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CIMdata News

Visualizing the Future at the AVEVA World Summit: a CIMdata Commentary

12 November 2013

Key takeaways:

- *The AVEVA World Summit drew a global audience of senior leaders and decision-makers from the AEC and shipbuilding industries*
- *AVEVA announced several interesting new products, including their first ever mobile application, AVEVA E3D Insight, and the AVEVA Activity Visualization Platform, which relies on gaming technology to deliver advanced visualization capabilities*
- *Visualization and visual decision making are central to AVEVA's strategy and offerings, and their early solutions show they are off to a strong start*

CIMdata was pleased to attend the AVEVA World Summit in Boston, MA on October 30 to November 1, 2013. AVEVA is one of the AEC market leaders tracked by CIMdata in our annual PLM Market Analysis Report. The AVEVA World Summit is a business meeting focused on influencers and decision-makers, with presentations by AVEVA and selected customers. This Summit attracted over 340 delegates; more delegates were from Asia-Pacific (36%) than from the Americas (33%). All were treated to Boston's celebration of their World Series title the first night of the event.

The AVEVA World Summit is one of three levels of customer and market engagement the company hosts each year. At the C-level, AVEVA holds AVEVA World Executive Councils, small gatherings of a dozen or so senior customer executives where AVEVA solicits requirements and issues to support strategy development. At the user level, AVEVA conducts AVEVA World User meetings around the world (18 according to AVEVA.com), held in countries where they have operational offices. These user meetings can be as large as 200 people, and focus on knowledge transfer and regional/country operations.

Richard Longdon, AVEVA's CEO, kicked off the event with an update on the company and made some interesting product announcements. In business for 45 years, AVEVA grew strongly the last few years even with the global recession. Their 1500+ employees include many recent hires and additions from acquisitions, with their employee numbers up 25% in 2012-2013. Mr. Longdon provided some insights into their planning process, "horizon planning," which he claimed are central to their success:

- 60% of R&D is invested in core products, on which they make the most revenue.
- 30% is invested in growth areas, a much more difficult task, one that includes significant

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planning and iterative development to get the new solutions right.

- 10% is invested in research, which he claimed was “only for the brave hearted.” Many of these projects are ultimately stopped, but AVEVA learns from each one.

In December 2012, AVEVA launched AVEVA Everything 3D (E3D). Mr. Longdon cited E3D as a milestone for the company. This offering is a combination of technologies acquired and built in-house. (In a later presentation, their CTO said that E3D provided 15x the performance of their previous generation 3D offering, AVEVA PDMS.) Mr. Longdon said this milestone product is seen as game changing for AVEVA, and supports their focus on “lean project execution.”

At the Summit, AVEVA announced AVEVA E3D Insight, their first ever mobile application (“app”), for use by both Engineering, Procurement and Construction (EPC) and Owner-Operator (OO) customers. This app, Mr. Longdon claimed, liberates the 3D model for use across the lifecycle for all stakeholders. They are not targeting designers, per se, but focusing on collaborators. With this native Windows 8.1 app, users can navigate, view, annotate, and submit approvals. It provides live access to real data, streamed from an AVEVA database. Based on the demonstrations at the event, massive models can be loaded, such as huge offshore platforms. The app is configured so that if you lose your connection, you can still work using the data on the tablet. Their original focus was on EPCs, believing it would help to smooth their business processes by providing the right information at the right time in the right context. But OOs who have seen it are also very interested. It will allow OOs to see and collaborate on early views of the design. This app can be supported with in-house infrastructure or through Microsoft Azure.

In December 2012 AVEVA acquired Global Majic, a Huntsville, AL-based gaming company to strategically leverage their 3D technology. (This move is consistent with similar actions in the mechanical PLM space over the last few years and others in the AEC space are emphasizing 3D visualization as well.) Since the acquisition, they have been working to integrate the new technology into their portfolio. At the Summit, they announced the AVEVA Activity Visualization Platform, a realistic simulation environment that is coupled with their engineering tools and data. This supports their OO clients need for enhanced training and simulation for their operating staff. With this new solution, they can familiarize users with an asset, conduct virtual training, and even use it to test options in maintenance and operations procedures. They and their customers envision applications well beyond maintenance, such as employing these visualization techniques back into design and engineering. AVEVA has already employed augmented reality techniques, bringing other data into the simulations, but acknowledge they are just getting started.

Visualization is becoming more strategic and pervasive in AEC and the AVEVA portfolio, so it was appropriate that they chose Dan Roam, author of *The Back of the Napkin*, to talk about visual thinking. According to Mr. Roam, more than half of our brains are dedicated to visual processing, and that we need to take better advantage of our visual system which includes our eyes and mind’s eye. Even the most complex problems can be decomposed visually, claimed Mr. Roam, and drawings work for humans because we “see” in 6 ways: who and what, how many, where, when, how, and why. He used an example from the Boeing 787 program, where Boeing created a visual language to collaborate and a network structure to support it across their far-flung design and manufacturing partners. In conclusion,

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Mr. Roam challenged the audience, offering an iPad Mini to the person who could best depict a scheme to move Mt. Fuji, all on a single napkin.

Three tracks, for EPCs, OOs, and shipbuilders, included a number of very interesting presentations from around the globe, too many to mention in this commentary. (Our attendance at this event focused on the EPC-OO tracks.) One of particular note was from Korea Southern Power (KOSPO), who is building their own AVEVA NET-based PLM system for managing EPC-O&M (Operations & Maintenance) technical information for thermal power plants. Their Cyber ATP-1000 system must support data from multiple mechanical CAD systems, plant 3D systems, lists, intelligent P&ID, and other sources. This 57-month project is about 50% complete, and looks promising, but there is much work still to do.

In the closing plenary, Dave Wheeldon, AVEVA's CTO and Head of their Engineering & Design Systems group provided a look into the future. Beyond 3D, AVEVA will expand their solutions to help their customers to simulate around:

- The planned schedule and sequencing of construction
- The materials and costs associated with the on-going effort
- The operations and maintenance requirements

These capabilities are consistent with suggested extensions to Building Information Modeling (BIM), where 3D is extended to 4D (time—to visualize the entire duration of a series of events and display the progress of construction activities through the lifetime of the project), 5D (cost—enables the various participants to visualize the progress of construction activities and its related costs over time), and possibly 6D BIM (handing over 5D data for use in facilities management). Reaching these goals will help AVEVA to attain their overall corporate objectives, and to support lean project execution.

Conclusion

CIMdata's definition of PLM has included AEC for many years, and it is interesting to compare this segment and the more mechanically focused lifecycle solutions in the rest of our definition. In some ways, AEC is still far behind, with many partners, business processes and authorities requiring complete 2D documentation and having little interest in 3D. In other areas, AEC is facing the same challenges, such as trying to capture and maintain product and process information across very long lifecycles, where 70 to 100 year operational lives are not uncommon. Similarly, AEC contracts resulting in the handover of the IT system housing the asset data face the same issues as aerospace & defense companies delivering an aircraft carrier and its (virtual) mountain of documentation. Finally, in some ways AEC is ahead, particularly in leveraging mobile technologies for the "deskless" worker. Their use cases are perfect for mobility, and more of their workers spend their hours away from workstations and networks. AVEVA introduced some impressive new offerings at the 2013 AVEVA World Summit, but stated they are just getting started. CIMdata looks forward to next year's event!

About CIMdata

CIMdata, an independent worldwide firm, provides strategic management consulting to maximize an enterprise's ability to design and deliver innovative products and services through the application of

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Product Lifecycle Management (PLM). CIMdata provides world-class knowledge, expertise, and best-practice methods on PLM. CIMdata also offers research, subscription services, publications, and education through international conferences. To learn more about CIMdata's services, visit our website at <http://www.CIMdata.com> or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA. Tel: +1 734.668.9922. Fax: +1 734.668.1957; or at Oogststraat 20, 6004 CV Weert, The Netherlands. Tel: +31 (0) 495.533.666.

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Acquisitions

Nemetschek Acquires leading MEP Solution Provider

13 November 2013

- Data Design System (DDS) offers CAD software solutions for intelligent building planning
- Strengthening market position for Building Information Modeling (BIM)
- Expansion of solution portfolio in the building process

Nemetschek AG has acquired Data Design System ASA, based in Norway, a leading CAD software provider for intelligent building planning delivers highly functional solutions for mechanical, electrical, plumbing (MEP), heating, ventilation, air conditioning and photovoltaic engineering.

With this move, Nemetschek Group extends its portfolio to include strategic important MEP solutions for the building process.

DDS is member of the open BIM initiative promoting open standards in the AEC industry. All DDS-CAD solutions support open BIM planning processes.

With the acquisition, Nemetschek's position in the market for BIM will be strengthened.

DDS has around 90 employees. The company has branches in Germany, Austria and the Netherlands. With more than 13,500 customers worldwide, DDS generated approximately EUR 8.7 million in revenues and achieved an operating result of EUR 1.5 million in the fiscal year 2012.

According to the strategic company structure of Nemetschek Group, DDS will continue to conduct business under its current management as an independent brand.

The purchase price is in the low two-digit million euro range and will be settled in cash. The acquisition is expected to be concluded by the end of 2013.

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Company News

Autodesk Powers 3D Explorer for Smithsonian Institution

13 November 2013

[Autodesk, Inc.](#) and [the Smithsonian](#) today debuted the [Smithsonian x3D Explorer](#), an interactive 3D educational tool accessible to anyone via the web. Autodesk built the tool exclusively for the Smithsonian to democratize access to prized specimens and to bring their stories to life. The public can now experience priceless objects digitized by the Smithsonian like never before, from seeing “behind the glass” to holding 3D printed replicas.

3D technology is beginning to revolutionize museums in the same way it has revolutionized entertainment, manufacturing, and architecture, and the Smithsonian aims to be at the forefront of this transformation.

“Capturing digital 3D models of our vast and complex collections of artifacts is a major priority,” said Gunter Waibel, head of the Smithsonian Digitization Program Office. “Working with Autodesk we can now share our collections with more people than we could ever reach before. It is our hope that the Smithsonian x3D Explorer will enhance education and research in ways we haven’t even imagined.”

Autodesk actively supports a variety of museums and national heritage organizations with its reality computing technology to help preserve and protect cultural heritage artifacts, structures and even fossils. Creating detailed 3D models means that some of the world’s most prized artifacts and scientific specimens housed in the Smithsonian collection will be preserved and made available to the world, enhancing education and research for generations to come. Less than 1% of the Smithsonian’s collection is on display at any time, and some objects in their collection will never be on display. The ability to showcase objects digitally opens up a world of education and exploration like never before. While a significant amount of the organization’s “flat” objects such as photos or documents have been digitized, most Smithsonian collections are of 3D objects. Autodesk worked with the Smithsonian to create an entire web experience: a museum online complete with a gallery, guided tours, research data, and a 3D object explorer. The x3D Explorer launches with 3D models of 21 representative objects from its collection.

“We’re honored to have played a role in preserving such invaluable pieces of history and humanity,” said [Amar Hanspal](#), senior vice president at Autodesk. “We hope that exploring these priceless artifacts, heirlooms, fossils and scientific specimens in 3D will generate more public interest and learning around science and technology – especially among students.”

The Smithsonian’s x3D Explorer’s stunning 3D models of historic treasures and scientific specimens are available for anyone for free to view, study, interact, visually manipulate, and share. Many of the 3D

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models are available to download for personal and educational use, including the ability to produce physical objects using 3D printing. For example, classrooms around the globe can now work with educational replicas of these artifacts, and hopefully encourage further interest students to explore the vast collections of science, technology, engineering and anthropology that is captured at the Smithsonian.

The Smithsonian Digitization Program Office is chartered with digitizing as much of the Smithsonian's collections as possible, and the scale of the collection presents a significant challenge. The office relied on [Autodesk ReCap](#) and [Autodesk Maya](#) solutions to easily and quickly capture artifacts with photos and turn them into detailed 3D models that can be viewed in "Hollywood style" quality with the x3D Explorer.

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CONTACT and KOSTECH Intensify their Partnership in Asia

11 November 2013

CONTACT Software and KOSTECH Korea Simulation Technology Co. Ltd. are greatly expanding their partnership. The company is already the leading reseller of CONTACT's FCM concept tool in South Korea and supports FCM user Hyundai Motor Company among others. The two companies have now extended the partnership agreement to cover CONTACT's entire solution portfolio. This includes CIM DATABASE for product lifecycle management (PLM) and Project Office for project management. As a full service provider, KOSTECH will also supply consulting and other services to support the deployment of these systems.

KOSTECH has made a name for itself as a reseller of LS-DYNA and other CAE tools. With its expertise in the fields of simulation and computation, the Korean company provides support during the early phases of product development. Based on CONTACT's open component architecture, it is now able to supply leading technology solutions for the entire innovation process coupled with the reliable, focused management of development projects – capabilities that have secured it an excellent position in the Asian market. "PDM/PLM technology has been established in Korea for many years. However, many older systems no longer cover some of the important requirements involved in collaborative product development," explains KOSTECH's managing director, Young-Gu Chung. "Our comprehensive range of high-performance software, consultancy and services addresses the needs of many companies faced with the prospect of changing platform. I am confident that Korean enterprises will be able to solve most of the endemic problem of PDM/PLM by CONTACT Software."

KOSTECH has now also established a new line of business and today possesses the knowledge needed to implement process optimization projects in the R&D environment efficiently and with a high level of quality. "KOSTECH is an ideal partner for us," says Michael Murgai, Director Strategy & Operations at CONTACT. "They know the market, have an excellent network in the PDM/PLM sector and contribute outstanding expertise from their customer projects."

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Delcam to lead Additive Manufacturing Project for the UK Jewellery Industry

13 November 2013

The UK's jewellery sector is set to benefit from a major £471,000 research and development project called PRECIOUS that began earlier this month with a kick-off meeting at Delcam's Birmingham headquarters. The project, to be managed by Delcam, will make a definitive step change to the current use of additive manufacture for precious metal jewellery through an empirical set of trials, benchmarks and demonstrators, making it easier for the whole UK supply chain of design, manufacture and retail to adopt the technology.

The PRECIOUS project is being undertaken by a consortium of five organisations that, in addition to Delcam, includes Cookson Precious Metals, Lionel T Dean/Future Factories, the Jewellery Industry Innovation Centre and Finishing Techniques.

The project is receiving £212,000 of support from the UK's innovation agency, the Technology Strategy Board. It is aimed at rapidly bringing to full commercial maturity the process of additive manufacturing of precious metal jewellery items that is currently at varying stages of partial readiness at a small number of UK companies.

Project Manager, Jan Willem Gunnink from Delcam, stated, "The UK is an internationally recognised and important supplier of quality jewellery to the world's markets but is constantly threatened by cheap imports from low labour cost economies. The PRECIOUS project is intended to offer a viable alternative manufacturing option to those who supply jewellery at the middle to higher end of the bespoke and personalised jewellery market. New online business models that exploit additive manufacturing are expected to be created and should add innovative design driven impetuosity to the more traditional high street retailing sectors".

To achieve this goal, a number of important research and development elements will be required:

- An assessment of the current "State-of-the-Art" of both AM-related hardware and software tools
- Identifying the supply chain requirements for the introduction of additive manufacturing
- Developing business models for jewellery companies wishing to use additive manufacturing
- Improving the efficiency of pre-processing and post-processing activities within jewellery additive manufacturing.
- Creation of demonstrator projects to promote the technology to jewellery companies

Acknowledgements

This project is co-funded by The Technology Strategy Board, the UK's innovation agency. Its goal is to accelerate economic growth by stimulating and supporting business-led innovation. Sponsored by the

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Department for Business, Innovation and Skills (BIS), the Technology Strategy Board brings together business, research and the public sector, supporting and accelerating the development of innovative products and services to meet market needs, tackle major societal challenges and help build the future economy. For more information please visit www.innovateuk.org

Information

For more information please visit www.precious-project.co.uk

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Infor Partners with Nagarro to Drive Growth in India

12 November 2013

[Infor](#) announced a new alliance partnership with [Nagarro](#), a strategic consulting firm whose Gurgaon, India, location will now become an active member of the Infor Partner Network. Nagarro will specifically provide functional and technical consulting as well as implementation and integration services for [Infor M3](#) and [Infor ION](#) in the Indian market.

"Because of Infor's innovative approach to enterprise software and Nagarro's strong presence in India, we felt an alliance partnership would be mutually beneficial," said Kapil Gupta, who leads the Enterprise Solutions practice at Nagarro. "We wanted to bring our expertise into the Infor partner ecosystem in order to share our knowledge and facilitate growth for both companies."

Infor M3 is a flexible suite of applications designed specifically for mixed-mode manufacturers in the equipment, fashion, food and beverage, and industrial manufacturing industries. By consolidating critical product, regulatory and financial data into a unified solution, Infor M3 delivers a holistic view of operations to support more informed business decisions. Using Infor ION technology, companies can integrate Infor M3 with other Infor or third-party systems to help increase efficiency and reduce complexity by eliminating disparate systems.

"Partnering with leading companies like Nagarro allows Infor to further expand our local resources for customers in India," said Atul Sareen, managing director, Infor India. "We've set a goal to double our business revenue in India over the next three years, and partners like Nagarro play a key role in driving that initiative."

For more information on Infor Alliance partners, visit www.infor.com/partners/alliance-partners/.

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Lectra Honors Faculty and Student Achievements at the ITAA Conference in New Orleans

8 November 2013

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Lectra recently honored faculty and student achievements at the International Textile and Apparel Association (ITAA) Annual Conference. The ITAA is a professional educational association composed of leading university scholars, educators and students working in the textile, apparel and merchandising disciplines.

Lectra sponsored the event and multiple awards at the organization's 2013 Annual Conference in New Orleans during October. The conference brought together scholars, educators and students, and featured research sessions, design exhibitions and keynote addresses.

Lectra is honored to have sponsored the following faculty and graduate student awards for scholarly research:

- Faculty Design Award: Lif-Fen (Annie Chang), University of North Texas, *"The Scorpio"*
- Outstanding Graduate Student Design, Best in Show: Wen Fan, Drexel University, *"Coat of Armour"*
- Outstanding Graduate Student Design, Best Use of Technology: Kristen Morris, Cornell University, *"Cilia"*
- Innovation Award for Research: Elham Maqsood and Hsiou-Lien, Oregon State University, *"The Impacts of Different Woven Fabrics on Three Draping Techniques"*
- Innovation Award for Teaching: Eundeok Kim, Florida State University, *"Community Service Projects Integrated into Product Innovation and Management Class"*

"As the fashion and apparel business continues to evolve, we have joined forces with organizations such as ITAA as well as more than 850 college and universities around the world to advance fashion education and nurture the industry's future professionals," explains Roy Shurling, President of Lectra North America. "Our continued passion for innovation and collaboration within the academic community has allowed us to strengthen our relationships with fashion design departments in more than 60 countries."

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MakerBot and Partners are Leading the Charge to Crowd Source a MakerBot Desktop 3D Printer in Every School in America

12 November 2013

MakerBot is on a mission: to put a MakerBot Desktop 3D Printer in every school in America. This initiative is a unique partnership between MakerBot, DonorsChoose.org America Makes, and Autodesk, and was a response to a call to action by the President of the United States. In the recent State of the Union Address, President Barack Obama announced a new initiative to bring manufacturing jobs back to the US. He affirmed: "3D printing has the potential to revolutionize the way we make almost everything. We must ensure that the Next Industrial Revolution in manufacturing will happen in

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America. We can get that done.”

MakerBot was inspired by the President’s commitment to keep America at the forefront of the next industrial revolution and is eager to do its part to educate today’s students, who are the next generation of innovative makers, engineers, product designers, architects, and artists, who could benefit from having 3D printing technology in the classroom.

“We are thrilled that MakerBot and America Makes are joining a growing coalition of citizens working to give American students the ability to design and make almost anything,” said Tom Kalil, deputy director for Technology and Innovation, White House Office of Science and Technology Policy. “As the President has said, we all need to think creatively about giving our young people the tools to be ‘the makers of things, and not just the consumers of things.’”

Beginning November 12, 2013, individuals and corporations interested in helping get MakerBot Desktop 3D Printers in schools can visit DonorsChoose.org, a crowd funding site just for teachers, and pledge to financially support the program. Teachers then register on DonorsChoose.org for a MakerBot Academy bundle. MakerBot is contributing its own resources to launch this education initiative, along with key partners. Bre Pettis, CEO of MakerBot, has personally pledged to put a MakerBot Replicator 2 Desktop 3D Printer in public high schools in MakerBot’s hometown of Brooklyn, NY. In addition, Ralph Crump, original inventor of FDM 3D printing technology and founder of Stratasys, has pledged his support. Pettis encourages everyone to join MakerBot in this effort at an individual or corporate level to help move America’s students to the forefront of technology and global competitiveness.

“To get this done, we are going to have to do it together,” said Bre Pettis, CEO of MakerBot.

Each MakerBot Academy bundle contains a MakerBot Replicator 2 Desktop 3D Printer, three spools of MakerBot PLA Filament, and a full year of the MakerBot MakerCare Service and Protection Plan. MakerBot will also support the teachers with the development of ongoing 3D printing curriculum that teachers can participate in and utilize in the classroom. MakerBot will leverage Autodesk’s software and educator curriculum as well.

“Autodesk signed on as a key partner in the MakerBot Academy initiative because helping students unlock their creativity and prepare for future careers is a core part of our mission,” said Samir Hanna, Autodesk vice president, consumer products. “Bringing together accessible applications like Autodesk TinkerCAD project-based curriculum from our instructables.com community and the MakerBot Replicator 2 Desktop 3D Printer will inspire and engage the next generation of design-minded students.”

MakerBot is also launching a MakerBot [Thingiverse Math Manipulatives Challenge](#). Math Manipulatives are one of the most requested items on DonorsChoose.org and are an item that can easily be 3D printed in the classroom. The MakerBot Thingiverse website will hold a week-long design challenge, from November 12 through 18, 2013, for its members to quickly develop a variety of different math manipulative 3D designs that can then be available immediately to teachers that receive

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the MakerBot Academy 3D printing package.

“As a former teacher, I believe strongly in creating a new model for innovation. A MakerBot is a manufacturing education in a box,” said Bre Pettis. “We need to encourage our teachers and our youth to think differently about manufacturing and innovation. When you have a MakerBot Desktop 3D Printer, you see the world differently. Instead of waiting for someone to create a product for you, you can create your own. It can change the whole paradigm of how our children will see innovation and manufacturing in America.”

To bring manufacturing back to America, students of today must be exposed to and experienced in advanced manufacturing tools that can assist them in securing engineering, architecture, product design and manufacturing jobs tomorrow. To do that, they must have access to these tools that can help take their education to a new level and empower them to think differently about the world and manufacturing. MakerBot sees this as an opportunity to bring 3D printing into our schools and classrooms.

Ralph Resnick, founding director of America Makes said: “We need to nurture the minds of America’s youth today, in order to create a strong workforce for tomorrow. This is a key tenet of the National Additive Manufacturing Innovation Institute, so when MakerBot approached us with this opportunity, we were eager to show our full support. When America Makes, America Works.”

“We are so grateful to MakerBot and its partners for undertaking this mission,” said Charles Best, founder of DonorsChoose.org. “Thanks to this movement, hundreds of thousands of students will have the opportunity to make and innovate in their own classrooms.”

“Initiatives like the MakerBot Academy are further examples of how New York City’s technology community is leading the way to help young people be better prepared for their future careers,” said Rachel Haot, New York City’s chief digital officer. “Collaboration and education are key components to keep our workforce competitive and innovative.”

Here’s how it works:

Visit [DonorsChoose.org](https://www.donorschoose.org) and pledge your support. Individuals and corporations can help fund the MakerBot Academy 3D Printing package by making a tax-deductible donation via [DonorsChoose.org](https://www.donorschoose.org).

Then tell schoolteachers about the MakerBot Academy program and encourage them to register on [DonorsChoose.org](https://www.donorschoose.org) right away. Students and their community can also help teachers raise the additional funds they need to bring the MakerBot Academy 3D Printing bundle into the classroom.

Participate in the Thingiverse Challenge to develop models teachers can use to improve science, technology, engineering and mathematics (STEM) education.

For more information on MakerBot Academy, visit makerbot.com/Academy.

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Sustainable Energy Plant Design Software at Nextgen 2013

13 November 2013

Supporting renewable energy projects with affordable plant design software is a key goal for CAD Schroer. The software provider demonstrated its technology at Biogaz Europe in March, at Sustainability Live in April, and at Nextgen 2013 in October.

Significant savings for sustainable energy plant and factory designers

“As global environmental concerns drive local policy, new energy from waste (EFW) technologies keep emerging, making the exploitation of renewable energy sources more and more efficient. Biomass, anaerobic digestion for the creation of biogas, combined heat & power, and EFW were on the top of the agenda at many shows this year,” says Anke Adams of CAD Schroer. We attended with the goal of making it more affordable for renewable energy plant providers to plan and deliver new projects.”

CAD Schroer demonstrated its MPDS4 3D plant engineering software, which allows project engineers to design plants of any size, route and connect services, and quickly cost Brownfield or Greenfield projects. CAD Schroer offers a 70% discount to companies using the software on renewable energy projects, along with discounted maintenance and support services.

Free Renewable Energy Conference Program

Nextgen 2013 featured a high level conference program all around energy efficiency, carbon reduction, as well as financing, planning, building and operating renewable energy generation plants. Speakers in four different theatres concentrated on biogas and biomass for the agri-rural sector, and CHP and on-site power production for urban areas, as well as updating visitors on the latest legislation and industry analyses.

“We look forward to continually contributing to the renewables debate with engineering software expertise, and with technology that makes the large-scale plant design process as productive and cost effective as possible,” Anke Adams concludes.

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Events News

Dassault Systèmes' Customers Pioneer Industry Changes with Products and Services That Deliver New 3D Experiences

12 November 2013

CIMdata PLM Industry Summary

[Dassault Systèmes](#) kicked off its annual customer conference, the 3DEXPERIENCE Customer FORUM, at the Aria Resort and Casino in Las Vegas with a diverse set of customers that make everything from bottles to buildings. The event will showcase the transformation that North American industries are going through driven by the use of the 3DEXPERIENCE platform.

“The caliber of our speakers is truly staggering and illustrative of the transformative power of the 3DEXPERIENCE platform and we are particularly proud of the number of industry sessions being led by our customers”

Keynote speakers will address a variety of pressing business issues from how to re-energize the manufacturing economy for job creation to how to educate younger generations to prepare for Science, Technology and Manufacturing (STEM) careers.

Noted investor and industrialist Lynn Tilton, founder and CEO of [Patriarch Partners](#), a holding company managing 75 companies across 14 industry sectors with revenues in excess of \$8 billion, will keynote the first day of the event this morning. Artist will.i.am will address the crowd by Skype tomorrow morning, joining Enrique Legaspi, the chief of staff for his [i.am.angel foundation](#) to discuss how the group helps [TRANS4M underserved communities](#).

Dassault Systèmes’ continuing leadership in the market is demonstrated by the growth in the number of customers both attending and presenting at the 3DEXPERIENCE Customer Forum. The company has more than doubled the number of customer-led presentations over last year’s event—in fact, approximately half of the industry sessions will be customer-driven, a 72 percent increase over 2012. These presentations—along with the executive keynotes—will show how Dassault Systèmes’ 3DEXPERIENCE platform is helping its customers deliver the future, now.

In addition to the keynote speakers, customers speaking at the show include:

- [SHoP](#), the architects behind [Brooklyn’s Barclays Center](#), a highly distinctive arena designed entirely using the 3DEXPERIENCE platform from Dassault Systèmes. The arena, home of the NBA’s Brooklyn Nets and the NHL’s New York Islanders, is the lynchpin for redevelopment of the urban neighborhood, and last year set records as the [nation’s highest-grossing arena](#), hosting many concerts in addition to sporting events. ShoP is pioneering collaboration in the AEC industry through its use of Dassault Systèmes’ cloud-based applications, which will be widely available in early 2014.
- [MWV](#), the global leader in beverage packaging, from dairy, to beer and wine to carbonated and non-carbonated soft drink packaging and systems. They will discuss their use of the 3DEXPERIENCE Platform with [Single Source for Speed](#) and [Perfect Package](#) Industry Solution Experiences to bring the products consumers want most to market sooner.
- [Pratt & Whitney Canada](#), the world leader in design, manufacture and support of turbine engines, will provide an overview of the company’s vision for how Dassault Systèmes’ [3DEXPERIENCE platform](#) will allow them to exploit their strong history and experience to quickly and easily

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deliver personalized products and services to their customers.

There will also be keynote addresses from Dassault Systèmes executives including Bernard Charlès, President and CEO; Bruno Latchague, Managing Director, North America; and Monica Menghini, Executive Vice President, industry & marketing.

Beyond these informative keynote addresses, each day will feature specific breakout sessions by product and industry as well as demonstrations of the power of the 3DExperience.

“The caliber of our speakers is truly staggering and illustrative of the transformative power of the 3DEXPERIENCE platform and we are particularly proud of the number of industry sessions being led by our customers,” said Bruno Latchague, Managing Director, North America, Dassault Systèmes. “We have a strong presence in the United States today with more than 70,000 customers and our goal is to expand our footprint across many more industries,” added Latchague.

Event sponsors include Platinum Sponsor Microsoft, Global Sponsors IBM and Kalypso and Gold Sponsors Deloitte Consulting LLP, Coastal Logic and Tech Mahindra, to name a few. For a complete list, please visit: <http://www.3ds.com/events/3dexperience-customer-forums/north-america/sponsors/>.

For real-time updates on news and happenings at the event, please follow [@Dassault3DS](https://twitter.com/Dassault3DS) or search for [#3DXforum](https://twitter.com/3DXforum) on Twitter. For more information about the conference, please visit: <http://www.3ds.com/events/3dexperience-customer-forums/north-america/>.

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Delcam, Seco and Roemheld Combine for high-efficiency Machining Seminar

11 November 2013

CAM software developer Delcam, cutting tool manufacturer Seco and workholding specialists Roemheld will present a joint seminar on high-efficiency machining at Seco’s recently-opened premises in Alcester, Warwickshire, on Thursday 5th December. The seminar will include presentations from the three companies describing their latest developments to increase machine tool productivity, followed by live demonstrations of high-efficiency machining on Seco’s Mazak Integrex mill-turn equipment and Micron five-axis machining centre.

The machining demonstrations will see the UK debut of Delcam’s new Vortex area clearance strategy as part of the PowerMILL CAM system for high-speed and five-axis machining. Vortex offers substantial time savings by allowing users to make deeper cuts using the full flute length as the cutting surface. A series of trials run by Delcam, on different machine tools within its Advanced Manufacturing Facility, has shown that time savings of up to 70% are possible with the new strategy.

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Unlike other high-speed roughing techniques that aim to maintain a constant theoretical metal-removal rate, the Vortex strategy produces toolpaths with a controlled engagement angle for the complete operation. This maintains the optimum cutting conditions for the entire toolpath that would normally be possible only for the straight-line moves. As a result, the cutting time will be significantly shorter, while cutting will be undertaken at a more consistent volume-removal rate and feed rate, so protecting the machine.

Because Vortex toolpaths have a controlled engagement angle, tools should never be overloaded and so will achieve the maximum tool life. Shock loading caused by changes in the contact angle is minimised, preventing chipping of the flutes. In addition, the stability of the cutting conditions gives more consistent edge temperatures, so prolonging the life of the tool coating and removing heat damage to the surface of the part. Finally, the ability to use stepdowns of three, or even more, times the tool diameter spreads the tool wear evenly over the cutting surface of the tool, again contributing to longer tool life.

Seco Tools has an established reputation as a leading manufacturer of solid carbide tools for a variety of industries, including mould and die, aerospace, medical and power generation. These tools are designed specifically to achieve high metal removal rates and so allow users to gain the maximum benefit from the Vortex strategy.

An inevitable consequence of increased machining speeds is that, if things do go wrong, they go wrong much more quickly. Safe, accurate workholding is, therefore, more important than ever. Roemheld continues to meet these growing demands with new automation solutions for hydraulic clamping and Zero-point mounting systems. As well as providing vice solutions, ensuring secure, precise machining on today's five-axis machines and higher speed applications, these systems also contribute to overall efficiency by minimising set-up times.

For further details and to register, please go to www.delcam.com.uk/vortex2013

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Free Thermal-Fluid Simulation Training Offered to Mark Growing Usage in the US and Demonstrate Advantages of Flownex Simulation Environment

14 November 2013

Phoenix Analysis & Design Technologies (PADT) is marking the rapid growth of usage of the Flownex Simulation Environment by holding two free training classes for engineers interested in the simulation of flow and heat transfer in fluid systems. The goal of the two day class is to train users in the application of the ***Flownex Simulation Environment*** on a variety of thermal-fluid systems. Attendees will also receive a 45 day license, enabling them to apply what they have learned on their own problems. The first class will be held in Littleton, Colorado on January 13th and 14th ([register](#)) and the second will be in Tempe, Arizona on January 23rd and 24th ([register](#)).

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This free training is being offered to increase awareness of the Flownex in the US, where it has only recently be introduced. Once engineers learn about the potential of this simulation environment, they are adopting Flownex as their tool of choice. Eric Miller, one of PADT's owners said "When we started representing Flownex for in 2012, we found that most of the potential users were not aware of the amazing breadth and depth that it contains. They assumed that it was as limited as the older commercial or in-house tools that they had been using. A short training class opened their eyes not only to how much it could simulate, but how easy to use and fast it is."

Flownex Simulation Environment delivers technology that enables users to study how systems will behave in the real world, where fluid and heat transfer are the driving factor. The software relays the overall effect of changing specific properties on components, allowing engineers to extensively examine all possible variations in the design and optimization of fluid systems. On a global scale, leading organizations apply the Flownex Simulation Environment to achieve maximum potential of their systems both in design and operational states. By delivering fast, reliable, and accurate system and subsystem-level simulation, companies are able to set themselves apart from their competitors by allowing them to solve their engineering challenges quickly and more robustly, though the use of this cutting-edge simulation technology. The global demand for Flownex has shown exponential growth over the last few years, and as more organizations adopt the technology the developers continuously strive to push the boundaries in system simulation. Recent sales in the US to Aerospace, Oil & Gas, Turbomachinery, Mining, and Solar Power companies have contributed to the recent global growth of Flownex Simulation Environment users.

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Rand 3D Sponsors Dassault Systèmes' 3DEXPERIENCE Customer FORUM

12 November 2013

[Rand Worldwide](#) today announced its [Rand 3D](#) division will showcase their complete Dassault Systèmes design engineering solutions including software, training, support and consulting services at the 3DEXPERIENCE Customer FORUM. The forum will be held at the Aria Resort & Casino in Las Vegas on November 12 and 13, 2013.

“Our customers have told us that purchasing the software is only one part of the full equation for business success,” says Grant O’Donnell, sales director, enterprise applications for Rand Worldwide. “The true value of a technology partner is in their ability to be in lock-step with their client’s business needs. This includes consulting to identify how technology fits their business processes, making a complex implementation easy, providing training that ensures adoption of the new technology, and providing resources who not only know the software, but also understand the industry’s business challenges.”

Training Expertise

Rand 3D offers a [complete array of training services](#) including: in-person classes, LIVE Online training, custom training as well as self-paced eLearning and knowledge assessments. Rand 3D’s teaching faculty

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are dedicated, full-time employees certified in both instructional delivery and software use. These subject matter experts inject real-world experiences into the equation whether they are teaching online, in one of more than 30 Training Centers across North America, or on-site at a customer location.

To ensure the richest educational experience possible, Rand 3D uses curriculum developed by [ASCENT – Center for Technical Knowledge](#). The sole focus of ASCENT is to provide clients with the best training materials available for the industry’s leading design engineering software applications, including those from Dassault Systèmes.

ProductivityNOW

Extending the rich learning experience beyond the classroom, Rand 3D also offers access to [ProductivityNOW](#) eLearning, with curriculum developed by ASCENT - Center for Technical Knowledge. This self-serve eLearning knowledgebase offers Dassault Systèmes users 24/7 access to an unrivaled community of technical resources and eLearning offerings. Content includes tips and techniques, video demonstrations, and hands-on exercises.

Software Offering

Rand 3D offers customers the [latest software releases](#) and updates for software including: 3DVIA Composer, CATIA PLM Express, CATIA V5, CATIA V6, DELMIA PLM Express, DELMIA V6, ENOVIA SmarTeam, ENOVIA Synchronicity, ENOVIA V5 VPM, ENOVIA V6, and V6 PLM Express.

To learn more please visit rand3d.com, follow Rand 3D on Twitter at [@Rand3D](#) and visit the Rand 3D booth (S22) at the Dassault Systèmes’ 3DEXPERIENCE Customer FORUM.

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Financial News

Cimatron Reports Best Ever Third Quarter with Record Q3 Revenues, Operating Profit and Net Profit

12 November 2013

Cimatron Limited today announced financial results for the third quarter and first nine months of 2013.

Highlights of Cimatron's results for the third quarter of 2013 include the following:

- 45% increase in y-o-y non-GAAP operating profit, to a Q3 record of \$1.4 million
- 62% increase in y-o-y non-GAAP net profit, to a Q3 record of \$1.1 million
- Record Q3 revenues of \$10.3 million, a 9% y-o-y increase (6% in constant currencies)
- 88% gross margin and 14% operating margin on a non-GAAP basis
- \$0.11 non-GAAP EPS

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- \$12.9 million end of quarter net cash balance

Commenting on the results, Danny Haran, President and Chief Executive Officer of Cimatron, noted, "We are very pleased to report Q3/13 as a record third quarter in practically all parameters. In particular, we are pleased that the year-over-year revenue growth in the quarter was translated to significant year-over-year growth in operating and net profits.

"We remain faithful to our long term product strategy, striving to bring ever more value to our customers via internal development as well as through new third party partnerships. Our recent agreement with MachineWorks, to incorporate their Polygonica software inside CimatronE, is a perfect example. We believe that our enhanced investment in R&D, as well as in sales and marketing, will support further revenue and profit growth going forward. In parallel, we continue to explore M&A opportunities, where synergy can be found in terms of product, technology or distribution channels," concluded Mr. Haran.

Cimatron's management will host a conference call today, November 12, 2013, at 9:00 EST, 16:00 Israel time. On the call, management will review and discuss the results, and will answer questions by investors.

To participate, please call one of the following teleconferencing numbers. Please begin placing your call at least 5 minutes before the conference call commences.

USA: +1-888-668-9141

International: +972-3-9180610

Israel: 03-9180610

For those unable to listen to the live call, a replay of the call will be available beginning on the day after the call at the investor relations section of Cimatron's website, at: www.cimatron.com

To view an unabridged version of this press release, visit: <http://www.cimatron.com/Group/pressreleases.aspx?FolderID=3099&docID=23343&lang=en>

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HP to Present Live Audio Webcast of Fourth Quarter Earnings Conference Call

12 November 2013

HP will conduct a live audio webcast of its conference call to review its financial results for the fourth fiscal quarter ended Oct. 31, 2013.

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The call is scheduled for Tuesday, Nov. 26, at 5 p.m. ET / 2 p.m. PT, and will be available at www.hp.com/investor/2013Q4earnings.

A replay of the audio webcast will be available at the same website shortly after the call and will remain available for approximately one year.

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Synopsys Announces Earnings Release Date for Fourth Quarter and Fiscal Year 2013

14 November 2013

Synopsys, Inc. today announced it will report results for the fourth quarter and fiscal year 2013 on Wednesday, Dec. 4, 2013, after the market close.

A conference call to review the results will begin at 2:00 p.m. PT (5:00 p.m. ET) and will be hosted by Aart de Geus, chairman and co-chief executive officer, and Brian Beattie, chief financial officer.

Financial and other statistical information to be discussed on this conference call will be available on the corporate website at <http://www.synopsys.com>, immediately before the call. A live webcast will also be available on this site. Participants should access the live webcast at least 10 minutes prior to the start of the call. A webcast replay can be accessed on the corporate website beginning Wednesday, Dec. 4, 2013, at approximately 4:00 p.m. PT. The replay will remain available until Synopsys announces its first quarter fiscal year 2014 results in February 2014. In addition, a dial-up replay of the conference call will be available beginning Dec. 4, 2013 at 4:00 p.m. PT, ending on Dec. 18, 2013 at midnight. The replay telephone number is USA(800) 475-6701, and International (320) 365-3844, Access Code 308548.

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TXT e-solutions: 2013 nine-month revenues grew +16.2%, EBITDA +9.2%

6 November 2013

The Board of Directors of TXT e-solutions, chaired by Alvisé Braga Illa, approved TXT financial results for the period ended on September 30, 2013.

In the first nine months of 2013 the key business objectives for TXT have been the Luxury and Fashion markets in Europe and in North America, where TXT offers its proprietary software TXT Perform for “end to end” planning of large, international Luxury and Retail customers.

Revenues grew by 16.2%, from €34.1 million to €39.6 million. Sales of licences and maintenance

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totalled €10.2 million (26% as a percentage of revenues), up +31.9% compared to September 30, 2012.

Both business areas made a positive contribution to growth in revenues, with TXT Perform and TXT Next increasing +25.4% (60% of group revenues) and +4.4% (40% of group revenues), respectively.

International revenues rose from €17.5 to €21.5 million, up +22.4% (54% of total sales).

EBITDA grew by 9.2%, from €4.4 million to €4.8 million (12.0% of revenues). In the first nine months of 2013, several new initiatives in support of planned growth increased Research and Development costs (+23.4%) and Commercial costs (+15.9%). All research and development costs were expensed both in 2013 and in 2012.

Net Income amounted to €2.9 million (7.3% of revenues), compared to €3.6 million in the first nine months of 2012, which included €0.6 million extraordinary capital gain on the sale of KIT Digital shares, following the divestiture of Polymedia. Lower tax charges partly balanced higher amortization costs and financial charges following the Maple Lake acquisition.

Net Financial Position has risen from €6.0 million positive as of 31 December 2012 to €6.3 million as of September 30, 2013, due to good cash generation and net of payment of dividends of €2.1 million. At both dates Net Financial Position does not include €2.8 million provision for maximum Earn-out payable to Maple Lake sellers. No additional payment is expected as the contractual target for exceptional synergies are not verified to date, nor expected. Final acquisition price is reduced from €13.1 million to €10.1 million and Balance Sheet and Net Financial Position as of December 31, 2012 have been restated to reflect the final acquisition price.

Shareholders' Equity as of September 30, 2013 amounted to €26.5 million, compared to €26.0 million as of December 31, 2012 mainly due to net income of the first nine months (€2.9 million), net of payment of dividends (€2.1 million), purchase of treasury shares (€0.8 million) and issue of shares for stock option and stock grant plans.

In the first nine months of 2013, TXT Perform launched on the market new "TXT Mobile" and "TXT on Cloud" applications and new releases of TXT Perform.

To view an unabridged version of this press release, visit: <http://www.txtgroup.com/Documents/CS%20-%20206%2011%202013%20-%20Results%209m%202013%20-%20Eng.pdf>

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Implementation Investments

Camper Chooses Centric Software Product Lifecycle Management

12 November 2013

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Camper, an innovative Spanish footwear company, has selected Centric Software, Inc. to provide its [product lifecycle management \(PLM\)](#) solution.

Designers, collection managers, and staff from costing, materials, technical development, fitting, quality and industrialization will use the Centric 8 [PLM software for footwear](#) products. Camper users also will include the company's internal product development teams that work in the off-shore factories.

The footwear company selected Centric after extensive vendor screening, explains Sito Luis Salas, chief operating officer at Camper. "Centric 8 is easy to implement, learn and use, is flexible, and will be able to support the continuous changes Camper experiences throughout the product development process," he says.

Camper will use the Centric 8 solution to replace outdated PLM software and spreadsheets and to support a company reorganization, according to Luis Salas. The Centric 8 solution will provide "a single version of the truth" about products, enable improved internal and external collaboration during the reorganization, and more easily integrate the off-shore development team into all changes.

"Centric is excited to partner with Camper, a company known for over a century of innovative leadership in the footwear industry," says Chris Groves, president and CEO of Centric. Camper valued the two companies' shared culture of creativity and innovation, as well as Centric's footwear industry knowledge and experience, he adds. "Centric's innovative, out-of-the-box, configurable software—combined with Centric's [Agile Deployment \(SM\)](#) methodology—will help Camper in its ambitious organization and growth goals in the worldwide footwear market."

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Dassault Systèmes and IDEX Solutions Congratulate North American Eagle Driver Jessi Combs for Breaking the Women's Land Speed Record

13 November 2013

[Dassault Systèmes](#) and its partner [IDEX Solutions](#) congratulate [North American Eagle](#) on its recent setting of a new land speed record. North American Eagle Supersonic Speed Challenger driver [Jessi Combs](#) claimed the title of fastest woman on four wheels by achieving an average speed of 397 miles per hour in the Alvord Desert in southeastern Oregon on October 9, 2013. Combs broke the 48-year old record of 308.51 mph set by Lee Breedlove in 1965.

"It is always amazing to see the new historic feats our partners regularly achieve," said Bruno Latchague, Managing Director, North America, Dassault Systèmes. "Every day we see our customers and partners *think* of new things, *do* new things and surpass monumental moments in the history of human achievement. Congratulations to North American Eagle and Jessi Combs."

The North American Eagle LandSpeed Program's goal is to test the capability of a land-based vehicle to safely transition through supersonic speed. The program will fundamentally transform the transportation industry as findings from the project have the potential to impact high-speed rail, ground effects of high-speed aircraft in the landing configuration as well as deceleration methods for high-speed vehicles. Use of Dassault Systèmes' 3DEXPERIENCE platform helps team members simulate and analyze fuels, lubricants and materials to understand their impact on vehicle performance and help the team stay ahead of their British counterparts in the pursuit of major land speed records.

North American Eagle team owner Ed Shadle will discuss the team's historic challenge for the North American land speed record at Dassault Systèmes' 3DEXPERIENCE Customer FORUM in Las Vegas today. Shadle will continue to push the boundaries of innovation by attempting to break Andy Green's 1997 land speed record of [763.343 mph](#) in 2014.

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Russian State Nuclear Corporation NIAEP-ASE Uses Intergraph® SmartPlant® Fusion to Capture and Manage 3D Model Data

11 November 2013

The Russian nuclear state company NIAEP-ASE and Intergraph® have successfully executed a facility laser scanning and 3D model data capture with SmartPlant® Fusion during construction of the Rostov NPP plant.

NIAEP-ASE's project needed accurate digital as-built information about the facility which was missing from the original construction and design documentation. SmartPlant Fusion enabled NIAEP-ASE to quickly create an as-built model of the facility, by integrating photorealistic Leica laser scan data, SmartPlant 3D models, and scanned paper documentation. The SmartPlant Fusion portal now provides a comprehensive view of all technical asset information for the nuclear power plant operations and maintenance personnel to use as a master system for subsequent mechanical and operations work.

Due to the success of this project, this technology is now considered for all future projects by NIAEP-ASE. The company will now be able to build plants in a more efficient and safer manner by having all plant 3D models and engineering data integrated in a single platform, and accessed through a simple photorealistic portal.

Rostov NPP plant is one of the largest nuclear plants in the south of Russia, supplying 15 percent of the region's electricity. The plant is located on the Tsimlyansk reservoir in the lower stream of the Don River near Volgodonsk, Rostov Oblast and is also known as Volgodonsk Nuclear Power Plant. The plant generates 25 million kilowatt per hour daily and about 8 billion kWh in a year. The facility operates two water-cooled water-moderated energetic reactors with a total capacity of 1,000 megawatts, with two additional units under construction.

With regards to the continued collaboration with NIAEP –ASE, Gerhard Sallinger, Intergraph Process, Power & Marine president, stated: "NIAEP-ASE has recognized the power of engineering information management to ensure efficient handover, reduce costs, and improve plant safety. We are proud of the results to date, and look forward to continued success."

SmartPlant Fusion is the latest solution developed by Intergraph to rapidly capture, organize, and make available large volumes of previously unstructured information through a simple web portal interface. The types of unstructured information include documents, drawings, lists and sheets, 3D models, and High Definition Survey (HDS) photorealistic laser scans.

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TAIYO YUDEN Chooses ZW3D to Boost CNC Machining Productivity

13 November 2013

[ZW3D](#) today announced that it has been selected by [TAIYO YUDEN](#) for its sophisticated CAM technology and the ability to seamlessly connect product design to manufacturing. Fully compatible with data of mainstream CAD software, ZW3D will help TAIYO YUDEN speed up [manufacturing](#) and improve productivity.

Since TAIYO YUDEN's inception in 1950, it has been engaged in the development and mass production of electronic components including capacitors, inductors, circuit products and many more, serving renowned IT and electronic companies such as Apple, Sony, Panasonic and Samsung.

The Need

TAIYO YUDEN has seen an increasing demand for high-quality and precision products. Although it has been using 3D CAD software for machining for years, it found that the insufficient CAM functions cannot meet its production requirements and has hindered its development. To stay ahead of the competition, TAIYO YUDEN must constantly enhance its products, so it is seeking more efficient CAD/CAM solutions with less financial investment.

The Solution

TAIYO YUDEN selected ZW3D to optimize productivity after in-depth research and testing. Integrated with advanced [product design](#), [mold design](#) and [2-5 axis machining](#), ZW3D managed to cover most of its manufacturing needs and CAM requirements. Engineers can transfer their creative ideas into 3D models, process more efficient simulation and conduct manufacturing faster than ever before. The seamless workflow between design and manufacturing greatly reduces the design cycle and improves the efficiency of projects.

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Data exchange has also been improved with the increased compatibility with mainstream 2D and 3D CAD platforms. Mainly engaged in electronic components like capacitors, inductors, MLCC and MLCI, TAIYO YUDEN usually uses 2D CAD for drafting and sketching, before importing the data to 3D design software for simulation and computer-aided manufacturing. Accurately converting 2D data will contribute to improving work efficiency and raising productivity.

“There have been concerns when choosing new 3D design software, but ZW3D relieved our doubts with its excellence in strong data compatibility and the efficient conversion from 2D to 3D. We can now cooperate with our manufacturer in a more efficient way,” Commented an engineer from the Design Department in TAIYO YUDEN

The Service

The ZW3D technical team provides technical support to help TAIYO YUDEN stay up-to-date with the latest technology. Optimized for the ease of use, ZW3D can be quickly mastered designers, helping them ensure maximized machining efficiency during real work.

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Product News

3D Systems Announces Geomagic Capture: First Integrated Scan-Based Design and Inspection Solutions

12 November 2013

[3D Systems](#) today announced the availability of Geomagic Capture[®], a family of powerful, integrated desktop scanner and software tools for professional scan-based design and quality inspection ranging in price from \$14,900 to \$24,900. The company plans to exhibit its entire Geomagic Capture family December 3-6 at EuroMold 2013 in Frankfurt, Germany, and commence commercial shipments the same week.

Geomagic Capture is available in six configurations, and each package includes a compact, ultra-precise, blue light LED scanner directly integrated with Geomagic software including:

- Geomagic Capture for SolidWorks[®]
- Geomagic Capture for SpaceClaim[®]
- Geomagic Capture for Design X
- Geomagic Capture for Design Direct
- Geomagic Capture for Control
- Geomagic Capture for Verify

Using Geomagic Capture, designers and engineers can for the first time instantly incorporate real world

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objects into CAD at their desktop. Using easy and intuitive software with direct CAD plugins Geomagic Capture compresses design time, increases productivity and delivers significantly faster product development cycles. Geomagic Capture packages address a variety of applications including precision desktop scanning and integrated high-quality inspection software with pushbutton workflow and automated reporting. Geomagic Capture packages are the most affordable in their class making them accessible to broader audiences that until now could not afford high quality desktop scanning and lab metrology inspection solutions.

“The introduction of Geomagic Capture is a significant step on the road to fulfill our commitment to reimagine the engineer’s desktop with cutting edge design, scan and inspect tools,” said Calvin Hur, Vice President and General Manager Geomagic Solutions, 3D Systems. “With its unprecedented performance and affordability, Geomagic Capture ushers in a new era of design-to-manufacturing productivity and utility.”

Geomagic Capture is available for pre-order worldwide and will commence commercial shipment in early December 2013.

For more information, and to request a demonstration of Geomagic Capture, visit <http://geomagic.com/en/products/capture/overview/>.

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BOXX Workstation Earns CATIA Certification, Demos at 3DExperience 2013

12 November 2013

BOXX Technologies, a leading innovator of high-performance computer workstations and rendering systems, today announced that their 3DBOXX 4150 XTREME workstation has achieved CATIA® certification, joining an elite group of workstations certified by Dassault Systèmes to run its CAD/CAM/CAE commercial software suite. 4150 XTREME will demonstrate CATIA November 12-13, in booths B1 and B2 at Dassault Systèmes' 3DExperience Customer Forum inside the Aria Resort & Casino in Las Vegas, NV. Strategically partnered with Dassault Systèmes, BOXX is a designated SolidWorks Solution Partner, and leading manufacturer of CATIA and SolidWorks-certified workstations.

"BOXX provides engineers and designers with the high performance hardware they need to work faster and more efficiently," said Shoaib Mohammad, BOXX VP of Marketing and Business Development. "If you rely on CATIA or other professional engineering applications, the 3DBOXX 4150 XTREME will help you reduce costs, while boosting your software application performance by over twenty percent."

Featuring an overclocked, 4th generation, Intel® Core™ i7 processor capable of running up to 4.3 GHz, the SolidWorks-certified 3DBOXX 4150 XTREME includes liquid cooling and a compact chassis

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designed for space-constrained environments. 4150XT is available with NVIDIA Maximus technology, combining the visualization and interactive design capability of NVIDIA Quadro® GPUs with the high-performance computing power of NVIDIA Tesla® GPUs. 4150XT provides outstanding support for engineering, product design, and architectural applications, as well as other frequency driven software.

The BOXX booth at 3DExperience will also include CATIA v6 demonstrations on an additional CATIA-certified system, the multi-GPU 3DBOXX 8950. Featuring four dual-slot graphics, coprocessor, or accelerator cards (NVIDIA Maximus technology), three additional PCI-E slots, dual eight-core Intel® Xeon® E5-2600 processors, liquid cooling, and 512GB system memory, the versatile 3DBOXX 8950 delivers high-powered performance for advanced visualization, simulation and computation. The certified system includes one NVIDIA Quadro K2000 and four NVIDIA Tesla K20 cards. In addition to CATIA, 8950 is also an ideal workstation platform for ENOVIA V6 and SIMULIA Abaqus 6.12.

"Multitasking more effectively, meeting critical project deadlines, and increasing productivity are essential to success," says Mohammad. "When engineers and designers visit us at 3DExperience, they'll discover how these applications are supposed to run, and why CATIA-certified BOXX workstations are so vital to their workflow."

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CADsoft Consulting Offering Solutions for Transportation

11 November 2013

[CADsoft Consulting Inc.](#), today announced that it is now offering a new product, [Autodesk Vehicle Tracking 2014](#) aimed to improve its transportation portfolio from [Autodesk, Inc.](#)

Autodesk Vehicle Tracking 2014 is a comprehensive analysis and design solution and companion for civil engineers and designers using the 2013 and 2014 versions of Autodesk AutoCAD, Autodesk AutoCAD Civil 3D, Autodesk AutoCAD Architecture, Autodesk AutoCAD Plant 3D, Autodesk AutoCAD Map 3D and Autodesk AutoCAD Utility Design. Based on field-proven technology assets recently acquired from Savoy Computing Services, Autodesk Vehicle Tracking 2014 enables engineers, designers, and planners working on transportation or site design projects to predictably evaluate vehicle movements.

Key Benefits for Road Designers, Civil and Traffic Engineers

- Enhance productivity and evaluate more what-if scenarios earlier in the process of designing roundabouts, intersections and loading bays
- Help save time and money integrating industry proven analysis methods in the design process
- Conduct interactive simulations to better understand project performance related to traffic turning movements

"We are excited to offer this technology to our customers with much requested solutions for complex roundabout design and layouts while maintaining compliance with appropriate design standards," stated Don Kapetanovic, VP Technical Operations, CADsoft Consulting. "Our team of Civil 3D technical experts are looking forward to demonstrating the advantages of integrating this technology into our customer's design workflows."

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ESI Releases a new Version of ProCAST

12 November 2013

[ESI Group](#) announces the release of [ProCAST 2013.5](#) along with its dedicated user environment [Visual-Cast 9.0](#), both designed to enable foundries to improve casting yield and quality thanks to more efficient processes and solvers.

[ProCAST](#), ESI's casting simulation software, results from over 25 years of collaboration with major industrial partners and academic institutions all over the world.

The solution offers an extensive suite of modules and tools enabling foundries to meet the most challenging industrial requirements. [ProCAST](#) is well adapted to predict distortions and residual stresses after casting and addresses specific processes including core blowing, centrifugal, lost foam, semi-solid and continuous casting.

"ProCAST empowers foundries to address the most technically demanding tasks in casting, while reducing lead time, increasing productivity and controlling cost. This release offers best-in-class casting simulation in a single, integrated and customizable environment. The new fluid flow solver delivers twice faster turnaround time and improved accuracy"- Marco Aloe, Product Manager, ESI Group

[ProCAST 2013.5](#) features a new version of the fluid flow solver that benefits from the accuracy of the Finite Element Method (FEM), the efficiency of the Finite Volume Method (FVM), and the speed of the Multi-Grid linear solver used by many prominent CFD software packages.

[ProCAST](#)'s improved fluid flow solver and the modified porosity model enable the precise modeling of large titanium structures made by centrifugal casting, as demonstrated in the frame of the [COLTS](#) project, an international co-operation between China and Europe.

[ProCAST](#)'s user environment [Visual-Cast 9.0](#) provides significant improvements in turnaround time, offering faster and more intuitive handling capabilities. In addition, foundries can now design their very own workflows; encapsulating practices and adjusted to particular needs.

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To answer the growing needs of advanced casting simulation, the release incorporates the Time-Temperature Transformation (TTT)/ and Continuous Cooling Transformation (CCT) approaches for modeling Heat Treatment, and the full integration of the CAFE module to model grain structure.

New capabilities dedicated to specific processes are also introduced, including a die locking force indicator, a new turbulence model, and an improved misrun prediction model.

Importantly, the thermodynamic databases used to compute the material properties are extended.

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Infinite Skills' "SolidWorks - Mold Tools Tutorial" Offers Advanced Study in Specialized Area of Mechanical Modeling

14 November 2013

Software training firm Infinite Skills Inc. last week introduced its "SolidWorks - Mold Tools Tutorial," an advanced course providing specialized training in the mold tools palette of the popular 3D modeling software for mechanical engineers.

Solidworks is a computer aided design program that uses a parametric, feature-based assembly system for building mechanical models. By learning the mold tools palette, users can master SolidWorks' tools for designing molded parts, including importing, analyzing, and surfacing molded parts.

Infinite Skills' "SolidWorks - Mold Tools Tutorial" offers a comprehensive guide to the mold-design process and prepares students for SolidWorks certification in the mold tool palette.

Course author Matt Perez is a certified expert in SolidWorks who has worked in training and private training consulting, helping companies develop training strategies and improve efficiency in the program since 2011. He was recently recognized by SolidWorks for a tutorial on SolidWorks that focused on designing a Chevrolet Camaro. He has been using SolidWorks since 2009.

Perez begins with an introduction to the commands and toolbars used in creating molds, including an overview of the entire process of designing a molded part, from analysis through design and final editing.

The course then covers essential functionality, looking at how to perform critical analysis of your part with draft, undercut, and parting line analysis.

From there, the course covers the elements of mold design, explaining how to create a parting line,

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surfacing functions, and creating the main core and cavity of the molding.

The course then closes with a lesson on working with imported surfaces and performing manual edits, before closing with a guide to the mold tools certification exam.

"This course is designed to allow users to successfully navigate the mold tools environment," Perez says. "We'll talk about creating a mold, and we'll look at each command and work through examples."

Free demo videos and a full list of course contents can be found on the SolidWorks - Mold Tools training page of the Infinite Skills website: <http://www.infiniteskills.com/training/solidworks-mold-tools.html>.

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MathWorks Introduces LTE System Toolbox for MATLAB

13 November 2013

MathWorks introduced its new [LTE System Toolbox](#), providing standard-compliant simulation, verification, and analysis of LTE and LTE-Advanced wireless communication systems and devices. The toolbox is an extension to [MATLAB](#) and [Communications System Toolbox](#) and is intended for use by engineers who need to design or verify wireless systems conforming to the LTE standard.

As the LTE standard expands in complexity, ensuring correct design and implementation is a top challenge for developers of LTE components and end-equipment in the commercial, military, security, and public safety wireless markets. Those products must be tested to ensure conformance to the standard, but developing the testing is expensive and requires specialized knowledge to understand the standard and implement validated reference models.

LTE System Toolbox provides standard-compliant LTE and LTE-Advanced golden reference models and test waveforms that help engineers:

- ***Reduce risk***: by providing confidence that designs conform to the LTE standard
- ***Save time***: by reducing in-house tool development requirements
- ***Use engineering resources efficiently***: by allowing engineers to focus on creating unique IP instead of creating reference models and generating test signals
- ***Understand and reuse components***: by facilitating understanding of the standard, design exploration, and reuse as components are developed and implemented

"As the market for LTE technology grows, engineers need to verify that their product designs conform with, or can co-exist with, the LTE and LTE-Advanced standard," said Ken Karnofsky, senior strategist for signal processing applications, MathWorks. "In addition, because LTE is extremely complex and

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continues to evolve, very few companies have the resources or expertise to do this in-house. LTE System Toolbox will help teams to achieve standard compliance without a large engineering investment.”

LTE System Toolbox is available immediately. [Get pricing and other product information.](#)

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Nemetschek Vectorworks Releases Localized Versions of Vectorworks 2014 in Europe

11 November 2013

Nemetschek Vectorworks, Inc. is pleased to announce the availability in Europe of several localized versions of the Vectorworks® 2014 line of design software, including Vectorworks Designer, Architect, Landmark, Spotlight, Fundamentals and Renderworks®. Versions in each country’s native language are now available in Portugal, Norway, France, Germany, Austria, Switzerland, Italy and the Benelux region.

“Our strong network of distributors makes it possible for us to meet the needs of designers around the world on a local, personalized level,” said Stewart Rom, Chief Marketing Officer of Nemetschek Vectorworks, Inc. “We value close relationships, and many of the improvements in this new version of Vectorworks software are the direct result of feedback from our users. We’re particularly excited about the new patent-pending X-ray Select technology and an innovative new visualization engine with fast interactive rendering.”

The Vectorworks 2014 software contains more than 130 improvements, including new BIM tools for architects, increased site design capabilities for landscape architects and designers, as well as enhancements to lighting devices, documentation and graphic controls for entertainment designers. Visit <http://www.vectorworks.net/2014> to learn more about all the new features in Vectorworks 2014 software.

Please visit <http://www.vectorworks.net/international> to find a local distributor.

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SPRING Technologies Announces NCSIMUL DNC 8.20: Connecting and Monitoring your CNC Machines is now so easy

14 November 2013

SPRING Technologies, vendor of solutions that enhance the productivity of NC machines, is launching the new version 8.20 of its NCSIMUL DNC solution, supporting CNC program life cycle management and real-time monitoring of machine status in the workshop.

“An integral part of the NCSIMUL SOLUTIONS range, the NCSIMUL DNC module is the ideal addition, delivering complete control of the global machining process. From CAM to machined part, production resources are much easier to manage, with clear, one-click reporting”, explains Olivier Bellaton, Managing Director of SPRING Technologies.

THE NEW FEATURES OF NCSIMUL DNC 8.20

Highlights:

- An enhanced user experience for more efficient collaboration
- More automation to boost productivity
- Easier installation to enable rapid, efficient deployment
- Tighter integration for a leaner digital process

In detail

1. ENHANCED USER EXPERIENCE for greater productivity and faster execution

For customized reporting, using the quick and simple customization functions, you can create all kinds of reports to match specific corporate needs. The key performance indicators, defined in-house for each user profile (workshop manager, production manager, site manager, etc.), are easy to access and facilitate instant communication of key metrics to the whole workshop community.

In this way, you can select the periodicity for monitoring indicators, and the different types of indicators (opening time, required time, running time, net time, effective time, etc.) for each monitored machine. The data can then be consolidated in a PDF file or displayed in real time by the NCSIMUL DNC application from any supervisory workstation, offering global control of the workshop and contributing to the process of continuous improvement of the use of production resources.

Document traceability is available with one-click access. Access to histories and version traceability is more intuitive and directly available from the ISO program version management window.

Finally, NCSIMUL DNC, implemented on Toughpad (Panasonic’s rugged tablet), makes total mobility in the workshop a reality for operators and managers, via an interface and specific functions designed especially for use on a touch pad. The interface has been streamlined, the main buttons resized, enhancing access to functions and cutting out input errors, notably when qualifying machine status.

“After synchronizing real machining with machining simulation and making instruction sheets accessible from a Toughpad — a capability that we demonstrated at EMO — we are progressing the execution of our vision: the NCEXPERIENCE®, by taking the leading functions of NCSIMUL DNC and real-time machine status monitoring on to a mobile platform. A major step forward for all the stakeholders in the workshop, and notably for our customers who will be able to leverage the synergy offered by the NCSIMUL SOLUTIONS range,” explains Philippe Solignac, Corporate Marketing

Director, SPRING Technologies.

2. MORE AUTOMATION to boost productivity

When a program is imported, machine recognition and selection is fully automatic. This means that when a user wants to import a program associated with a machine, NCSIMUL DNC now suggests this machine by default.

The list of available programs is automatically updated, enabling operators to save invaluable seconds when a program is unloaded.

Finally, automatic comparison of machining files has been enhanced and is based on a CRC code (calculated according to file content). When an operator has to manually unload a program, the new calculation method considerably improves the reliability of machining file comparison during the unloading phase and instantly tells the user whether the unloaded program is identical to the previously loaded program, yielding an instant time-saving for operators.

3. EASIER INSTALLATION for faster deployment

Connection to the databases has been simplified, as has deployment via the install wizard. This enables a simple and rapid deployment of NCSIMUL DNC, configuration and testing of the connection to the database. There is no need for a specialist to install this new version of NCSIMUL DNC 8.20.

A library of standard report formats is supplied by default, with an editor that can be used to create customized reports. These templates automatically integrate a range of standard productivity metrics including the Overall Equipment Effectiveness (OEE), the Overall Rate of Return (ORR), and the Economic Rate of Return (EIRR), enabling rapid generation of all reports required to monitor machine-tool production activity.

4. TIGHTER INTEGRATION for a leaner digital process

NCSIMUL DNC now comes natively integrated with standard market databases, such as Oracle, Access, SQL Server and Postgre sql. Whichever database you are using, native integration significantly reduces data access time and fits seamlessly into any policy to make data accessible for all external processing (reports, ERP interfaces, etc.).

NCSIMUL DNC is interfaced with Mazatrol (the proprietary language used on Mazak machines), enabling Mazatrol files to be imported from the Isotop software.

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Verenia Joins the Aras Partner Program

13 November 2013

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Aras® today announced that Verenia, a provider of best-in-class technology solutions, located in Chicago, Illinois, has joined the Aras Partner Program. Verenia will apply its expertise in custom software development and ERP to help Aras users automate business processes, and improve efficiency, productivity and profitability.

Verenia helps clients in diverse industries improve performance, comply with complex regulations, reduce costs, leverage technology and stimulate growth. The company leverages its unique capabilities and broad experience to assist clients in assessing their current environment, formulating new and creative tactical and strategic alternatives, and implementing positive change across their enterprises. For more information please visit <http://www.verenia.com>

“Verenia has deep and rich knowledge of both business processes and modern software development, making them a great choice for Aras users looking to automate complex processes. We are pleased to welcome Verenia to the Aras Community and the Aras Partner Program,” said Peter Schroer, President of Aras.

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Workflow Just Got Even Faster

14 November 2013

Edgecam’s game-changing Workflow tools just got even faster. Workflow is already renowned for enabling CAD/CAM engineers to apply toolpaths within seconds, and now, based on customer feedback, many enhancements have been made in the latest release, Edgecam 2014 R1, mainly in the two areas of part setup and stock and fixture management, giving additional control and saving even more time.

Workflow was specifically designed for manufacturers to reduce costs, improve quality and hit shorter lead times by giving direct access to Edgecam’s accelerated toolpath technology.

A **Machine Feature** command allows users to interactively select a feature on their component, which will then be machined. The user can elect to only rough, finish, or rough and finish, meaning they have full control over their manufacturing order, without the need to apply full automation.

And **Fixture Manager** sees the introduction of chucks and collets that can be used for milling and turning. An additional time-saver: the fixture manager will also automatically filter valid and invalid fixtures based on component size, and offer a dynamic placement preview before it is placed on to the component.

There are a number of manufacturing enhancements within the new Edgecam 2014 R1, including **New**

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Chamfering Cycle, which is a modern command supporting 2D and 3D geometry. The option to automatically debur sharp edges also removes the requirement to prepare geometry, which is another time-saver. It fully supports cutter radius compensation as well as 3D chamfering.

Support for 3D Normal Offset Output: Surface machining cycles now have an added control to compensate for tool wear on 3D machining toolpaths. This gives greater accuracy and control on tight tolerance components.

Further enhancements to Edgecam's ease of use include a new design CPL datum marker with colour coded rotation bars and axis labelling. And following on from the introduction of pictures on dialogs in 2013 R2, this has been extended to the 'rough and finish turn cycles' promoting ease of use for new or infrequent users.

Also, Edgecam 2014 R1 introduces an interactive editing tool for re-designing standard dialog boxes. The ability to "Mask" the standard interface allows users to pick which modifiers settings are displayed, empowering them to create command dialogs aligned to their preferred manufacturing methods.

Parts of Edgecam have gone mobile in 2014 R1. The new **Live Job Reports** is designed to be simple, easy and quick for small customers, while being very powerful for advanced users who want to customise it. It keeps the same performance on both small and large databases, easily handling thousands of tools and toolkits. And as this function runs on a website, the client can be a PC, and even a tablet or phone, making it possible to access the reports from the shopfloor on the go, without the need to print.

A new item of functionality in Part Modeler finds fillet radii on third-party imported solid models and allows them to be edited. This **Finding and Editing Fillets on Imported Models** feature aids users preparing CAD data for manufacture.

Other Part Modeler enhancements include advanced loft and sweep commands which allow users to loft dissimilar shapes and add guide curves.

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ZWCAD+ Achieves Seamless Integration with Windchill

12 November 2013

[ZWCAD Design](#) has developed a portal within [ZWCAD+](#) to enable seamless integration with [Windchill](#), the leading PLM software offered by [PTC](#). This successful integration provides a solid foundation for users who want to combine ZWCAD+'s robust functionality with Windchill's efficient product lifecycle management for faster time-to-market, reduced cost and better productivity.

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The high-quality portal has developed tailored features including batch check-in, batch check-out, user data management and PDF plot function to meet the unique needs of PLM system users, and will enable them to easily import and export their data to the PLM system.

“ZWCAD+’s powerful APIs enable us to efficiently customize specific features to meet customers’ needs,” said Daniel Huang, Product Manager of ZWCAD+. “This time, the seamless integration with Windchill eliminates the barrier for ZWCAD+ to interface with the PLM system and improves process efficiency. We are delighted that some other world-renowned PDM/PLM companies in China have already cooperated with us both in product integration and marketing cooperation.”

In addition to system integration with PDM and PLM, ZWCAD+ is working with more application developers to provide the industrial solutions to CAD users. Please visit [ZWCAD APP+](#) to learn more.

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