

Contents

CIMdata News	3
CIMdata in the News “Trends; PLM Market recovering faster than expected”	3
Company News	3
Alibre Design Contest Winners Display Unique Innovation Combined with High Quality, Marketable Concepts	3
Altair Engineering Canada Opens Montreal Office in Response to Rapidly Increasing Aerospace Business	4
ASCENT- Center for Technical Knowledge® Releases Five Training Guides for Autodesk® 2012 Software	5
Gerber Technology Recognizes FIDM Graduate for International Manufacturing and Product Development Skills	6
iDesign Solutions Selects CAD Gorilla to Improve Autodesk Training in Schools	6
IMAGINiT Technologies Wins Multiple Autodesk Awards	7
JEDEC Publishes New Thermal Testing Standard Inspired by Mentor Graphics T3Ster Technology	8
Mastercam for SolidWorks Awarded Gold Partner Status	8
M2 Technologies Now Offering Autodesk's 2012 Software and New Product Suites	9
Research Reveals the Business Value of Managed Content—30 Percent Productivity Gains, 25 Percent in Efficiency Improvements	9
Siegel Schleimer Ingénieurs-conseils Becomes COMSOL Certified Consultant	11
Events News	12
Attend Mercury PLM Services Information Exchange on April 14, 2011	12
AVEVA Laser Modeller launched at SPAR 2011	13
C-CAM Company Features Edgecam at the “intec” International Trade Fair in Leipzig	14
CGTech to Show VERICUT 7.1 at EASTEC	15
Delcam to Launch 64-bit PowerINSPECT at Control 2011	15
Delcam to Present Adaptive Machining Developments at AeroDef	16
ESPRIT 2011 at PMTS 2011, Columbus, Ohio, April 19-21 (18-Mar-2011)	17
ESPRIT 2011 at the 12th CIMT, Beijing, China, April 11-16 (17-Mar-2011)	17
48th Design Automation Conference to Feature Keynote Interview by Apple Computer, Inc. Co-founder Steve Wozniak	18
Geometric to Showcase CAMWorks® 2011 at PMTS 2011	19
IDC, CIMdata and Beyond PLM to Present at Upcoming Aras Community Event in April	20
IMAGINiT Technologies Supports Autodesk 2012 Product Launch With Technical & Training Expertise	20
Invitation to the Solid Edge ST4 Global Launch Event	21
Krontime Launches a New Software Solution "Lean Factory" at the Next Industries 2011 Show in Lyon (5 – 8 April)	22
PartMaker's Fishman to Present On Machining Trends at PMTS	25
Product Lifecycle Management Conference - CMPROficiency 2011	25
SMi Presents their 6th Conference on Pharmaceutical Portfolio & Product Life-Cycle Management 29-30 June 2011, London, UK	26
SPEED's Electric Machine Software to Complement CD-adapco's Flagship Analysis Tool, STAR-CCM+	27
Tata Technologies Heavy Equipment Capabilities at CONEXPO	28
Financial News	29
Delcam Achieves Record Sales and Increased Profits	29
Lantek Ends 2010 with a 34% Increase in Turnover	30

CIMdata PLM Industry Summary

Oracle Reports Q3 GAAP EPS Up 75% to 41 Cents; Non-GAAP EPS Up 40% to 54 Cents _____	32
SAP Announces Availability of 2010 Annual Report to Shareholders and Annual Report on Form 20-F _____	32

Implementation Investments _____ **33**

AVEVA Announces Contract Win with Hyundai Heavy Industries _____	33
AxSTREAM to Assist SMTU Students with Marine Turbine Design _____	34
Catalog Data Solutions CAD Download Solution Selected by Schioppa Casters and Wheels _____	34
Freescale Licenses Synopsys' DesignWare IP Portfolio to Accelerate SoC Designs _____	35
Lakeshore Learning Materials to Implement NGC's PLM Software _____	35
More Businesses Run on SolidWorks and Enterprise PDM _____	36
MSC Software's MD Adams was Selected for the Development of NASA Mars Exploration Rover _____	37
Scientific Research Leader CERN Relies on Cadence Services to Provide an Advanced and Integrated Design Environment _____	38
Wilocity Tapes-Out Multi-Gigabit Wireless Communication SoC Using Synopsys DesignWare IP _____	39

Product News _____ **40**

Accept Corporation Improves Social Ideation, Strategic Planning and Agile Execution; Announces Accept360TM Spring 2011 Release _____	40
Allplan 2011 Online Initiative/pilot project started: Müller + Huber is the first customer to use the Web-based CAD _____	41
Aureus Pharma Changes its Name to Aureus Sciences (R) and Launches a New, Comprehensive Life Science Applications Webportal _____	42
AutoCAD 2012 Products Deliver Flexibility and Accessibility _____	43
Autodesk Unveils 2012 Manufacturing Software Portfolio _____	45
Autodesk Increases Power of 3D Design with 2012 Design and Creation Suites _____	48
Autodesk 2012 AEC Software Portfolio Expands Value of Building Information Modeling _____	49
Bluebeam Software Launches New Bluebeam PDF Revu eXtreme to Supercharge PDF-Based Communication and Workflows for Enterprises _____	52
Bluebeam PDF Revu 9 Launches with Enhanced Usability, Advanced Features to Streamline PDF-Based Digital Workflows the Web-based CAD _____	53
CadFaster Collaborate™ Cloud Software for the Real-time Annotation and Co-viewing of 3D CAD Models is Now Available Globally _____	55
CIDEON Integrates CATIA V6 in SAP PLM _____	55
Delcam Offers Cost-Effective Reverse Engineering with PowerSHAPE Pro _____	56
Flow Science Announces Release of FLOW-3D Cast _____	57
iMachining - a Revolution in CAM technology and High Productivity Milling _____	58
IMAGINiT Technologies Unveils Scan to BIM™2012 _____	59
Informative Graphics' Content Sealed Format (CSF) Achieves FIPS 197 Certification Benchmark _____	59
Lectra Announces Diamino® V5R4 _____	60
LMS Solidifies Acoustic Simulation Leadership with Automatically Matched Layer (AML) _____	61
Mentor Graphics Calibre xACT 3D Field Solver Extraction Tool Demonstrates High Accuracy and Performance in STARC Evaluation _____	62
Mentor Graphics Delivers Next-Generation Emulation Solutions for the Verification of High-Speed Ethernet Products _____	63
SAP® Product Lifecycle Management Application Helps Companies Bring Winning Products to Market Faster _____	63
SoftInWay Partners with Continuous Control Solutions to Increase Reliability of Turbomachinery _____	64
Synopsys' Next-Generation DesignWare Data Converter IP Delivers 50 Percent Lower Power with Smaller Area _____	65
T-Splines, Inc. becomes SolidWorks® Solution Partner _____	66

CIMdata News

CIMdata in the News “Trends; PLM Market recovering faster than expected”

15 March 2011

According to Stan Przybylinski Director of Research at CIMdata, “Most solution suppliers we have spoken to have seen good growth in 2010, and believe they are poised to return to historical levels in 2011. This is consistent with our forecast made last year. Economic growth forecasts suggest that Europe will lag behind Asia and North America, but we will have to see what 2011 brings,” says Stan about the PLM market situation in 2011.

What else did Stan predict? Click [HERE](#) to read what Stan said in an interview featured in the Technia PLM Newsletter.

 [Click here to return to Contents](#)

Company News

Alibre Design Contest Winners Display Unique Innovation Combined with High Quality, Marketable Concepts

23 March 2011

Alibre, Inc. announced the results of the 2010/2011 [Alibre Design Contest](#), a competition open to the public to find the best designs created by Alibre Design 3D CAD software. Hundreds of creative submissions were reviewed based on a variety of factors, including model complexity, manufacturability, creativity and use of Alibre Design’s features. Competitors entered the contest by posting images and background information about their design on Alibre's community showcase site, <http://www.AlibrePowered.com>. Members of the Alibre Design online user group were then encouraged to vote for their favorite designs, creating an opportunity within the user community to recognize the best examples of design innovation.

The first-place winner of the 2010/2011 Alibre Design Contest is “The Pennsylvania (MM2) Tourbillon watch,” created by Benoît Barbé, Roland Murphy and Rich Baugh of [RGM Watches](#). The Alibre-designed timepiece has captured the attention of the world’s watch making industry, as it is the first American-made tourbillon (French for “whirlwind”) in a series to be introduced and manufactured in the U.S. An extremely complicated and precise undertaking, the addition of a tourbillon to a watch ensures maximum accuracy by negating the effects of gravity in mechanically driven watches. Its intricate mechanism is often showcased prominently on the watch. This ultimate luxury timepiece has a list price of \$75,000.

“The submissions received this year were of the utmost quality, with creativity reaching a new level from each of the entries,” said Paul Grayson, chairman and CEO of Alibre. “The vast variety of submissions continues to grow each year with original designs representing nearly every industry and category. From advanced building cooling systems and Star Trek-inspired chess sets to a sophisticated Tourbillon watch that rivals anything produced in Geneva, to the world’s most advanced 100 mile per gallon auto, we continue to be impressed with the collective creativity, ingenuity and design excellence from the community of loyal Alibre users.”

Additional 2010/2011 Alibre Design Contest winners included:

CIMdata PLM Industry Summary

- Runner-up (mechanical): Lunchbox Mold by Sebastian Finke of [ECA Product and Mould Design CC](#)
- Runner-up (non-mechanical): “Star Trek” or Tri-D Chess Set by Hobbyist Neil Reed
- Honorable mention: SGT02 100-mpg Race Car by Robert Mohrbacher of [Mohr Composites](#) on behalf of [WikiSpeed](#)
- Honorable mention: Pyrolysis Unit by Keith Nair
- Honorable mention: Mobile Service Rig for oil and gas wells by Travis Hagglund of [Korsa Engineering](#)

To find more information about the 2010/2011 Alibre Design Contest winners and their entries, visit <http://www.alibre.com/success/designcontest2011.asp>.

 [Click here to return to Contents](#)

Altair Engineering Canada Opens Montreal Office in Response to Rapidly Increasing Aerospace Business

22 March 2011

[Altair Engineering, Inc.](#) announced that it has opened an office in Montreal, the hub of Canada's aerospace industry. The expansion follows a substantial increase in demand for Altair's [HyperWorks](#) suite of computer-aided engineering (CAE) tools among major aerospace manufacturers and suppliers in Canada.

Altair's new Montreal office, situated at 469 Rue Jean Talon Ouest, conducts technical support and engineering projects and is consulting with aerospace companies on deployment of HyperWorks solutions.

"Altair's success with the Canadian aerospace industry is the result of both our simulation technology and our flexible licensing model, which allows customers to draw from a common bank of licensing units for any HyperWorks software," said Altair Canada President, Jean Pierre Roux.

The expansion of HyperWorks within the Canadian aerospace engineering community is indicative of the strength of Canada's aerospace industry and the important role Altair's technology plays in this market. Altair Engineering Canada has been headquartered in Toronto since 2006. The company established a presence in Quebec in 2008 and today works with the country's key aerospace producers and suppliers.

Altair's [HyperMesh](#) solver-neutral finite element modeling software enables the industry to extend its use of efficient computer modeling and analysis during the early phase of aircraft design, and Altair's [OptiStruct](#) allows aerospace engineers to optimize the weight and performance of structures and components of all material types including composites.

With Altair's [RADIOSS](#) multi-disciplinary finite element solver, engineers can reduce the development

cycle for aircraft and improve the accuracy of their designs by running complex linear and non-linear computer studies like those required to analyze stresses, loads, and structure vulnerability (e.g., bird strikes, tire impact, hail impact). In conjunction with other HyperWorks tools, RADIOSS allows engineers to change designs rapidly and perfect aircraft structures before building their first physical model. By employing its recently acquired multi-processor compute cluster, Altair's Montreal office helps clients take even better advantage of the RADIOSS solver's scalability during consulting and testing work.

 [Click here to return to Contents](#)

ASCENT- Center for Technical Knowledge® Releases Five Training Guides for Autodesk® 2012 Software

24 March 2011

Rand Worldwide® announced that its courseware division, ASCENT- Center for Technical Knowledge, released five training guides for Autodesk 2012 software:

[*AutoCAD 2012 Update for AutoCAD 2011 Users*](#)

[*AutoCAD/AutoCAD LT 2012 Fundamentals*](#)

[*AutoCAD/AutoCAD LT 2012 Essentials*](#)

[*Autodesk Inventor 2012 Introduction to Solid Modeling*](#)

[*Autodesk Inventor 2012 Advanced Part Modeling*](#)

As in previous courseware releases, ASCENT once again has released a training guide that focuses solely on the enhancements between AutoCAD 2011 and AutoCAD 2012. The topics in *AutoCAD 2012 Update for AutoCAD 2011 Users* range from general improvements and command enhancements to new 3D modeling techniques and a customization workflow.

The *AutoCAD/AutoCAD LT 2012 Fundamentals* training guide provides new AutoCAD and AutoCAD LT users with the skills required to successfully create 2D drawings. The guide helps users understand the workspace and interface, as well as teaches users how to use basic drawing, editing, and viewing tools, and how to add text, hatching and dimensions to a file. In addition, more advanced techniques are covered to further refine a user's skill sets.

The *AutoCAD/AutoCAD LT 2012 Essentials* training guide is a sub-set of the *AutoCAD/AutoCAD LT 2012 Fundamentals* training guide. To provide flexibility for instructors and students, the *AutoCAD/AutoCAD LT 2012 Fundamentals* courseware is divided into two parts that can be taken independently; this training guide is the first of the two guides and enables users to create a basic 2D drawing in AutoCAD.

The *Autodesk Inventor 2012 Introduction to Solid Modeling* training guide instructs users in best usage approaches for parametric design philosophy through a hands-on, practice-intensive curriculum. This guide is one of four Inventor training guides written to cover topics required in the Autodesk Inventor certification examinations.

Autodesk Inventor 2012 Advanced Part Modeling is the second in a series of courses on Inventor from ASCENT. The goal of this training guide is to build on the skills acquired in the Inventor Introduction to Solid Modeling course by taking students to a higher level of productivity when designing part models

CIMdata PLM Industry Summary

in Inventor.

ASCENT is an Authorized Author, Publisher and Developer of Autodesk curriculum. All of ASCENT's Autodesk 2012 courseware titles will carry the Autodesk Official Training Guide designation, and in addition, ASCENT's Inventor courseware is Autodesk Inventor certified. All of the company's training guides are available to educational institutions, individuals, and corporations and can be purchased directly from the online store: <http://www.ASCENTeStore.com>.

ASCENT will be releasing a full range of titles updated for 2012 in the coming months. To see the company's complete courseware lineup, please visit <http://www.ASCENTed.com>.

 [Click here to return to Contents](#)

Gerber Technology Recognizes FIDM Graduate for International Manufacturing and Product Development Skills

22 March 2011

[Gerber Technology](#) presented its webPDM® Achievement Award recently at the FIDM/Fashion Institute of Design and Merchandising in Los Angeles, Calif. during the graduate thesis presentation event for the school's International Manufacturing and Product Development Advanced Study Program. Each year, Gerber Technology recognizes the student who best harnesses the functionality of Gerber's webPDM product data management software in the preparation of his/her thesis. FIDM graduating student, Heidi Riebs, earned the award this year.

FIDM's Advanced Study Program in International Manufacturing and Product Development is a comprehensive program that immerses the student in all phases of the product development cycle -- from the initial concept and design of the product, through technical design, sourcing, costing, production, and marketing to the consumer.

The nine-month partnership, which includes trips to Europe and Asia for research and trend shopping, ends with thesis presentations, where students reveal their collections and share their experiences with family, friends and potential employers. Students developed this year's collection in collaboration with Bisou Bisou, an exclusive women's apparel brand at JCPenney, designed by Michele Bohbot.

Gerber provides software and hardware solutions to nearly 1,200 educational institutions in more than 80 countries.

Students at FIDM have been using Gerber's webPDM software for the past 10 years and Gerber's AccuMark pattern design, grading and marking software for the last two decades. "We are proud to support FIDM and to recognize the efforts of the students in the International Manufacturing and Product Development Advanced Study Program with this achievement award," said Bud Staples, vice president of North American Sales for Gerber Technology. "FIDM offers students the real-life experience which is essential for success in this industry. Year after year, we're impressed by the graduates of this cutting-edge program."

 [Click here to return to Contents](#)

iDesign Solutions Selects CAD Gorilla to Improve Autodesk Training in Schools

21 March 2011

CIMdata PLM Industry Summary

[CAD Gorilla](#) announced that iDesign Solutions, an Autodesk Authorized Education Partner with locations in the United States and Canada, has selected CAD Gorilla's self-paced video tutorials to complement its current training and support services for both Academic and Commercial customers.

CAD Gorilla provides interactive video training and tutorials for Autodesk Inventor, AutoCAD, and Autodesk Revit. Each course includes downloadable exercise files to guide students through each lesson, and supporting assessment exams are used to measure learning goals throughout the curriculum.

CAD Gorilla courses augment instructor led training by providing a blended training solution that facilitates self-paced learning. Blended training solutions help ease the burden of an already demanding curriculum, while providing resources that are geared for today's learners. In academic settings, CAD Gorilla tutorials help instructors focus on design fundamentals and theory so they don't get stuck teaching the "pics and clicks" of CAD software.

 [Click here to return to Contents](#)

IMAGINiT Technologies Wins Multiple Autodesk Awards

21 March 2011

Rand Worldwide announced that its IMAGINiT Technologies division (imaginit.com) recently received several awards from Autodesk, Inc.. IMAGINiT, and recently merged entity Avatech, took home the Q4 Reseller of the Quarter Award for Autodesk's fiscal year 2011, two Platinum Club awards, and was also honored with the Ninety-Ninety Award for Excellence.

The four prestigious Autodesk awards recognize the leadership that IMAGINiT Technologies demonstrates in technical expertise, customer service and sales growth.

•**Top North American Reseller in Education Overall Sales Growth Platinum Award** - This Platinum Award was presented to acknowledge the continued growth and strength in the various educational fields during the Autodesk 2011 fiscal year.

•**Top North American Reseller in Overall Product Sales Growth Platinum Award** - This Platinum Award was presented to acknowledge that the company demonstrated strong Autodesk sales performance and commitment to customer service during the Autodesk 2011 fiscal year.

•**Ninety-Ninety Award for Excellence** - Autodesk also presented IMAGINiT with the Ninety-Ninety Award for Excellence for having a 90% renewal rate and a 90% attach rate on Subscription contracts for the previous fiscal year. Recipients of this award also had to demonstrate the value of Subscription through their marketing channels, and had to demonstrate sales of at least 500 new Subscription contracts.

•**North American Reseller of the Quarter** - Autodesk named IMAGINiT the North American Reseller of the Quarter for the fourth quarter of Autodesk's 2011 fiscal year. IMAGINiT was selected for its significant growth and exceeding targets across industry-specific markets that include architecture, engineering, construction, manufacturing and design visualization. Overall, this award is based on quality of customer service, support and professional education, overall growth and vertical sales.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

JEDEC Publishes New Thermal Testing Standard Inspired by Mentor Graphics T3Ster Technology

23 March 2011

Mentor Graphics Corporation announced that JEDEC, the organization dedicated to open standards in the microelectronics industry, has approved a thermal transient testing-based measurement methodology inspired by an original idea published jointly by the Mentor Graphics® MicReD® group and the Automotive Power Application group of Infineon in 2005.

The new JEDEC standard has been very important for end users in many industries, such as automotive electronics, where power semiconductor devices are extensively used. As of today, the Mentor Graphics T3Ster® thermal transient tester from the MicReD group and its related software is the only commercially available product which fully implements the new JESD51-14 standard and provides the needed level of measurement accuracy.

About the JEDEC Standard

After an extensive review process by the JEDEC JC15 committee on thermal characterization techniques for semiconductor packages, the organization approved the new measurement methodology for the junction-to-case thermal resistance of power semiconductor devices. The new methodology ensures much higher accuracy and repeatability than classical steady-state measurements based on older standards.

This newly published JESD51-14 standard is titled “Transient Dual Interface Test Method for the Measurement of the Thermal Resistance Junction-to-case of Semiconductor Devices with Heat Flow through a Single Path.” The methodology used in this new standard is very similar to the method which can also be used to characterize thermal interface materials (TIMs).

The test method is extensively studied and refined by certain JEDEC JC15 committee member organizations. The methodology was qualified in a round-robin test in thermal testing laboratories of five different member organizations of the JC15 committee which were actively involved in the development of thermal testing standards.

The thermal expert group of Infineon, led by Dirk Schweitzer and Heinz Pape, conclude the following in their most recent technical publication on transient dual interface measurement, which will be presented at the 2011 IEEE SEMI-THERM Thermal Measurement, Modeling and Management Symposium, March 20-24, 2011 in San Jose, CA: “For the target group of power packages with a single heat-flow path, the new JEDEC standard should now provide a reliable and reproducible method to determine the Rth-JC. [junction-to-case thermal resistance] ... The high reproducibility of the TDI measurement enables a fair comparison between Rth-JC values of devices from different vendors.”

T3Ster Availability and Information

For more information on the Mentor Graphics T3Ster thermal test product, contact your local Mentor Graphics representative or distributor or call 800-547-3000. For further product information, visit the website at <http://www.mentor.com/micred> .

 [Click here to return to Contents](#)

Mastercam for SolidWorks Awarded Gold Partner Status

22 March 2011

CIMdata PLM Industry Summary

CNC Software, Inc. announced that its Mastercam for SolidWorks® software package was recently awarded Certified Gold Partner status and supports SolidWorks® 3D CAD software.

Designers, engineers, and machinists use Mastercam for SolidWorks software to program their toolpaths after they have finished designing in SolidWorks. The toolpaths are applied directly to the SolidWorks model in their native environment.

A SolidWorks Certified Gold Partner Product, Mastercam for SolidWorks, allows users to program their parts directly in SolidWorks, using Mastercam's vast array of toolpaths. The combination of Mastercam for SolidWorks and SolidWorks 2011 allows users to combine CAD with CAM, all without leaving their SolidWorks interface.

“Integration between key product design applications can shave precious time off of the development process and increase productivity,” said Nick Iwaskow, SolidWorks Manager, Alliances. “Integrating Mastercam for SolidWorks directly within the SolidWorks environment helps designers and engineers improve designs and deliver the products their customers are looking for.”

“With our toolpaths running directly in the SolidWorks environment, our users will feel comfortable programming their parts, just as if they were in standard Mastercam,” says Ben Mund, Marketing Manager, CNC Software, Inc. “The beauty is that now they can run those toolpaths inside of SolidWorks, without the hassle of exporting files and handling the translation.”

For more information on Mastercam for SolidWorks please visit <http://www.mastercamforsolidworks.com> or contact your local Mastercam Reseller at <http://www.mastercam.com/Resellers>.

 [Click here to return to Contents](#)

M2 Technologies Now Offering Autodesk's 2012 Software and New Product Suites

22 March 2011

[M2 Technologies](#) announced it will offer Autodesk's latest 3D design and engineering software for manufacturers. The new 2012 product lineup for manufacturers includes new releases of all their Digital Prototyping software and new product suites, such as the Autodesk Product Design Suite, Autodesk Factory Design Suite and Autodesk Design Suite.

The newest suite offerings provide customers, across a wide range of industries, software in a convenient, comprehensive and cost-effective package. The suites are available in three editions: Standard, Premium and Ultimate.

The Autodesk Product Design Suite includes Autodesk Inventor software. It gives everyone in the product design workflow -- from designers to engineers -- the tools they need to develop products. The Suites are another piece of Autodesk's commitment to Digital Prototyping.

 [Click here to return to Contents](#)

Research Reveals the Business Value of Managed Content—30 Percent Productivity Gains, 25 Percent in Efficiency Improvements

24 March 2011

A new research report co-sponsored by AIIM, the enterprise content management (ECM) organization,

CIMdata PLM Industry Summary

and OpenText™ provides real, quantifiable insight into how better strategies around the management of information and content can help companies operate more profitably and capitalize on the positive benefits from knowledge sharing, collaboration and business process improvement.

One of the more notable findings from the survey of more than 450 information technology professionals and business managers is that the productivity of professional staff would be improved by 30 percent if they could only find internal information and documents as quickly and as easily as they find information on the Web. Along the same lines, respondents said customer service levels and response times could be improved by 33 percent if all customer-facing staff could immediately access and share all customer-related and case-related information.

"In all businesses, content is growing rapidly. We know that productivity, compliance and business responsiveness will steadily decline if nothing is done to manage this content deluge," said Doug Miles, Director of the AIIM Market Intelligence Division, and author of *Capitalizing on Content: A Compelling ROI for Change*, a white paper on the survey results. "In this report, we measured ROI factors closely, quantifying the improvements that a well-implemented ECM system can provide, and indicating the potential costs of compliance and security lapses. The opportunities for business improvement are remarkably significant."

Adding to its credibility, the report compares the expectations of potential improvement from those respondents whose companies have yet to invest in ECM against the actual experiences of those who currently have such systems in use. Areas explored for improvement included productivity, customer service, collaboration and storage, among others.

Additional opportunities for improvement included:

The productivity of administrative staff could be increased on average by 33 percent through use of workflow, scanned forms and automated data capture.

Changing to a culture of electronic-only filing would reduce the office space allocated to filing storage from 14.5 percent to 5.9 percent - a 60 percent reduction.

The size of server farms dedicated to unstructured content and emails could be reduced by between a third and a half if each document or email attachment was stored only once.

A collaborative, widely accessible team-site environment could improve project delivery by 23 percent on average in terms of time and project costs.

Respondents indicated they believe that Enterprise 2.0 applications could improve staff productivity and engagement by about 18 percent.

The improved efficiency from providing office staff with comprehensive mobile access to company information would likely be between 20 percent and 25 percent.

While the survey indicates a compelling case for adopting ECM technologies, it also exposes the significant challenges for companies that get overwhelmed by the sheer volume of documents and content accumulating on shared drives, email, laptops and mobile device and paper files.

According to 61 percent of the survey respondents, organizational knowledge is the first thing to suffer in a badly managed environment, causing the organization to lose its competitive position due to poor decisions and a lack of accumulated corporate expertise. Innovation is considered to be another significant victim of poor collaboration and restricted knowledge-sharing, followed by the productivity impact of information search fatigue.

CIMdata PLM Industry Summary

Compliance breaches and information and data leaks also weighed heavily on the minds of the survey respondents. For instance 40 percent of organizations would take a financial hit from a compliance breach while fully 66 percent would suffer bad - and costly - publicity. Over a third of organizations reported they would have no way of finding out who was responsible if sensitive data was "leaked" to a competitor or to the press by a trusted employee. Only a quarter could readily point to a specific employee based on activity logs. For 60 percent of the largest organizations, the potential impact of such a leak would be high, and for 13 percent it would be "disastrous."

This study is available as part of the OpenText Thought Leadership Series. For more information, go to: <http://www.opentext.com/2/global/innovate-domorewithyourcontent> or listen to an [OpenText News Podcast](#) about the study featuring Doug Miles and James Latham.

 [Click here to return to Contents](#)

Siegel Schleimer Ingénieurs-conseils Becomes COMSOL Certified Consultant

24 March 2011

COMSOL announced that Siegel Schleimer Ingénieurs-conseils s.à r.l. has become its first certified consultant in Europe's BeNeLux region. As a COMSOL Certified Consultant, [Siegel Schleimer Ingénieurs-conseils](#) offers its clients a broad range of multiphysics expertise in areas as diverse as single fuel cell, fuel cell stack, chemical reaction technology, and battery modeling and simulation. The company also provides in-depth expertise simulating coupled physics phenomena in and around homes, large buildings, and office complexes including the design and layout of energy-efficient heating, ventilation, air conditioning (HVAC) systems.

"We're delighted to partner with Siegel Schleimer Ingénieurs-conseils," says Gerard Hegemans, Director of COMSOL BV. "They extend the reach and depth of COMSOL's technologies to our growing customer base in the BeNeLux region and enable us to better serve our users in such exciting and flourishing fields as fuel cell development and energy-saving, green building design."

Located in Mondercange, Luxembourg, Siegel Schleimer Ingénieurs-conseils s.à r.l., was founded in 2010 by Christian Siegel and Markus Schleimer. Christian Siegel has worked at the Center for Fuel Cell Technology (Zentrum für BrennstoffzellenTechnik – ZBT) in Duisburg, Germany, in the field of polymer electrolyte membrane (PEM) fuel cell research and development. In addition to his experience in experimental and theoretical fuel cells, Mr. Siegel has extensive expertise in such fuel cell and fuel cell stack-related areas of investigation as:

Computational fluid dynamics (free and porous media flow)

Integral flow-field and cell layout

Heat and mass transfer (heating, cooling, and tempering concepts)

Analysis of structural aspects (localized fluid-structural interactions)

Markus Schleimer has been an energy consultant focusing on the design and layout of energy-efficient HVAC systems for small homes, large buildings, and office complexes for more than ten years. Among the specialized skills that Mr. Schleimer brings to building simulation are:

Coupling of building energy simulation to computational fluid dynamics

Combining simple energy calculations to integral simulations

Layout of heating, ventilation, air conditioning, and cooling applications

Temperature distribution

Fluid-flow around buildings

Air pollution, moisture, and contaminant dispersion

Smoke and gas distribution

Siegel Schleimer Ingénieurs-conseils excels at solving large-scale finite element problems and coupling numerical analysis with engineering applications. “With COMSOL Multiphysics running on our high-performance workstations,” says Markus Schleimer, “we are able to offer unique, specialized engineering and analysis services to any private, commercial, and governmental customer needing to solve large-scale finite element problems that couple multiple physics phenomena.”

“We work closely with our high-tech clients to better define, model, mesh, and solve their multiphysics problems as well as analyze simulation results,” adds Christian Siegel. “As a certified COMSOL consultant we will provide solutions for engineers on the cutting edge of research and development into new products and new technologies for fuel cells, batteries, as well as energy efficient building environmental systems.”

For further information about COMSOL Certified Consultants, visit <http://www.comsol.com/company/consultants>.

 [Click here to return to Contents](#)

Events News

Attend Mercury PLM Services Information Exchange on April 14, 2011

3 March 2011

Mercury PLM Services Presents—Useful PLM Information from Practical People

Network with colleagues to discuss solutions to PLM implementation challenges by participating in a 1-day PLM Information Exchange on April 14, 2011.

In attendance will be professionals from a variety of industries. The event will be hosted by the members of Mercury PLM Services, the team which supports Mercury Marine’s award winning* PLM implementation.

Embarking on a PLM voyage can be rough. Attending the Information Exchange can help make the voyage smooth.

Our goal is to provide useful information based on our experience to help:

- Avoid pitfalls facing a new PLM investment by being better prepared
- Extend and sustain the ROI from an existing implementation

With more than 7 years of practical PLM implementation experience within a challenging manufacturing environment, the people supporting Mercury Marine’s global PLM deployment are available to exchange key insights that can help:

- Improve an existing PLM implementation

CIMdata PLM Industry Summary

- Set a new implementation team on a course for success

Learn About:

- How to guide through a PLM implementation
- o Proven steps to align business ownership and cross-functional processes for a PLM implementation
- Methods to manage Pro-E and other CAD data
- Practical tips for installing or upgrading to Teamcenter 8.3

Real World Examples of How PLM Benefits:

- Product Development and Supply Chain
- New Product Program Managers
- Product Cost Engineers

Participants attending the event on-site at our Fond du Lac, WI, facility will receive a lunch followed by a plant tour.

Who Should Attend:

VP of Engineering, Director of Engineering, Engineering manager, PLM Champion, IT managers, Program Manager, Project Manager, Supply Chain, PLM System Administrator, Operations Functional Managers or Directors

Visit <http://mercuryplm.com/informationexchange/> to register or for more information.



[Click here to return to Contents](#)

AVEVA Laser Modeller launched at SPAR 2011

21 March 2011

AVEVA announced the launch of the new AVEVA Laser Modeller solution at SPAR 2011. An integral part of AVEVA's larger laser scan strategy, AVEVA Laser Modeller transforms laser scan data into intelligent, as-built 3D plant models. Creation of an accurate 3D model for existing brownfield facilities allows Owner Operators to optimise the operations of their assets and significantly reduce the lead time on upgrade and revamp projects in a way that is simply not possible with historic applications.

Traditional techniques for converting laser scan data into an intelligent 3D model requires many days of costly modelling services for each hour of scanning time. In most cases, the cost is too high to justify the total investment in 3D. Laser Modeller changes the fundamental ground rules by automating most aspects of the modelling process, producing a fully intelligent 3D model at a fraction of the time and cost of existing techniques.

Laser Modeller can accept scan data from any of the leading laser scanning vendors so users are not locked into a specific hardware supplier. It directly generates 3D models to feed into a visual asset management strategy, and for Brownfield projects using native PDMS component catalogues, delivers a fully intelligent PDMS model. This completely transforms the modelling process by eliminating the unnecessary service intensive steps, dramatically reducing the time and cost of model creation.

Mat Truche-Gordon, EVP Business Strategy & Marketing for AVEVA comments, "AVEVA's Laser Modeller is totally changing the landscape for operators by allowing cost-effective creation of an

CIMdata PLM Industry Summary

accurate digital asset from the operating facility. It is a key part of our overall laser scan portfolio and plays a major role in our Operations Integrity Management and Brownfield project strategy. In combination with AVEVA's Enterprise Solutions, we are creating a powerful, digital as-built plant, where brownfield information is truly evergreen."

Neil McPhater, Product Marketing Manager for Interoperability at AVEVA will also be hosting a technical seminar at SPAR 2011 titled 'Dramatic improvements in process plant engineering using AVEVA's Laser Scan solutions'. The seminar takes place on Wednesday 23 March from 11.30 to 12.30.

Attendees can see AVEVA's Laser technology demonstrations by visiting booth #21. SPAR 2011 takes place between March 21 - 24 at the Waterway Marriott Hotel & Convention Center, The Woodlands near Houston, TX.

 [Click here to return to Contents](#)

C-CAM Company Features Edgecam at the "intec" International Trade Fair in Leipzig

24 March 2011

Visitors to the intec trade fair in Germany saw the numerous benefits that Edgecam brings to the metal working/processing industry.

Edgecam, along with SolidWorks, was featured on C-CAM® GmbH's stand at the 13th intec trade fair for manufacturing, tool and special purpose machine construction, in Leipzig.

C-CAM® GmbH from Chemnitz, Germany, presented its CAD/CAM/PDM products on a 70m² booth. The Edgecam CAM system was presented on 2 counters in combination with a small CNC machine and a lecture in the exhibitor forum.

The company's booth was very well attended throughout, and at the end of the fair 47 Edgecam prospects had seen how the software can help them get the very best from their designs and machine tools. First orders are expected in the next days.

Edgecam enables any manufacturer, from a small workshop to a large production plant, to fully automate and integrate its design and CNC machining processes, saving time, eliminating costly mistakes and increasing productivity.

C-CAM® GmbH is a system house, which has been operating for 14 years and now has 15 employees. It principally services companies in the eastern part of Germany but there are a growing number of customers throughout the whole country.

Providing CAD/CAM/PDM solutions which are seamlessly working together, C-CAM® GmbH's main products are SolidWorks and Edgecam. All in all, C-CAM has sold over 3,000 SolidWorks and around 150 Edgecam licenses to about 400 customers in the industrial sector as well as to research and educational institutions.

The combination of intec and Z trade fairs closed with 20,800 visitors from 22 countries (2009: 20,200 from 16 countries) and the record number of 1,345 exhibitors (2009: 1,320). The results show that this fair combination, which is unique in Germany, is among the most important German trade fairs for the metal working/processing industry and the subcontracting trade.

 [Click here to return to Contents](#)

CGTech to Show VERICUT 7.1 at EASTEC

24 March 2011

CGTech will demonstrate the new release of VERICUT CNC machine simulation and optimization software at the EASTEC show:

EASTEC Booth 5344 West Springfield, MA May 17-19, 2011

VERICUT 7.1 features significant enhancements to reduce the time required for manufacturing engineers to easily develop, analyze, inspect and document the CNC programming and machining process. Along with proactively adding new features, CGTech developers and engineers focused on addressing hundreds of customer-driven enhancements. Version 7.1 contains over 400 customer requests and further improvements to VERICUT's user interaction, simulation capabilities & analysis, cutting tool creation, and CAD/CAM integration.

VERICUT Product/Function Overview:

VERICUT is CNC machine simulation, verification and optimization software that enables users to eliminate the process of manually proving-out NC programs. It reduces scrap loss and rework. The program also optimizes NC programs in order to both save time and produce higher quality surface finish. VERICUT simulates all types of CNC machine tools, including those from leading manufacturers such as Mori Seiki, Mazak, Makino, Matsuura, Hermle, DMG, DIXI, and Chiron. VERICUT runs standalone, but can also be integrated with leading CAM systems such as Catia V5, NX, Creo (Pro/E), MasterCAM, EdgeCAM, hyperMILL, and GibbsCAM.

One of the new features added, at the request of customers, is a 3D Reviewer. With the VERICUT Reviewer, 3D simulations can be shared with anyone in the company – without using a license. The Reviewer can play forward and backward while removing and replacing material. Error messages and NC program text is highlighted when a collision on the stock or fixture is selected. A tool path line display is optional. The user can rotate, pan and zoom just like normal VERICUT, and the cut stock can be measured using all the standard X-caliper tools. The Reviewer file can be saved at any point in a VERICUT session.

 [Click here to return to Contents](#)

Delcam to Launch 64-bit PowerINSPECT at Control 2011

23 March 2011

Delcam will launch the 2011 R2 version of its PowerINSPECT inspection software on **stand 3514** at the Control exhibition to be held in Stuttgart from 3rd to 6th May. The new release is the first version developed for use on 64-bit computers. Other enhancements include improved visualisation of the results, easier creation of automated inspection routines, full integration of DRO (Digital Read-Out) functionality and support for the latest Renishaw probes.

PowerINSPECT combines the ability to work with all types of inspection device with a comprehensive range of inspection routines for making simple measurements, for inspecting geometric features and for checking complex surfaces. The resulting reports present detailed information in easy-to-read formats that can be understood by all engineers, not just inspection specialists.

The introduction of support for 64-bit computers will enable increased memory use on that hardware. This will be of benefit for more memory-intensive applications where larger CAD files need to be

CIMdata PLM Industry Summary

manipulated, especially for very complex parts and multi-component assemblies.

Two developments will make it easier to see results from PowerINSPECT. First, dimensions can now be displayed on the CAD view to give clearer reporting for distances between features. Second, point cloud data can now be shaded. This gives an immediate impression of the shape of the scan and allows the user to see at a glance whether sufficient data has been collected. It will also make it easier to select key points or specific areas from within the cloud of data.

The initial 2011 release of PowerINSPECT added the ability to create automatically a grid of points for an inspection routine. The R2 version also allows automatic generation of probe paths from curves in CAD models. The spacing of the measurement points is set to match the control points on the curve.

The PowerINSPECT DRO (Digital Read-Out) enables users to view the XYZ coordinates of the measuring device and is a useful tool for ‘marking out,’ or copying required coordinates onto a part. This is a common task with clay models and is usually achieved with a point probe or scriber on a layout machine. The DRO previously had to be installed alongside PowerINSPECT as a standalone program but the new release allows it to run inside PowerINSPECT. This makes the process more seamless and allows the user to take advantage of PowerINSPECT’s alignment functions.

In keeping with Delcam’s philosophy of supporting the latest probing technology, PowerINSPECT can now accept data collected with Renishaw’s new PH20i probe. This combination allows measurements to be made across all probe angles, rather than simply the incremental angles offered previously. This also introduces the ability to make rapid ‘head touch’ moves, which use the rotary motion of the probe head to collect the points quickly and accurately, rather than moving the entire machine.

 [Click here to return to Contents](#)

Delcam to Present Adaptive Machining Developments at AeroDef

25 March 2011

Delcam’s Brett Hopkins will present the company’s latest developments in Adaptive Machining during the AeroDef 2011 Exhibition and Conference to be held in Anaheim from 5th to 7th April. The presentation will be given as part of a session on Advanced Machining Concepts to be held on 7th April.

The presentation will show how Adaptive Machining changes the traditional relationship between machining and inspection and how the industry can adapt both hardware and software to help manufacturing facilities better deal with the demands they are facing. “The traditional relationship between machining and inspection is that machining is completed first and the component is then transferred to a dedicated piece of inspection equipment to be approved or rejected. However, as machining techniques become more sophisticated, and as components become larger and more complex, there are a growing number of cases where closer integration is required to give higher productivity and reduced wastage,” said Mr. Hopkins, North America Manager of Delcam Professional Services.

The programming of most machining operations is based around knowing three things; the position of the workpiece on the machine, the starting shape of the material to be machined, and the final shape to be achieved. Adaptive machining techniques allow successful machining when at least one of these elements is unknown.

For more information on AeroDef and to register, go to <http://www.aerodefevent.com>.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

ESPRIT 2011 at PMTS 2011, Columbus, Ohio, April 19-21 (18-Mar-2011)

18 March 2011

DP Technology will exhibit ESPRIT 2011, the latest version of its software, at Precision Machining Technology Show, or PMTS, 2011, scheduled for April 19-21 in Columbus, Ohio.

PMTS, a biennial international forum for manufacturers, suppliers and users of products dedicated to the production of precision-machined and turned parts, will take place this year at the Greater Columbus Convention Center.

Visitors to PMTS 2011 are encouraged to visit ESPRIT at **booth No. 1010**, where knowledgeable DP representatives will be available to discuss vital upgrades and perform demonstrations of how those upgrades can be put to work for you.

SolidTurn® drilling has been enhanced in ESPRIT 2011 with the addition of “Full Clearance” as an option for “Return Plane.” The advantage of adding the “Full Clearance” option to the drilling cycle is that the user can set and view the distance on the technology page.

To better support Swiss-style turning, a new lead-out option, called “Edge Break,” has been added to ESPRIT 2011. Swiss-style lathes utilize a guide bushing to support the bar stock for better rigidity. Occasionally, it is necessary to retract the turned stock back into the guide bushing. If there is a burr on the outer diameter (OD) of the stock, the guide bushing could jam or be damaged when the stock retracts. The new “Edge Break” option for the lead-out move will create a chamfer move to break the edge of the stock at the OD.

 [Click here to return to Contents](#)

ESPRIT 2011 at the 12th CIMT, Beijing, China, April 11-16 (17-Mar-2011)

17 March 2011

DP Technology will exhibit ESPRIT 2011, the latest version of its innovative software, at the 12th Annual China International Machine Tool Show, or CIMT, in Beijing, China, April 11-16.

Scheduled to take place at the China International Exhibition Center, the China International Machine Tool Show is a comprehensive event that offers the latest cutting-edge solutions and machine-tool technologies, as well as dynamic educational seminars.

Visitors to CIMT are encouraged to visit ESPRIT at **booth No. 102**, where knowledgeable DP representatives will be available to discuss vital upgrades and perform demonstrations of how those upgrades can be put to work for you.

New to ESPRIT 2011 are a series of analysis tools — the zebra, porcupine, heat map and toolpath analysis commands — that provide graphic displays for the inspection of solid models and ease in programming.

The ‘Zebra’ command simulates the reflection of long strips of light on a shiny surface, making it easy to spot wrinkles or defects in a surface. The striped display also makes it easier to verify that two adjacent faces are in contact, are tangent, or have continuous curvature. If stripes smoothly connect from one face to another, elements are tangent. This tool can save substantial time and money by enabling the detection of part model imperfection before parts are machined.

The ‘Porcupine’ command displays normal vectors on faces and surfaces to aid in the visualization of

changes in part curvature, which assists with the selection of ideal machining strategies.

The 'Heat Map' command displays surfaces rendered in different colors according to the local radius of curvature. This allows users to review minimum and maximum curvatures for the selection of the most appropriate cutting tools.

The 'toolpath analysis' command traces the position of the tool along a selected toolpath to aid in evaluating toolpath smoothness and to examine the quality of point distribution.

 [Click here to return to Contents](#)

48th Design Automation Conference to Feature Keynote Interview by Apple Computer, Inc. Co-founder Steve Wozniak

21 March 2011

Steve Wozniak, co-founder of Apple Computer, Inc., and Chief Scientist, Fusion-IO, will keynote at the 48th [Design Automation Conference \(DAC\)](#). Steve will be interviewed live on stage by San Jose Mercury News columnist Mike Cassidy on a wide range of topics, including the 'joy' of engineering and following your passion to convert innovative ideas into reality. Steve will provide a unique insight into the vision that started the largest and most successful technology company in the world. The 48th DAC will be held at the San Diego Convention Center in San Diego, California, from June 5-10, 2011. Steve's keynote interview will take place on Monday, June 6, 2011 at 2:00pm and is sponsored by Magma Design Automation.

"DAC informs the electronics industry on the latest technology and automation tools that shape every electronic device or system," said Leon Stok, General Chair of the 48th DAC. "The Woz was my childhood hero. He has profoundly influenced the electronics industry and our society. It is a great honor and pleasure for all of us in the organizing committees to have Steve join us in person at DAC this year."

"DAC is one of the premier electronic design conferences -- where research and design come together to provide information to pioneering engineers and companies worldwide," said Steve Wozniak. "I'm really looking forward to connecting with the engineering community at this year's show."

About Steve Wozniak

A Silicon Valley icon and philanthropist for more than thirty years, Steve Wozniak has helped shape the computing industry with his design of Apple's first line of products the Apple I and II and influenced the popular Macintosh. In 1976, Wozniak and Steve Jobs founded Apple Computer, Inc. to market Wozniak's Apple I personal computer. For his achievements at Apple Computer, Inc., Wozniak was awarded the National Medal of Technology, the highest honor bestowed on America's leading innovators.

Since the 1980's, Wozniak has been involved in various business and philanthropic ventures. He has spent a great deal of time and energy focusing on computer usage in schools by stressing hands-on learning and encouraging creativity for students. In 2000, he was inducted into the Inventors Hall of Fame and was awarded the prestigious Heinz Award for Technology, The Economy and Employment. Wozniak also co-founded the Electronic Frontier Foundation, and was the founding sponsor of the Tech Museum, Silicon Valley Ballet and Children's Discovery Museum of San Jose. He currently serves as Chief Scientist for [Fusion-IO](#).

 [Click here to return to Contents](#)

Geometric to Showcase CAMWorks® 2011 at PMTS 2011

22 March 2011

[Geometric](#) announced that it will demonstrate the new features in CAMWorks® 2011 (<http://www.camworks.com>), the latest version of its solid-based CNC programming solution at **booth #1218**, Precision Machining Technology Show 2011 (PMTS), from 19 to 21 April, 2011 in Columbus, Ohio.

CAMWorks 2011 is intended to be a more focused upgrade in the CAMWorks line, and provides significant new capabilities including enhanced automation, improved knowledge-based machining information, smarter tool paths, and more.

Fast and intelligent roughing

CAMWorks 2011 introduces VoluMill® the ultra-high performance toolpath plug-in engine for high speed milling for 2.5 axis and 3 axis roughing operations. It is ideal for prismatic parts and complex 3-D shapes as its algorithms result in more intelligent toolpaths to machine pockets, slots, and arbitrary shapes. It can be used with any material, including the hardest metals. This results in increase in efficiency and utilization of machines, tools, labor and materials.

High speed machining

The integrated strategies that are included in every milling module generate efficient, smooth, gouge-free toolpaths that maintain continuous machine tool motion for higher feed rates, improved surface finish, reduced wear on cutters, and longer life for machine tools. These strategies deliver advanced machining and linking solutions for molds, tools, dies and complex multi-axis parts.

CAMWorks supports CNC programming of multiple parts for production machining and offers an accurate presentation of the virtual machining environment.

Automatically identifying machining areas

Feature Recognition, which is used to automatically identify areas to be machined, has been upgraded to find more features, while decreasing computation times by more than 50% over previous CAMWorks versions. As part models become increasingly complex, recognizing more features in less time represents huge time savings for the NC programmer. The proprietary Technology Database (TechDB™) that is used to store and apply knowledge based machining information, has been enhanced to simplify the process of creating best machining practices. The improved interaction will result in greater use of the knowledge-based machining capabilities of CAMWorks, and will reduce potential errors in machining information.

For the mold and die industry, Geometric has introduced an optional electrode design solution labeled ElectrodeWorks™ that automates all aspects of the calculation and design of EDM electrodes including design, management, documentation and manufacturing. It is seamlessly integrated with SolidWorks/CAMWorksSolids assuring complete parametric association of data.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

IDC, CIMdata and Beyond PLM to Present at Upcoming Aras Community Event in April

24 March 2011

Aras® announced that PLM industry experts Joe Barkai of IDC Manufacturing Insights, Peter Bilello of [CIMdata](#), and Oleg Shilovitsky of Beyond PLM will be featured speakers at the Aras Community Event (ACE) 2011 International, April 26-28 in Dearborn, Michigan, U.S.

Date: April 26- 28, 2011

Location: The Henry (formerly the Ritz Carlton) - Dearborn, MI (close to Detroit USA)

Cost: Free to Attend - No Fee (Space is Limited - Registration Required)

Details, Agenda and Registration: www.aras.com/ACE2011

ACE 2011 International brings together business and IT professionals from around the world to network and collaborate with other members of the corporate community and gain valuable insight to take their strategic PLM initiatives to the next level.

IDC's Joe Barkai, Practice Director, Product Lifecycle Strategies, will present on PLM for Improved Product Lifecycle Decisions; CIMdata President Peter Bilello will outline the ROI of PLM; and leading PLM blogger Oleg Shilovitsky will lead a panel discussion of what the future holds Beyond PLM. The 3 day Community event will also feature an array of user presentations, breakout sessions, exhibits along with the popular Community Solution Showcase, a rapid-fire session of demonstrations developed and enhanced by community members worldwide.

Whether you are evaluating enterprise PLM solutions or are currently deploying a system, ACE 2011 International provides an opportunity to gain in-depth knowledge for your company's PLM initiative, learn best practices, find out how other global companies are using Aras, and network with peers, partners and Aras team members.

 [Click here to return to Contents](#)

IMAGINiT Technologies Supports Autodesk 2012 Product Launch With Technical & Training Expertise

22 March 2011

Rand Worldwide announces its IMAGINiT Technologies division is now offering the complete 2012 portfolio of Autodesk 3D design software products and will host a series of live events where companies can learn more about the software and what it will mean to their business.

“Our teams of technical experts and training instructors are ready to help businesses maximize their Autodesk 2012 software investment by ensuring customers make the right business decisions when evaluating their plans,” says Bob Heeg, Executive Vice President, IMAGINiT Worldwide Operations, IMAGINiT Technologies. “Our local experts are connected to each other around the world so every customer gains insights from global best practices as well as key learnings from other industries.”

In order to provide deeper insight into the new suite of Autodesk products, IMAGINiT experts are creating [blogs](#), videos and presentations which explore the latest developments in the software. A video primer for the Autodesk Inventor 2012 Interface Enhancements is now [online](#) and many more videos will follow over the next couple of months. All videos will be uploaded to the [IMAGINiT YouTube](#) channel.

To further assist customers, ProductivityNOW, IMAGINiT's online eLearning resource and service

CIMdata PLM Industry Summary

knowledgebase is being updated to offer help and learning tools for the Autodesk 2012 suite of products. Additionally, IMAGINiT's AutoCAD 2012 Update Course has been published to ProductivityNOW for subscribing customers to work through at their own pace. The IMAGINiT training team will also be offering new training classes on the 2012 products as early as May 1, 2011.

In concert with the Autodesk 2012 launch programs, IMAGINiT Technologies is hosting a series of "Make Your Ideas a Reality" live launch events. IMAGINiT technical experts will be on hand to showcase all of the new product developments in industry specific breakout sessions. All events will be hosted in a variety of unique venues such as art museums, galleries and boutique hotels to help inspire creativity when exploring the new possibilities of the programs.

Make Your Ideas a Reality Live Event Schedule:

Boston, MA – May 17, 2011

New York, NY – May 18, 2011

Dallas, TX – May 18, 2011

Baltimore, MD – May 19, 2011

Orlando, FL – May 19, 2011

Cleveland, OH – May 24, 2011

St. Paul, MN – May 24, 2011

Detroit, MI – May 25, 2011

Denver, CO – May 25, 2011

Chicago, IL – May 26, 2011

Seattle, WA – May 26, 2011

IMAGINiT representatives are also participating in the Autodesk Canadian 2012 Launch Roadshow.

Vancouver, BC – May 3, 2011

Toronto, ON – May 12, 2011

In addition to the face-to-face events, IMAGINiT will be hosting more than 40 webcasts throughout the year which will detail "What's New" in the 2012 products. Details on the all of the above events and the webcasts are available [here](#).

 [Click here to return to Contents](#)

Invitation to the Solid Edge ST4 Global Launch Event

March 2011

The Solid Edge ST4 Global Launch Event will be held on June 15th – 16th, 2011 in Huntsville, Alabama, USA.

Please mark your calendars and make plans to attend this very special global event for both new and seasoned Solid Edge users. Space is limited so secure your spot and register now for the [Solid Edge ST4 Global Launch Event](#). **Our early-bird discount ends on March 31st, 2011.**

CIMdata PLM Industry Summary

This 2-day event will be packed with technical training and opportunities for you to interact with other Edgers from around the world. As with our recent North American productivity summits, this event will be all about YOU, the users of Solid Edge, and how to achieve productivity in your daily operations.

The entire Solid Edge team and I look forward to meeting with you personally. At this event you'll find plenty of representatives from our development team, including the "fathers of Solid Edge", Dan Staples and Bill McClure, as well as Jeff Walker, the head of our Solid Edge planning group. Additionally, Solid Edge marketing and our regional and global management team will be there to listen to your needs. Together with you and our partners, we want to shape the future of our business.

Why you should attend this event:

- Increase your productivity and the value you deliver to your company
- Pick up dozens of Solid Edge design tips and ideas
- Dig into Solid Edge features you may not have had time to explore
- Network and share design tips with fellow Solid Edge users from around the world
- Broaden your contacts with suppliers and potential new customers
- Get your hands on the latest software, Solid Edge ST4, and learn from the people who developed it.
- And most importantly: be part of shaping the future of Solid Edge!

More details on the event:

- There will be a welcome reception and networking opportunity on the evening of June 14th, 2011.
- Cost: Early bird registration will be \$250/user through March 31st, 2011. After that registration will be \$350/user.
- The event will be held at The Westin Huntsville (+1 (256) 428-2000). There is a special discounted rate for a limited number of event registrants. [Book your hotel room now](#).
- Download the [Solid Edge ST4 event guide](#) for more details.

 [Click here to return to Contents](#)

Krontime Launches a New Software Solution "Lean Factory" at the Next Industries 2011 Show in Lyon (5 – 8 April)

23 March 2011

Industrie Lyon 2011 (5 to 8 April 2011 in Lyon Eurexpo) is a multi-industry show bringing together all industrial suppliers. Its positioning attracts manufacturers from various sectors and industries, all looking for innovative solutions and products. Located in Rhone-Alps, in the heart of the first French industrial area, Industrie Lyon is a meeting place for all innovating industries.

[KRONTIME](#), editor of innovative software solutions dedicated to industrialization engineers will be

CIMdata PLM Industry Summary

present in Industrie Lyon. It offers modular, adaptable software, simple to use, focused on a single database. The company has several references in France in the production sector and relies on a network of partners to implement its solutions on the European market.

The context

The relocation of production to low cost countries appears less and less as a solution for European industries: management of changes, difficulty of controlling delivering times without forgetting the lack of confidentiality are the mains concerns. It is time to move towards new solutions: by reorganizing their production systems, by reducing waste and stocks, by adapting as quickly as possible in response to customer orders, many companies have discovered real veins of productivity in their factories and workshops.

Implement a flexible and efficient production

Manufacturing engineering teams are the first to be concerned; they must control the efficiency process in the enterprise, standardize more flexible production units, reduce activities without added value, respond to a changing demand with a very variable manufacturing batch, improve the quality and deadlines with more custom products.

In this area, few tools exist and industrialization specialists often use house software or solutions based on Excel. This disparate information does not rely on a common database; business history is not preserved and is therefore non-reusable.

On the contrary, the "Krontime lean factory" solution is based around a unique "industrialization" knowledge base which permits to find the necessary information for each engineer and facilitates communication. They design production facilities on screen, simulate to make the right decisions and achieve productivity gains.

The software solution "krontime lean factory"

Presented at Industrie Lyon 2011, this software solution integrates several engineering disciplines (process analysis, calculation of the times, balancing, resource management) which constitute a very rich knowledge database of manufacturing processes. Thus a dashboard provides Lean indicators, for example the total time of production, productivity, value added, the area, the movement of materials, scrap...

Krontime Lean Factory consists of seven products organized around a single knowledge base.

* This **industrialization knowledge base** is the company's expertise. The objective is to gather the information (ergonomic analysis, analysis assembly lines, stations, actions underway SMED...) in a same database accessible to all. That is to say that those responsible for quality, the times calculation, safety, maintenance now have updated and consistent information.

* The **module Operations and Routing** helps to define lists of operations and processes, to associate the resources needed for each operation, measurement of working time and facilitates the establishment of standards of operation and time. It is thus easy to distinguish between operations in added value and no-value added (preparation machine, wait time...)

* **Module Resource Balancing** determines the resources necessary for a particular order. This module handles constraints in resources and reduces significantly the time spent launching a production line. It defines and verifies the assembly sequences, automatically calculates staff, their tasks, solves the problems of ergonomics, measures performance.

CIMdata PLM Industry Summary

* **Module Work Team Documents** is sharing all the information related to production whether it controls quality management, security at work, maintenance in multimedia formats such as text, graphics, audios, photos, videos. This solution also provides dynamic instructions to the workstation to assist production lines through a mix of products. It reduces errors and offers a tool of annotations and feedback information.

* The **module Process Planning and Simulation** (flows of manufacturing, global analysis, critical paths...) permits modelling the flows, intermediate stocks, detect bottlenecks on the manufacturing lines and calculate the time of production. This module anticipates the impact of some changes in the flow of production before they occur in the workshop.

* The **module Improvement Planning and Management**. Industrialization engineers having identified areas for improvement will have tools to document, verify the implications, calculate a return on investment... Management people will then have a view on each initiative or global view at the level of the production units.

* With the **module Traceability Management and Statistics**, a large number of indicators can be defined in addition to the Overall Equipment Effectiveness ratio (OEE) which visualizes the operation of production lines and detects the reasons for variations in production.

* The **Manufacturing Performance Indicators module** provides Lean indicators, for example the total time of production, productivity, value added, area, scrap, lead-time when delivery problems, the value of stocks... It visualizes the results of production and compares them with the objectives.

A rapid return on investment

The approach often comes in steps. The fact of relying on a very pragmatic approach gives a very short implementation time, around 1 to 2 weeks and a rapid return on investment (ROI)

Earnings can be several kinds:

- Rapid reconfiguration of lines
- Easy management of the production mix
- Savings of time of 50 to 60% on series changes

"We have customers who had as an objective to create a knowledge base and to generate technical documentation". In that case, we met ROI of 8 to 10, or even 12 months.

"Others went further with the establishment of a knowledge base and the use of indicators of efficiency with a return on investment on 6 to 8 months," explains Jordi Portella, co-founder of Krontime.

"Previously, these companies had to wait a week to get the right information and take measures to react." "At this rate, the ROI is very fast."

-Company name : **KRONTIME**

-Product: **Krontime Lean Factory**

-Booth at Industrie Lyon : **6F 78 bis**

-Contacts: **Jordi portella** **j.portella@krontime.com**

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

PartMaker's Fishman to Present On Machining Trends at PMTS

25 March 2011

Hanan Fishman, President of Delcam's PartMaker Division, will present the latest developments in software for the precision parts industry at the Precision Machining Technology Show to be held in Columbus, Ohio, from 19th to 21st April. The presentation, which will be given in the Technical Theatre at PMTS at 11 a.m. on Thursday, April 21, will be one of a series discussing some of the trends in the precision machined parts industry and how both hardware and software selection can help companies deal better with the demands they are facing.

"The precision parts industry is changing rapidly," claimed Mr. Fishman. "The triple paradigm of smaller lot sizes, increased part complexity and compressed lead times are forcing part manufacturers to look closely at their set-up times and their CNC programming methods." The presentation will consider the latest trends in CAD/CAM systems for small parts manufacture across a variety of CNC platforms including Swiss-type lathes, fixed-headstock turn-mill machines and bar-fed mills.

PartMaker is a knowledge-based machining system, allowing it to provide a substantial gain in programming efficiency by remembering the tools, material and process information necessary to machine individual part features. It thus relieves the user from re-entering the same features' information for subsequent parts. It also improves productivity by placing the emphasis on tool management functions. This combination of functionality allows programs to be developed and trialed quickly on the computer so reducing set-up times and boosting productivity.

The 2011 version, which will demonstrated at PMTS, includes more powerful milling functionality, more vivid set-up documentation, new specialist turning routines, a more flexible tooling library, improved simulation of unique machine tool architectures and a host of additional productivity enhancements.

 [Click here to return to Contents](#)

Product Lifecycle Management Conference - CMPROficiency 2011

23 March 2011

Professional Systems Associates (PSA) announced CMPROficiency 2011 (May 24th - 26th 2011), a conference covering CMPRO and other topics important to the configuration management community. CMPROficiency will provide information on how to more proficiently use CMPRO for Product Lifecycle Management (PLM), Configuration Management (CM), and Inventory Management, as well as the other processes that CMPRO helps to automate and manage. With separate tracks for administrators, fundamental users, and advanced users all attendees will be getting targeted information based on their user level.

CMPROficiency 2011 will teach attendees how CMPRO can be used in their organization and why configuration management and product lifecycle management are vital to a company's success. Registration for this event is now open. For more information on the specific topics that will be covered at this event or how to register visit www.PSASYS.com.

PSA welcomes two highly recognized guest speakers from the configuration management community to CMPROficiency who will present information on configuration management standards and best practices. The guest speakers include Sheri Robinson from the Institute of Configuration Management (ICM) and Steve Easterbrook from the Configuration Management Process Improvement Center

(CMPIC).

ICM's Sheri Robinson currently teaches courses on Configuration Management II (CMII) and has over 25 years of experience in processes, operations, and management. She will be presenting information on identifying, "[T]he root causes of corrective action and quantifying the ratio of resources spent on intervention. Attendees will learn conforming results are the norm when requirements are clear, concise and valid, and that a fast and efficient change process is a prerequisite."

Steve Easterbrook from CMPIC has over 30 years of experience with configuration management. Steve will be speaking to the full group about *Configuration Management – Preventing Process Meltdown*. Steve stated, "I will show how failures in configuration management have resulted in costly errors and real life tragedy, and I will explain how a good configuration management process can reduce corrective action, exposure to negative publicity, avoid lawsuits and, most importantly, save lives."

 [Click here to return to Contents](#)

SMi Presents their 6th Conference on Pharmaceutical Portfolio & Product Life-Cycle Management 29-30 June 2011, London, UK

March 2011

As product pipelines become thinner, and pressure to get the most out of dwindling resources increases, pharmaceutical portfolio and product lifecycle management becomes an imperative part of a company's approach to maximizing ROI. Not only must managers carefully strategize in relation to the product's strengths against competitors and also in such a way to compliment the overall company portfolio, but they must also balance the crucial factors of regulatory change in patent protection, risk mitigation, effective R&D resource allocation in order to achieve an integrated approach to effective portfolio and PLCM.

Now in its 6th year, SMi Groups Pharmaceutical Portfolio & Product Life-Cycle Management is a meeting ground for such managers and directors who are faced with the task of managing the pipeline in a way that acknowledges the above mentioned factors and more. You can expect to discuss with some of the leading professionals in the field the best way to approach this difficult task. In a showcase of effective approaches from many of the largest pharmaceutical companies, you can be sure to learn much of value to yourself, and to your organization.

At this conference you will:

Discuss other's approaches to fully integrated portfolio and PLCM management

Learn of the latest EU patent regulatory guidance

Analyse the most effective risk mitigation strategies

Debate the merits and drawbacks of portfolio out licensing

Network with our expert speaker line up

Make sure you save the date for our half day pre-conference workshop

Associated with the conference there will be a half-day interactive workshop on:

'Tools and Techniques for Optimal Drug Development Portfolio Planning: Portfolio Selection, Resource Allocation, and Risk Mitigation' taking place on Tuesday 28th of July. Leading this workshop will be

CIMdata PLM Industry Summary

Vladimir Shnaydman, President, ORBee Consulting

Confirmed Speaker include:

Ulrich Betz, Director, Department Head Center of Innovation, Merck Serono

Carmel Egan, Vice President, Project Management, Eli Lilly

Julie Barret-Major, Director of Intellectual Property, Norgine

Alessio Merlin, Director Strategic Planning, Bayer

Hans Hoogkamer, Business and Science Affairs, Actelion Pharmaceuticals

Tim Harris, Director, Respiratory & Immuno-inflammation Portfolio Management, GSK

Marie Bernasconi, Global Program Team Director, Novartis

Arif Shivji, Director, Pfizer

Fabio Domanico, Case Handler, European Pharmaceuticals Sector Task Force, DG Competition, European Commission

Kerstin Bode-Greuel, Lecturer, University of Essen/PME Institute

Michael O'Grady, Portfolio-Analysis Manager, GlaxoSmithKline

Mike Rea, Chief Executive Officer, IDEA Pharma

Sakir Mutevelic, Head of Global Project Management Biopharmaceuticals Hemophilia A / VWD, Baxter

Elisabeth Berthet, Lawyer at the Paris Bar, Armengaud-Guerlain

Kimber Hardy, Head of Valuation and Analysis, Portfolio Management , Merck Serono

For more information and to download the brochure visit <http://www.smi-online.co.uk/pharma-portfolio12.asp> or alternatively contact Zain Philbey on tel: +44 (0) 20 7827 6722 or email: zphilbey@smi-online.co.uk

Book before Thursday 31st March 2011 and receive an early bird discount of £100.

 [Click here to return to Contents](#)

SPEED's Electric Machine Software to Complement CD-adapco's Flagship Analysis Tool, STAR-CCM+

22 March 2011

CD-adapco (www.cd-adapco.com) announced at its [STAR European Conference 2011](#) that it has reached an in-principle agreement with the University of Glasgow to acquire the university's electric machines design code, SPEED software.

On completion of legal agreements, the pioneering electric machines design code, SPEED software, will join CD-adapco's established line of CAE tools. SPEED software has been in development for the last 25 years with a customer base of over 1000 engineers including many of the world's leading manufacturers in the electric machine field.

Professor Tim Miller, Originator and Director of the SPEED software labs said, "After 25 years in the

CIMdata PLM Industry Summary

University of Glasgow, I am delighted that SPEED is joining CD-adapco. It is a perfectly natural transition from one of the oldest UK universities, with one of the longest and richest histories of academic/industrial interaction in engineering. The combination of SPEED and CD-adapco lays the foundation for a new phase of development in software engineering services to manufacturing companies in electric machinery, covering all sectors including exciting new developments in power generation and electric/hybrid vehicles, as well as all our varied fields of activity.”

He continued, “I am personally looking forward to a renewal of all aspects of SPEED's service to this vital group of industries, balancing the need for continuity with the need for development and integration with related design tools from CD-adapco themselves and others with whom we have worked for many years. The philosophy of customer service through the provision of leading enabling design tools is identical in SPEED and CD-adapco, so I believe we will see a vigorous and stimulating new era. I am very proud to be part of it and I hope all our customers will stay with us to realize the full potential of our partnerships.”

Professor John Marsh, Head of the School of Engineering at the University of Glasgow and instrumental in the deal, added. This is a great example of how knowledge developed within the university can create a product which will have significant value for users in this field. We are very proud of SPEED's heritage and the position it holds in the marketplace and are pleased to work with CD-adapco to allow it to flourish.”

CD-adapco's President & CEO Steve MacDonald, explained, “SPEED software takes CD-adapco to the forefront of the electric machine design and is absolutely complementary to the ongoing organic developments in house. Specifically, to create a detailed 3D electromagnetic solver which will become part of STAR-CCM+ and move the market forward for **electric machine simulation.**” MacDonald went on to comment, “These developments mark a significant commitment from CD-adapco in the electromagnetic field, the ultimate aim to further strengthen our simulation tool and provide more solutions to our customers. For us to be a serious player in this area requires expertise and one of the most renowned people walking on this planet in the area of electric motors is Professor Tim Miller. We are delighted to have joined forces with him.”

Professor Miller will host a live online Q&A Session on April 19th, 2011 for existing customers and distributors.

For more information about SPEED and CD-adapco, please contact:

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+44 207 471 6200

 [Click here to return to Contents](#)

Tata Technologies Heavy Equipment Capabilities at CONEXPO

22 March 2011

Tata Technologies announced that it will promote its heavy machinery industry expertise at this year's CONEXPO-CON/AGG International Exposition in Las Vegas March 22-26.

“The same expertise in innovative automotive engineering that promoted throughout 2010 with our BETTER INNOVATION on Tour event series can be effectively applied to the heavy machinery and

CIMdata PLM Industry Summary

farm machinery industries,” said Andy Summerlin, Tata Technologies Global Head – Heavy Machinery. “Our value proposition offers global support for the heavy machinery industry from our centers for engineering and advance design in North America, Europe and Asia.”

Summerlin noted that Tata Technologies is actively engaged with clients in the heavy machinery and farm machinery industries throughout its worldwide operations, including dedicated facilities in India.

To learn more about Tata Technologies capabilities in the heavy machinery and farm machinery industries, visit representatives at **Booth # S-10859** at the CONEXPO-CON/AGG International Exposition. Visitors will have the chance to take the XBOX® Discus Challenge and win an XBOX Kinect 4GB game unit.

This year’s event will feature more than 2,000 exhibitors and includes comprehensive education programs and professional sessions focused upon industry issues and trends, management and applied technology.

 [Click here to return to Contents](#)

Financial News

Delcam Achieves Record Sales and Increased Profits

24 March 2011

Delcam announced that the company achieved record sales in the year to 31st December, 2010. Sales for the period grew to £36.6 million, an increase of 17% over the £31.3 million recorded in 2009. Pre-tax profit rose substantially to £2.26 million compared with the £0.59 million last year.

The company continued to increase its high levels of investment in software R&D, investing £9.4 million in the period, compared to £8.9 million during 2009. As well as supporting growth in new software sales and enabling the introduction of new products, this investment contributed to an increase in maintenance revenues to £11.6 million, up from £10.2 million in 2009.

Commenting on the results, Delcam Chairman, Peter Miles, said, “Our results were driven by improved sales across all of our key markets in Europe, North America and Asia, with the Group’s newer territories in Asia showing the largest increases. The marked upturn in sales benefited from our decision to maintain product development and marketing investment during the downturn of 2009.”

On the company’s outlook, he added. “The current indications are that 2011 will see companies in most of our major territories increase their investments in capital equipment and the associated software and, against this backdrop, the business is well placed to benefit. However this trend may be affected by recent events in Japan and in the Middle East. At this early stage in 2011, the growth in our sales is continuing and, if this remains the case, we are optimistic that our trading results for the coming year will show further improvement over those for the last twelve months.”

A copy of the complete Chairman’s statement is available at http://www.delcam.com/general/investors/reports/final_report2010.asp.

 [Click here to return to Contents](#)

Lantek Ends 2010 with a 34% Increase in Turnover

22 March 2011

- Once again, most of the turnover (84%) came from the international market, the greatest growth taking place in China, South Korea, the United States and Brazil.
- The 2011 forecast is for a further 30% growth, supported by a new, three-year strategy, which will see the management of each region moving to a local level.

Lantek, a world leader in the development and marketing of integrated CAD/CAM and ERP solutions for the sheet metal sector, recently held its annual conference in which the 2010 results were presented, as well as the corporate strategy for 2011.

The conference was attended by the company's Board of Directors, as well as the senior managers from its network of offices located in 17 countries, worldwide. Lantek emphasised its continued leadership in the metal processing industry and outlined plans to consolidate its presence in those markets where it has recently started up new operations. The company will also continue with its commitment to emerging markets.

Results for 2010

In 2010, Lantek saw a 34% increase in turnover, (10.58 million euros). This figure exceeded the forecasts for the year and illustrates the recovery of any ground lost the previous year due to the worldwide financial crisis and the particular difficulties faced by the sheet metal sector. This increase in business was also reflected in how many clients the company has, with 1,100 new ones this year, meaning that the firm's client base now totals more than 11,000 companies all over the world.

Of the total turnover achieved by Lantek in 2010, 84% corresponds to the business generated by the international markets as a whole, whilst 16% came from the domestic market. This shows a slight variation compared with 2009, when the proportion was 80% and 20%, respectively. This clearly illustrates how important the foreign market is for the company, and is in line with its policy for international expansion, as well as its long-held commitment to emerging markets.

The countries in which Lantek saw most growth in 2010 were China, South Korea, the United States and Brazil. The traditional European markets continue to be an important source of business, although the market growth in Asia and America is increasingly significant.

In terms of areas of business, the performance of the Management Software division has been outstanding. Lantek Integra, a solution launched in 2010, and the new vertical applications like Lantek Steelworks for the structural sector have already been well received by the market. Overall, Lantek's ERP solutions doubled their turnover in 2010, accounting for close to 10% of the company's total turnover, growth that is in line with the 20% estimated for the end of 2013.

Furthermore, in 2010 Lantek continued with its policy of investing in R&D&, spending 20% of total turnover on it, the same as in 2009. This saw, among other things, the development of new solutions, such as Lantek Steelworks; re-engineering and technical and functional improvements to its current portfolio of solutions; and analysis and detection of new trends in the market.

"At Lantek we are very satisfied with the results we obtained in 2010, having continued with our policy of double-digit growth. In spite of it being a year full of challenges, marked by the economic crisis, we have shown how well we operate by meeting our initial targets, both the strategically and financially", explained Alberto Martínez, Managing Director of Lantek Sheet Metal Solutions.

CIMdata PLM Industry Summary

“In 2010 we strengthened our product portfolio with the introduction of new technologies and solutions, such as the Lantek Integra ERP and its specialist solutions for the metal structures sector. We also worked to ensure that all our applications can be perfectly integrated with each other, offering our clients more flexible, higher quality products”, continued Sr. Martínez. “Another priority was to strengthen and consolidate our position in the emerging markets, through setting up operations in other regions, and by reinforcing our strategy for international growth. We believe this is laying the foundations for the future”.

Grow by around 30% - the target for 2011

The positive 2010 results and the excellent response from the international market have encouraged Lantek to set some optimistic targets for 2011; hence the company’s forecasts are for turnover to continue down the road of double-digit growth, with a 30% rise.

Lantek has, therefore, announced the start of its new strategic plan for 2011-2013, which incorporates changes at the organisational level. In general terms, this is based on the maxim “think global, act local”. To achieve this, Lantek is adopting a more horizontal organisational structure, with more localised management in the countries in which it operates, recognising the substantial differences between the markets in Europe and those in Asia or America.

“This new structure will enable us to deliver better cover to deal with the needs of each region”, pointed out Sr. Martínez. He continued: “Until now we have pursued a strategy of international development, managed from our headquarters in Spain. This has enabled us to obtain good results but, market analyses and development show that we should now be looking at a global strategy. This means we can set general targets and policies, by allowing management autonomy for each geographical location. We want to progress from being an international company to being one on a global scale”.

Another of the key elements in Lantek’s plans for 2011 is for the company to become a multinational supplier of integrated solutions, thus generating higher levels of income than can be achieved by selling licences alone. Lantek is, aiming to be customers’ preferred option, and offer not only next generation products and services, but also provide integrated solutions with high added value. To achieve this, the company will continue working on the development and innovation of the two ranges of solutions it now offers to metal and sheet metal processing companies. These are its CAD/CAM products, which include Lantek Expert, Lantek Flex3d and Lantek Manager; and its management products, consisting of Lantek Integra and Lantek Steelworks. Developing the OEM segment is also a key element of this new strategic plan

For 2011-2013, Lantek plans to focus its efforts and resources on specific regions (Germany, France, Italy, South Korea, United States, and China) where it will aim to strengthen and boost its growth. Lantek also plans to consolidate its position in other countries and regions - the Middle East, Poland, Mexico, Turkey, Southeast Asia and Russia, which will all be of crucial importance during this period.

Finally, the company plans to place greater emphasis on the additional services it provides, and will develop them so that they become one of the core elements in terms of value offered to customers, enabling Lantek to become a global solutions provider.

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

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Oracle Reports Q3 GAAP EPS Up 75% to 41 Cents; Non-GAAP EPS Up 40% to 54 Cents

24 March 2011

Oracle Corporation today announced fiscal 2011 Q3 GAAP total revenues were up 37% to \$8.8 billion, while non-GAAP total revenues were up 36% to \$8.8 billion. Both GAAP and non-GAAP new software license revenues were up 29% to \$2.2 billion. GAAP software license updates and product support revenues were up 13% to \$3.7 billion, while non-GAAP software license updates and product support revenues were up 13% to \$3.8 billion. Both GAAP and non-GAAP hardware systems products revenues were \$1.0 billion. GAAP operating income was up 62% to \$3.0 billion, and GAAP operating margin was 34%. Non-GAAP operating income was up 35% to \$3.9 billion, and non-GAAP operating margin was 44%. GAAP net income was up 78% to \$2.1 billion, while non-GAAP net income was up 42% to \$2.8 billion. GAAP earnings per share were \$0.41, up 75% compared to last year while non-GAAP earnings per share were up 40% to \$0.54. GAAP operating cash flow on a trailing twelve-month basis was \$9.9 billion.

"Strong revenue growth coupled with disciplined business management enabled an increase in non-GAAP operating margin to 44% and earnings per share to \$0.54," said Oracle President, Safra Catz. "Our hardware product gross margins increased to 55% in the quarter so we are now completely confident that we will exceed the \$1.5 billion profit goal we set for the overall Sun business for the current fiscal year."

"Q3 performance was broad based with all geographies reporting revenue growth of 30% or higher," said Oracle President, Mark Hurd. "The sequential revenue growth for Exadata and Exalogic was up over 50%. And we expect to see an even higher growth rate for these two game changing technologies in Q4."

"In Q3 we signed several large hardware and software deals with some of the biggest names in cloud computing," said Oracle CEO, Larry Ellison. "For example, Salesforce.com's new multi-year contract enables them to continue building virtually all of their cloud services on top of the Oracle database and Oracle middleware. Oracle is the technology that powers the cloud."

In addition, Oracle also announced that its Board of Directors declared a quarterly cash dividend of \$0.06 per share of outstanding common stock, reflecting a 20% increase over the previous quarter's dividend of \$0.05. This increased dividend will be paid to stockholders of record as of the close of business on April 13, 2011, with a payment date of May 4, 2011.

Q3 Earnings Conference Call and Webcast

Oracle will hold a conference call and webcast today to discuss these results at 2:00 p.m. Pacific. You may listen to the call by dialing (877) 612-6725 or (912) 312-0950, Passcode: 7536150. To access the live webcast of this event, please visit the Oracle Investor Relations website at <http://www.oracle.com/investor>.

Click [HERE](#) for the unabridged press release with financial tables.

 [Click here to return to Contents](#)

SAP Announces Availability of 2010 Annual Report to Shareholders and Annual Report on Form 20-F

21 March 2011

CIMdata PLM Industry Summary

SAP AG SAP's Annual Report to Shareholders including the IFRS audited consolidated financial statements for the year ended December 31, 2010 is now available, and SAP's Annual Report on Form 20-F has been filed with the U.S. Securities and Exchange Commission (SEC). Both reports can be accessed via SAP's Web site at www.sap.com/investor and www.sap.de/investor. Hardcopies of both reports can be ordered free of charge:

- (i) online at <http://www.sap.com/investor> and <http://www.sap.de/investor>
- (ii) via phone +49 6227 7-67336 or +1-877-727-7862 or
- (iii) by sending an e-mail to investor@sap.com.

In the 2010 Annual Report, SAP reaffirmed its previously (January 26, 2011) published business outlook for the full-year 2011.

- Full-year 2011 non-IFRS software and software-related service revenue is expected to increase in a range of 10% to 14% at constant currencies (2010: EUR9.87 billion).
- Full-year 2011 non-IFRS operating profit is expected to be in a range of EUR4.45 billion to EUR4.65 billion at constant currencies (2010: EUR4.00 billion), resulting in 2011 non-IFRS operating margin increasing in a range of 0.5 to 1.0 percentage points at constant currencies (2010: 32.0%).
- Full-year 2011 IFRS effective tax rate is projected to be 27.0% to 28.0% (2010: 22.5%) and the non-IFRS effective tax rate is projected to be 27.5% to 28.5% (2010: 27.3%).

SAP expects to hire in all regions in 2011, including in Germany. Also in the 2010 Annual Report, SAP stated that by the middle of the present decade, it aims to achieve a non-IFRS operating margin of 35% in average annual increments of up to 100 basis points, to increase annual total revenue to at least EUR20 billion, and to increase the share of software revenue generated through indirect channels by up to 40%, which would be more than twice the proportion generated through indirect channels in 2010. In the execution of its strategy, technology partners are essential to advance SAP's research agenda, to monetize in-memory technologies, and to enhance its solution portfolio.

 [Click here to return to Contents](#)

Implementation Investments

AVEVA Announces Contract Win with Hyundai Heavy Industries

22 March 2011

AVEVA announced a significant new contract win with Hyundai Heavy Industries (HHI), further increasing its investment in AVEVA solutions.

HHI has fully utilised AVEVA solutions since 1988. It has based its engineering and design on AVEVA solutions for the production of its commercial, offshore and special ships. With increasing offshore projects, Hyundai Heavy Industries (HHI) is further expanding its usage of AVEVA's 3D design.

"We have a strong working relationship with AVEVA, as demonstrated with our past strategic partnerships. AVEVA has helped us to continue to achieve technological innovation and become a global leader," said H.Y Kim, General Manager at HHI.

CIMdata PLM Industry Summary

"Our relationship with HHI is an example of AVEVA's commitment and contribution to the Korean market. HHI has benefitted from higher design efficiency and improved project quality when using AVEVA solutions," added Peter Finch, President, Asia Pacific at AVEVA.

HHI has recently announced the launch of state-of-the-art drill ship 'Deepwater Champion' and a recent order for the world's largest heavy-lift vessel. AVEVA solutions were used in the design of 'Deepwater Champion' and will play a major role in the new heavy-lift vessel project.

 [Click here to return to Contents](#)

AxSTREAM to Assist SMTU Students with Marine Turbine Design

23 March 2011

SoftInWay Inc. has signed an agreement with the State Marine Technical University of St. Petersburg (SMTU) to incorporate AxSTREAM Educational Version into the curriculum of Department of Marine Turbines and Turbine Plants, Faculty of Marine Engineering.

AxSTREAM Educational Version was created with the goal of familiarizing students with the basics of turbomachinery design and optimization. It enables flow path design using overall application requirements, flow path optimization including 1D/2D direct problem formulation, cascade profile generation, finding the optimal twist law for classic and long blades, and 3D blade design using custom lean and sweep. As a result, the graduates will gain a broad-based introduction and a deeper understanding of the flow path design procedure, while their teachers will receive valuable practical material.

Since AxSTREAM software for turbomachinery design and optimization is currently used by major engineering companies, such as Dresser-Rand (USA), MAN Turbo (Germany), Wood Group (Switzerland) and Avio Group (Italy), to name just a few, it is important to use it to provide students with the appropriate education and inspiration, as well as to prepare them for successful engineering careers.

AxSTREAM version for academia is available for axial / radial turbines and compressors, and can be ordered via <http://www.softinway.com/education/axstream-educational-version.asp>.

 [Click here to return to Contents](#)

Catalog Data Solutions CAD Download Solution Selected by Schioppa Casters and Wheels

22 March 2011

Catalog Data Solutions ([CDS](#)) announced that [Schioppa Casters and Wheels](#) has selected its online CAD download solution.

Schioppa Casters and Wheels, based in San Paulo, Brazil, manufactures and supplies over 30,000 caster and wheel products worldwide. "Our team has noted that the buying process has changed – caster and wheel customers now research and select products online, often before even talking to a supplier," said Mario Schioppa Neto, Export Manager, Schioppa. "Therefore our website has become a very important sales tool and we are investing in it, not only to enable customers to quickly find the "right" product but, equally importantly, to offer CAD downloads of products to save engineers and designers time during the design-in process. After evaluating several vendors, we chose the CDS ModelServer SaaS solution for its flexibility, adaptability and configurability as well their ability to build over 30,000 downloadable

CAD models for us.”

“This is a proof point for CDS’s international expansion and we’re delighted to have been selected by Schioppa Casters and Wheels. As they fully recognize, the industrial buying process has changed and become both online and international,” said John Major, CEO Catalog Data Solutions. “Of the many types of online marketing content (e.g. white papers, case studies, brochures, videos, demos, recorded webinars, reviews, CAD model downloads, etc.) only CAD downloads are known to lead to a sale nearly 50% of the time - CAD downloads may be the most efficient online marketing tool available.”

Catalog Data Solutions helps industrial suppliers and distributors grow sales and strengthen customer loyalty through interactive online catalogs, ecommerce, 3D CAD model delivery and product configurator solutions.

 [Click here to return to Contents](#)

Freescale Licenses Synopsys' DesignWare IP Portfolio to Accelerate SoC Designs

23 March 2011

Synopsys, Inc. announced that [Freescale Semiconductor](#), a global leader in the design and manufacture of semiconductors for the automotive, consumer, industrial and networking markets, has licensed [Synopsys' DesignWare® IP](#) for Freescale's system-on-chip (SoC) designs. The multi-year agreement gives Freescale access to Synopsys' broad portfolio of DesignWare interface and analog IP such as [USB](#), [HDMI](#), [PCI Express®](#), [SATA](#), and [MIPI](#) interfaces, as well as [data converters](#), [audio codecs](#) and [video front -ends](#).

"Access to Synopsys' very broad IP portfolio helps us keep pace with the complexities of new standard interfaces and migration to ultra-deep sub-micron processes," said Ken Hansen senior fellow, vice president and chief technology officer at Freescale Semiconductor. "Freescale has chosen Synopsys because of its robust architectures, protocol certification record, extensive silicon validation process and worldwide support teams that are located near our key design centers. This will enable our designers to focus their efforts on delivering differentiated products to the market."

"Synopsys' collaboration with Freescale has resulted in the successful development of SoCs for a range of applications, and we look forward to continuing this close relationship," said John Koeter, vice president of marketing for the Solutions Group at Synopsys. "As the industry's trusted IP partner, Synopsys provides a broad portfolio of silicon-proven, IP solutions that help customers such as Freescale integrate critical functionality into their SoCs with less risk and improved time-to-market."

 [Click here to return to Contents](#)

Lakeshore Learning Materials to Implement NGC's PLM Software

23 March 2011

NGC® Software announced that Lakeshore Learning Materials, an innovative developer and retailer of educational toys and learning materials for children, is implementing NGC's [PLM](#) solution for product design and development.

Lakeshore offers educators and families around the U.S. the [best educational products](#) and learning services through the company’s 50-plus retail locations, mail-order catalogs and e-Commerce website. After evaluating numerous PLM vendors, Lakeshore chose NGC's PLM to streamline design and

CIMdata PLM Industry Summary

production of its products, with benefits including:

Real-time visibility. NGC's PLM software will give Lakeshore real-time visibility into all phases of product design and development, allowing the retailer to instantly share information with Planning, Merchandising, Design, Costing, Sourcing, Manufacturing and Logistics.

Faster speed to market. NGC's PLM includes features such as workflow calendars, collaboration tools, exception management, and automated alerts to help ensure Lakeshore's design and production schedules stay on track.

Product testing and safety. Lakeshore maintains the highest quality standards. With [NGC's Testing and Compliance](#) capabilities, Lakeshore can easily manage all aspects of product testing, including compliance with the requirements of the Consumer Products Safety Improvement Act (CPSIA).

“Lakeshore Learning has built our business by delivering the highest quality products for children and families, and we believe that NGC's PLM software can help us build upon that tradition of excellence,” said Bo Kaplan, CEO, Lakeshore Learning Materials. “The local support and service we're getting through NGC's Los Angeles office is a huge plus for us, too, and should help ensure a successful PLM implementation.”

 [Click here to return to Contents](#)

More Businesses Run on SolidWorks and Enterprise PDM

23 March 2011

Focus on time-to-market, profitability, and quality improvement is pressuring product design teams to work more collaboratively around the world. That's why SolidWorks® software customers consistently choose [SolidWorks Enterprise PDM software](#) to manage the vast amount of electronic data typical of their engineering projects.

“Product development is not a solo enterprise,” said Markus Neff, vice president supply chain management of [SWAROVSKI OPTIK](#), which recently purchased SolidWorks Enterprise PDM. “We need to coordinate design activities among internal staff, global partners, and vendors. We need to drive product standardization and reuse of approved designs whenever possible. And even as we share our data, we need to keep it secure. We're already seeing quicker time to market, higher productivity, and improved quality with SolidWorks Enterprise PDM.”

Based in Absam, Tirol, Austria, SWAROVSKI OPTIK is a maker of high-performance binoculars, telescopes, rifle scopes, camera adapters, tripods, and more. The company says it helps customers “see the unseen.”

SolidWorks Enterprise PDM is a design and engineering collaboration solution consisting of a central, indexed repository of design data plus tools for secure information sharing. Many prominent organizations have invested in SolidWorks Enterprise PDM to support:

Cost-efficient reuse of designs through powerful search across hundreds of file types, including major CAD, Microsoft, and image formats;

[Oceaneering International, Inc.](#)'s *Deepwater Technical Solutions* division has cut time to market by 50 percent through greater design reuse, tighter revision control, automated workflows, and dramatically improved design search capabilities.

CIMdata PLM Industry Summary

Automation and customization of processes, workflows, and electronic bills of material (BOMs);

[TigerCat Industries](#) has significantly increased productivity by providing personnel in departments such as manufacturing planning, assembly, purchasing, sales, and technical publications with access to its product data vault, which integrates data with facilities in Canada and Sweden.

Larger-scale productivity for large design projects;

[F.L. Smidth & Co. A/S](#), a leading builder of cement plants and equipment, installed 400 seats of SolidWorks EPDM software to support its SolidWorks users worldwide. It experienced a reduction in its equipment engineering effort of as much as 30 percent.

Improved collaboration with global offices through fast, secure remote access for external partners;

[Inertia Engineering + Design Inc.](#) implemented a Web-enabled version of SolidWorks Enterprise PDM software to unite six entities working on a zero-emissions courier truck, helping reduce delivery time by 30 to 40 percent.

Compliance controls through automatic workflow and audit trail and integration with popular reporting tools;

[Taylor-Deal Aviation \(TDA\), LLC](#), has streamlined design approvals by using automatically generated emails and electronic signatures that link approvals directly to the actual population of title blocks in design drawings. Approved signatures are added to title blocks and updated at each revision.

Rapid deployment, in less than five days, with Quick Start program.

TDA had SolidWorks Enterprise PDM software installed and connected to its Microsoft® SQL Server® platform in a couple of hours, significantly faster than other systems company personnel had experienced. Ease of implementation and administration are critically important to the success of a small, growing company. TDA cites the software's unique Windows® Explorer interface as pivotal to reducing training demands and driving user acceptance.

For more information, see these [product data management white papers](#).

 [Click here to return to Contents](#)

MSC Software's MD Adams was Selected for the Development of NASA Mars Exploration Rover

22 March 2011

MSC Software announced that Washington University in St. Louis/Jet Propulsion Laboratory (JPL)/Massachusetts Institute of Technology (MIT) has chosen [MD Adams](#) to develop a multi-element dynamic model of the NASA Mars Exploration Rover, Opportunity, and its interactions with soil and bedrock while driving over realistic terrain models.

The model, named Artemis, includes both track and cross-track wheel stresses and torques as the wheels interact with terrain elements and sink into deformable soils. A single wheel model was also developed to better understand wheel-terrain interactions before simulating Opportunity's full six wheel drive system and complex rocker-bogie suspension system. The model is being validated with single wheel experiments and "Mars Yard" data using an engineering model of the rover driving over various terrains to simulate flight telemetry.

Opportunity Mars flight data are also being examined and compared to model results. Results examined

CIMdata PLM Industry Summary

include ripple crossing experiments in Meridiani Planum in which wheel sinking approached 5 cm and slippage 58%; hill climbing on bedrock thinly covered with soils, and skidding encountered when Opportunity drives down a soil-covered hill. The intent is to have a validated model available to simulate drives across the sloping and soil covered terrains when Opportunity reaches the rim of the ancient 20 km wide Endeavour crater. The rim exposes rocks older than any examined from the surface of Mars, and the steep, soil-covered slopes are expected to present mobility challenges.

Monte Carlo approaches will be used with MD Adams to simulate drives and path planning in order to choose the lowest risk way points to the ancient outcrops. The simulations will provide a new "tool" for selecting drive directions that minimize the probability of encountering conditions hazardous to Opportunity.

Professor Raymond Arvidson, Director of the Earth and Planetary Remote Sensing Laboratory at the Washington University in St. Louis says, "MD Adams has enabled us to move quickly in developing a fully dynamic model for the Opportunity rover with realistic wheel-soil interactions. The fully dynamic approach is the only way I can see for modeling actual telemetry from the rover during its drives, since there are six driving wheels and a complex suspension system that causes the wheel drive actuators to interact in non-intuitive ways to keep the rover on its course."

"We are very proud to be involved in such a cutting edge project such as Artemis," said David Yuen, Sr. VP of Americas Sales at MSC Software. "We are confident that our software and know-how will provide significant value to NASA and Professor Arvidson in the realization of Opportunity."

About Raymond E. Arvidson, Ph.D.

Raymond Ernst Arvidson, Ph.D. is recognized as a James S. McDonnell Distinguished University Professor at the Washington University in St. Louis. He holds a doctorate degree from Brown University and has authored several research publications on the topic of planetary geology. He is currently the Director of the Earth and Planetary Remote Sensing Laboratory, which is heavily involved in several integral aspects of NASA's planetary exploration endeavors such as developing science objectives and plans for missions, participating in mission operations and data analysis, and archiving and distributing data relevant to characterizing and understanding planetary surfaces and interiors. For more information, visit: Earth and Planetary Remote Sensing Laboratory at <http://wufs.wustl.edu/eprsl/> and Planetary Data System Geosciences Node at <http://pds-geosciences.wustl.edu/>.

 [Click here to return to Contents](#)

Scientific Research Leader CERN Relies on Cadence Services to Provide an Advanced and Integrated Design Environment

22 March 2011

Cadence Design Systems, Inc. announced that CERN, the European Organization for Nuclear Research, is relying on Cadence® Services to create and maintain design environments for internal design teams as well as for design teams in a number of collaborating physics institutes throughout Europe and the United States. Cadence helps CERN by leveraging the Cadence Services teams and the organization's pre-existing solution components to create and maintain design environments focused on CERN's requirements. Key requirements include automating/developing and managing CERN's analog/mixed-signal design flow, automating the digital flow, process design kit (PDK) development and maintenance, support and training.

CIMdata PLM Industry Summary

"We were in the position to create a method to manage multiple designs from multiple design groups that collaborate with us," said Alessandro Marchioro, manager of the microelectronics group at CERN. "It is an immense task and very time consuming if you do not have a functional method in place. We turned to Cadence and were surprised that the offering of the Cadence Services group was exactly what we were looking for. To outsource the creating and maintaining of the design environment has saved us a lot of time and resources. We are very pleased with the work and support provided by the Cadence Services team, which has become a member of our own team."

"The number of successful design submissions from CERN and our collaborating institutes has tripled in the last two years, reflecting the effect of Cadence Services on the designers' productivity," said Kostas Kloukinas, microelectronics engineer at CERN. "Streamlined design methodology, customized training courses and ad-hoc design services have boosted productivity of the CERN microelectronics CAD support team."

Cadence Services help customer design teams maximize their productivity. The Cadence Services experts become part of the customer's design team, ensuring that Cadence technology is applied in the most beneficial way to achieve the customer's business -- and in this case scientific research goals. In addition to local support, a secure collaboration infrastructure ensures efficient and real-time remote collaboration with Cadence design experts. One of the key deliveries from the Cadence Services team was the new releases of CERN's IBM-based PDK that are also used by its partners, as well as the delivery of a specific CERN methodology kit, which addresses the analog/mixed-signal flow and its challenges.

"CERN is a perfect example of how Cadence Services can increase efficiency and meet expectations toward quality and maintainability," said Wolfgang Stronski, marketing director for Europe at Cadence. "Sharing its technical know-how, the Cadence team has become part of CERN's development team and can align with their objectives."

The CERN physics department is deploying the Cadence analog and digital end-to-end solutions as well as the Cadence verification and Allegro PCB solutions throughout the support of its CERN IT department. By adopting Silicon Realization EDA solutions from Cadence, CERN increases designer productivity.

 [Click here to return to Contents](#)

Wilocity Tapes-Out Multi-Gigabit Wireless Communication SoC Using Synopsys DesignWare IP

22 March 2011

Synopsys, Inc. announced that Wilocity has successfully taped-out its multi-gigabit Wireless Gigabit Alliance-compliant system-on-chip (SoC) utilizing Synopsys' broad portfolio of high-quality DesignWare® IP and assistance from Synopsys Professional Services. The DesignWare IP used in the SoC included PCI Express, embedded memories and logic libraries. Wilocity's SoC is based on the Wireless Gigabit Alliance (WiGig) and IEEE802.11ad draft specifications, enabling multi-gigabit wireless for a wide range of applications, from I/O to networking to video.

By leveraging the breadth of Synopsys' tools, DesignWare IP solutions and expertise from Synopsys Professional Services, Wilocity was able to reduce power consumption in some of the more complex arithmetic clusters by approximately 50 percent, increase performance by 65 percent and improve utilization by up to 70 percent compared to their previous design executed with a competitive solution.

"As consumers demand greater mobility, device manufacturers are requiring advanced mobile computing platforms that enable them to deliver thin and light devices without sacrificing performance and functionality," said Ido Naishtein, director of physical design at Wilocity. "Wilocity's use of proven DesignWare IP and close collaboration with Synopsys Professional Services has enabled us to successfully produce multi-gigabit wireless chips that are optimized for today's mobile devices."

Working in close cooperation, Wilocity and Synopsys designers made significant improvements in the architecture, partitioning and algorithm design. During the implementation phase, Wilocity leveraged tools from Synopsys' Galaxy™ Implementation Platform and the physical design experience of Synopsys Professional Services consultants to help them achieve their aggressive design targets and deliver a successful tape-out.

 [Click here to return to Contents](#)

Product News

Accept Corporation Improves Social Ideation, Strategic Planning and Agile Execution; Announces Accept360™ Spring 2011 Release

22 March 2011

News Facts

Accept Corporation introduces a set of new capabilities in Accept360. New features enhance collaboration with internal and external stakeholders, while bolstering Agile tools for productivity, resource management and integration with popular third-party enterprise applications including Oracle® CRM On Demand.

New features in the Accept360 Spring 2011 Release include:

- **Improved Agile Taskboard** delivers real-time operational planning for fast-paced resource optimization and capacity planning. The expanded Accept360 Agile Taskboard provides a compact view of tasks and user stories to improve sprint management and daily scrum planning.
- **Advanced resource management** capabilities help executives and product decision makers make better, faster decisions about their product investments and resources. New features in the Spring 2011 Release allow users to define organizational reporting structures and hierarchies for both individuals and teams to optimize resource allocation and focus them on the highest priorities.
- **Integration with Tasktop** provides users with direct access to Accept360 through Eclipse or Visual Studio environments providing unparalleled project management capabilities and enabling developers to take advantage of Accept360's single source of truth for development tasks with the familiar look and feel of their favorite development tools.
- **Integration with Oracle CRM On Demand** Ideation capabilities from the Accept360 Ideas module are embedded throughout Oracle CRM On Demand, transforming it into a community-based, social CRM system that improves a company's ability to capture and prioritize customer feedback on its products. Sales, marketing and product management benefit from a streamlined process for managing critical customer ideas and feedback to

CIMdata PLM Industry Summary

achieve a true full 360 degree view of the customer. The integration of Accept360 Ideas with Oracle CRM on Demand has achieved the Oracle Validated Integration status from the Oracle Partner Network (OPN) and is also available for Oracle PRM On Demand."

The Accept360 integrated innovation management suite serves as a single system of record that captures enhancement requests and new product ideas from multiple internal and external constituents, prioritizes product portfolio investments and translates them into requirements that are developed into new features and products with full cross-enterprise visibility and traceability across ideation, portfolio planning and execution.

Accept Corporation's customers include firms such as Avira, Cadence Design Systems, Activant Solutions, Ultimate Software, Landis+Gyr, Symantec and Alcatel-Lucent among others.

Join Cadence on a webinar at <http://www.accept360.com/Spring2011> on March 30, 2011 at 10:00am PT for more details on the Accept360 Spring 2011 Release.

Supporting Resources

- Webinar on the details of Accept360 Spring 2011 Release at <http://www.accept360.com/spring2011>
- Accept Corporation information at <http://www.accept360.com>
- Accept360 product information at <http://www.accept360.com/solutions>
- Accept360 customer cases studies at <http://www.accept360.com/resources/accept-corporation-customer-stories/>
- Ideation for Oracle CRM On Demand product information at <http://www.accept360.com/solutions/accept360-Oracle-CRM/>

 [Click here to return to Contents](#)

Allplan 2011 Online Initiative/pilot project started: Müller + Huber is the first customer to use the Web-based CAD

22 March 2011

After a successful test period, Nemetschek Allplan is now implementing the pilot project phase for the online version of Allplan 2011. Employees at the Müller + Huber architect's office (Oberkirch, Germany) have started working with the Web-based CAD software and are making their initial assessments. The pilot project is part of the Allplan 2011 Online Initiative. The objective is to provide cloud solutions that support architects and civil engineers in their work and enable them to optimize their business processes.

Flexible CAD architecture for architects and civil engineers: Nemetschek Allplan 2011 Online combines tried-and tested applications with the latest technology. Customers can now access Allplan CAD functionality via the Internet and enjoy many benefits. These include savings in total operating costs through outsourced software infrastructure and services, as well as providing a time-independent and location-independent working environment. The use of mobile devices brings significant benefits in the area of construction site management: This means designers can work in construction site containers just as effectively as they would in the office – without endangering valuable hardware.

"We are very pleased that Allplan functionality is now available online – this can only be good for us. It means our external employees can work continuously from their home offices, making a significant contribution to the success of a project," says Peter Falk, an employee at Müller + Huber.

This Web-based version of Allplan meets the highest security requirements and online communication is

CIMdata PLM Industry Summary

certificate-secured. Furthermore, each customer decides for themselves whether to save and manage their data locally or externally. The initial stage of the pilot project provides the Allplan 2011 functionalities to a virtual standalone workplace. There are plans to extend this in stage two, making it possible to work together on projects online via Workgroup Manager.

"Cloud computing fundamentally changes the AEC sector. We are working tirelessly to exploit this opportunity for our customers. Starting the pilot project for Allplan 2011 Online is an important step towards creating a Web-based CAD application," says Peter Mehlstäubler, General Manager of Nemetschek Allplan GmbH.

Customers who are interested in this project can log in [here](#) for further information on the Allplan 2011 Online Initiative.

 [Click here to return to Contents](#)

Aureus Pharma Changes its Name to Aureus Sciences (R) and Launches a New, Comprehensive Life Science Applications Webportal

20 January 2011

Aureus Pharma, a leading provider of knowledge management solutions to accelerate research and development in the life sciences industry, announced a change of name to Aureus Sciences, and the launch of a new, comprehensive application webportal to bring easier, faster and better access to its wide-range of advanced drug discovery tools and knowledge.

Aureus Sciences has built its new webportal around its knowledge platform, the culmination of ten years' intensive development. This analyzes, indexes and organizes critical chemical and bioactivity information of the druggable genome into best-in-class scientific databases for use by researchers involved in the drug discovery process.

The portal is designed to provide easier access and live experience to Aureus Sciences' highly sophisticated tools with several search and visualization options. It is unique in offering access to editorial content, the application server and community networks. The tools include applications and content, as well as help for users to understand the value of proposed solutions better and faster in a unique way. Medicinal chemists, pharmacologists, drug metabolism and pharmacokinetics scientists can navigate in the portal and conduct searches in Aureus' knowledge bases that contain more than 3 million biological activities.

Scientists can also filter results, such as compound activity, therapeutic target affinity, ADME (Absorption, Distribution, Metabolism and Excretion) and DDI (Drug Drug Interaction) properties. A unique feature of the portal is the display of results in a scientifically relevant context through a selection of "dashboards" that show detailed coverage of the topics in Aureus Sciences' knowledge space. Scientists can also filter results, such as compound activity, therapeutic target affinity, ADME (Absorption, Distribution, Metabolism and Excretion) and DDI (Drug Drug Interaction) properties. A unique feature of the portal is the display of results in a scientifically relevant context through a selection of "dashboards" that show detailed coverage of the topics in Aureus Sciences' knowledge space.

Further drill-down searches are also available free of charge to registered users for a limited period of time. Full access is available under a named user license agreement.

"The new Aureus-Sciences application portal is a major achievement for our company," said Dr Jason

CIMdata PLM Industry Summary

Theodosiou, President & CEO of Aureus Sciences. “For the first time we are offering a unique single-point access to all of our tools, applications, notes, scientific communications and technical documentation. This will make it substantially easier for our prospective customers to make use of our know-how, provide more comprehensive interaction and help them accelerate their research projects with data they can trust.”

In parallel with the launch of the new portal, the company will continue its operations under the new name, Aureus Sciences, as the company believes that it more accurately reflects its activities.

The new webportal is available at <http://www.aureus-sciences.com>.

 [Click here to return to Contents](#)

AutoCAD 2012 Products Deliver Flexibility and Accessibility

22 March 2011

Autodesk, Inc. announced the availability of the [AutoCAD 2012](#) software products and the [Autodesk Design Suite 2012](#) offering. The AutoCAD 2012 products and the Autodesk Design Suite 2012 series are AutoCAD-based design software that give users the flexibility to use [AutoCAD](#) in a variety of industries, and the accessibility to stay connected to their work no matter where they are. Equipped with new customization tools in discipline-specific versions, the AutoCAD 2012 products enable architects, engineers and other design professionals to explore ideas, document designs and collaborate with the trusted [DWG](#) technology. The 2012 AutoCAD products and Autodesk Design Suite 2012 series are now directly connected to the free* [AutoCAD WS web and mobile application](#).

Autodesk Design Suite 2012

The 2012 version of [Autodesk Design Suite](#) software provides architects and designers with the power of AutoCAD software, integrated with Autodesk’s design and visual communication software. Available in Standard, Premium and Ultimate editions, Autodesk Design Suite makes it easier for customers to conceptualize and design, share data across all design phases, explore alternatives, and visually communicate designs through compelling imagery, movies, and interactive presentations. The Autodesk Design Suite includes the 2012 versions of AutoCAD, [Autodesk SketchBook Designer](#), [Autodesk Mudbox](#) and [Autodesk Showcase](#) software. The Premium edition adds [Autodesk 3ds Max Design](#) visualization software for cinematic-quality rendering, 3D animation, and daylight analysis. The Ultimate edition includes all the products in the Premium edition and adds [Autodesk Alias Design](#) for greater concept design and surface modeling capabilities.

What’s New in AutoCAD 2012 Products

Users of the AutoCAD 2012 products gain several new productivity tools, helping them to slash drafting, detailing and design revision time. Parametric drawing tools automatically define persistent relationships between objects; extended associative array functionality enables creating an array of objects along a path; and PDF publish and import improvements help users clearly communicate with clients. More robust 3D modeling tools improve surfacing and conceptual design functionality, while enhanced design and documentation tools help users to read and edit multiple file formats, streamlining the documentation process to improve accuracy and accelerate design time. Other enhancements provide faster start times, faster commands and overall improved product performance, together with a premium graphics and visual experience.

CIMdata PLM Industry Summary

With direct access to AutoCAD WS web and mobile applications from within the AutoCAD 2012 products and the Autodesk Design Suite editions, users can view, edit and share their designs with anyone, anywhere from a web browser or mobile device. The AutoCAD WS mobile application is currently available for Apple iOS devices, including iPad and iPhone.

Highlights of the AutoCAD 2012 Products

[AutoCAD LT](#) drafting and detailing software is the professional choice for data compatibility, reliability and 2D drafting productivity. With AutoCAD LT 2012, incremental improvements, support for hardware acceleration and overall performance enhancements can add up to bigger productivity gains. Key new features include:

- **Associative array** can save valuable rework time when creating conceptual designs or finished documentation by establishing and maintaining a set of relationships between arrayed objects, such as windows on a building or trusses on a bridge.
- **Multifunctional grips** help make editing faster and easier by enabling direct manipulation. The power and efficiency of multifunctional grips has been extended to lines, arcs, elliptical arcs, dimensions and multileaders, in addition to polylines and hatch objects. Simply hover over a grip to see the relevant commands and options.
- **Sheet Set Manager** organizes drawing sheets, reduces steps to publish, automatically creates layout views, links sheet set information into title blocks and plot stamps, and performs tasks across a sheet set, so everything is in a convenient place.
- **AutoComplete commands** provide a list of matching command names, system variables, and command aliases when users type in the command line.

[AutoCAD 2012](#) includes all the improvements to AutoCAD LT 2012, along with new and expanded workflows for conceptual design, model documentation and reality capture. In addition to a wide range of timesaving enhancements, AutoCAD 2012 delivers tools for performing 3D design more easily, streamlining time-consuming documentation workflows and helping drive projects to completion faster.

Enhancements include:

- **Model documentation tools** enable users to import models from a wide variety of CAD applications (including Autodesk Inventor, Solidworks, CATIA, NX and Rhino), and quickly develop intelligent documentation for those designs.
- **Autodesk Inventor Fusion** software for 3D conceptual design is now included with AutoCAD 2012. Inventor Fusion unites the power and control of parametric, history-based modeling with the ease of use and productivity advantages of direct, history-free modeling. The integration between AutoCAD and Inventor Fusion facilitates faster transfers between the applications, as well as with other 3D CAD environments.
- **Point cloud support** for up to 2 billion points enables users to quickly visualize scanned objects directly in their modeling workspace, bringing 3D scans to life and helping to streamline time-consuming renovation and restoration projects.

[AutoCAD Architecture 2012](#) software now offers faster startup and drawing load times for more immediate access to tools and large drawing navigation. A new corner windows capability makes it easy to add a single window in the corner intersection of two walls.

[AutoCAD MEP 2012](#) mechanical, electrical, and plumbing software offers enhanced native productivity and utilities tools that make it easier to access dynamic and interactive 3D modeling for

CIMdata PLM Industry Summary

building system design. New Industry Foundation Classes (IFC) support from within AutoCAD MEP helps users manage and share data with others throughout the design process.

[AutoCAD Electrical 2012](#) control design software expands its support for international standards, and new tutorial material and an intuitive user interface makes it even easier to save time, reduce errors, and create innovative electrical control designs.

[AutoCAD Mechanical 2012](#) design and drafting software now enables editing 3D models from nearly any source with Inventor Fusion and intelligent drawing view creation with a new model documentation feature. It also includes enhanced bill of materials migration, performance and collaboration improvements designed to help make users more productive while allowing them to maintain existing workflows.

AutoCAD users now have access to product information and customer support through Autodesk's new Autodesk Exchange site (<http://exchange.autodesk.com>). The Autodesk Exchange site hosts training, tips, advanced techniques, expert advice and other tools about AutoCAD products, using the AutoCAD 2012 user interface, and more. This site will be the destination for all AutoCAD Help Content, helping users to be more productive with resources all in one place.

Availability

Product availability varies by country. Details and purchasing options are available at <http://www.autodesk.com/purchaseoptions>.

**Free products and services are subject to the terms and conditions of the end-user license agreement that accompanies them.*

 [Click here to return to Contents](#)

Autodesk Unveils 2012 Manufacturing Software Portfolio

22 March 2011

Autodesk, Inc. introduced its new [3D design](#) and engineering software portfolio for manufacturers, including the new [Autodesk Product Design Suite](#) that makes design, visualization and simulation software easier to adopt, use and maintain. The complete Autodesk [Digital Prototyping](#) software portfolio helps manufacturers to design and build better, more sustainable products, reduce development costs and get to market faster.

“No product design and development challenge is too complex to overcome when you combine the powerful 3D mechanical design capabilities of Autodesk Inventor together with world-leading Autodesk visualization and simulation software,” said Robert “Buzz” Kross, senior vice president, Manufacturing Industry Group at Autodesk. “Our customers need to create remarkable products more efficiently. The new Autodesk Product Design Suite makes it easier for manufacturers to adopt Digital Prototyping workflows to achieve this goal.”

New Autodesk Suites Deliver Digital Prototyping for Unbeatable Design Innovation and Quality

Autodesk Product Design Suite is a new, comprehensive and cost-effective design solution for creating compelling products. Containing Autodesk's design, visualization and simulation software for manufacturers, the new suite provides flexibility to innovate and more easily respond to changing business requirements from early concepts to detailed engineering and simulation. Autodesk Product

CIMdata PLM Industry Summary

Design Suite also provides significant cost savings and is easier to deploy, maintain and manage than stand-alone products.*

Autodesk offers three editions of the Product Design Suite:

- **Product Design Suite Standard** -- Foundational product design tools for conceptual design, intuitive 3D surface and solid modeling, drafting and presentations, featuring [AutoCAD Mechanical](#) with Inventor Fusion, [Autodesk Showcase](#), [Autodesk SketchBook Designer](#), [Autodesk Vault](#) and [Autodesk Mudbox](#) software.
- **Product Design Suite Premium** -- Optimized Digital Prototyping and visualization tools for maximum performance that features Standard edition tools along with [Autodesk Inventor](#) and [Autodesk 3ds Max Design](#) software.
- **Product Design Suite Ultimate** -- Advanced surfacing, simulation and tooling for unbeatable design quality, featuring the same tools as the Premium edition along with [Autodesk Inventor Professional](#) and [Autodesk Alias Design](#) software.

“Combining our Autodesk Inventor Professional products with the software powering Hollywood-quality imagery, movies and interactive presentations enables us to create visually impressive and dynamic engineering solutions for our design and engineering teams,” said Carl Maas, manager of CAD/engineering services at L-3 Power Paragon. “With the new Autodesk Product Design Suite, we can create, validate and communicate our digital designs with even greater confidence and shortened development time.”

Launched in 2010 and updated this year, [Autodesk Factory Design Suite 2012](#) is a factory layout and optimization solution that helps manufacturers make better layout decisions through the creation of a digital factory model, helping save time and money. It offers factory specific functionality in both [AutoCAD Architecture](#) and Autodesk Inventor, combined with [Autodesk Navisworks](#)’ visualization and analysis and Autodesk Vault to improve collaboration. New additions to the suite in 2012 include AutoCAD Mechanical for automating mechanical CAD tasks and 3ds Max Design and Showcase for enhancing communication and bids.

Changing the Game in Sustainable Product Design

As a result of the strategic partnership announced in Oct. 2010, Autodesk and Granta Design Ltd. have built new design methods into Autodesk Inventor 2012 software that help designers estimate a product’s environmental impact and make more sustainable design decisions. The new Eco Materials Adviser in Inventor 2012 addresses sustainable design requirements early in the design process — when it matters most — enabling manufacturers to choose materials that minimize environmental impact without compromising on cost and performance. Powered by Granta’s expert materials database and proven sustainable design methodology, Eco Materials Adviser helps guide material selection and generates eco-impact reports so engineers can record and communicate the benefits of their sustainable design decisions.

Autodesk Inventor Fusion Brings 3D Direct Modeling to Range of Autodesk Products

Autodesk Inventor Fusion makes its commercial debut following its technology preview on Autodesk Labs. It is now included at no extra cost as a companion application to Autodesk Alias Design and Alias Automotive, Autodesk Inventor, Autodesk Moldflow, Autodesk Simulation and AutoCAD products. Inventor Fusion provides 3D modeling ease-of-use and direct modeling for rapid design changes. It also unites direct and parametric workflows within a single digital model created in Autodesk Inventor.

CIMdata PLM Industry Summary

Along with the Autodesk Product Design Suite, each product in the Autodesk Manufacturing portfolio offers new capabilities, spanning conceptual design, engineering, manufacturing and technical documentation.

- [AutoCAD Electrical 2012](#) software expands its support for international standards and now allows electrical controls designers to view, edit and share their DWG files on web browsers or mobile devices through [AutoCAD WS](#).
- **AutoCAD Mechanical 2012** software now enables editing 3D models from any source with Inventor Fusion and intelligent drawing view creation with a new model documentation feature. Also new is mobile and web viewing and editing through AutoCAD WS, so mechanical engineers can spend more time innovating.
- **Autodesk 3ds Max Design 2012** visualization software enables you to demonstrate the operation of designs in real-world settings, providing seamless aggregation of CAD data and transforming digital prototypes into high-quality visuals with “push-button” rendering, cinematic-quality animation and effects and an extensive material and texture library.
- **Autodesk Alias 2012 products** — Alias Design, Alias Surface and Alias Automotive software — make it easier to create accurate 3D models with Class-A surfaces and feature improvements to the technical surfacing process with modeling tools that are dramatically easier to use.
- **Autodesk Inventor 2012** software provides easier ways to interact with 3D mechanical design data; new opportunities for sharing, accepting and updating CAD data regardless of source and complexity; and high-impact performance and productivity improvements for both users and IT departments.
- [Autodesk Inventor Publisher 2012](#) software makes it easy to create highly visual and interactive assembly instructions, operating procedures and technical documentation from 2D and 3D CAD data. Users can publish interactive, 3D instructions in multiple formats directly to iPhone, iPad, and iPod touch mobile devices.
- [Autodesk Moldflow 2012](#) software introduces new real-time injection-molding simulation functionality, enabling dynamic evaluation of a range of plastic part design alternatives in a fraction of the time it takes to perform a standard simulation, helping to pinpoint the best design more quickly.
- **Autodesk Showcase 2012** visualization software is a key element of the Product Design Suite, transforming CAD data into compelling imagery, movies, and interactive presentations to improve the design review process, secure internal buy-in and win competitive bids.
- [Autodesk Simulation 2012](#) software, previously known as Autodesk Algor Simulation, offers an all-new user interface as well as Autodesk Vault integration, introducing new revision management capabilities for easier management of design and engineering information.
- **Autodesk SketchBook Designer 2012** software provides digital sketching and illustration to enhance the creative process. Design professionals can export vector artwork from SketchBook Designer and bring it into Alias as curve data, transforming 2D concept sketches directly into 3D product designs.
- **Autodesk Vault 2012** product data management software gives workgroups across multiple locations more control over engineering data and documents from design through manufacturing, expanding its integration to additional Autodesk applications, including Navisworks, Inventor Publisher and Autodesk Simulation.

Availability

Product availability may vary by country. See details and purchasing options at <http://www.autodesk.com/purchaseoptions>.

 [Click here to return to Contents](#)

Autodesk Increases Power of 3D Design with 2012 Design and Creation Suites

22 March 2011

Autodesk, Inc. unveiled its 2012 portfolio of 3D design, engineering and entertainment software and an expanded family of design suites. The new suites will make it easier for customers across a wide range of industries to adopt and use a broader set of Autodesk's comprehensive and sophisticated design software. The suites will be available in convenient packages with a range of capabilities that bring together compatible sets of complementary products for entertainment, building, infrastructure, product and visual design that, when used together, help to manage data, workflow and process.

Autodesk 2012 Design and Creation Suites

The Autodesk family of design and creation suites offer greater access to industry-specific design tools in a convenient package and are more cost-effective and easier to install, deploy, and manage than individual products. Suites also make it easier to standardize on a single suite across multiple departments, which provides greater flexibility to innovate and more easily respond to changing business requirements. In addition, Suites can make it easier for customers to explore new products and technologies, and provide a consistent user experience, making it easier to learn and work with multiple Autodesk tools. The 2012 family of Autodesk Design Suites includes:

- **[Autodesk Design Suite 2012](#)** combines the power and flexibility of AutoCAD software with intuitive sketching, conceptual design, presentation, and visualization solutions so architects and product designers can create compelling designs, share data across all design phases and make visual communication an integral part of the design process. The foundation of the Autodesk Design Suite is [AutoCAD 2012](#) software, which has been updated with new and expanded workflows for conceptual design, model documentation and reality capture.
- **Autodesk Product Design Suite 2012** is a new, comprehensive and cost-effective design solution for creating compelling products. The suite features Autodesk's leading design authoring, visualization, and simulation software for manufacturers, including [Autodesk Inventor 2012](#) software, which debuts powerful new features for sustainable product design.
- **Autodesk Building Design Suite 2012** and **Autodesk Infrastructure Design Suite 2012** offer a comprehensive set of tools to help architects, engineers and planners address their workflow needs, from project design, visualization and simulation to documentation and construction. The Autodesk Building Design Suite features the [2012 Revit products](#), which offer new collaboration and construction modeling tools and support for point clouds to connect laser scanning directly into the BIM modeling process. The Autodesk Infrastructure Design Suite features [AutoCAD Civil 3D 2012](#), which helps speed transportation design with new roadway modeling tools and adds integrated storm and sanitary network analysis capabilities that take full advantage of the Civil 3D model.
- **[Autodesk Entertainment Creation Suite 2012](#)** extends the [Autodesk 3ds Max](#) or [Autodesk Maya](#) workflow with intuitive tools for sculpting and texture painting, real-time character animation and effects. 3ds Max 2012 delivers a new accelerated graphics core, mRigids for dynamic rigid-body simulations in the viewport and sculpting and painting enhancements. Maya 2012 provides

CIMdata PLM Industry Summary

enhancements to the viewport offering full-screen effects, editable motion trails for animation editing in the viewport and new simulation options.

Autodesk announced the 2012 versions of software for the building design, infrastructure and construction industries (see separate release), manufacturing (see separate release) AutoCAD products (see separate release) and media and entertainment ([see separate release](#)) in a [live webcast](#) that is now available for on-demand viewing at <http://www.autodesk.com/webcast>. Full details about the 2012 products are now available at <http://www.autodesk.com/>.

Availability

Product availability varies by country. Details and purchasing options are available at <http://www.autodesk.com/purchaseoptions>.

 [Click here to return to Contents](#)

Autodesk 2012 AEC Software Portfolio Expands Value of Building Information Modeling

22 March 2011

Autodesk, Inc. announced its 2012 portfolio of software for the AEC industry. The updated portfolio supports the [Building Information Modeling](#) (BIM) process by offering comprehensive software solutions to help architects, engineers, planners, contractors, facility managers and owners in the building and infrastructure industries meet today's business challenges. In addition to new and updated software products, Autodesk announced two new design suites for building design, construction and infrastructure professionals.

“The value that Autodesk BIM solutions bring to the industry begins with the information in Building Information Modeling,” said Jay Bhatt, senior vice president, AEC Solutions Division, Autodesk. “Building Information Modeling is about more than just the model, it's a process that helps our customers use the information inherent in the model to design, visualize, analyze and simulate a project. The motivation behind the 2012 portfolio is to help our customers get more from that rich information to realize real business results, including quality, efficiency, productivity and sustainability.”

Building Information Modeling (BIM) is an intelligent model-based process that provides insight for creating and managing building and infrastructure projects faster, more economically, and with less environmental impact. Autodesk BIM solutions for the building lifecycle, from design to construction and through operations and maintenance, are based on intelligent models created with Autodesk Revit software, including solutions for architecture, structural engineering, and mechanical, electrical, and plumbing (MEP) engineering. Autodesk BIM solutions for the infrastructure lifecycle are based on intelligent models created with [AutoCAD Civil 3D](#) software for civil engineering design and AutoCAD Map 3D software for infrastructure planning. Helping to expand the benefits of BIM is a powerful set of complementary solutions, including [Autodesk Navisworks](#) and [Autodesk 3ds Max Design](#) to visualize and simulate projects virtually, and [AutoCAD](#) software for documentation and professional drafting. Autodesk [Vault](#) Collaboration AEC helps project teams manage and track digital models; secure, organize, and access project documentation; and facilitate team collaboration.

New Building and Infrastructure Design Suites for Enhanced Workflows

The new Autodesk Building Design Suite and Autodesk Infrastructure Design Suite provide a comprehensive set of tools to help users address a variety of workflow needs, from project design, visualization and simulation to documentation and construction. The visualization technology offered by

CIMdata PLM Industry Summary

the suites helps improve efficiency by making visualization an integral part of the entire design process. Each suite offers a cost-effective way to respond to changing business requirements, providing access to the latest design and visualization tools through a single, economical and convenient purchase.

2012 Products for Infrastructure

The new Autodesk Infrastructure Design Suite will be available later this year in three editions: Standard, Premium and Ultimate. The Standard edition includes [AutoCAD Map 3D 2012](#), Autodesk Navisworks Simulate 2012 and AutoCAD. The Premium edition adds AutoCAD Civil 3D 2012 and Autodesk 3ds Max Design. The Ultimate edition includes all of the software in the Premium edition, with [Autodesk Navisworks Manage 2012](#) instead of Autodesk Navisworks Simulate 2012.

Autodesk's 2012 software products for transportation, water, land, and energy infrastructure projects help civil engineering professionals deliver more innovative project solutions by enabling BIM processes. New or updated products include:

- AutoCAD Civil 3D 2012 helps civil engineering teams deliver more innovative project solutions. It includes transportation design enhancements that help speed corridor modeling and provide more control over roadway alignment layout. Extended visualization and analysis capabilities, such as the inclusion of Autodesk Storm and Sanitary Analysis 2012 software, help civil engineers more efficiently explore design options and better analyze project performance.
- AutoCAD Map 3D 2012 now offers comprehensive, customizable industry models (previously only available in [Autodesk Topobase Client](#)) for the gas, water, wastewater, and electric industries. The models provide structure to complex data, help users enforce quality standards, and improve the value of information for planning and managing infrastructure assets. In addition, users now have direct access to Esri ArcGIS personal and file-based geodatabases, in addition to ArcSDE geodatabases.
- New Autodesk Infrastructure Map Server 2012 delivers all the features and functionality of the Autodesk MapGuide Enterprise and Autodesk Topobase Web products, and adds a new mobile viewer extension and GeoREST extension.

2012 Products for Building Design and Construction

The new Autodesk Building Design Suite is available in three editions: Standard, Premium and Ultimate. All three editions include AutoCAD 2012, [AutoCAD Architecture 2012](#), [AutoCAD MEP 2012](#), [AutoCAD Structural Detailing 2012](#), [Autodesk Showcase 2012](#) and [Autodesk SketchBook Designer 2012](#). The Premium edition adds [Autodesk Revit Architecture 2012](#), [Autodesk Revit MEP 2012](#), [Autodesk Revit Structure 2012](#) and Autodesk 3ds Max Design 2012. The Ultimate edition adds Autodesk Navisworks Manage 2012, [Autodesk Quantity Takeoff 2012](#) and [Autodesk Inventor 2012](#).

Autodesk software products for building design and construction support a more complete BIM workflow, and includes Autodesk Revit Architecture 2012, Autodesk Revit MEP 2012, Autodesk Revit Structure 2012 and [Autodesk Navisworks 2012](#). Enhanced with a new point cloud tool, the Revit Family of software can now connect directly to laser scans as a part of the BIM process. Revit-based products are now Citrix XenApp6 ready*, supporting working from remote locations using a single server, and Revit Server to support collaboration on shared Revit models across a wide-area network (WAN). Revit Architecture 2012 and Revit Structure 2012 offer a new construction modeling tool to help users derive better construction insight from design models. Improved conceptual energy analysis tools** for Revit Architecture 2012 and Revit MEP 2012 help support sustainable design decision-making early in the design process.

CIMdata PLM Industry Summary

Additional AEC software-specific updates include:

- Autodesk Revit Architecture 2012 enables users to create material appearance libraries to help standardize materials across projects and improve collaboration within the project team. Visualization enhancements give users the ability to display edges with more realistic views and shadows in consistent colors mode.
- Autodesk Revit Structure 2012 offers analytical model enhancements to help users create and manage the structural analytical model, enabling greater control and better consistency with the structural physical model. Reinforcement enhancements help users more easily define and visualize concrete reinforcement.
- Autodesk Revit MEP 2012 now enables users create custom systems, assign systems to ducts/pipes without requiring them to be connected to equipment, assign color and linetype by system without filters, as well as see total electrical load, air flow or pipe flow at any point within the system. New placeholders give users the ability to create conceptual level single line ducts and pipes early in the design process, and later convert them to 3D geometry.
- Autodesk Navisworks 2012 accelerates BIM project review through integration, analysis, and communication enhancements. File interoperability improvements help boost productivity by supporting workflows between the latest enhancements in Autodesk Revit products and third-party applications. New user interface and API (application programming interface) for the Timeliner tool provide greater control and flexibility when working with 4D simulations. New multi-sheet 2D DWF support enables users to open, review and explore 2D data sets alongside 3D models.
- The 2012 AutoCAD Family adds a more robust set of 3D modeling tools that enable improved surfacing and conceptual design functionality, expanded point cloud support and direct access to the AutoCAD WS application via the AutoCAD user interface to enable users to view, edit and share DWG drawings through a web browser or mobile device. Other enhancements provide faster start times, faster commands and overall improved product performance, and a premium graphics and visual experience. Product-specific updates include:
 - AutoCAD Architecture 2012 now offers faster startup and drawing load times for more immediate access to tools and large drawing navigation. A new corner windows capability makes it easy to add a single window in the corner intersection of two walls.
 - AutoCAD MEP 2012 offers enhanced native productivity and utilities tools that make it easier to access dynamic and interactive 3D modeling for building system design. New Industry Foundation Classes (IFC) support from within AutoCAD MEP helps users manage and share data with others throughout the design process.
 - AutoCAD Structural Detailing 2012 now offers the ability to display solid objects on structural drawings that include items typically supported by a steel structure. Users now also have the ability to present reinforcement and reinforced concrete element geometry in 3D views.

Additional 2012 Autodesk AEC Products

Autodesk visualization technology (available as individual products or through the new Autodesk Building Design Suite and Autodesk Infrastructure Design Suite) helps users win more business through effective communication of design intent. Autodesk Showcase 2012 3D presentation and rendering software helps users to quickly and easily transform AutoCAD and Revit files into compelling imagery, movies, and interactive design presentations. Autodesk 3ds Max Design 2012 visualization software delivers powerful new rendering toolsets, accelerated iterative workflows, and enhanced interoperability to increase productivity. Additional new or updated 2012 Autodesk AEC products announced include [Autodesk Buzzsaw 2012](#), Autodesk Quantity Takeoff 2012, and [Autodesk Constructware 2012](#).

Availability

Product availability varies by country. Details and purchasing options are available at <http://www.autodesk.com/purchaseoptions>.

* Additional Disclaimer: The Citrix application is network-based, and performance of Autodesk Citrix Ready Applications may vary with network performance. The software does not include the Citrix application, nor does Autodesk provide direct support for issues with the Citrix application. Users should contact Citrix directly with questions related to procurement and operation of the Citrix application.

**Web-based energy analysis is only available to Autodesk Subscription customers of Revit Architecture and Revit MEP, or an Autodesk suite containing Revit Architecture or Revit MEP, during the term of their subscription.

 [Click here to return to Contents](#)

Bluebeam Software Launches New Bluebeam PDF Revu eXtreme to Supercharge PDF-Based Communication and Workflows for Enterprises

22 March 2011

Bluebeam Software announced the launch of its new [Bluebeam PDF Revu eXtreme](#), the latest and most advanced edition of its [PDF platform technologies](#) that provides a more powerful digital workflow solution to create, markup, edit and manage PDF files in a paperless enterprise environment. Unveiled today at [info360](#), the Association for Information and Image Management Expo in Washington, D.C., Revu eXtreme is a more flexible and efficient alternative to Adobe® Acrobat to streamline paper-free business processes, collaboration and efficiency for enterprises and PDF power users.

"Revu eXtreme is a new edition of our award-winning PDF platform technology that builds upon the power, flexibility and ease of use we've been providing to the architectural, engineering and construction industry for years," said Bluebeam Software CEO Richard Lee. "Our users love Revu for its intuitive interface and innovative technologies they can't find anywhere else such as the patented Tool Chest™ that remembers and stores custom PDF markups and MultiView™ for viewing up to 16 PDFs simultaneously on multiple monitors. With Revu eXtreme, we're adding even more advanced functionality to meet the growing demands of enterprises and advanced users by providing them with a PDF editing solution that is unlike anything else on the market."

New OCR Capabilities

For many enterprises, one of the challenges of implementing paperless workflows is incorporating printed documents into the process. Revu provides Optical Character Recognition (OCR) capabilities to transform scanned PDF documents into text searchable and selectable files - making them incredibly useful and powerful digital documents. Configuration options include the ability to correct skew, ignore vector content, and minimize file size. To save even more time, eXtreme offers batch processing to apply OCR to several files - meaning an entire library of scanned PDFs can be processed at once.

Fillable Forms Creation

Need to create a fillable form from an existing PDF document? eXtreme lets users convert static documents into fillable forms and easily add text fields, buttons, check and list boxes and digital

CIMdata PLM Industry Summary

signature fields with precision. From within a panel in the Revu interface, users simply select the form field type they want and place it onto the PDF as Revu automatically helps users align with existing form fields for a professional appearance. Form fields can be designed to automatically calculate values, validate entries and other actions by definition. Users can even write custom JavaScript processes to automate form processing.

Custom Scripting

For enhanced time savings and efficiency, eXtreme supports custom scripting to automate multiple markup, editing and workflow processes so they can be applied with a single click. More than 25 scripting options are included to automatically stamp, merge and secure files, rotate pages, add headers or footers, and do more to save time. Newly created scripting icons can be saved to the toolbar for one-click access and stored to a user profile or even shared with colleagues to streamline document processing in a collaborative environment.

In addition to these advanced features, eXtreme also wraps in all the newest upgrades found in Revu 9, including:

3D PDF viewing capability that lets users navigate through complex models on screen and rotate, spin and zoom to gain a dynamic view of the project. It also provides the ability to isolate and view specific elements, make transparent layers or even save specific views in the document so that project collaborators can have the same perspective.

VisualSearch™, a Revu exclusive, that enables users to search for all instances of a specific visual element or symbol across the current document, all open documents, recent documents, or files in a specific folder. eXtreme even allows users to simultaneously apply markups to all results instantly, eliminating a time-consuming manual process.

PDF to MS Office® document conversion that seamlessly converts PDF files back to their native MS Office file formats, Word, Excel and PowerPoint, for editing, as well as HTML for online use and search-ability.

Bluebeam representatives will offer live demonstrations of Revu eXtreme at **Booth #1225** throughout AIIM's [info360](#) March 21-24 at the Walter E. Washington Convention Center in the nation's capital.

Bluebeam PDF Revu eXtreme retails for \$299 per seat with volume discounts available for multi-seat purchases. Bluebeam products are sold direct and through a global network of resellers. For more information about Bluebeam PDF Revu eXtreme, visit www.bluebeam.com.



[Click here to return to Contents](#)

Bluebeam PDF Revu 9 Launches with Enhanced Usability, Advanced Features to Streamline PDF-Based Digital Workflows the Web-based CAD

22 March 2011

Bluebeam Software announced the launch of its new [Bluebeam PDF Revu 9](#), the latest, fully-loaded version of its PDF platform technologies that provides a smart, simple solution to create, markup, edit and manage PDF files. Revu 9 takes the quest for paperless construction projects to a whole new level with more than 30 enhanced features to streamline PDF markup, viewing, processing, collaboration and sharing.

Revu 9's new 3D PDF viewing capability enables users to navigate through complex models on screen

CIMdata PLM Industry Summary

and rotate, spin and zoom to gain a dynamic view of the project. Using just a mouse, users can refine their perspective and vantage point, as well as isolate and view various specific elements, make transparent layers to drill down into masked details and even save these specific views in the document so that project collaborators can have the same perspective. Advanced animation features also make it easy to cycle through all 3D views within the document.

The exclusive new VisualSearch™ function adds a new dimension to document search capabilities over simple text-only search. Users simply highlight a specific visual element or symbol to find and Revu 9 searches for instances of that element across the current document, all open documents, recent documents or files in a specific folder. Even better, users can instantly apply markups and hyperlinks simultaneously to all identified VisualSearch results, eliminating a time-consuming manual process.

Bluebeam PDF Revu 9 also adds a highly-requested function to its takeoff tools - area cutouts. This feature is ideal for design and construction professionals to account for room obstructions in area measurements and create more accurate estimates.

Improved foreign language support has also been baked in to tear down communication barriers and enhance global collaboration. New Unicode text support enables users to add text-based markups in any left-to-right reading language. Additionally, a markup translation feature instantly translates markups to more than 55 languages. Users can even dictate their markups verbally through a microphone while Revu 9 converts them to text markups on any PDF.

The latest version also enables users to convert PDF files back to their original native MS Office® file formats with export capability to Word, Excel and PowerPoint, as well as HTML for online use and search-ability. The MultiView™ Extended capability enhances productivity by allowing users to run multiple sessions of Revu concurrently and move document tabs dynamically between the sessions. Tabs can also be dragged and dropped to an attached second monitor for expanded viewing and more efficient review. When it's time for a clean slate, the new Erase Content option enables users to delete all unwanted text and images by simply selecting the desired area and clearing it all with a single click. For better issue tracking, Revu 9 has powered up the integrated Markups list by enabling users to assign custom statuses to markups. Statuses can even be assigned text and color properties that change depending on the selected state.

"Even with all these incredible new features and capabilities in Revu 9, we know that some users are craving more tools to push the limits of electronic workflows," Lee said. "For these PDF power users, we are introducing Bluebeam PDF Revu eXtreme™, a new edition of Revu with advanced functionality to satisfy tech-savvy professionals."

Revu 9 eXtreme adds optical character recognition (OCR) for scanning and converting paper documents to text searchable and selectable PDFs, PDF form creation capabilities, document redaction capabilities for added security and powerful scripting capabilities for automated batch-processing of multi-step desktop functions for even greater efficiency and time savings.

Bluebeam PDF Revu 9 is available in three editions - Revu Standard for general CAD and Office users (\$179 per seat), Revu CAD for AutoCAD®, Revit® and SolidWorks® users (\$239 per seat) and Revu eXtreme for PDF power users (\$299 per seat). Volume discounted pricing is available for multi-seat purchases. Bluebeam Software products are sold direct and through a global network of resellers. For more information about Bluebeam PDF Revu 9, visit www.bluebeam.com.



[Click here to return to Contents](#)

CIMdata PLM Industry Summary

CadFaster|Collaborate™ Cloud Software for the Real-time Annotation and Co-viewing of 3D CAD Models is Now Available Globally

21 March 2011

CadFaster, Inc. (<http://www.cadfaster.com/>) announced the worldwide availability of its CadFaster|Collaborate™ software tool for Architecture, Engineering and Construction (AEC), mechanical and plant design firms seeking the fast reading and smooth handling of complex and large CAD data files. CadFaster|Collaborate is distinguished by its ability to allow up to 10 people to distribute, annotate, and co-view diverse 3D designs in real-time using portable executable files that includes the fastest and most efficient 3D visualization technology in the market.

CadFaster|Collaborate for Autodesk Revit and Cadfaster|Collaborate for SolidWorks can now be purchased and downloaded through two authorized high quality resellers — Novedge.com (<http://bit.ly/frCQWP>) in the U.S., Jigsaw in the UK (<http://bit.ly/ewjIDZ>), or directly from CadFaster's newly launched online store for European customers (<http://www.cadfaster.com/>). The price for a one year, one user subscription is USA \$799, UK £499 and EU €599.

CadFaster|Collaborate will be released for ArchiCAD and Bentley Architecture in Q2 2011 and all major CAD platforms within the next 12 months. Already demonstrated on both the iPad and iPhone, CadFaster|Collaborate for iOS is coming soon.

 [Click here to return to Contents](#)

CIDEON Integrates CATIA V6 in SAP PLM

March 2011

Since CIDEON Software introduced SAP PLM Integration for AutoCAD onto the market as a first standard integration in SAP PLM in the 1990s, the product and solution range has been consistently increasing. With CATIA V6, the range of CAD direct integration for SAP PLM has now increased by another leading CAD system. This will also lead to an increase in the current number of 35,000 users. This solution is being spearheaded by the staff in the new Leinfelden-Echterdingen branch near Stuttgart and in close cooperation with the other SAP PLM CAD integration teams at CIDEON Software. The many years of experience of the new colleagues in the CATIA and SAP environment and the use of synergy effects and longstanding experience ensure that an integration with an optimal quality and a maximal range of functions is also being created here.

To synchronize the data between CATIA V6 and SAP PLM, CIDEON Software developed a server solution with the PLM synchronisation server to link CATIA V6 and SAP that was optimised with regard to stability and data security. At the same time, CIDEON Software also provides the link from CATIA V5 in the environment of the CIDEON Conversion Engine for SAP, the CIDEON Collaboration solution and from Import PDM / PLM for SAP.

According to Lenz Finster, managing director of CIDEON Software, “the development of the CIDEON Integration CATIA V6 for SAP PLM will help us to continue on our growth course after a very successful business year in 2010 and to continue to extend our market position in all of our business divisions.” A company growth rate of more than 35% in 2010 has helped to increase the consolidated turnover of CIDEON AG to an all-time high of 45.1 million Euro.

Lenz Finster again emphasized that “during the development of the sixth direct integration, our customers can also rely on our know how and our many years of experience in developing software and

integrating systems.”

 [Click here to return to Contents](#)

Delcam Offers Cost-Effective Reverse Engineering with PowerSHAPE Pro

22 March 2011

Delcam has taken reverse engineering software to a new level of affordability by combining the functionality from its CopyCAD reverse engineering package into the 2011 release of its PowerSHAPE Pro CAD system. This extended range of functionality, which will be supplied automatically to all users on maintenance, is ideal both for the creation of CAD models from all types of digitised scan data, and for the re-engineering of existing products into improved or customised designs. The complete package is priced at about one third of the cost of current reverse engineering systems with similar functionality. Full details on the new release can be seen on Delcam TV at <http://www.delcam.tv/delcam-video.asp?VideoId=142>.

PowerSHAPE Pro is still the only CAD software to offer “Tribrid Modelling” -; the addition of triangle modelling to the combination of surface and solid modelling that is offered in many other CAD packages as “hybrid modelling”. Having all the different modelling techniques in a single package reduces the need to transfer data between multiple programs and so streamlines the whole product development process. The extended range of functionality, for example, the ability to undertake Boolean operations between triangle meshes and solids or surfaces, makes PowerSHAPE Pro ideal for the re-engineering of existing products into improved designs or for creating bespoke products, for example, for individual patients in the healthcare industry.

With Tribrid Modelling, PowerSHAPE Pro offers a flexible and pragmatic approach that allows the design intent to be captured from the physical model rather than simply producing a duplicate digital representation. This is particularly important when generating models from items that might be worn or damaged, and in cases where the quality of the initial data is less than perfect. Three techniques can be used to convert the scan data into the CAD model, based on key points, surface patches or surface sketching.

The first technique is most suitable when creating simple geometric entities. PowerSHAPE Pro can use the positions of key points to create arcs and lines, and then convert them into the full range of prismatic solids. This approach will usually be much quicker than methods based on a complete scan of the object. To produce simpler geometry, for example, surfaces that are perfectly flat or cylinders that are perfectly round, might otherwise require considerable editing of the triangle file to compensate for any defects in the physical part or any errors in the scan data collected.

For more complex shapes, PowerSHAPE Pro now contains all the sculpting and model repair tools previously available in CopyCAD to edit triangle files. These tools allow uneven surfaces to be smoothed out, gaps in the data to be filled, and extra points to be added in areas where only sparse data has been collected.

The edited triangle data can then be converted into the component features. The user has total control over the way the complete data set is divided into the various elements. Each area can then be converted into CAD data by generating a network of curves and then projecting it onto the mesh of triangles. A single surface is generated within the complete set of curves, using PowerSHAPE’s unique Smart Surfacing functionality to analyse the curves and determine automatically the most appropriate way to create the surface. If the user is unhappy with the automatic selection, or is simply curious to see other

options, he can scroll through the alternative solutions.

The third approach allows the user to sketch onto the surface of the triangle file and use the resulting lines to create the geometry. This can be done by rotating or extruding a single line to create a surface, or by sketching two or more cross-sections and then flowing a surface between them.

The solid model can then be completed with the wide range of filleting and blending options within PowerSHAPE Pro. These allow the creation of consistent, smooth fillets and blends, rather than the sets of complex, free-form patches, often with inconsistent radii, that would be produced from the scan data in a conventional reverse engineering system.

At any stage in the process, analysis tools are available to display the differences between the triangle mesh and the model created in PowerSHAPE Pro. This will highlight any areas that are outside the required tolerance.

In cases when the scan data only represents the external surfaces of the component, PowerSHAPE Pro's solid modelling tools can be used to produce a complete model. First, the external surfaces can be offset by the material thickness to generate the internal surfaces. Extra geometric features, such as reinforcing ribs and bosses for fixing, can then be added to complete the design.

The integrity of the final solid model can be checked with the Solid Doctor options within PowerSHAPE Pro. This can tackle automatically the most common problems that may occur when building CAD models, including gaps and overlaps between surfaces, and duplicated or missing surfaces. The completed model can then be used by Delcam's full range of software for downstream operations, including tooling design, machining and inspection.

 [Click here to return to Contents](#)

Flow Science Announces Release of FLOW-3D Cast

23 March 2011

A special version of FLOW-3D designed specifically for casting process simulation is now available from Flow Science. FLOW-3D Cast is the latest CFD software to join Flow Science's product family, which includes *FLOW-3D/MP*, *FLOW-3D ThermoSET*, and its flagship software, *FLOW-3D*.

FLOW-3D Cast features highly-accurate flow and solidification results; dynamic meshing for easy model setup; material libraries for metals, molds, filters and risers; and extensive postprocessing capabilities all accessible from a user interface designed by casting engineers for casting engineers.

"FLOW-3D Cast should help make our highly-accurate simulation tool accessible to a broader spectrum of users, including smaller shops, leading to reduced energy and material waste and increased productivity," commented Thomas Jensen, President of Flow Science.

Flow Science will showcase FLOW-3D Cast at several upcoming tradeshows, including the American Foundry Society's 115th Metalcasting Congress on April 5-8, GIFA 2011 in Dusseldorf, Germany on June 28- July 2, and the North American Die Casting Association's 2011 Die Casting Congress on September 19-21.

The interface for FLOW-3D Cast was initially developed under the trade name ConiferCast at the [Technical Research Centre of Finland](#) (VTT) and was offered through Flow Science's international distributors in a few European and Asian territories. Simtech Systems Oy, a spin-off from VTT, has continued and extended the development of the tool (in the process winning an award for most

successful technology transfer exploiting research results), and in 2009, signed a cooperation agreement with Flow Science to rename the product *FLOW-3D Cast*, and roll it out worldwide. *FLOW-3D Cast* is available in three different versions — “Basic,” “Extended,” and “Advanced”—based on the functionality of the solver, and in several languages.

Learn more about [FLOW-3D Cast’s capabilities and applications](#).

 [Click here to return to Contents](#)

iMachining - a Revolution in CAM technology and High Productivity Milling

22 March 2011

[SolidCAM](#) has launched its iMachining™ CAM software, a major part of its latest SolidCAM2011 release.

iMachining™ is Tool-Path technology that reduces cutting times by up to 70%. iMachining™ achieves this by optimizing tool engagement and cutting feed through the entire tool-path therefore allowing much deeper and more efficient cutting.

iMachining™ is driven by a knowledge-based Technology Wizard, which considers the machine being used, the material being cut and the entire geometry and material of the cutting tool. This ensures the tool load is constant which in turn increases tool-life and makes it possible to machine with the full length of the cutter.

Most conventional CAM software will cut deep features in small steps to ensure the tool is not overloaded and to minimize the impact of over-engagement. With iMachining™, programmers can cut to the full depth of the tool in a single pass, as cutter engagement is completely controlled by the technology wizard generating smooth morphing tool-paths. Furthermore, the software automatically avoids sudden direction changes and sharp corners, eliminating shock loading on the tool, and enabling the maximum volume of material to be removed in a single pass.

iMachining™ optimizes the feeds and speeds through the technology wizard for each individual component and setup taking into account all the machine specifics (Spindle power, max feed / speed etc.), all the cutting tool data (number of teeth, helix angle, cutting length, tool material etc.) and all the material properties. By combining all this information and then selecting the level of aggressiveness for machining - matching it to the rigidity of the setup - iMachining™ produces a safe and smooth tool-path which will routinely halve machining times.

Algorithms within iMachining™ eliminate air cutting thus concentrating on areas where excess material is located keeping the tool in contact with the work-piece at the maximum. iMachining™ has the ability to subdivide pockets into areas that can be cut with iMachining’s morphing tool-paths. The intelligent separation routines use iMachining’s unique channelling tool-paths to divide the pockets up into areas that can be efficiently machined using the standard iMachining morphing tool-paths which smoothly remove the remaining material.

iMachining™ also includes ‘rest’ and ‘finish’ operations to remove uncut areas left by the larger roughing tool, both strategies utilise the intelligent morphing technology which completely controls the cut at every position.

By considering every aspect of the machining operation, the intelligence and technology built into iMachining™ enables parts to be cut in a fraction of the normal time by making full use of the

CIMdata PLM Industry Summary

capabilities of cutters and by generating a smooth and safe toolpath. This produces very significant savings in cost and time on all material types and is particularly effective on hard materials.

 [Click here to return to Contents](#)

IMAGINiT Technologies Unveils Scan to BIM™2012

24 March 2011

Rand Worldwide announced that its IMAGINiT Technologies division has launched the new Scan to BIM™ 2012 (<http://imaginit.com/scantobim>) software for the Autodesk Revit 2012 platform.

This new downloadable version is re-engineered specifically to support the new point cloud engine in Autodesk Revit 2012 software. Highly sought-after features such as the ability to create Revit geometry from the point cloud and analyze any differences between the user's model and the point cloud will continue to provide users with both productivity and quality assurances.

Additional tools to assist the overall Scan to BIM process include the ability to create:

3D walls from the point clouds;

Piping and ductwork (Revit MEP only);

Construction geometry;

Topology;

Embedded curtain walls;

Automatic section placement and 3D views;

Slab deformations.

Scan to BIM 2012 is designed specifically for the Autodesk Revit 2012 products (Autodesk Revit Architecture, Autodesk Revit Structure and Autodesk Revit MEP software) and includes specific features for architects engineers, contractors and survey providers.

Availability & Pricing

Scan to BIM 2012 is \$2,495 (USD) per seat and will be available for download in mid-April. An optional maintenance subscription covering technical support and future upgrades costs US\$495 (USD) per seat, per year. For more information contact IMAGINiT Technologies at 800-356-9050.

 [Click here to return to Contents](#)

Informative Graphics' Content Sealed Format (CSF) Achieves FIPS 197 Certification Benchmark

21 March 2011

Informative Graphics Corporation (IGC) announced that its secure Content Sealed Format (CSF) has met the Federal Information Processing Standard (FIPS) Advanced Encryption Standard (AES) set by the National Institute of Standards and Technology (NIST). This solidifies IGC's continued dedication to content security and creation of technology that meets stringent government standards.

The global standard for encryption, FIPS 197 has been the U.S. Government specification for the AES since 2002. Considered a benchmark for security in government, FIPS 197 is the standard of the

CIMdata PLM Industry Summary

National Security Association (NSA) for transmitting top secret information.

CSF was designed to be a simple, self-contained alternative to complicated and often expensive digital rights management solutions. Through IGC's Brava® and Net-It® products, including the free Net-It Now, users can convert any document, image or CAD file to a secure CSF file and apply Visual Rights® to control what the file recipient can do with the content of the document. For example, users can restrict printing, republishing and commenting on a CSF file and even expire (time bomb) the CSF using either a relative date (e.g., two weeks from today) or a hard date (e.g., April 10, 2011). Recipients view the CSF with the free Brava Reader.

IGC Director of Product Management Mark Farlin comments, "The FIPS 197 certification for CSF demonstrates Informative Graphics' commitment to attaining the highest qualifications in document security and a continued dedication to creating technology that adheres to, or exceeds, the Federal Government standards."

To learn more about CSF, visit: http://www.infograph.com/CSF_VisualRights.asp.

 [Click here to return to Contents](#)

Lectra Announces Diamino® V5R4

24 March 2011

[Lectra](#) announced the new version of Diamino®, its marker-making solution.

With Diamino V5R4, Lectra introduces new enhancements for manufacturers seeking simplicity, speed, and efficiency in marker-making and material consumption optimization activities, during the costing, prototyping, and production phases.

To overcome economic challenges and competition, manufacturers have to constantly improve their competitiveness by offering their customers high quality, creative products at a reasonable price. Material represents a significant portion of the cost to make finished products.

"Buying material is now a major expense for manufacturers in the fashion, automotive, and furniture sectors and for companies that use industrial fabrics. Marker-making is therefore a key lever for evaluating and guaranteeing the profitability of a product at a very early stage and improving its cost price. The time savings, streamlined processes, and material optimization offered by Diamino V5R4 give our customers a competitive edge. This advanced technology solution is fully integrated into Lectra's strategy of meeting the specific needs of each market," explained Daniel Harari, Lectra CEO.

Greater simplicity and marker optimization for material consumption, prototyping, and production

Available as DiaminoFashion (fashion), DiaminoFurniture (furniture), and DiaminoTechTex (automotive, composites, and industrial fabrics), Diamino V5R4 maximizes marker-making for all pieces. It also optimizes material consumption at the development and production stages, using two different methods depending on the material to be cut and the complexity of the model. Interactive marker-making is based on a manual method, while automated marker-making is managed entirely by Diamino and its powerful algorithms. These two methods can also be combined for more intricate markers.

Further material savings with the Optimizer function

CIMdata PLM Industry Summary

Diamino V5R4 offers a new rapid optimization function for existing markers, enabling manufacturers to save an average of 1% in material over a significant number of markers. The Optimizer function can be used on both markers created interactively and markers created very quickly in automatic mode. It is also highly useful to manufacturers working with lists or batches of markers. The function can improve the efficiency of each marker in under a minute.

Guaranteed material savings when nesting notched pieces

Manufacturers can now combine marker efficiency with quality of cut on internal notches. Diamino V5R4 ensures significant material savings by providing a protection area around internal notches only.

Time saved through simpler fuse block processing

In parallel with main-piece markers, it is important for fashion manufacturers to be able to improve efficiency and productivity when nesting fuse blocks. Fuse blocks gather into one section the pieces that will be fused with fusible interfacing, an invisible fabric which is more complex to handle but which strengthens the garments being produced. With Diamino V5R4, these pieces are easy to recognize and assemble quickly, an activity that can prove particularly time-consuming.

Communication facilitated by direct access to export formats and their configuration

Diamino V5R4 extends and simplifies collaboration between a company's various internal and external contributors by offering direct access to new export interfaces for HP-GL and Cutfile, and the newly integrated DXF format, widely used in the automotive and aerospace industries.

With Diamino V5R4, users can now manage printers and plotters via a single interface, streamlining the process and improving ease-of-use.

A personalized support service delivered by Lectra's marker-making experts

Wide experience with marker-making in different market sectors has given Lectra extensive know-how, enabling it to offer its customers advice on the best practices to use, regardless of their economic model or type of company. This may take the form of tailored support involving a preliminary evaluation or training courses run by Lectra's marker-making specialists. The guidance provided by Lectra's teams ensures customers make optimal use of their solutions and achieve an excellent return on investment.

 [Click here to return to Contents](#)

LMS Solidifies Acoustic Simulation Leadership with Automatically Matched Layer (AML)

24 March 2011

With the latest release of its acoustic simulation software, LMS Virtual.Lab Acoustics, LMS again pushes the limits of acoustic simulation. The star of Rev 10 is certainly AML (Automatically Matched Layer), a cutting-edge FEM acoustics technique. Additionally, there are a variety of other new features that accelerate the acoustic simulation process, including a highly performant MUMPS Solver (Multi-Frontal Massively Parallel Sparse Direct Solver) and a new range of modeling tools dedicated to duct acoustics.

AML is also considered as the "next generation PML" (Perfectly Matched Layer) for simulating noise radiation problems. The big difference is that there is no need to model the absorbing PML layer, as AML automatically creates the absorbing PML layers.

The AML technology works with extremely small yet highly accurate FEM meshes that are very

manageable and quickly solved.

“AML is an excellent solution for exterior radiation issues found in engines or compressors for example. Our customers need technological solutions that are the fastest, the most efficient and deliver the highest accuracy. And with AML in LMS Virtual.Lab Rev 10, we have set new standards exactly in that. The integrated functionality to create automatically the acoustic FEM mesh adds tremendous efficiency gains as well” stated Stefaan Goossens, Vice-President Simulation, LMS International.

The quality of the solver makes all the difference in acoustic work. The new MUMPS FEM solver solves equations much faster than any other technique. A direct solver, MUMPS can easily handle different load cases, for example, multiple engine rpms.

Duct acoustics, or more specifically the efficient attenuation of noise inside ducts, represents a major application in the acoustic simulation field e.g. for Turbo-machinery, aero-engines or intake and exhaust systems. LMS Virtual.Lab Rev 10 embeds dedicated functionality for duct acoustics, including powerful duct mode propagation, including efficiently handling of temperature distribution within ducts, including effects of flow and more. AML makes the difference here again by allowing extremely fast simulation of exterior radiated noise and very accurate modeling of non-reflective duct terminations up to high frequencies.

For further information regarding the new release, please see www.lmsintl.com/automatically-matched-layer

A webinar on AML will be conducted on Thursday, March 31, 2011 at 10:00 am Central European Time. [Please click here to sign up](#)

 [Click here to return to Contents](#)

Mentor Graphics Calibre xACT 3D Field Solver Extraction Tool Demonstrates High Accuracy and Performance in STARC Evaluation

25 March 2011

Mentor Graphics Corporation announced the results of an extensive evaluation by the Tokyo-based Semiconductor Technology Academic Research Center (STARC) that showed the Calibre® xACT 3D extraction product delivers both reference level accuracy and high performance, enabling very high quality extraction for large IPs.

“Our benchmark included a wide range of evaluation data ranging from small cells and routing patterns up to large blocks,” said Kunihiro Tsuboi, Senior Manager of Mixed Signal Design Group/Development Department-2 at STARC. “We found that Calibre xACT 3D closely matched our reference values and, at the same time, demonstrated performance and capacity sufficient to handle multi-million transistor SRAMs, not just small cells. We also found xACT 3D to be an excellent tool for analyzing parasitic capacitances associated with transistor-level devices.”

“Calibre xACT 3D is a new generation of extraction tool that overcomes the traditional quandary faced by users—having to choose between accuracy and performance,” said Michael Buehler-Garcia, Director of Marketing for Calibre Design Solutions at Mentor Graphics. “Because Calibre xACT 3D provides field solver accuracy at speeds that meet customers’ cycle time requirements, designers of advanced node ICs now have extraction to support better modeling of circuit performance from the transistor all the way up to full chip critical nets.”

 [Click here to return to Contents](#)

Mentor Graphics Delivers Next-Generation Emulation Solutions for the Verification of High-Speed Ethernet Products

24 March 2011

Mentor Graphics Corp. announced its next-generation platform to accelerate the verification of 100-Gigabit Ethernet products. This new platform enables network equipment designers to test their complete system, including software and hardware, as well as employ real-world network traffic early in the development cycle—reducing the total system verification process from weeks to hours. The platform consists of the Veloce® family of emulation products and the iSolve™ Ethernet Switch product, which provides a cost-effective and efficient solution to verify multi-port, Ethernet-based designs, and dynamic, accurate verification of networking systems.

New advancements in Ethernet technology are changing the way we work, connect and communicate, and Ethernet remains the universal technology of choice in enterprise Local Area Networks (LANs). With the explosion of Internet Protocol (IP) traffic, and sophisticated applications driving the demand for greater bandwidth inside and outside modern enterprises, users are taking Ethernet to greater speeds and performance in the LAN, as well as extending Ethernet into new market segments.

“New market segments, including multimedia, wireless, storage and metro area networking, are pushing the state of the art in Ethernet-based system verification,” said Eric Seloche, vice president and general manager, Mentor Emulation Division. “We took a new approach to solve these challenges with our iSolve Ethernet Switch product by providing a highly flexible, modular, and user-configurable emulation solution that meets the needs of our most demanding networking customers, and delivering support for speeds from 1Gbit to 100Gbit and beyond.”

When combined with the Veloce product family, the iSolve Ethernet Switch solution delivers a high-performance, large multi-port and easy-to-use system verification environment to develop new and innovative networking products without compromising delivery schedules.

The platform can be used with a traditional In-Circuit Emulation as well as a high-performance Transaction-Based Acceleration mode of operation. The ability to mix and match traditional ICE capabilities with high-performance, Transaction-Based Acceleration demonstrates the Veloce platform’s key benefit as a software-configurable verification platform.

Product Availability

The solution is available for deployment at customer sites, effective immediately.

For product information on the Mentor multimedia verification platform, contact your Mentor Graphics sales representative, call 800-547-3000, or visit the website at <http://www.mentor.com/med>.

 [Click here to return to Contents](#)

SAP® Product Lifecycle Management Application Helps Companies Bring Winning Products to Market Faster

Unveiled at the at the [SAP Insider PLM 2011](#) conference being held in Orlando, Florida, the newest release of product lifecycle management (PLM) software from [SAP AG](#) helps companies develop and deliver innovative, high-quality products with precision and speed. With the 7.01 version of the SAP®

CIMdata PLM Industry Summary

PLM application, companies can comprehensively manage all product development processes from initial idea through manufacturing to service, enabling faster time-to-market of innovative goods and services.

Companies globally are under increased pressure to be the first to develop and produce new and improved products and services that are profitable without compromising product quality or safety. SAP PLM empowers companies with a single source of the truth connecting all critical business processes and information required to successfully develop and launch new products and services. Delivered with SAP enhancement package 5, SAP PLM breaks down departmental silos, helping to reduce time-to-profit, increase margins, shrink research and development costs and ensure compliance and product safety.

SAP PLM is a comprehensive solution supporting:

- **Continuous product and service innovation:** Connected idea management into the design process captures new ideas and promotes open innovation. Deeper integration of project and portfolio management (PPM) with SAP PLM aligns the design and development processes.
- **Embedded product compliance:** Comprehensive analytics and sustainability reporting from design through manufacturing and service reduces risks and protects brands.
- **Integrated product development:** Engineering and manufacturing bill of material synchronization supports product development from beginning to end, eliminating manual reporting and freeing up more time for innovation. A new user interface for recipe management helps increase efficiency and reduce risk with automated product labeling.

For more information on how SAP is helping companies become product leaders, visit the [SAP Product Lifecycle Management](#) pages, or the [Industries & Solutions newsroom](#). Follow SAP on Twitter at [@sapnews](#).

 [Click here to return to Contents](#)

SoftInWay Partners with Continuous Control Solutions to Increase Reliability of Turbomachinery

21 March 2011

SoftInWay Inc. announced its partnership with Continuous Control Solutions (CCS) – a world recognized provider of automation, process control and real-time optimization systems. The recent agreement reached by the two companies is aimed at bringing more value and innovation to the machinery control process and increasing product lifespan.

Over the years CCS has been helping manufacturers boost the operating life of plant equipment and efficiency by delivering control applications and engineering services. Dedicated to industry excellence, the CCS team develops turbomachinery control systems to fully manage the operating processes of gas and steam turbines, expanders, compressors, pumps and generators. In-depth practical knowledge and technical experience allows CCS to cover the full spectrum of services and provide high-end and cost-effective solutions for increased reliability of turbomachines.

“The new alliance with SoftInWay is a logical step in our continued effort to provide superior one-stop services to our clients. We share a common vision and passion for providing world-class

CIMdata PLM Industry Summary

turbomachinery control solutions, as well as a strong foundation of project engineering expertise, an understanding of turbomachinery processes, and a commitment to customer satisfaction,” – stated Alexander Shcharansky, President of CCS.

Today’s continuing need to push the speed-to-market envelope results in companies having to make trade-offs between accuracy in calculations and product reliability. By partnering with CCS and sharing industry best practices for machinery control and optimization, SoftInWay will enable its clients to design flow paths for maximum life-cycle and, therefore, contribute to steady growth of the oil and gas, chemical, petrochemical and power generation industries, as well as build a cleaner environment in the coming years.

“Our partnership with CCS is focused on creating superior customer value and thrusting the turbomachinery industry forward. We are set for truly collaborative work to achieve overall integrity of turbomachinery design/redesign systems with control applications,” – concluded Dr. Leonid Moroz, President and CEO of SoftInWay.

About Continuous Control Solutions

Headquartered in Des Moines, Iowa, USA, with regional offices in Russia, Ukraine, the Netherlands and partner offices in Central Asia and the Caucasus, Continuous Control Solutions (CCS) is an automation, process control and real-time optimization company. For over a decade, CCS has offered a comprehensive range of services and products to the upstream, midstream and downstream sectors of the oil and gas, chemical, petrochemical, metallurgy and power generation industries worldwide. Our reach is truly global, with CCS systems successfully installed throughout Europe, Asia, Africa, the Middle East and North and South America.

 [Click here to return to Contents](#)

Synopsys' Next-Generation DesignWare Data Converter IP Delivers 50 Percent Lower Power with Smaller Area

21 March 2011

Synopsys, Inc. announced the release of its next-generation [DesignWare® Data Converter IP solutions](#), which deliver more than 50 percent improvement in power with smaller area compared to the previous generation of data converters. Optimized for mobile broadband wireless communication applications such as WiFi, WiMAX, LTE, and digital TV reception, the DesignWare Data Converter IP can reach extremely high sampling rates with excellent dynamic performance, while processing signal bandwidth beyond 100 MHz. These characteristics also make the data converters ideal for emerging, very-high data rate standards such as WiFi (802.11ac) and home networking (G.hn), and for the direct conversion of high intermediate frequency (IF) signals.

Synopsys' new ultra-low power and compact DesignWare Data Converter IP solutions consist of high-performance, analog-to-data converters (ADCs) and digital-to-analog converters (DACs) including:

10-bit and 12-bit pipeline ADCs running up to 250 MSPS in single channel and dual channel configurations

14-bit current steering DACs running up to 400 MSPS in single channel and dual channel configurations

These latest additions to Synopsys' extensive DesignWare Data Converter IP portfolio help designers significantly reduce the area and power dissipation of their system on chips (SoCs), simplify system

integration and lower overall silicon cost.

"Consumer product end-users are not just users of media applications, but are rapidly becoming producers of content such as videos, music, gaming and photos, all of which are being sent wirelessly from mobile devices," said Ganesh Ramamoorthy, research director at Gartner. "Our research indicates strong growth for semiconductors in the communications, home networking and video markets over the next five years. As an essential element of the communications modem, low power data converter IP from IP vendors will play a key role for communication products over the next decade, providing designers with low risk solutions for their next-generation SoCs."

"With more than 13 years of experience delivering analog IP for a broad range of applications, Synopsys continues to invest significantly in developing data converter IP products to deliver unmatched power dissipation, area performance and speed characteristics," said John Koeter, vice president of marketing for IP and systems at Synopsys. "By designing this latest generation of DesignWare Data Converter IP toward ultra-low power optimization and a compact footprint, Synopsys enables designers of broadband communication, digital TV and video products to readily embed functionality into their SoCs to offer competitive differentiation with less risk and improved time-to-market."

Availability

The new DesignWare Data Converter IP solutions for the 65-nm LP process are available now. Support for the 40-nm LP process is scheduled to be available in Q2'11. Current DesignWare data converters for broadband communication applications, such as 10-bit General Purpose (GP) ADC, 11-bit GP DAC and 12-bit current-steering dual DAC, are also available now in the 65-nm LP and 40-nm LP processes. For more information on DesignWare Data Converter IP solutions, please visit:

<http://www.synopsys.com/dataconverter>

 [Click here to return to Contents](#)

T-Splines, Inc. becomes SolidWorks® Solution Partner

24 March 2011

T-Splines, Inc., creators of precise and flexible 3D surface modeling tools with full industry standard compatibility and the [tsElements](#) integrated application for SolidWorks® 3D CAD software, announced it has joined the SolidWorks Solution Partner Program.

Over a thousand customers across a broad range of industries, including consumer products, jewelry, architecture, and toy design, are leveraging T-Splines in their design workflow to iterate faster on concepts, be more responsive to client requirements, and build gap-free manufacturable prototypes without having to make styling or aesthetic compromises.

tsElements, available as a SolidWorks add-in application, provides import of T-Splines files from Rhino and many popular subdivision modeling packages. These models can then be manipulated as surface or solid bodies inside the SolidWorks features tree.

"We are exploring new workflows for product design using modo, tsElements and SolidWorks. With tsElements, we can manipulate imported data in ways that enhance existing SolidWorks tools. We do a lot of medical products requiring organic yet controlled surfacing. We are finding that for some current projects, tsElements allows us to make more active design decisions in a much shorter timescale," said Kevin Quigley, Owner of Quigley Design. "As T-Splines introduces additional integrated surfacing products, I fully expect to be able to do all my conceptual and developmental modeling inside

CIMdata PLM Industry Summary

SolidWorks.”

tsElements is available as a free trial and for purchase at <http://www.tsplines.com>.

 [Click here to return to Contents](#)