER helps RCR reduce the weight of their components while maintaining the proper strength. Pro/ENGINEER is also used to create the CNC program for each part, which enables RCR designers to make changes without requiring the programmer to reprogram the entire part and can save valuable time during the development of the car.

"We use [PTC](#) Pro/ENGINEER as the standard for the RCR team race cars because it enables us to design and deliver a competitive NASCAR vehicle under considerable time and cost constraints," said Clifton Kiziah, senior engineer, RCR. "PTC provides RCR with powerful, integrated 3D design and development software that allows RCR engineers to develop everything from concept to manufacturing within one solution. We look forward to continuing our work with PTC solutions."

"PTC congratulates Kevin Harvick and the RCR team for its 2009 Daytona Shootout victory," said Michael Campbell, senior vice president product management, PTC. "RCR's use of PTC solutions for development and optimization of their NASCAR race car is just another example of how valuable the use of PTC technology is to helping racing teams achieve razor thin performance improvements. We're pleased RCR was able to achieve this victory with a car designed and developed with Pro/ENGINEER."

About Richard Childress Racing

Richard Childress Racing (<http://www.rcrracing.com>) has earned more than 180 victories and 12 NASCAR championships, including six in the Sprint Cup Series with the legendary Dale Earnhardt. RCR was the first organization to win championships in the Sprint Cup Series, Nationwide Series and Camping World Truck Series. Its 2009 Sprint Cup Series lineup includes Casey Mears (No. 07 Jack Daniel's), Kevin Harvick (No. 29 Shell-Pennzoil), Jeff Burton (No. 31 Caterpillar) and Clint Bowyer (No. 33 Cheerios/Hamburger Helper/BB&T). Its 2009 Nationwide Series lineup includes Bowyer, Burton and Stephen Leicht (No. 29 Holiday Inn/Holiday Inn Express).

 [Click here to return to Contents](#)

Schindler Group Increases Efficiency of Global Collaboration by 300% with PTC Product Development System

17 February 2009

PTC announced that the Schindler Group, the largest supplier of escalators and the second largest manufacturer of elevators worldwide, improved its product development efficiency by 300 percent after implementing the PTC® Product Development System (PDS). A long-standing customer of Pro/ENGINEER®, PTC's 3D parametric CAD/CAM/CAE solution, Schindler adopted PTC Windchill® for content and process management. PTC supports Schindler's key product development business processes such as variant design, design outsourcing, and change and configuration management. By implementing a common product development infrastructure based on Windchill, the company improved the collaboration among engineering sites in Europe, South and North America and China and reduced time-to-market for its highly customized products.

CIMdata PLM Industry Summary

Founded in Switzerland in 1874, Schindler Group is the largest manufacturer of escalators and the second largest maker of elevators in the world. Schindler operates in more than 100 countries with offices on all five continents and employs 44,000 worldwide. Nearly half its current annual revenue is generated in the US and Asia. As a result of its extensive global expansion, the company realized that it was developing an ever increasing variety of different customer-specific products to meet specific regional requirements. Schindler quickly recognized the need to standardize these product variations to reduce development effort, speed time-to-market and provide efficient aftermarket service. The challenge was to design global products with a geographically dispersed development team. Schindler created a central Corporate Development Organization (CDO) to lead the creation of global products and improve knowledge transfer between regional teams in Switzerland, the US, Brazil, and China. Schindler then sought one single collaboration platform to adequately support its new processes for global product development.

Schindler evaluated two alternative approaches: a direct integration of product development data into the existing ERP system versus the implementation of the PTC product development system. After an extensive technology benchmark, Schindler chose PTC to support its new business processes and enable global collaboration. As part of the implementation, Windchill, the integral information backbone within the Product Development System, manages previously distributed content in one single repository and allows role-based access to both internal and external partners. PTC's Global Service Organization (GSO) merged the existing databases into the new Windchill database, and implemented Schindler's release and change management process as an integrated workflow. Notification functions ensure that the relevant departments and employees are immediately informed when the status of certain data changes. Automating this process streamlines Schindler's new development processes and keeps development timelines on track.

"The PTC solution offered greater flexibility than a direct integration into the ERP system," said Christian Lehmann, project manager at Schindler. "In product development we want to be able to generate data freely, without having to constantly create material master files and consider how the product will be manufactured. In addition, the solution was easy to configure and operate."

Since Windchill has been "live," [Schindler](#) relies on a faster, easier development with concurrent design and engineering. "Without process standardization and the PTC Product Development System, we would have needed to double or triple the human resources at our overseas sites. Accordingly, we have realized a 200 – 300 percent improvement of efficiency in our product development," concludes said Bernhard Gysi, head of research & development, services and testing at Schindler. "Today, eighty percent of the data for our global product platforms are housed in one location, Windchill. All other sites access the core development data and adapt it for their specific requirements." Schindler's goal is to expand on the success of the PTC PDS by moving additional development tasks to its CDO in the future.

"The [PTC](#) product development system helps customers streamline and optimize key product development processes to manage data in distributed environments and create economies of scale that help companies create competitive advantages even in tough economic conditions," said C. Richard Harrison, president and chief executive officer, PTC. "With PTC solutions, Schindler is able to ultimately drive greater efficiency into product development while still supporting key business initiatives to meet a multitude of customer requirements and produce the highest quality products available."

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

SawStop Selects Datastay PLM to Improve Its Engineering Effectiveness

11 February 2009

SawStop, a leading global manufacturer of safe 10-inch table saws, selected [Datastay](#) PLM to control the product lifecycle process. Within Datastay PLM, SawStop will be able to manage product data, bill of materials and engineering changes, while ensuring streamlined communication, reduced data management costs, and deriving tremendous operational insight through the Datastay reporting facilities.

 [Click here to return to Contents](#)

SolidWorks Software Helps Transform Bathroom into Design-Inspired Retreat

17 February 2009

The bathroom is rapidly evolving from a lowly functional space to a design-inspired retreat. [DECOLAV®](#) of Deerfield Beach, Fla., is at the forefront of this change, designing trend-forward bathroom furnishings and fixtures for the consumer and hospitality markets.

The company is using [SolidWorks® Enterprise PDM](#) along with SolidWorks [3D CAD](#) software to accelerate design, reduce errors, and create a round-the-clock global design operation – productivity that supports the company’s rapid growth and expansion.

“We’ve sped up our order-to-sample time for custom work by at least 40 percent, and we’ve increased efficiency and precision by ensuring that every designer and engineer is absolutely working on the latest version of a design,” said Juan Plasencia, vice president of engineering for DECOLAV. “SolidWorks Enterprise PDM is a great tool that supports our expansion both geographically and, through our new [Suite Simplicity™](#) business, beyond the bathroom. It focuses on customized hospitality industry furnishing from the bathroom to the master suite, at realistic prices.”

DECOLAV has SolidWorks Enterprise PDM servers in its Florida headquarters, its North Carolina warehouse and design office, and its manufacturing division in China. Each server mirrors the others and holds the latest designs with all changes and versions carefully tracked. American and Chinese engineers hand off SolidWorks 3D CAD designs to one another, with versions controlled by SolidWorks Enterprise PDM, enabling the company’s global design team to “follow the sun.” Coordination like this will ease the launch of new DECOLAV sites around the world, according to Plasencia.

“SolidWorks Enterprise PDM builds on the advantages that our switch to SolidWorks® 3D CAD software gave us,” Plasencia continued. “SolidWorks is easier to learn and use than other CAD software, and one 3D model accurately generates drawings, bills of material, and more. We can give dazzling accurate renderings to our customers and prospects at the early stages of a sale to reveal their new bathrooms before they are built.”

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

SolidWorks and SolidWorks Enterprise PDM are products from Dassault Systèmes SolidWorks Corp. (DS [SolidWorks](#)).

 [Click here to return to Contents](#)

Sredne-Nevisky Shipbuilding Plant Signs Large Contract with AVEVA

16 February 2009

[AVEVA](#) announced the signing of a 1 000 000 euro contract with Sredne-Nevisky Shipbuilding Plant (SNSP), Russia.

AVEVA solutions were selected because they are able to coordinate and manage data so that project costs and time can be minimized. The shipyard is able to produce design and production documentation that will reduce construction time and increase accuracy in both hull production and outfitting construction. Using AVEVA solutions also cuts down construction costs by more effectively managing the pre-assembly production documentation for each step of the building process.

Following the fast installation of the AVEVA solutions, and subsequent full training of the SNSP staff on the new system, a specialist team of engineers continued to work with AVEVA to configure the AVEVA software to satisfy SNSP's specific requirements.

SNSP, situated near St Petersburg in Russia, offers a wide range of services in shipbuilding, modernization and repair of ships and related constructions made of aluminium, steel and fibreglass. Both defence and civil orders are handled by SNSP: the former including minesweepers, missile boats and the topsides of corvettes; the latter, tugboats, fireboats and floating fuel stations.

About Sredne-Nevisky Shipbuilding Plant

Sredne-Nevisky Shipbuilding Plant was founded in 1912 under the name of Ust-Izhorskaya shipyard. It is located in the settlement Pontonnii near St. Petersburg on the bank of the river Neva.

SNSP, situated near St Petersburg in Russia, offers a wide range of services in shipbuilding, modernization and repair of shipboards and relative constructions made of aluminium, steel and fibreglass. Both defence orders and civil ones are dealt with. The former include minesweepers, missile boats, corvettes' topsides, the latter - tugboats, fireboats, floating fuel stations.

The plant possesses all the necessary licenses, certificates and findings to design and construct civil ships, arms and various items of defence equipment.

 [Click here to return to Contents](#)

3DCS technology is Helping ITER Optimize Design and Assembly of Fusion Plant in Cadarache, France

February 2009

Dimensional Control Systems, Inc. (DCS), a Dassault Systemes Premier CAA V5 Gold Software Partner for Tolerance Analysis announced the successful implementation of 3DCS Catia V5 Based software with the design of the ITER Fusion Reactor. 3DCS CAA V5 is a Dimensional Tolerance Analysis Software Solution fully embedded inside of Catia V5.

This is believed to be the “first ever” application of tolerance analysis for this type of product.

Dimensional Control Systems was contracted by ITER to dimensionally assess several aspects of a Fusion Plant in Cadarache, France. For over eight months the DCS Team has meticulously created 3DCS CAA V5 Based Tolerance Analysis Models representative of the design and manufacturing processes of the ITER plant.

The mission set forth to DCS by ITER is clear: to streamline selective dimensional aspects of the

CIMdata PLM Industry Summary

product and assure that all components assembled the first time, without the need for rework or modification whatsoever.

What is ITER?

ITER is a joint international research and development project that aims to demonstrate the scientific and technical feasibility of fusion power. The partners in the ITER Project are the European Union (represented by EURATOM), Japan, the People's Republic of China, India, the Republic of Korea, the Russian Federation and the USA. ITER will be constructed in Europe, at Cadarache in the south of France. In the core of ITER, a mixture of two hydrogen Isotopes (Deuterium and Tritium) will be heated up and compressed by means of large magnetic fields, at the condition similar to those necessary to operate a fusion powered electricity production plant. ITER's Fusion Reactor requires complex engineering – and holds many new and emergent technologies. The construction of ITER has started and many components are in the early phase of production.

“The complexity in assembling a fusion plant necessitates an intricate assembly process”, states Bob Kaphengst – President and CEO of Dimensional Control Systems. Mr. Kaphengst also credited the “robustness” of the tool for being able to handle many non traditional assembly methods. Many of the investigative dimensional measurements implemented by Dimensional Control Systems have been rather "classic" from a modeling point of view (gap, step, distance variation, hole misalignment, etc.). However - the assembly process required significant modeling complexity, which was handled fairly easily utilizing the robust capabilities of 3DCS such as the ability to model multistage assemblies, pin-ability, hole winking, collision detection, etc.

The area targeted by ITER of significant dimensional concern is at the vacuum vessel of the plant, which resembles a "nine-slice" orange. This vacuum vessel is assembled in a complicated and rigorous procedure, ultimately forming the “complete orange.”

[3DCS](#) tolerance models were constructed to analyze these “slices” of the vacuum vessel which require extremely strict tolerances for successful assembly, and minimized custom machining and welding. 3DCS tolerance modeling is being used to validate a complicated plumbing system, and most importantly, assembly of internal components of required material thickness to endure the extreme heat and pressures involved.

Some of the key requirements of the vacuum vessel being analyzed are:

1. Alignment of Sectors (slices) in radial and vertical directions.
2. Gap variation between Sectors in toroidal direction.
3. Alignment of TF Coils in radial and vertical directions.
4. Gap variation between TF Coils in toroidal direction.
5. Gap variation between Ports and Port Plugs in toroidal and vertical direction

All of the assembly processes have been replicated in the 3DCS tolerance model. The method of model development and input from supporting ITER Engineers revealed that not all aspects of the design and assembly methodology were completely thought out. It is common that the process of creating a 3DCS Tolerance Analysis Model will identify design and manufacturing conflicts. Additionally, engineers who were relying on simple linear stack tolerance calculations were surprised to see the potential issues through the use of 3DCS. The "continuous deviation" function of 3DCS is helping ITER engineers to understand with confidence potential failures.

CIMdata PLM Industry Summary

3DCS modeling is also supporting ITER in the realistic establishment of tolerance requirements with respect to function, performance, and cost. The initial results of the 3DCS model were the foundation for the re-evaluation of the initial requirements. It's apparent that the use of 3DCS and tolerance modeling is supporting ITER re-evaluating the design and manufacturing processes as originally strategized.

The up-front 3DCS analysis is proving to be undeniably beneficial early enough in the project where changes can be made with no negative effect on cost or timing. The cost and time saved by these early changes can be assumed to be significant.

It's worth noting that many variation results are validating measurement outputs within the expected range of variation. ITER is taking advantage of this data to relax the associated tolerances and requirements. Additionally, confidence is being gained allowing the effected engineering teams to concentrate on other areas needing greater attention.

The use of 3DCS at ITER is producing many positive influences to the design and assembly process. The level of "trust" in the results produced by 3DCS is growing quickly through the organization.

"ITER is now finding that many of its engineers now prefer to wait for analysis results before their "next move" as the data helps to "drive the decision making process" noted Jens Reich of ITER. Our thanks go out to Jean-Jacques Cordier and Jens Reich for being the key people within ITER who sought the use of Tolerance Analysis as a part of the baseline engineering process efforts.

About Dimensional Control Systems Inc. (DCS)

DCS is a world-class provider of Dimensional Engineering Consulting Services and Software Solutions. DCS is a trusted source of 3-D tolerance analysis technology. DCS has been successfully supplying organizations worldwide with full-service, "turnkey"

About ITER

ITER will be the world's largest experimental facility to demonstrate the scientific and technical feasibility of fusion power. Fusion is the process which powers the sun and the stars. When light atomic nuclei fuse together to form heavier ones, a large amount of energy is released. Fusion research is aimed at developing a prototype fusion power plant that is safe and reliable, environmentally responsible and economically viable, with abundant and widespread fuel resources. The ITER project is sited at Cadarache in the South of France. The construction costs of the facility are estimated at 5 billion Euros over ten years, most of which will be awarded in the form of contracts to industrial companies and fusion research institutions. Europe will contribute roughly half of the costs of its construction, while the other six Parties to this joint international venture (China, Japan, India the Republic of Korea, the Russian Federation and the USA), will contribute equally to the rest. Each Party has set up a Domestic Agency to organize and carry out procurement of the in kind contributions to ITER. The Domestic Agencies employ their own staff and have their own budget and will place contracts with suppliers.

 [Click here to return to Contents](#)

WorkNC Provides a Fast Track to the Finished Tool at Babilon GmbH

13 February 2009

WorkNC CAM/CAD software has formed a very important part of the process chain optimization at Babilon GmbH, based in Breuberg, Germany. The company specializes in the manufacture of injection molds and die casting tooling for the automotive industry, as well as the machining of pump impellers.

CIMdata PLM Industry Summary

Babilon realised that urgent productivity improvements were required in its electrode programming and graphite milling operations.

Jochen Babilon, Director said, “To meet the deadlines and quality requirements of our customers we need a continuous flow of data through the factory. Starting with the imported 3D CAD models, we add draft angles, create documentation and detailed drawings, and follow the process right through to the finished tool. Efficient operation requires motivated staff and the use of innovative technology.” To manufacture mold inserts, Babilon needs roughing and finishing electrodes for each shape as well as mirrored versions for each opposite hand. Jochen Babilon explained, “Our existing CAM system required us to write four similar programs to machine each mirrored pair of electrodes. We wanted to be able to automatically extract the four programs directly from the CAD model.”

Within two days of the installation of WorkNC, Babilon was generating its own programs. Jochen Babilon was impressed, “The software is easy to use and we were able to create roughing, finishing and mirrored versions of each electrode with little effort, including the associated machining toolpaths.” The company produces around 400 electrodes every month, so the time saving in programming alone is considerable.

On the strength of WorkNC, the company invested in new high speed machining centers with pallet handling for its graphite cutting, and used WorkNC’s Multi Part Machining (MPM) capabilities to optimize productivity. MPM considers a complete pallet load of electrodes as one part, using each tool across all the electrodes on the pallet. The software ensures collision free cutterpaths as it moves across the job, and eliminates the many time consuming tool change operations which would otherwise be required.

Safety is paramount for Babilon, as operators cannot react quickly enough to prevent a collision on a high speed machine. MPM automatically determines a safe retract height above the tallest electrode, and the clear graphics enable the programmer to identify the slightest potential problem.

Jochen Babilon has expanded the use of WorkNC within his company, “I never need to concern myself about collisions with WorkNC, toolpaths always run safely. We now program all our graphite and steel machining with the software and we have recently started using it for our 5-axis toolpaths. Our machine operators can be assured of an error free cutterpath as long as they comply with the tool length specifications associated with the job. All our collision avoidance is handled by WorkNC.” Babilon has considerably increased the level of its unmanned operation, thanks to the reliability of the software, and can start a 40 hour machining operation during the weekend with absolute confidence.

Since the installation of WorkNC, Babilon has been benefiting from Sescoi’s continuous software development program. Improved stock handling and rest material detection, new scalable surface finishing toolpaths, and new CAD tools for plugging and extending surfaces have been particularly useful.

Jochen Babilon likes the graphic interface, “Machining, verification and design all operate through the same integrated interface. This makes the software even easier to use and provides us with new tools for part analysis.” CAD model manipulation allows the user to measure features such as draft angles, radii and heights, while the single user interface makes it possible to edit both geometry and toolpaths, and simulate the results in the same environment.

Jochen Babilon concluded, “Sescoi is the right partner for us, both now and for the future. We will continue to expand the use of the collision checked and safe programs produced by WorkNC. This will further enhance our manufacturing processes and strengthen our competitive edge.”

 [Click here to return to Contents](#)

Product News

Announcing Alibre Translate; New Product Offers Broad Suite for Import and Export of Most Popular CAD Files

11 February 2009

Alibre, Inc. announced Alibre Translate, a new product which adds an extensive set of import and export filters to the popular Alibre Design product line. Alibre Translate contains the following filters:

1. SolidWorks Export
2. Pro Engineer Import
3. Inventor Import
4. Parasolid Import
5. Parasolid Export
6. Solid Edge Import
7. CATIA V5 Import

"Alibre has had many requests for direct file support for SolidWorks, Inventor, Pro Engineer, Solid Edge, and CATIA," says J. Paul Grayson, Alibre Chairman and CEO. "While our prior support of industry standard neutral file formats gave us excellent compatibility, this new set of import and export filters greatly improves our customers' ability to work with their clients and downstream and upstream partners."

Mr. Grayson added, "We are especially excited to offer SolidWorks file export. Many companies that use SolidWorks require their subcontractors to submit designs in .sldprt and .sldasm formats. We understands the business requirements of our users and their need to seamlessly work with and collaborate using whatever file format is being used in their current situation. This is no longer a challenge for our clients."

Alibre Design is the most affordable 3D parametric CAD program on the market and typically costs less than 1/5 of a seat of SolidWorks, Inventor, Solid Edge, or Pro Engineer. Alibre Design already includes support for most industry standard file formats including STEP, IGES, DXF, DWG, SAT, Rhino 3DM, STL, and various image formats.

Alibre Translate is built on the Alibre Design 11.2 platform. Alibre Translate and Alibre Design 11.2 are expected to ship in early March. Alibre Translate has a suggested retail price of \$499. Alibre Design Version 11.2 is available to all Alibre Design customers on active maintenance.

For more information on Alibre, or for a free trial of Alibre Design, please visit <http://www.alibre.com>.

 [Click here to return to Contents](#)

Autodesk 2010 Manufacturing Software Demonstrates Power of Digital Prototyping

18 February 2009

CIMdata PLM Industry Summary

Autodesk unveiled the latest releases of its 2D and 3D design and engineering software for manufacturers. Significant enhancements and newly packaged suites of the company's products can help manufacturers build better products, ranging from mobile phones to bulldozers, in less time.

The new 2010 product lineup for manufacturers includes Autodesk Inventor family of products, AutoCAD Mechanical, AutoCAD Electrical, Autodesk Alias family of products, Autodesk Moldflow, Autodesk Navisworks, Autodesk Showcase, Autodesk 3ds Max Design and Autodesk Vault software -- applications that constitute the Autodesk solution for Digital Prototyping. The 2010 software releases introduce an even greater range of design, visualization and simulation capabilities, along with tighter interoperability than ever before with both Autodesk software applications and other CAD tools.

"Putting powerful 2D and 3D software within the reach of mainstream manufacturers positions companies of all sizes--not just large enterprises--to compete on a global scale," said Robert "Buzz" Kross, senior vice president, Manufacturing Industry Group at Autodesk. "With our 2010 product line, customers can achieve greater collaboration than ever before between industrial design, engineering, manufacturing and marketing teams that are all responsible for bringing quality products to market."

Autodesk Digital Prototyping software gives manufacturers the ability to digitally design, visualize and simulate how a product will work under real-world conditions before it is built. Digital Prototyping reduces reliance on physical prototypes, which helps reduce cost and accelerate time to market in highly competitive industries.

Autodesk Inventor 2010: The Key to Design, Visualize, and Simulate Products Digitally

As the foundation for Digital Prototyping, Autodesk Inventor software helps produce an accurate 3D model that validates the form, fit and function of a design before it is built. The Autodesk Inventor 2010 product line introduces new usability and productivity enhancements for 2D product documentation, 3D product design, extended simulation capabilities, a strong focus on plastic part creation and new data management and exchange capabilities.

New features in the Autodesk Inventor 2010 product line include:

- **Plastic part design and tooling:** The Autodesk Inventor product line simplifies the design of high-quality molded part models with automated capabilities for designing injection molds for plastic parts. Incorporating Autodesk Moldflow technology, Inventor enables users to design complex plastic parts and create and validate their corresponding mold design, helping to reduce errors and improve mold performance -- resulting in higher product quality and faster time to market.
- **Ability to simulate product performance:** The Autodesk Inventor 2010 product line provides improved support for motion simulation and static and modal finite element analysis at both the part and assembly level.
- **Design productivity:** Continuing to improve usability and productivity,

CIMdata PLM Industry Summary

Inventor offers a new user interface that combines an intuitive 3D design environment for creating parts and assemblies with tools that enable engineers to focus on a design's function to drive the automatic creation of intelligent components such as plastic parts, steel frames, and rotating machinery.

In addition, Inventor 2010 incorporates an enhanced architecture, engineering and construction (AEC) Exchange functionality that enables building products manufacturers to publish 3D data in a format that is easy to use in building information modeling (BIM) applications, such as the Autodesk Revit 2010 product line.

"The Autodesk solution for Digital Prototyping allows us to design and manufacture at the speed of thought. Using Inventor to simulate real-world conditions means we don't need full-scale physical prototypes," said Kurt Bender, CAD manager at Viking Yacht Company, which produces luxurious, high-performance sport and cruising yachts. "We're also doing design reviews and marketing with digital prototyping, saving substantial time and money on each boat design. We're especially looking forward to the latest simulation capabilities coming in the 2010 release."

Along with the Inventor software, Autodesk is releasing new Digital Prototyping applications that support and streamline design, engineering, manufacturing and marketing workflows, including:

- **AutoCAD Inventor LT Suite:** Introduced in the 2010 release, this new suite combines Autodesk Inventor LT and AutoCAD LT to make it more practical and affordable for mechanical design professionals to start designing in 3D and participate in Digital Prototyping workflows. Autodesk Inventor LT offers part-level 3D parametric modeling, multi-CAD translation capabilities, automated DWG drawing views, and many other advanced capabilities found in Inventor.
- **AutoCAD Mechanical:** Now with even more intelligent drafting features for automating common design tasks, AutoCAD Mechanical offers mechanical designers and drafters significant productivity gains. New features include a streamlined design environment and bill of materials enhancements that help produce consistent results on the shop floor.
- **AutoCAD Electrical:** Purpose-built to accelerate the creation of electrical control systems, AutoCAD Electrical now offers a streamlined design environment and a new "one-line" circuit symbol library that help to increase productivity for control engineers. Enhancements to the powerful Circuit Builder tool enable designers to

CIMdata PLM Industry Summary

analyze the energy efficiency of circuits and help them to make "green" engineering decisions.

- **Autodesk Alias family of products:** Autodesk Alias 2010 industrial design software marks a major milestone with its first release on the Macintosh platform. Now available on Mac OS X, the new product family focuses on the specific needs and workflow requirements of three user profiles: creative professionals, digital modeler/sculptors and automotive/transportation designers. New and improved functionality further lowers barriers of adoption and helps to increase modeling productivity and quality. One of the world's best surface modelers, the Alias family of products provides fast, high-quality data integration and exchange with Autodesk Inventor and other third-party CAD software.
- **Autodesk Showcase:** Now with integrated raytracing, the 2010 design visualization software enables design, engineering, and marketing teams to quickly and efficiently create accurate, photorealistic, and compelling imagery from 3D CAD data to convey form and create environmental context to communicate brand character. Users can easily change the appearance and position of a product and manipulate parts such as wheels, body panels or mirrors.
- **Autodesk 3ds Max Design:** 3ds Max Design software makes it easier to prepare digital prototypes and create photorealistic design imagery. A render-quality viewport in the 2010 version facilitates the creative process by enabling users to iterate quickly and explore more design options.
- **Autodesk Vault:** The Autodesk Vault product line features extensive new document management capabilities that enable users to easily manage design revisions and control who can access data, and when. New revision control processes are built directly into Autodesk Inventor software, resulting in faster cycle times and better-quality engineering data. It also helps workgroups maintain control over the digital prototype at all times, so design departments can efficiently

CIMdata PLM Industry Summary

create and share Digital Prototyping information.

-- **Autodesk Navisworks:** A new part of the Autodesk solution for Digital Prototyping, the Autodesk Navisworks product line for manufacturing helps extended project teams visualize, optimize and collaborate on the most complex projects. Customers can combine large assemblies consisting of machinery, tooling, layout and facilities data from multiple CAD vendors to create a single, lightweight 3D digital model of factories and manufacturing plants. Navisworks reliably aggregates data to enable a real-time, whole-project view.

-- **Autodesk Moldflow:** Autodesk has simplified the Moldflow product line in the 2010 release to bring customers more value at a lower cost. The software suite for simulation, analysis, optimization and validation of plastic parts and their associated molds introduces new sustainability features, along with enhanced performance and quality. Autodesk Moldflow Insight offers in-depth simulation of the advanced molding processes using the world's largest plastics material database. Autodesk Moldflow Adviser simplifies plastics injection molding simulation and guides designers through analysis and interpretation, helping to avoid manufacturing delays and costly mold rework.

Availability

Product availability may vary by country. Details and purchasing options will be accessible starting March 24, 2009, at <http://www.autodesk.com/purchaseoptions>. An archive of the Autodesk Manufacturing product launch virtual press conference is available online.

 [Click here to return to Contents](#)

Centric 8 PLM Solution Offers Complete '10+2' Capability

13 February 2009

The news that "10+2" regulations went into effect Jan. 26 has left companies in the consumer goods and private-label industries scrambling – with the exception of those using Centric Software.

[Centric](#), which provides enterprise product lifecycle management (PLM) for apparel, footwear, accessory and other fast-moving consumer goods and private-label industries, has updated its Centric 8 solutions to integrate U.S. Customs & Border Protection's Importer Security Filing and Additional Carrier Requirements, commonly known as "10+2." This means that every one of Centric's customers involved in global sourcing is capable of achieving full compliance with 10+2 mandates, according to Ray Hein, Centric's executive vice president of marketing.

CIMdata PLM Industry Summary

The new regulations, designed to help prevent terrorist attacks on the United States, require vessel carriers bringing cargo to the United States to electronically transmit certain information to U.S. Customs & Border Protection (CBP) about their cargo prior to lading that cargo at foreign ports of entry. The filing must contain 12 data elements, including three elements not currently required for U.S.-bound imports.

With 10+2 capability available as part of the Product Sourcing module in the Centric 8 PLM suite, users can quickly view 10+2 information, and other sourcing data including supplier performance, compliance and other vital metrics. Instead of manipulating individual pieces of data across a global supply chain, Centric 8 manages and reports the ten (10) data elements needed to create the Importer Security Filing (ISF) as mandated in the 10+2 regulations.

Benefits for Importers of Globally Sourced Products

The new 10+2 regulations represent major changes for any business involved in importing, as they require communication and integration across the supply chain in ways never seen before. With Centric 8, these companies do not need to invest in separate technology to handle the new regulations, nor do they face typical issues inherent in integrating a separate compliance module into their business systems.

“The full reporting capability of Centric 8 enables companies to eliminate 10+2-related delays in imports, which translates to no interruptions in distribution, marketing or sales. Importers who utilize the collaborative Centric Product Sourcing module in Centric 8 already manage their suppliers and manufacturers to improve costs, margins, improve compliance, and product quality with visibility over their entire product delivery processes and supply chain partners.” says Hein.

 [Click here to return to Contents](#)

Dassault Systèmes Invests in Intercim

19 February 2009

Dassault Systèmes (DS) and Intercim LLC, a market leader in manufacturing and production operations management software solutions for advanced and highly regulated industries, today announced a new step forward in their strategic alliance, with Dassault Systèmes taking a minority position in Intercim LLC.

Today’s announcement illustrates Dassault Systèmes and Intercim’s commitment to bringing the real world of Manufacturing Execution Systems (MES) into the virtual world of PLM. The partners will provide a dynamic, real-time ability to execute production orders exactly as planned by manufacturing engineers and close the loop between engineering and the shop floor. Dassault Systèmes’ investment in Intercim, a partner since 2004, follows a June 2008 Memorandum of Understanding to provide the aerospace and defense industry with Intercim’s manufacturing operations management solution integrated with Dassault Systèmes’ V6 platform.

This investment strengthens the currently available joint Dassault Systèmes – Intercim V5 solution around 3D process planning and manufacturing execution. It also accelerates the development of a new V6 production experience that combines the values of MES and PLM, revolutionizing the sharing of intellectual property between engineering, manufacturing planning and production communities by:

- Creating real-time collaboration on product and production lifecycle data in a single online referential between the different communities in the manufacturing supply network, such as design engineering, manufacturing engineering, shop floor, and quality management;

CIMdata PLM Industry Summary

- Enforcing engineering-driven production execution on the shop floor, as designed and as planned;
- Increasing visibility and traceability for all manufacturing stakeholders of shop floor execution with real-time 3D access to the “as-built” product, process and resource information;
- Enabling immediate impact analysis and validation of corrective actions in the virtual model before committing to cost intensive implementations; and
- Validating production best practices with engineering for improved product manufacturability, reduced warranty costs and collapsed certification processing time for regulatory compliance.

“Because of the trends we see in aerospace and defense, like global sourcing, physical separation of design and manufacturing activities, and engineering specialization, it is critical that information exchange and collaboration between engineering, manufacturing and the supply network be handled in real-time,” said John Todd, Intercim president and CEO. “The combination of Intercim’s proven execution and manufacturing intelligence capabilities with the virtual experience provided by Dassault Systèmes’ solutions allows this type of collaboration and knowledge sharing for the first time.”

The future of production communities requires the power of PLM 2.0’s lifelike experience incorporating shop floor “as-built” information, product and quality analytics, and manufacturing best practices. [Dassault Systèmes](#) and Intercim’s joint vision enables such an expanded PLM 2.0 strategy, which includes the shop floor and supply network’s real-time production state.

“Dassault Systèmes and [Intercim](#) share a common vision for increasing customer manufacturing efficiency by bringing together the engineering and production communities through a real-time and accurate 3D production experience.” said Philippe Charlès, CEO, DELMIA, Dassault Systèmes. “Bringing MES into PLM is a major breakthrough for the industry.”

 [Click here to return to Contents](#)

E³.series 2009 from Zuken Breaks New Ground

18 February 2009

The 2009 version of [E³.series](#), Zuken’s software for engineering electrotechnical, pneumatic and hydraulic applications has made massive steps forward on both a detailed user level and on a system design level. Highlights include advanced support of product variants and options; of particular benefit to companies in industries such as automotive and machinery sectors, and functionality improvements for support of ribbon cables and curved connections enables designers to improve reliability and save time. There have also been great leaps in technology specific to particular modules within E³.series; introducing hierarchical design capabilities for E³.cable and integrated 3D functionality within E³.panel.

Complex Option Management

While E³.series already supports options and variants, for the first time it is easy to combine several options and/or variants together. It is now possible to define a set of variations for each model of a product, without having to have a different copy of all parts of the drawing. A user has one batch of different drawings for all options and then variants can be stored, without duplicating the different drawings for each product option. The bottom line is, this means less work to generate new more advanced models of products; as the user no longer has to copy and recreate all the data, they can just change parts of it. This has massive time saving and quality benefits.

E³.panel with Integrated 3D

For engineers working in panels that have several layers working within 2D can be exceptionally limiting, the new 3D capabilities now part of E³.panel allow electrical engineers to work in a 3D world, without having to develop specialist experience or work with complex construction commands. More information about E³.panel 2009 will be announced in the near future.

E³.cable's New Hierarchical Functionality for Design Reuse and Partitioning

Not being able to see and easily access design files to visualize the bigger picture can be very frustrating for electrical designers. In the 2009 version of cabling and harness design tool a user is now able to view the complete hierarchy of the design from top to bottom, making navigation and interpretation of the final product much easier. More critically this clear design structuring makes design reuse a reality and also allows designs to be partitioned, enabling work to be performed in parallel. This logical structuring saves time, delivers more flexibility and facilitates collaboration.

E³.series 2009 is now available.

Visit www.zuken.com/E3 for more general product information or [contact your local E³.series distributor](#).

 [Click here to return to Contents](#)

Fishbowl Solutions Announces Bounding Box Application For PTC® Pro/ENGINEER®

February 2009

Fishbowl Solutions, Inc. announced their Bounding Box Application for Pro/ENGINEER®.

In the mold making process it is common practice to manually calculate the rough cut or bounding box dimensions from the 3D CAD data so companies can reduce the amount of waste by ordering the correct size steel for each project. This manual method can be time consuming and lead to inaccuracies, which can have costly effects if the wrong size steel is ordered.

Fishbowl Solutions' [Bounding Box Application](#) automatically creates Pro/ENGINEER parameters and populates them with the bounding box dimensions from the part or assembly, so they can automatically be shown on the drawing or within PTC's Windchill® content and process management solution, improving the accuracy of the dimensions.

Bounding Box's current features include:

- The ability to calculate the Bounding Box Dimensions for the current part or assembly, with respect to the Default Coordinate System.
- The ability to create a parameter for each dimension, if the parameters already exist, the application will modify the values to those just calculated.
- The ability to assign parameters as follows: X_Dim, Y_Dim, and Z_Dim.
- The ability to displays values for the diagonal dimension and surface area.

Contact Fishbowl Solutions at MCADsales@fishbowl solutions.com to learn more about their Bounding Box Application and custom opportunities.

 [Click here to return to Contents](#)

Geometric launches DFMPro for Pro/ENGINEER®

18 February 2009

Geometric Limited announced the launch of DFMPro for Pro/ENGINEER. This design for manufacturability (DFM) product is integrated within the Pro/ENGINEER design environment, and provides a series of automated checks and analysis to assist a designer in creating designs, which are cost effective and easy to manufacture.

In today's competitive market, manufacturers use design rules to help improve part quality, and reduce the cost of manufacturing. Manual DFM approaches are time consuming and prone to errors, creating a need for automation in the DFM analysis.

DFMPro is precisely such a revolutionary DFM tool developed for designers to facilitate upstream manufacturability validation and identification of areas in design that are difficult, expensive and impossible to manufacture. This design for manufacturability tool is engineered for quick and in-depth examination of product manufacturability. It includes advanced design rules for manufacturing processes like milling, drilling, turning and sheet metal fabrication.

Some benefits of DFMPro include:

- Early prediction and prevention of production problems or manufacturing inefficiencies
- Evolution of optimal design and product quality
- Automation of manufacturability review process
- Reduction of lead-time by reducing backtracking and design iterations
- A scalable framework for manufacturability knowledge capture and reuse

DFMPro for Pro/ENGINEER assists multiple users:

- Design engineers can use DFMPro during design creation to improve designs with respect to manufacturability
- Manufacturing engineers can easily validate multiple designs from internal design departments or external vendors
- New engineers can learn organizational standards and design guidelines on the job using customized rule scripts

This version delivers:

- Seamless integration with Pro/ENGINEER with a simple and intuitive user interface
- Over 30 built-in Design for Manufacturing rules
- Ability to customize DFM rules using the VSTA (Visual Studio Tools for Application) capabilities

For further details and your free 15-day trial version, please visit:

<http://dfmpro.geometricglobal.com>



[Click here to return to Contents](#)

CIMdata PLM Industry Summary

KOMPAS-3D V10 SP2 is Now Available

19 February 2009

ASCON Group announced the release and general availability of an improved version of its Mechanical CAD software KOMPAS-3D V10 SP2. The solution includes important updates and novelties, which simplify process of designing and make it even faster.

KOMPAS solutions provide classic framework for 3D Solid Parametric Modelling, 2D Drafting, Design and Release of Documentations. Wide range of add-ons and libraries arrange additional features, such as photo rendering, animation, kinematic and dynamic analysis, pipes and tubes designing, extended CAD/AEC/PLM integration and others. The basis version of KOMPAS-3D contains an Interactive Learning System "KOMPAS-ABC". Just 12 easy lessons in this system make process of CAD learning and moving from 2D to 3D CAD easier. With the release of Service Pack 2 customers get a new application – Drawing Checker, which allows checking KOMPAS documents, such as drawings, fragments and sketchers for layout errors. Also was increased functionality in converter of 3D-models of printed circuit boards (IDF format) from an eCAD – for editing a 3D-model of the board obtained through IDF-formats having replacing conditional models of components with realistic ones, now mass of the board with components can be calculated.

If You would like to try out this easy-to-learn, cost-effective and improved mechanical CAD software please download Demo version of KOMPAS-3D V10 from <http://www.ascon.net>. For familiarization with the solution ASCON also offers Online Webinars, totally devoted to overview of functionality and possibility of KOMPAS-3D. To participate in webinar please require it for yourself and your colleagues at contact@ascon.net – just send us names and emails of participants, date and time of webinar suitable to you.

KOMPAS-3D V10 SP2 is available for world-wide users in English, German, French, Czech, Polish and Chinese languages. Contact our resellers in over 30 countries to know more about Professional Solutions for MCAD.

 [Click here to return to Contents](#)

Magma Enhances SiliconSmart With New Functional Recognition Capabilities, Speeding Modeling of Complex Standard Cells and I/Os

19 February 2009

[Magma® Design Automation Inc.](#) announced the availability of new functional recognition capabilities in the SiliconSmart® Library Characterization and Modeling product line. Leveraging advanced algorithms, SiliconSmart automatically recognizes and models the functionality of complex circuits and generates an efficient vector set for all timing arcs. By eliminating time-consuming, manual analyses, SiliconSmart dramatically reduces the time required to set up and characterize complex components across a wide range of process points, supply voltages and junction temperatures.

"Today's physical design flows provide tremendous flexibility, enabling designers to more easily incorporate customized IP blocks into their designs," said Suk Lee, general manager of Magma's Custom Design Business Unit. "While this allows significant improvements in design optimization, it creates more work for library teams. With its ability to automatically recognize the functionality and quickly generate complete and accurate electrical models of complex circuits and IP components, SiliconSmart enables the library team to meet the demands of the implementation team."

SiliconSmart: Faster, More Accurate Characterization and Modeling

Featuring accuracy, throughput and ease of use, SiliconSmart provides standard cell and I/O characterization and modeling for all popular design flows and supports advanced timing and power modeling. It is a complete library characterization and publishing system that produces production-ready models with minimal setup effort.

 [Click here to return to Contents](#)

Mastercam's Feature Based Machining

February 2009

With its release of Mastercam X3, CNC Software, Inc., introduced Feature Based Machining (FBM). FBM eliminates the manual processes involved in identifying features for programming milling and drilling operations on solid parts. By analyzing the part for specific feature types (shapes, size, location of holes, etc), FBM can automatically create the individual toolpaths needed to machine the selected features and intelligently design an effective machining strategy.

Mastercam X3 includes two types of FBM toolpaths – FBM Mill and FBM Drill. Both toolpath types use information derived from the part's features in combination with a stock definition to accomplish the following tasks:

- Detect all features for the selected FBM toolpath type, based on selection criteria the user defines. The user can then review all of the identified machining features, and selectively modify or remove features from the list before generating toolpaths.

- Select the appropriate tools, either from a preferred tools list or from specified libraries.

- Create and assign boundaries needed to drive or constrain tools.

- Automatically generate all of the toolpaths necessary to machine the features.

FBM Mill

FBM Mill analyzes a solid part, detects all machining features in a specified plane, and automatically generates all of the 2D milling toolpaths necessary to completely machine the selected features. FBM Mill machines closed, open, nested, and through pockets. For complex nested pockets, Mastercam defines a separate zone for each depth, and also creates the boundaries required to machine it. FBM Mill employs the following types of 2D toolpaths:

- Facing toolpaths when stock in the Z-axis is above the top of the part

- Roughing and restmill toolpaths for each zone

- Separate finish toolpaths for walls and floors in each zone

- Outside contours when the stock extends beyond the part in the X and Y axes

FBM Drill

FBM Drill performs the following basic functions:

- Detect holes in a solid based on specified criteria

- Review the detected features list and edit or delete features

CIMdata PLM Industry Summary

Preview toolpath operations and make additional changes before they are generated

Automatically generate a complete series of drill operations for the selected features

For more information on Mastercam's Feature Based Machining, please visit

<http://www.mastercam.com>

 [Click here to return to Contents](#)

Mastercam's High Speed Toolpaths Increase Efficiency and Automation

February 2009

With the release of [Mastercam](#) X3, high speed machining is being introduced into a suite of new 2D High Speed Toolpaths. High speed machining has traditionally been available in the Mastercam 3D machining suite. The six 2D toolpaths—Peel Mill, Core Mill, Area Mill, Rest Mill, Blend Mill, and Facing—are optimized for high speed machining and hard milling.

Mastercam's new 2D High Speed Toolpaths can make your current processes more efficient and automated, while at the same time minimizing programming and cycle times.

A few benefits of Mastercam's 2D High Speed Toolpaths include:

- All of the new 2D High Speed Toolpaths deliver efficient, lower-stress motion even without a high speed machine.
- Peel Milling peels away material, layer by layer, delivering efficient constant climb milling with trochoidal-type motion and accelerated back feed moves when the tool is disengaged.
- Core Milling cuts from the outside in, using high speed transitions.
- Area Milling is excellent for more complex shapes and also uses high speed transitions.
- Rest Milling evaluates all previous toolpaths and removes remaining material with high speed motion between cuts.
- Blend Milling gradually morphs the toolpath between two shapes, at high speed.
- Facing cleans stock from the tops of islands or the entire part. Mastercam's Dynamic Toolpath Strategy attempts to optimize the toolpath for minimum tool wear and maximum performance.

 [Click here to return to Contents](#)

Materialise and ANSYS Deliver Interoperable Solutions; Collaboration provides improved workflow for image-based biomechanical simulations

19 February 2009

[Materialise NV](#), which develops the medical image processing solution Mimics®, a leading tool to convert medical scanner images to accurate 3D models for structural or fluid simulations, has collaborated with ANSYS, Inc. to provide interoperability with their products. The latest Mimics 12.1 version enables users to export to the ANSYS® Workbench™ format. This feature will facilitate the workflow for the Mimics user community, leading to successful bioengineering worldwide. As a result, the new Mimics 12.1 is now a tool of choice for preparation of ANSYS simulation models used to analyze biomechanical phenomena.

CIMdata PLM Industry Summary

Realizing that many users perform finite element analysis (FEA) or computational fluid dynamics (CFD) simulations as an important part of their biomedical research and product development, Materialise has continuously invested in strengthening Mimics' link to engineering simulation software. In the new 12.1 version, this culminated in the incorporation of volumetric mesh generation in Mimics. Using image-based material assignment, Mimics prepares very accurate volumetric mesh models directly from image data, ready to be analyzed with any CAE package. Although Mimics already offered interoperability with software from ANSYS, including ANSYS® CFX®, ANSYS® FLUENT® and ANSYS® Mechanical™ products, a major advancement in the new 12.1 version enables the Mimics user to export 3D files to the ANSYS® Workbench™ platform, enhancing workflow for the many engineers who benefit from this integrated multiphysics simulation platform.

Swift collaboration between Materialise and ANSYS resulted in the quick implementation of the ANSYS Workbench export in Mimics, allowing for a smooth interface between both products and accommodating the needs of many biomedical engineers. "As the field of engineering simulation rapidly progresses, and the medical world finds more applications for this innovative technology, it is critical that [ANSYS](#) provide users with a seamless interface between image data and our simulation software," said Thierry Marchal, director, industry marketing at ANSYS, Inc. "With the export to ANSYS Workbench made possible in the new Mimics 12.1 release, Materialise and ANSYS have made an important step toward this goal. We are proud to be pioneering technology that has the potential to positively impact biomedicine across the globe."

"When talking with our clients and investigating their needs, we saw that patient-specific FEA/CFD simulations are gaining importance in the medical field," says Materialise' Biomedical Department Manager Koen Engelborghs. "We have been investing in improving the preparation workflow for this. With the new volumetric mesh generation and the ANSYS export, our joint customers can benefit from the best of both worlds."

The Salzburg University of Applied Sciences in Austria is one such customer, using the solution to research biomedical applications. "We use Materialise Software (Mimics, 3-matic) in combination with ANSYS and a long-standing channel partner, CADFEM GmbH, to perform patient-specific implant analysis and optimization," said Karl Entacher, project leader of FWF L526-B05 at Salzburg University of Applied Sciences. "The usage of Mimics and 3-matic is essential for biomechanical 3-D modelling within our projects. The well-defined interface between Materialise modeling software and ANSYS enables us to carry out accurate biomechanical finite element analyses. The continuous enhancement of this interface provides us important support for the solution of future biomechanical problems."

 [Click here to return to Contents](#)

Planview Introduces Planview OpenSuite for IBM Rational ClearQuest

18 February 2009

Planview introduced Planview OpenSuite for IBM Rational ClearQuest. The newest addition to its Planview OpenSuite product line, this off-the-shelf integration ties portfolio management to one of the market's leading ALM solutions.

This offering is designed for IT organizations that want the benefits of one consolidated view into project, maintenance, and resource reporting. This enables them to better balance innovation and maintenance work, the demand pipelines for which historically reside in separate issue tracking systems and project systems.

CIMdata PLM Industry Summary

Planview OpenSuite for IBM Rational ClearQuest integrates approved innovation and maintenance projects from Planview Enterprise Project Portfolio Management with project-level tasks, bugs, and issues in IBM Rational ClearQuest to create the unified view into development work these organizations demand.

This integration delivers benefits for developers and leadership of product organizations. Developers have one, centralized access point to all projects and work to which they are assigned, eliminating misprioritized effort and wasted time. Management can communicate resource and project status and make informed decisions by having an overall picture of project health, and can more accurately plan for time spent on maintenance versus innovation work.

Supporting the Planview OpenSuite vision of interoperability in heterogeneous environments, Planview OpenSuite for IBM Rational ClearQuest enables customers to leverage in-place technology investments while improving productivity. Planview OpenSuite for IBM Rational ClearQuest represents the first of several Planview OpenSuite ALM integrations, and will be available in Q1 2009.

For more information about Planview OpenSuite, visit <http://www.planview.com/opensuite>.

 [Click here to return to Contents](#)

Planview Propels Innovation In Portfolio Management with Planview Enterprise 10

18 February 2009

Planview introduced the latest version of its portfolio management solution, Planview Enterprise 10. Building on a 20-year history of success and innovation, Planview Enterprise 10 empowers business leaders to achieve their goals – to drive revenue, cut costs, and mitigate risk – by maintaining a continual balance between strategic objectives and execution in the face of change drivers such as economic shifts, competitive challenges, budget cuts, and manpower fluctuations.

Planview Enterprise 10 represents the next level of portfolio management, with important advances in the areas of:

- Financial management with a comprehensive, integrated system for performing the planning and execution functions necessary to budget, forecast, and track costs and benefits
- Product portfolio management with a purpose-built solution for product-focused organizations to maximize the performance of their product portfolios
- User experience with a completely redesigned interface and significant usability advances that optimize performance, productivity, and value
- Analytics and reporting with upgrades to Planview Enterprise Insight Analytics that improve the quality and speed of business-critical decisions

By improving the solution's reach, and the way users and management input, access, and use its data, Planview enables its customers to use Planview Enterprise 10 to drive strategic growth even in economically challenging times.

“The breadth and depth of advances in Planview Enterprise 10 make it one of the most significant releases in our company's history, and we have never been better positioned to empower our customers to reach their goals,” said Patrick Tickle, executive vice president of products, Planview. “The initial marketplace reception – from customers, prospects, and industry analysts – has been tremendous, and

CIMdata PLM Industry Summary

supports our strong belief that portfolio management as an enterprise-wide solution has never been more important or relevant.”

Comprehensive Financial Management for Portfolio Management

The financial management and planning tools embedded in the Planview Enterprise 10 platform enable and support portfolio management as applied to project and resource management, strategic planning, product development, and IT services, by integrating key finance functions and presenting them in a familiar interface. Planview Enterprise 10 provides a complete picture of the resources, value, and cost associated with effort with:

- One integrated financial system built on a single data model fully integrated with both relational reporting and OLAP for robust and consistent financial reporting
- A finance-driven user experience that allows financial stakeholders to work where they are comfortable, either in a rich spreadsheet user experience or in Excel through a powerful bi-directional interface
- Comprehensive financial planning that allows organizations to support corporate financial processes within the context of portfolio management

“Planview has developed an ideal approach that eliminates a key challenge so many organizations face – that the tools with which they manage their work are unconnected to the tools that measure and plan cost. This means that they cannot connect spend with the deliverable produced without considerable effort in translating between their execution plans and financial report requirements,” said Rich Murphy, Planview Executive in Residence and former chief financial officer of IT, Deutsche Bank. “Now, from the line manager responsible for the deliverable, to the chief financial officer responsible for an enterprise’s entire budget, there is complete and easy transparency into who is doing the work, the value it creates, and who is paying for it.”

Product Development Solution

Planview Enterprise Product Portfolio Management brings the discipline of portfolio management to the product development process to enable more predictable execution through centralized product planning and financial transparency into product lifecycles. Announced earlier this year, Product Portfolio Management allows product development leaders to maximize the value of their product portfolios to overcome the challenges of an increasingly competitive marketplace by:

- Establishing a product management system of record to improve management of the product catalog and increase collaboration for more successful launches
- Applying idea, work, resource, and financial management capabilities directly to the product catalog
- Leveraging embedded product analytics that drive better decision making throughout the product lifecycle
- Demonstrating transparency into total cost of product development with integrated product financials

New User Experience

Planview Enterprise 10 features a completely redesigned user experience that optimizes productivity and value for every Planview Enterprise user. User experience development was a direct result of the Planview customer-driven application development approach, actively involving a dedicated customer Inner Circle group for more than a year. The streamlined new experience improves users’ performance

CIMdata PLM Industry Summary

and productivity, to drive adoption and shorten time to value.

“We are looking forward to making the move to Planview Enterprise 10. By taking customer input into account, Planview has really upgraded the interface and added great new functionality that our users will appreciate,” said Dawn Acosta, IT/Project Management Office, Hallmark Cards Inc.

Analytics and Reporting

Building on the momentum of the 2008 release of Planview Enterprise Insight Analytics, Planview Enterprise 10 delivers powerful enhancements to this market-leading analytics application that leverages the rich portfolio management data across the Planview Enterprise platform to accelerate and improve the quality of business-critical decisions across and beyond the enterprise. The enhancements, including Key Performance Indicator (KPI) gauges, product development-specific analytics, and advanced integration with Microsoft Outlook, increase customers’ ability to visualize, share, and collaborate on key performance data, to enable fast, informed action based on consistent and relevant data.

Planview Enterprise 10 delivers a comprehensive capability for balancing strategy with the precious resources of people and money in real time, to help organizations across the enterprise drive cost and work efficiencies in the delivery of high-value projects and products, mitigate risk in delivery, and reach revenue targets. Available in Q1 2009, it is the latest release of the market-leading Planview Enterprise portfolio management application suite, which includes:

- Planview Enterprise – Enterprise Portfolio Management to align programs to strategies and objectives
- Planview Enterprise Insight Analytics for interactive analytics, shared with every desktop
- Planview Enterprise Project Portfolio Management to control projects and resources
- Planview Enterprise Product Portfolio Management to maximize market impact of products
- Planview Enterprise Service Portfolio Management to manage the total cost of services
- Planview Enterprise Business Process Manager for process modeling and management
- Planview PRISMS for maturing processes with a library of more than 200 best practices

For more information on Planview solutions, visit www.planview.com/10.

Concurrently with the Planview Enterprise 10 release, Planview is launching a new Planview OpenSuite offering, an integration with IBM Rational ClearQuest, representing the only off-the-shelf portfolio management integration into the market’s leading Application Lifecycle Management solution. Planview OpenSuite is a suite of offerings that provides interoperability between Planview portfolio management and the key management systems on which customers rely every day. For more information about Planview OpenSuite, visit <http://www.planview.com/opensuite>.

 [Click here to return to Contents](#)

Siemens PLM Software and Capgemini Offer Integrated Supplier Relationship Management (SRM) Solution

17 February 2009

Siemens PLM Software and Capgemini US LLC (“Capgemini US”), a subsidiary of the Capgemini Group one of the world’s foremost providers of consulting, technology and outsourcing services, announced the availability of an integrated supplier relationship management (SRM) solution to help

CIMdata PLM Industry Summary

customers enhance supplier integration and collaboration to deliver cost savings.

The end-to-end solution, based on Siemens PLM Software's Teamcenter® software for SRM and Capgemini's knowledge on process synchronization, systems integration and rapid implementation methodologies, will help customers to identify and optimize their source of supply, exchange data with suppliers, negotiate agreements using best-in-class sourcing technology, and monitor on-going supplier performance.

The integrated solution, focused on delivering value to the Automotive, Aerospace, CPG, Machinery and High Tech industries, supports the optimal level of supplier collaboration that is required to unlock value creation and deliver sustainable savings.

“Combining Capgemini's notable leadership in the sourcing and procurement domain with Siemens PLM Software's clearly differentiated SRM solutions benefits our mutual customers,” said Paul Vogel, executive vice president, Global Sales and Services, Siemens PLM Software. “Siemens PLM Software is committed to providing an open enterprise PLM backbone which can be leveraged to enhance integration and collaboration in all aspects of the business, including sourcing and supplier management, to help our customers efficiently and cost effectively turn more ideas into successful products.

“Siemens PLM Software's global collaboration in the manufacturing, retail and distribution (MRD) sector with industry leaders like Capgemini, provides the opportunity to bring best-in-class industry solutions by combining proven technology with unparalleled domain expertise,” added Vogel.

Siemens PLM Software's Teamcenter for SRM is the set of processes that empower purchasing to work with suppliers to minimize costs while maintaining and improving quality, service and innovation. The joint solution, which brings together PLM and direct material sourcing, delivers services that include solution configuration and installation, content creation and on-going application support.

“[Siemens PLM Software](#) provides the tools necessary to make supplier relationship management an embedded skill across multiple functions,” said Ed Stark, global supply chain leader for Capgemini. “By combining Siemens PLM Software's tools with Capgemini's focus on strategy, transformation and implementation, our companies aim to make supplier relationship management a lynchpin in helping clients become more collaborative and cost efficient.”

Capgemini will offer client advisory and deep domain knowledge while assisting clients on strategy and roadmap. Capgemini will also provide implementation services for the Teamcenter for SRM suite of applications as well as integration services between the modules and other third party PLM and ERP systems. [Capgemini](#) will round out the offering with position testing, data conversion, and change management to complete the overall solution. Capgemini will also be a software distributor of Siemens PLM Software's solution set including Teamcenter for SRM applications.

 [Click here to return to Contents](#)

SpaceClaim Advances 3D Direct Modeling for Engineering and Product Design

17 February 2009

SpaceClaim announced the fourth release of the company's products, SpaceClaim Engineer and SpaceClaim Style. These direct modelers represent the most significant technology advancement in 3D engineering in more than 10 years, having been created from the ground up specifically to give engineers and industrial designers the freedom and flexibility to capture ideas quickly, edit solid models regardless of origin, and prepare designs for analysis, prototyping, and manufacturing.

CIMdata PLM Industry Summary

Ensuring that engineers are able to work in 3D is a top priority by leading engineering and product development companies worldwide. While feature-based CAD products are very powerful and perform well for detailed design work, they are not appropriate for conceptual design, engineering analysis, and simulation-driven design. SpaceClaim is easy to learn and use, cost effective, and very accurate, enabling digital 3D conceptual design by engineers and driving improved innovation and collaboration.

"There is a vast market of engineers who will benefit from access to 3D tools that are CAD-neutral, powerful, accessible, and cost effective," said Chris Randles, President and CEO of SpaceClaim. "With deep experience in 3D design and CAD software, the founders of SpaceClaim addressed these challenges with a fresh perspective on 3D Direct Modeling. There's a growing recognition in the engineering and product design communities that Direct Modeling brings 3D capabilities to the entire engineering workflow. With powerful products, a growing customer base, and a strengthening distribution network, we anticipate continued solid growth this year."

SpaceClaim enables upfront analysis and complements and leverages investments in existing CAD tools. SpaceClaim supports standard data exchange formats ACIS, STEP, IGES, ECAD, Rhinoceros®, DWG, DXF, STL, OBJ, XAML, VRML, 3D PDF (requires Adobe® Acrobat® 9 Pro Extended) and includes interactivity with Bunkspeed® HyperShot®. With add-on modules, SpaceClaim Engineer can import and edit Pro/ENGINEER®, Autodesk® Inventor®, CATIA® v4 and v5, VDA, Parasolid®, SolidWorks®, JT™, and NX® native files. Additionally, SpaceClaim allows the extended design team to work concurrently, finish projects at a fraction of the cost, and accelerate time-to-market.

SpaceClaim Engineer is a fast and powerful 3D direct modeler for top-down design, 3D layout, conceptual engineering, and model preparation for simulation and analysis. Unique capabilities include intuitive Pull, Move, Fill, and Combine tools for robust model editing, as well as straightforward 2D and cross-section modeling.

SpaceClaim Engineer interoperates with major CAD systems and with many analysis tools, providing a solution that bridges the gap in typical design and engineering workflows. SpaceClaim works with ANSYS® Workbench and GAMBIT, ALGOR®, CFdesign®, and many SpaceClaim customers use COMSOL®. Analysis often occurs at the end of a detailed design process, further delaying the design cycle, escalating costs and slowing time-to-market. SpaceClaim Engineer relieves these issues by ensuring collaboration, thereby accelerating the pace of innovation.

SpaceClaim Engineer broadens access to 3D models and data across the engineering team and helps build consensus by sharing concept models. This capability enables CAD teams to build detailed models right the first time, requiring fewer costly iterations.

New features in SpaceClaim Engineer include:

- New model preparation tools to detect and repair problems with imported designs and to simplify models prior to analysis;
- Increased surfacing power for highly-stylized designs;
- Enhanced analysis tools for industrial design visualization and manufacturing validation, including curvature display, zebra striping, draft analysis, and sophisticated draft creation;
- Improved translators to open and edit 3D PDFs and open tessellated formats such as STL;
- Expanded international language support that now includes Spanish.

Pricing for SpaceClaim Engineer starts at \$1,995 per seat.

[SpaceClaim](#) Style brings 3D solid modeling to industrial designers and product stylists and enables them

CIMdata PLM Industry Summary

to work collaboratively with their clients and the entire development team. With SpaceClaim Style, users get a rapid creation environment that enables flexible design capabilities and converts hand-drawn, 2D, and surface data to accurate solid models. The benefits include faster design ideation, easier design manipulation, and reusable deliverables. Pricing for SpaceClaim Style starts at \$895 per seat.

 [Click here to return to Contents](#)