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CIMdata News

CIMdata to Offer Workshop on Product Lifecycle Management Collaboration, Integration, and Sustainability

14 August 2014

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces that a workshop will be jointly hosted by the company's PLM Enterprise Value & Integration Knowledge Council and the Social Product Development & Collaboration Knowledge Council. The workshop will take place on Friday, October 3 in Plymouth, Michigan, the day following its annual PLM Road Map conference.

The theme for the workshop will be "Collaboration, Integration, and Sustainability: Keys to Maximizing the Value of PLM." Workshop participants will gain a solid understanding of current technologies and the work that is being undertaken in the areas of collaboration, integration, and the sustainability of PLM value to the enterprise. According to Thomas Gill, CIMdata's Practice Manager for PLM Enterprise Value & Integration, "Integration, collaboration, and solution resiliency are core topics industrial companies need to understand to achieve their business objectives."

The workshop will provide a highly interactive environment with a selection of real-world examples supplemented by panel discussions, interactive exercises, networking sessions, and hands-on working sessions. The workshop will be facilitated by CIMdata's domain experts Dr. Ken Versprille, Dr. Suna Polat and Mr. Thomas Gill.

For more information visit <http://www.cimdata.com/en/education/knowledge-council-workshops/pevi-and-spdc-workshop-2014>

About CIMdata

CIMdata, a leading 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 Product Lifecycle Management (PLM) solutions. Since its founding in 1983, CIMdata has delivered world-class knowledge, expertise, and best-practice methods on PLM solutions. These solutions incorporate both business processes and a wide-ranging set of PLM-enabling technologies.

CIMdata works with both industrial organizations and providers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The

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company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia-Pacific. To learn more about CIMdata's services, visit our website, www.CIMdata.com; follow us on Twitter at <http://twitter.com/CIMdataPLMNews>; 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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GM's Executive Director for Global Powertrain Embedded Controls, Daniel E. Nicholson to Keynote at CIMdata's 21st PLM Road Map™ in Plymouth, Michigan in October

12 August 2014

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces that GM's Executive Director for Global Powertrain Embedded Controls, Daniel E. Nicholson will make a keynote presentation at PLM Road Map™ 2014 that will show how PLM can help accelerate product development when it enables well managed model-based systems engineering.

In his keynote address, "Model-Based Systems Engineering and PLM," Nicholson will show how important it is for the systems engineers of the future to have realistic, virtual models which can evolve as knowledge is acquired, thus providing the best decision making environment possible for producing robust products. As part of this presentation he will also discuss the importance GM places on its key PLM, virtual engineering, and embedded systems development suppliers integrating their solutions well.

Nicholson is the Executive Director for Global Embedded Controls at GM. In this role he is responsible for running the day-to-day operations of the global engineering team that is responsible for all powertrain controllers and software as well as calibrating all powertrains, providing customer-pleasing drive quality, and ensuring compliance with tailpipe emissions standards, and on-board diagnostics. Nicholson joined GM in 1982 and has an extensive background in product engineering progressing through a series of leadership positions in the USA and in Germany.

PLM Road Map 2014 is the must-attend event for industry executives and PLM practitioners globally—providing independent education and a collaborative networking environment where ideas, trends, experiences, and relationships critical to the industry germinate and take root. It is a strategic conference focused on how companies are successfully employing PLM strategies and enabling solutions to meet challenging product development, manufacturing, and deployment issues. This year's event will focus on PLM-enabled continuous product development and delivery for the automotive and transportation Industry and supply chain.

For more information visit <http://www.cimdata.com/en/education/plm-conferences/plm-road-map-2014>

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Acquisitions

3D Systems Acquires Sister Companies APP and APM Broadening its Aerospace Reach

13 August 2014

[3D Systems](#) announced today that it has acquired American Precision Prototyping (APP) and sister company American Precision Machining (APM), both expert providers of rapid prototyping and advanced manufacturing, product development and engineering services, further extending its service bureau operations in the United States. Details of the transaction were not disclosed.

Headquartered in Tulsa, Oklahoma, APP and APM bring over 24 years of combined advanced prototyping and manufacturing service bureau experience to 3DS with significant aerospace presence. Their production capabilities include a strong regional infrastructure and long-term, key relationships with companies in the sector.

“APP and APM bring a wealth of experience and bench strength in both advanced manufacturing and the aerospace industry that is highly complementary to our offerings,” said Ziad Abou, Vice President and General Manager, Quickparts for 3DS. “This acquisition further enhances our North American capabilities and expertise.”

“3D Systems is, bar none, the recognized leader in advanced manufacturing with an exceptional track record in providing the highest quality parts services globally,” said Jason Dickman, President of APP. “We have been a long-standing customer of 3DS’ SLA and SLS printers, materials and software, and we couldn't be more excited to join the team as it positions us to provide unparalleled parts services to our customers far into the future.”

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PTC Completes Acquisition of Axeda

13 August 2014

[PTC](#) today completed its acquisition of [Axeda Corporation](#), a developer of solutions that securely connect machines and sensors to the cloud. Axeda's technology innovation, extensive customer base, and powerful partnerships directly complement the [PTC ThingWorx business](#), and will accelerate PTC's ability to deliver best-in-class solutions to its customers in the Internet of Things era.

An innovator in the IoT technology market, Axeda serves more than 150 customers, processing hundreds of millions of machine messages daily across multiple industry sectors. The company has a [broad partner ecosystem](#) that includes leading mobile network operators, device makers, systems integrators, and business systems/analytics providers - and its technology leadership has led to several strategic OEM agreements with leading IoT technology and solution providers.

Axeda offers IoT technology built on a modern architecture purpose-built for collecting and organizing the world's machine and sensor data. Axeda software enables companies to establish secure connectivity, and remotely monitor, manage, and service a wide range of connected machines, sensors, and devices. Examples of capabilities include:

- The [Axeda Machine Cloud Service](#) consists of machine-to-machine (M2M) and IoT connectivity services, software agents, and toolkits that allow companies to securely connect their products to the cloud using virtually any communication channel (cellular networks, the Internet, WiFi, or satellite).
- The [Axeda Connected Content Application](#) enables efficient, secure, reliable, and cost-effective mass distribution of content to connected products and automates the remote installation of software updates and security patches.
- The [Axeda Connected Service Application](#), a complement to PTC's portfolio of SLM solutions, provides field service and technical support personnel with a Web-based graphical interface and a comprehensive set of tools to remotely identify, diagnose, and repair problems with devices connected to the Axeda Platform.
- Axeda's end-to-end security strategy covers all levels of the IoT technology stack, including network, application, user, and data security. Axeda has attained ISO 27001:2005 certification, supporting the company's focus on delivering the highest levels of security, performance, and availability.

"This acquisition signals PTC's commitment to becoming one of the premier technology players in the IoT market, i.e., a smart, connected world," said Predrag (PJ) Jakovljevic, principal analyst, Technology Evaluation Centers (TEC). "PTC intends to leverage the Axeda technology portfolio to complement its existing ThingWorx® rapid application development platform and its existing service lifecycle management (SLM) and product lifecycle management (PLM) solution portfolios. Axeda's strengths of IoT connectivity and device management combined with the ThingWorx IoT rapid application development tools enriches PTC's IoT technology stack."

"With Axeda, PTC gains leading technology, customers, partners, revenue, and employees with deep IoT expertise," said PTC president and CEO Jim Heppelmann. "This acquisition complements our ThingWorx business, supplements our SLM offering, enhances our portfolio of PLM and other applications, and positions us to better serve our customers in the dynamic new world of smart, connected products. We now have established one of the industry's largest Centers of Excellence

focused on the Internet of Things."

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Samsung to Acquire SmartThings, Leading Open Platform for the Internet of Things

15 August 2014

Samsung Electronics Co., Ltd. today announced that it has entered into an agreement to acquire SmartThings, the leading open platform for the smart home and the consumer Internet of Things. SmartThings supports an open and growing ecosystem of developers, who are producing new types of connected devices and unique apps in the cloud that change how everyday objects work. With Samsung's resources and support, SmartThings will be able to expand its platform and become available for even more partners and devices.

The company will continue to operate independently under founder and CEO Alex Hawkinson, and will become part of the Samsung Open Innovation Center (OIC), which is responsible for bringing software and services innovation to Samsung Electronics. SmartThings will move its headquarters from Washington, DC to Palo Alto, California.

Founded in 2012, SmartThings gives people power to monitor, control, and automate their homes from wherever they are through a single mobile app. SmartThings' open platform supports more than 1,000 devices and 8,000 apps created by its community of device makers, inventors, and developers.

"SmartThings has created a remarkable universe of partners and developers and now has the most engagement of any smart home platform in the world," said David Eun, Head of the OIC. "Connected devices have long been strategically important to Samsung and, like Alex and his team, we want to improve the convenience and services in people's lives by giving their devices and appliances a voice so they can interact more easily with them. We are committed to maintaining SmartThings' open platform, fostering more explosive growth, and becoming its newest strategic partner."

"As an open, standards-agnostic platform for the Internet of Things, our vision has always been to innovate, build, and make the world smarter, together," said Alex Hawkinson. "With Samsung behind us, we will be able to attract more device makers and developers to unlock the limitless possibilities of the consumer Internet of Things. We are thrilled to become part of the Samsung family and continue our goal in making every home a smart home."

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Company News

3D Systems Adds 200,000 Square-Foot Manufacturing Facility in South Carolina

12 August 2014

[3D Systems](#) announced today that it has signed a lease on a new 200,000 square foot facility in Rock Hill, South Carolina, increasing its manufacturing and distribution capacity to meet growing demand for its 3D printers and materials. The addition of this new manufacturing and distribution center is part of the company's previously announced expansion, which is expected to generate hundreds of new jobs over time.

This move will consolidate and strengthen all existing Rock Hill based manufacturing and distribution operations in support of the company's rapidly expanding range of 3D printers and materials. The company plans to expand its R&D and engineering operations using freed-up space in its current headquarters building.

3DS recently opened its Rock Hill 3D innovation and learning center, designed to showcase the growing impact of its pioneering advanced manufacturing technology in key applications, such as aerospace, automotive, medical, education and the 3D-printed lifestyle. This interactive center showcases 3DS' entire range of products, tools and solutions and the endless possibilities that they create for customers, resellers and partners around the world.

"Our continued Rock Hill expansion underscores our commitment to localized manufacturing, demonstrating through our actions that what is designed locally can be built locally," said Avi Reichental, President and CEO, 3DS. "This investment is in direct response to the growing demand for our professional printers."

The company expects its new facility to be fully operational during the first quarter of 2015. Those interested in job opportunities with 3DS should visit the company's careers webpage at www.3dsystems.com/careers.

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BIMobject Reaches Milestone with 50,000 Registered Users on the BIMobject® Portal

11 August 2014

The BIMobject® Product Portal was launched in February 2012 and today is proud to announce that it has reached 50,000 registered users. It means a very high value for all their manufacturers who publish their products as digital objects on-line and makes them available for building projects through the BIMobject® Product Portal.

The 50,000 registered users from all over the world are professional architects, designers, constructors and engineers using the BIMobject® Product Portal to download and integrate building and interior products into their building information models. The users have downloaded more than 900,000 BIM objects since the start in February 2012, meaning that the same amount of products have been made visible and integrated in a building design somewhere in the world.

The number is steadily increasing every day with an average of 1,000 new users every week. The

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BIMobject strategy is to quickly become the European Market leader in the BIM object business area. A base of 50,000 registered users makes BIMobject® a place where Manufacturers can be more visible with their products, get integrated, be specified and win the business.

“It is amazing to see so many users on the BIMobject®Portal and to see demands fulfilled. After only 2,5 years we have already reached 50 000 users and the BIMobject®Portal is now one of Europe’s most frequently used services for downloading digital products. We are constantly developing the Portal and increasing the number of published manufacturers - working hard to make sure that the BIMobject®Portal will be the obvious choice for architects and design professionals. With our large and growing user base the BIMobject®Portal now represents a very efficient marketing channel for our customers”, says Stefan Larsson, founder and CEO at BIMobject.

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Bruce Kenny Joins Viewpoint Construction Software to Drive Global Development Team

11 August 2014

Bruce Kenny joins Viewpoint Construction Software® in a newly created role as Vice President of Global Product Development. Viewpoint has been the construction industry’s technology partner of choice for more than 35 years and is an innovator in the construction-specific software market space with more than 700 employees committed to developing and supporting software for construction industry professionals.

“Bruce understands the opportunities we have in a growing global industry that is rapidly adopting new technologies. We are thrilled to have someone with his extensive background in business and product development join our expanding team,” stated Jim Paulson, President at Viewpoint. “ Technology is rapidly changing and Viewpoint looks to deliver solutions on a variety of platforms – Cloud, Mobile and On Premises. As technology continues to evolve at a record pace, we’ll look to Bruce to ensure we remain contemporary and deliver solutions that make our customer’s job easier.”

Bruce lives in Portland and will be based out of Viewpoint’s headquarters on Water Avenue. Bruce previously worked for Portland-based Webtrends where he successfully transitioned their product line and large customer base from predominantly On Premises software to globally scaled SaaS solutions. Bruce is originally from Vancouver, BC and also worked for Pivotal Corporation for five years in customer-focused enterprise software development.

“Viewpoint has built a tremendous reputation in the industry and frankly they have a great story to tell. They are a high integrity business, with a passionate customer base and highly motivated global team building world class software for a very large and compelling market,” stated Bruce. “Technology adoption has accelerated rapidly in the construction industry over the last few years as companies look for efficiencies and competitive advantages - it is a really compelling and exciting time to be a part of this industry. Viewpoint has always been an innovator and I am honored to be part of this team and lead us through the next wave of innovation securing our position as the dominant solution partner to the construction industry. ”

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CNC Software Launches New Mastercam Web Site

11 August 2014

CNC Software has rebuilt their Web site (www.mastercam.com) from the ground up for ease of use and to provide more features for their Mastercam customers. Launched on June 23, 2014, the new Web site offers billboard campaigns, a new user forum, and so much more.

The enhanced site also provides a more streamlined layout for finding information and a new search feature to find what interests you quicker. Organization of the site has been improved for quicker access to information. Without having to navigate into the site, the front page displays many hot topics such as Solutions, Industries, Support, and more.

Since Mastercam is such a popular choice in the Educational market, the updated Web site has many sections dedicated entirely for instructors and students. It contains information on learning tools, gives information on student competitions, details on certification, video testimonials, and more.

Mastercam customers will benefit from some new additions. After registering, customers will have access to new features such as the official CNC Software user forum, a knowledge base, video tutorials, and much more. Non-customers will also benefit as well with access to well-organized product information.

A few key sections of the Web site include:

Users Forum: Log into the forum to learn manufacturing tips from other Mastercam users, get technical assistance from CNC Software employees, or just join in on an interesting conversation. Several forums are available which cover a wide spectrum of industries.

Knowledge Base: The Mastercam.com knowledge base has a wide array of information covering common problems and solutions for all of the Mastercam products. This self-help center can be a huge time saver and is available 24-hours a day. CNC Software employees are frequently adding articles, so check back often.

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IIT Hyderabad and NIST Behrampur Win Cadence India Design Contest 2014

15 August 2014

Cadence Design Systems (India) Pvt. Ltd., a subsidiary of Cadence, today announced the winners of the Cadence India Design Contest 2014. A flagship initiative of the Cadence University Program, the 10th annual edition provided engineering students an opportunity to showcase their talents in electronic design.

The team from Indian Institute of Technology (IIT) Hyderabad took the prize in the Master's category for their project titled "Inductor-Less Reconfigurable Charge Pump Based Micro-Scale Energy Harvesting System For Self-Powered Devices" and the Bachelor's category prize was awarded to the team from the National Institute of Science and Technology (NIST) Behrampur for their work on

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“Windows-Based Optimized Digital FIR Low-Pass Filter For iPod MP3 Player.” Two teams from NIT Hamirpur and BMS College of Engineering received Special Mentions in the Master’s and Bachelor’s categories respectively.

As in year’s past, participating students were allowed to submit two different projects for the competition. The projects were judged by an specialist committee consisting of Cadence and industry experts against criteria including inventiveness, complexity, feasibility, breadth of design, effective tool usage, and presentation.

“Over the years, Cadence Design Contest has become one of the most eagerly awaited design competitions in the EDA and electronic eco-system thanks to the enthusiastic participation from the engineering student community,” said Jaswinder Ahuja, corporate vice president and managing director, Cadence Design Systems (India) Pvt. Ltd. “Through the Design Contest and the Cadence University Program, we will continue to provide the next generation of Indian innovators and entrepreneurs an avenue to showcase and advance their engineering skill sets. Congratulations and thank you to all the winners and the participants.”

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Siemens Helps University of Michigan Solar Car Team Secure 8th National Championship

13 August 2014

The University of Michigan crossed the finish line in Minneapolis to win their eighth national championship in the 2014 American Solar Challenge. The team, which switched to Siemens product lifecycle management (PLM) software technology in 2013 as their primary tool for product design and development, successfully completed a seven-day course across eight states, four hours faster than its nearest competitor. The team will now spend the next year using a wide range of Siemens PLM software to design, manufacture, test and optimize performance of a four-wheel car to compete in the 2015 World Solar Challenge in the Australian Outback.

“As our fifth straight national championship, this is a huge win for our team, and it’s a powerful testament to the value of Siemens’ PLM software.” said Pavan Naik, Michigan Solar Car project manager. “We realize that to win the global solar challenge, we need to move from understanding the performance of individual components of the vehicle to understand how the entire vehicle works as a system. The switch to Siemens tools will give us the ability to model and simulate everything and truly allow us to optimize the performance of our new vehicle. As we start on our quest to win the World Solar Challenge in 2015, we’ll be leveraging a full complement of PLM solutions.”

Since its establishment in 1990, the team has built 12 vehicles including Quantum, which was developed for this year’s 1,722-mile American Solar Challenge. The team, which consists of almost 100 members, also races in the World Solar Challenge with a vehicle named Generation. Both vehicles were developed and built with the assistance of Siemens PLM Software solutions. Siemens is also a platinum sponsor of the team.

Siemens’ PLM software technology is used by manufacturing companies worldwide to develop some of the world’s most sophisticated products. In the global automotive industry alone, Siemens software is used throughout product development and manufacturing by more than 90 percent of the world’s top 15 automotive OEMs and nearly 90 percent of the top 25 Tier One auto suppliers. Siemens makes its

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software available to academic institutions like the University of Michigan, to support a highly trained and heavily recruited future workforce.

“Siemens is committed to science, technology, engineering and math (STEM) education, and is proud to have supported the University of Michigan team’s race toward victory,” said Dave Taylor, vice president of Global Marketing, Siemens PLM Software. “Our advanced PLM technology will continue to help elevate the performance of this highly successful team as they prepare for their next challenge.”

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Viewpoint Construction Software and Solibri Partner to Bring Improved BIM Collaboration and Quality Control to North American Markets

13 August 2014

[Viewpoint Construction Software](#) announced they have partnered with [Solibri LLC](#), to offer the North American building and construction markets an end-to-end BIM solution that provides advanced quality assurance features which ensure the coordination and validation of drawings and models occurs during the preconstruction, construction and facilities management phases. [Viewpoint For Project Collaboration](#) affords project teams with a configurable Common Data Environment (CDE) that act as the BIM workflow engine, enabling the entire project supply chain to ensure that the right BIM data is made available to the right people at the right time. When used in conjunction with the Solibri solution, construction professionals are offered a greater quality of control in their CDE, seeing improved cost management, delivery timing and maintenance work throughout the design, build and maintenance of their spaces.

Both Viewpoint For Project Collaboration and Solibri solutions work with OpenBIM standards and their combination further demonstrates that reliable and comprehensive BIM workflows are being achieved using models from a variety of BIM authoring software.

“Viewpoint and Solibri’s solutions are naturally complementary and fulfill important elements of the workflows required for effective clash detection and BIM use by contractors,” stated Matthew Harris, Viewpoint’s senior vice president of strategy and corporate business development. “By extending our partnership with Solibri from the UK to North America, we are able to provide North American project teams a solution for both model validation/co-ordination and model collaboration. In particular, the benefits achieved from this partnership offer another quintessential example of how open standards-based BIM applications enable solution providers to collaboratively bring to market complete BIM software offerings for the building and construction industries.”

“Solibri recognizes that effective adoption of BIM requires more than just a single solution,” stated Jonathan Widney, President with Solibri LLC. “Solibri and Viewpoint bring award winning products to customers looking to implement more complete BIM solutions for model validation and collaboration. With our solutions, AEC users can benefit from the flexibility of open standards based platforms which save time, money and resources. In working with Viewpoint we have found a partner that supports our beliefs and works to ensure the delivery of real value to the industry.”

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Events News

Delcam's new PowerMILL and FeatureCAM to debut at AMB

14 August 2014

Delcam's German customers will have their first chance to see the 2015 versions of the company's FeatureCAM and PowerMILL CAM systems on stand 4B-32 at the AMB exhibition to be held in Stuttgart from 16th to 20th September. Both of the programs contain major enhancements that will help manufacturing companies to increase productivity, improve quality and reduce lead times.

The new release of PowerMILL, Delcam's programming system for high-speed and five-axis machining, includes improvements to the Vortex high-efficiency area-clearance strategy, expanded collision checking to also cover near misses, and more efficient raster finishing.

Vortex produces safe toolpaths with a much deeper cut by using a controlled engagement angle that maintains the optimum cutting conditions for the whole toolpath. As a result, higher feed rates and material-removal rates are possible, making the cutting time shorter by as much as 70%. In addition, cutting is undertaken at a more consistent volume-removal rate and at a near constant feedrate, so extending tool life and protecting the machine.

Two enhancements in PowerMILL 2015 will give even greater reductions in machining time with Vortex compared to conventional roughing. The first change allows toolpaths to approach the part from outside the stock at the cutting height for open pockets or in areas where earlier cuts have made this possible.

The second change allows an increased feed rate to be set for non-cutting moves. The default value is set at double the rate for the cutting moves but this can be altered as required for each machine tool. The extra time that can be saved depends on the shape of the part but an additional saving of around 20% should be expected above the earlier releases of Vortex.

FeatureCAM was the world's first feature-based programming software when it was launched in 1995. Constant development since then has ensured that the system has retained its leadership in programming speed and ease of use, while an increased range of strategies has been added to provide more efficient toolpaths that give greater productivity on a wider range of machinery, including mill-turn machines, five-axis mills and wire EDM equipment.

FeatureCAM 2015 includes a range of enhancements in three-axis milling, two-axis and five-axis drilling, turning and turn-mill, and wire EDM to make the software even more powerful and easier to use.

FeatureCAM 2015 also allows easier programming of families of parts. Working with the part library, the software matches the names of features within the part library with user-created curves relating to those features. This makes the programming of subsequent parts in the family much easier and faster.

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Delcam to Demonstrate Vortex High-Efficiency Area Clearance at Seco

15 August 2014

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Delcam will demonstrate the huge time savings that can be made with its Vortex high-efficiency area-clearance strategy at Seco's 'Inspiration through Innovation' manufacturing best-practice event to be held at the company's premises in Alcester, Warwickshire, on 24th and 25th September.

For full details on the event, please go to www.secotools.com/en-GB/GB-United-Kingdom/Events/Inspiration-through-Innovation/.

The Vortex strategy 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.

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.

Two enhancements in the new PowerMILL 2015 release will give even greater reductions in machining time with Vortex compared to conventional roughing. The first change allows toolpaths to approach the part from outside the stock at the cutting height, both for open pockets and in areas where earlier cuts have made this possible. Previously, all entry moves had to be made by plunging onto the surface or by ramping into the material.

The second change allows an increased feed rate to be set for non-cutting moves. The default value is set at double the rate for the cutting moves but this can be altered as required for each machine tool. The extra time that can be saved depends on the shape of the part but an additional saving of around 20% should be expected above the earlier releases of Vortex.

Other companies taking part in 'Inspiration through Innovation' include Mazak, Mills CNC, Nikken, George Kingsbury, Renishaw, Roemheld and REM Erowa.

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Speakers and Topics Announced, Attendance on Track to be Largest GPDIS Summit Ever

14 August 2014

Keynote speakers and presentation topics have been officially announced for the sixth annual Global Product Data Interoperability Summit.

The September 8-11 event will feature industry-leading aerospace, automotive, software and IT experts who will address the importance of preserving data quality through the value stream.

CIMdata PLM Industry Summary

The Summit is of interest to anyone in the CAD/CAM/CAE/PLM space—commercial or academic—who would like to participate in discussions about best practices in data management and exchange. Attendance has grown consistently with each annual Summit.

“Early registration for this year’s Summit is the highest we’ve seen,” says conference organizer Ken Tashiro of [Elysium](#). “We see this as a good sign that this year will be the biggest GPDIS ever.”

There is still time to register. Additional registration information for the event, which takes place at the Pointe Hilton Squaw Peak Resort in Phoenix, AZ, can be found [here](#). Register before August 15 for a reduced registration rate. Registration is open through August 29.

In addition to co-hosts [Boeing](#), [Northrop Grumman](#), [Parker Aerospace](#), and [Elysium](#), presenters and sponsors include Airbus, Dassault Systèmes, Honeywell, Microsoft, HP and many others (see full list below). Keynote speakers include Technical Assurance IT Director Sarah Mayer of Boeing, VP & Chief Information Security Officer Michael Papay of Northrop Grumman, Associate Professor and AerosPACE Director Dr. Steve Gorrell of Brigham Young University, PLM Harmonization Center Senior Manager Dr. Amaury Soubeyran of Airbus Group, and VP of Integrity William Schmiede of Parker Aerospace.

Boeing, Northrop Grumman and Parker Aerospace will conduct closed sessions for the first day; sessions open to registered attendees begin September 9 and run through September 11. For the full list of speakers, visit: <http://www.gpdisonline.com/index.html>

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Supplier to Discuss Space Exploration Projects at IMTS 2014 Next Intent Owner Rodney Babcock to be hosted by Gibbs and Associates

11 August 2014

Gibbs and Associates today announced that Rodney Babcock, president and owner of Next Intent, will deliver a presentation in the Gibbs and Associates booth at IMTS 2014. Mr. Babcock has 35 years’ experience in manufacturing, including manual and computerized CNC programming and machining. He will discuss national space exploration projects and his company’s participation in the manufacturing, assembly and testing of specific components for these projects. Specializing in the design, machining and assembly of components for aerospace, defense, and national laboratories, Next Intent is located in San Luis Obispo, California. Mr. Babcock’s presentation will be on Tuesday, September 9 – Thursday, September 11th daily at 10:00 a.m. and at 2:00 p.m., in the Gibbs and Associates Booth, E-3310.

Next Intent has been a Gibbs customer since its founding by Mr. Babcock, in 1996, using GibbsCAM to program all of its milling and turning machines. The company has been a user of GibbsCAM solids and 5-axis machining since 2000. Among its various projects, Next Intent has provided components for the Mars Exploration Rovers Spirit and Opportunity, the Mars Science Laboratory Rover Curiosity, the James Webb Space Telescope, the National Ignition Facility (operated by the Lawrence Livermore National Laboratory), and the Antares Rocket, developed for missions to the International Space Station. IMTS will run September 8-13, 2014, at Chicago’s McCormick Place. The GibbsCAM (and CimatronE) exhibit is in Booth E-3310 of the Controls and CAD-CAM Pavilion.

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Financial News

Agilent Technologies Reports Third-Quarter 2014 Results

14 August 2014

Agilent Technologies Inc. reported orders of \$1.74 billion, up 9 percent over one year ago, for the third fiscal quarter ended July 31, 2014, and revenues of \$1.77 billion, up 7 percent compared with one year ago. Third-quarter GAAP net income was \$147 million, or \$0.43 per share. Last year's third-quarter GAAP net income was \$168 million, or \$0.49 per share.

During the third quarter, Agilent had pre-separation costs of \$62 million, intangible amortization of \$50 million, a net loss on extinguishment of debt of \$21 million, and a tax benefit of \$14 million. Excluding these items and \$4 million of other net benefits, Agilent reported third-quarter adjusted net income of \$262 million, or \$0.78 per share⁽¹⁾.

"Agilent generated strong revenue and earnings this quarter, exceeding the high-end of our forecasted guidance," said Agilent President and CEO Bill Sullivan. "We're seeing continued improvement in our markets and good order growth across our businesses."

"While delivering these solid results, the Agilent and Keysight teams have done an outstanding job of executing the company separation to date," he added. "We are on track for the formal separation in early November, and both companies are well positioned for the future."

Third-quarter revenues for Electronic Measurement-now Keysight- increased 8 percent compared with a year ago. Operating margins were 20 percent. Orders increased 7 percent over a year ago. Keysight began operating as a wholly owned subsidiary of Agilent on Aug. 1. The subsidiary is expected to formally separate from Agilent in early November 2014, when its common stock is expected to trade on the New York Stock Exchange with the ticker symbol KEYS.

In Life Sciences, Diagnostics and Applied Chemical Markets (LDA)-the new Agilent-revenues grew 6 percent compared with a year ago, led by growth in environmental, forensics, pharma and clinical/diagnostics. LDA operating margins were 19 percent. Orders were up 10 percent year over year.

Agilent generated \$28 million of cash from operations in the quarter. Third-quarter ROIC was 17 percent⁽³⁾.

Fourth-quarter 2014 revenues are expected to be in the range of \$1.81 billion to \$1.85 billion. Fourth-quarter non-GAAP earnings are expected to be in the range of \$0.87 to \$0.91 per share⁽²⁾.

For the full fiscal year 2014, Agilent expects revenue of \$6.99 billion to \$7.03 billion and non-GAAP earnings of \$3.04 to \$3.08 per share⁽²⁾.

To view an unabridged version of this press release, visit:

<http://www.agilent.com/about/newsroom/presrel/2014/14aug-gp14021.html>

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Aspen Technology Announces Financial Results for the Fourth Quarter and Fiscal Year 2014

13 August 2014

CIMdata PLM Industry Summary

Aspen Technology, Inc. announced financial results for its fourth quarter and fiscal year ended June 30, 2014.

“We are pleased to report a strong finish to fiscal 2014, with fourth quarter results that exceeded our expectations across all key financial metrics,” said Antonio Pietri, President and Chief Executive Officer of AspenTech. “During fiscal 2014 AspenTech grew total license contract value in excess of 12% year-over-year and generated \$200 million of free cash flow. AspenTech continues to deliver new innovation through the aspenONE subscription software offering and we are confident about the runway for growth through increased adoption levels across our customer base.”

Fourth Quarter and Fiscal Year 2014 Business Highlights

- The license portion of total contract value was \$1.85 billion at the end of fiscal 2014, which increased 3.4% from March 31, 2014 and 12.2% compared to the end of fiscal 2013.
- Total contract value, including the value of bundled maintenance, was \$2.2 billion at the end of fiscal 2014, which increased 3.9% from March 31, 2014 and 13.7% compared to the end of fiscal 2013.
- Annual spend, which the company defines as the annualized value of all term license and maintenance revenue contracts at the end of the quarter, was approximately \$380 million at the end of fiscal 2014, which increased 3.1% from March 31, 2014 and 12.3% compared to the end of fiscal 2013.

To view an unabridged version of this press release, visit:

https://www.aspentech.com/_ThreeColumnLayout.aspx?pageid=2147485680&id=2147491347

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Autodesk Reports Record Revenue Results

14 August 2014

[Autodesk, Inc.](#) reported financial results for the second quarter of fiscal 2015.

Second Quarter Fiscal 2015

- Total billings increased 27 percent, compared to the second quarter of fiscal 2014.
- Total subscriptions increased by approximately 74,000, from the first quarter of fiscal 2015.
- Revenue was a record \$637 million, an increase of 13 percent, compared to the second quarter of fiscal 2014 as reported, and increased 13 percent on a constant currency basis. Revenue contribution from the recent acquisition of Delcam was approximately \$11 million.
- GAAP operating margin was 8 percent, compared to 15 percent in the second quarter of fiscal 2014.
- Non-GAAP operating margin was 18 percent, compared with 24 percent in the second quarter of fiscal 2014. A reconciliation of GAAP to non-GAAP results is provided in the accompanying tables.
- GAAP diluted earnings per share were \$0.13, compared to \$0.27 in the second quarter of fiscal 2014.

CIMdata PLM Industry Summary

- Non-GAAP diluted earnings per share were \$0.35, compared to \$0.45 in the second quarter of fiscal 2014.
- Deferred revenue was a record \$981 million, an increase of 22 percent, compared to the second quarter of fiscal 2014.
- Cash flow from operating activities was \$96 million, an increase of 47 percent, compared to the second quarter of fiscal 2014.

"Strong demand on a global basis and expanding adoption of our suites solutions drove strong billings and record revenue results," said [Carl Bass](#), Autodesk president and CEO. "We also made meaningful progress in the transition to a more recurring, subscription-based business, adding approximately 74,000 maintenance, desktop (rental), and cloud subscriptions. As a result, we significantly increased deferred revenue, which is rapidly approaching \$1 billion. Our strong results and positive view of the macroeconomic environment led us to raise our outlook for billings, revenue, and subscription additions for fiscal 2015."

Second Quarter Operational Overview

Revenue in the Americas increased 11 percent compared to the second quarter last year to \$223 million. EMEA revenue was \$244 million, an increase of 21 percent compared to the second quarter last year as reported, and 16 percent on a constant currency basis. Revenue in APAC was \$170 million, an increase of 8 percent compared to the second quarter last year as reported, and 14 percent on a constant currency basis. Revenue from emerging economies was \$98 million, an increase of 14 percent compared to the second quarter last year as reported, and 13 percent on a constant currency basis. Revenue from emerging economies represented 15 percent of total revenue in the second quarter.

Revenue from the Platform Solutions and Emerging Business (PSEB) segment was \$208 million, an increase of 5 percent compared to the second quarter last year. Revenue from the Architecture, Engineering and Construction (AEC) business segment was \$218 million, an increase of 23 percent compared to the second quarter last year. Revenue from the Manufacturing business segment was \$168 million, an increase of 17 percent compared to the second quarter last year. Revenue from the Media and Entertainment business (M&E) segment was \$44 million, flat compared to the second quarter last year.

Revenue from Flagship products was \$307 million, an increase of 6 percent compared to the second quarter last year. Revenue from Suites was \$232 million, an increase of 20 percent compared to the second quarter last year. Revenue from New and Adjacent products was \$99 million, an increase of 24 percent compared to the second quarter last year.

To view an unabridged version of this press release, visit: <http://news.autodesk.com/press-release/corporate-sustainability/autodesk-reports-record-revenue-results>

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CENIT Remains on Track – Sales in Line with Expectations, EBIT was Exceeded in Q2

12 August 2014

In the first six months of 2014, CENIT AG generated consistent sales compared to the same period last year. The PLM segment grew by around 3%, while the EIM segment faces a further decline due to the ongoing restructuring measures. EBIT however increased significantly by 17% to EUR k 4,264. Sales of third-party software developed positively as well and could be increased by about 2%.

CIMdata PLM Industry Summary

During the first six months, CENIT group generated sales revenues of EUR k 59,700 (prior year: EUR k 60,389/-1.1%). Sales revenues in CENIT's consulting and services segment decreased by -3.6% to EUR k 26,932 (prior year: EUR k 27,937). Sales of third-party software increased by approx. 2.2% to EUR k 26,361 (prior year: EUR k 25,793). Sales proceeds from CENIT's proprietary software declined from EUR k 6,540 to EUR k 6,141 (-6.1%).

The gross yield (operating output less cost of materials) amounted to EUR k 36,960 (prior year: EUR k 36,590), representing growth of 1.0%. CENIT achieved EBITDA of EUR k 5,481 (prior year: EUR k 4,800/14.2%) and EBIT of EUR k 4,264 (prior year: EUR k 3,645/17.0%). Results per share were EUR 0.36 (prior year: EUR 0.31).

To view an unabridged version of this press release, visit:

http://www.cenit.com/en_EN/news/display/news-detail/article/cenit-remains-on-track-sales-in-line-with-expectations-ebit-was-exceeded-in-q2.html

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Cimatron Reports Record Second Quarter in all Major Parameters in Q2/2014 and Announces Dividend Distribution Policy

13 August 2014

Cimatron Limited today announced its financial results for the second quarter and first six months of 2014.

Highlights of Cimatron's results for these periods include the following:

- 24% year-over-year increase in non-GAAP operating profit for Q2, to a second quarter record of \$2.0 million;
- 28% year-over-year increase in non-GAAP net profit for Q2, to a second quarter record of \$1.5 million;
- Record Q2 revenues of \$11.8 million, a 6.5% year-over-year increase (4.4% on a constant currency basis);
- 17th consecutive quarter with year-over-year revenue growth on a constant currency basis;
- Record \$7.6 million cash flow from operating activities in the first six months of 2014 leads to end of June net cash balance of \$20.4 million or \$1.90 per share

Concurrently with the release of its financial results, Cimatron also announced today that its Board of Directors has adopted a policy for distributing dividends, subject to all applicable laws. According to this policy, each year the Company will distribute a dividend of at least 50% of its annual distributable profits from the previous year. As part of the stated policy, the Company's Board of Directors reserves the right to declare additional dividend distributions, to change the rate of dividend distributions (either as a policy or on a one-time basis), to cancel a specific distribution or to cancel the policy as a whole at any time, at its sole discretion. The Company expects to declare the first distribution under the new policy during the first quarter of 2015, based on its 2014 annual distributable profits. The actual distribution of a dividend will be subject to meeting the conditions required by applicable laws, including the distribution tests set forth in Section 302 of the Israeli Companies Law, 5759-1999, and to

CIMdata PLM Industry Summary

the specific decision of the Company's Board of Directors for each distribution.

Commenting on the news, Danny Haran, President and Chief Executive Officer of Cimatron, noted, "We are very pleased to report our best second quarter ever, with record revenues, profit and cash flow. We saw strong results from both our product lines and across all major geographical territories. Over 50% of the year-over-year quarterly revenue growth reached the non-GAAP operating profit line, demonstrating once again the strong operating leverage in our business model.

"As planned, CimatronE version 12 was officially released during July 2014. We have high expectations for this latest version, as it incorporates numerous key enhancements, as well as our first entry into the 3D Printing software market. Initial feedback from the field is very encouraging.

"Our strong performance has built our cash balance to its current level of just over \$20 million, an amount that is more than sufficient to fund our strategy for growth, including potential M&A opportunities. As such, we are happy to share our success more directly with our shareholders through the newly announced policy of significant annual dividend distributions. We are confident that our success in the years to come, coupled with the dividends that we plan to distribute, will create greater value for our shareholders while encouraging long-term interest and investment in our Company," concluded Mr. Haran.

To view an unabridged version of this press release, visit:

<http://www.cimatron.com/Group/news.aspx?FolderID=3014&docID=23642&lang=en>

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Mentor Graphics Corporation to Release Fiscal Q2 2015 Financial Results August 21, 2014

11 August 2014

Mentor Graphics Corporation announced they will release financial results for the company's second fiscal quarter, ended July 31, 2014, on Thursday, August 21, 2014, at approximately 1:15 p.m. Pacific.

- Live audio webcast at http://www.mentor.com/company/investor_relations. Please register at this website prior to the scheduled call time of 2:00 p.m. Pacific.
- Conference call replay: Begins August 21, 2014 (4:00 p.m. Pacific); Ends August 28, 2014 (11:59 p.m. Pacific). USA: 800-475-6701; International: 320-365-3844; Access code: 333999.

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Stratasys Reports Record Second Quarter Financial Results

7 August 2014

Stratasys Ltd. announced record second quarter financial results.

Total revenue for the second quarter of 2014 was \$178.5 million, an increase of 67% compared to the same period last year; or an increase of 35% when excluding the impact of acquisitions. Non-GAAP net income for the second quarter increased by 51% over the same period last year to \$28.0 million, or \$0.55 per diluted share. GAAP net loss for the period was \$173,000, or (\$0.00) per basic share.

CIMdata PLM Industry Summary

MakerBot branded products and services contributed \$33.6 million to second quarter revenue, driven by channel expansion initiatives and the successful introductions of new products within the rapidly expanding segment for desktop 3D printers.

The company raised its financial guidance for fiscal 2014 to account for an improved outlook for the remainder of the year, as well as to account for the recent acquisitions of Solid Concepts and Harvest Technologies. The company raised its organic revenue growth forecast for 2014 to at least 30%, versus a previous forecast of at least 25%.

Revenue guidance for 2014 increased to \$750 - \$770 million; versus previous guidance of \$660 - \$680 million. Non-GAAP net income guidance increased to \$2.25 - \$2.35 per diluted share, versus previous guidance of \$2.15 - \$2.25 per diluted share.

The company also updated its long-term operating model, which included raising its long-term annual organic revenue growth forecast to at least 25%, versus previous guidance of at least 20%.

In the second quarter the company announced agreements to acquire Solid Concepts and Harvest Technologies, which will be combined with RedEye, its existing digital manufacturing service business, to establish a single additive manufacturing services business unit. Both transactions closed in the third quarter, prior to the date of this release.

To view an unabridged version of this press release, visit:

<http://investors.stratasys.com/releasedetail.cfm?ReleaseID=864895>

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Implementation Investments

EST Analytical Selects Omnify Software PLM to Establish Paperless Processes for ISO Certification

12 August 2014

[Omnify Software](#) today unveils its latest [Empower PLM](#) application story featuring [EST Analytical](#), a manufacturer, distributor and service provider of analytical instruments and lab equipment. EST Analytical implemented the Empower PLM solution in order to replace paper-based product development and business processes in preparation for ISO (International Organization for Standardization) certification.

EST managed product information with a combination of multiple disconnected spreadsheets and databases. This made it difficult to find, track and share items such as Engineering Change Orders (ECOs) and Quality/Corrective and Preventive Action (CAPA) records. The company initially set out to find a document control system to establish paperless processes but found that a PLM system would address more of their challenges.

"We selected Omnify Software because of what it brought to the table that standalone document control systems could not," said Tony Batt, Quality Control Manager for EST Analytical. "With Omnify Empower we have been able to standardize business processes and centralize the management of documents, revision control and CAPAs in order to deliver consistent product to our customers and meet ISO compliance."

CIMdata PLM Industry Summary

Omnify Empower is well accepted within the company and is recognized as a key tool in controlling information and processes for ISO compliance. About one third of the company is using Omnify Empower with users from Engineering/R&D, Manufacturing, Purchasing, Quality, Sales and Service departments. The company has embraced several core concepts of the system by utilizing multiple modules including: Change Management, Bill of Material (BOM) Management, Quality Management, Project Management and integration with their Sage 100 ERP system. This enabled them to combine various manual processes into a single automated system with traceability on all changes. The company plans to take their Omnify Empower PLM investment even further with Non-Conforming Material (NCM) processing and trending, integration to their SOLIDWORKS® 3D CAD system, and utilizing the Training Management module for ISO required tools/equipment calibration management.

"As customers like EST look to establish paperless business process across their organization, they want a solution that encompasses all of the information associated to a product and that can easily integrate with their existing systems," stated Chuck Cimalore, Chief Technology Officer for Omnify Software. "Empower PLM emphasizes the importance of a complete product record by providing a holistic view of product, quality, project and training information as well as a flexible integration platform for sharing information with customers' design and manufacturing systems."

To read and download the case study, visit:

<http://www.omnifysoft.com/Customers/Success.aspx?customer=35>

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Aspen Technology Announces Financial Results for the Fourth Quarter and Fiscal Year 2014

13 August 2014

Aspen Technology, Inc. announced financial results for its fourth quarter and fiscal year ended June 30, 2014.

"We are pleased to report a strong finish to fiscal 2014, with fourth quarter results that exceeded our expectations across all key financial metrics," said Antonio Pietri, President and Chief Executive Officer of AspenTech. "During fiscal 2014 AspenTech grew total license contract value in excess of 12% year-over-year and generated \$200 million of free cash flow. AspenTech continues to deliver new innovation through the aspenONE subscription software offering and we are confident about the runway for growth through increased adoption levels across our customer base."

Fourth Quarter and Fiscal Year 2014 Business Highlights

- The license portion of total contract value was \$1.85 billion at the end of fiscal 2014, which increased 3.4% from March 31, 2014 and 12.2% compared to the end of fiscal 2013.
- Total contract value, including the value of bundled maintenance, was \$2.2 billion at the end of fiscal 2014, which increased 3.9% from March 31, 2014 and 13.7% compared to the end of fiscal 2013.
- Annual spend, which the company defines as the annualized value of all term license and maintenance revenue contracts at the end of the quarter, was approximately \$380 million at the end of fiscal 2014, which increased 3.1% from March 31, 2014 and 12.3% compared to the end of fiscal 2013.

To view an unabridged version of this press release, visit:

<https://www.aspentech.com/ThreeColumnLayout.aspx?pageid=2147485680&id=2147491347>

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Product News

Announcing New Autodesk Nastran Product Offerings

12 August 2014

Autodesk has enhanced its [Simulation software portfolio](#) with the addition of two new simulation products, [Autodesk Nastran 2015](#) and [Autodesk Nastran In-CAD 2015](#). Autodesk acquired NEi Software – and the NEi Nastran platform on which the products are based – in May 2014 in order to add additional structural analysis capabilities to the company’s growing simulation portfolio. Terms of the acquisition were not disclosed.

“Since 2005 Autodesk has been consistently adding new technology to its Simulation platform with the goal of building a comprehensive cloud-based portfolio that spans Finite Element Analysis, Computational Fluid Dynamics, plastics and composite solutions,” said Ian Pendlebury, Senior Director of Simulation at Autodesk. “Autodesk’s acquisition of NEi Software and the introduction of Autodesk Nastran and Autodesk Nastran In-CAD reinforce this long-term strategy to broaden our footprint in the mechanical simulation market as part of Autodesk’s [Digital Prototyping](#) toolset.”

Autodesk Nastran offers an industry-recognized FEA solver for analyzing linear and nonlinear stress, dynamics and heat transfer characteristics of structures and mechanical components, and providing real-time results and changes in solution parameters while solving. This technology helps engineers and analysts gain accurate results to complex simulations.

Autodesk Nastran In-CAD 2015 is a CAD-embedded, general-purpose FEA tool powered by the Autodesk Nastran solver. The new Nastran In-CAD offers a wide range of simulation spanning across multiple analysis types, delivering another high-end simulation in a CAD-embedded workflow – that works within both Autodesk Inventor and SolidWorks® – to help engineers and analysts make great products. (SolidWorks is a registered trademark of Dassault Systèmes SolidWorks Corporation.)

Additionally, the Autodesk Nastran Solver is available to customers using the Autodesk Simulation Mechanical and Autodesk Simulation Flex product offerings. Autodesk Simulation Flex, formerly Autodesk Sim 360 Pro with Local Solve, consists of:

- Autodesk Simulation Mechanical with cloud-enabled FEA tools for static stress, linear dynamic analysis and mechanical event simulations;
- Autodesk® Simulation CFD Motion including Design Study environment and 3D CAD connectors with cloud-enabled CFD tools for fluid flow and thermal simulations; and
- Autodesk Robot Structural Analysis with cloud-enabled simulation for detailed analysis and code checking on a range of structures, including buildings and frame structures.

"We've been working with Autodesk tools since the acquisition of Algor and CFDesign and have seen first-hand how incredibly powerful the combination of strong numerical solvers and Autodesk's advanced visualization, cloud and user interface tools can be," said Dmitriy Tselikhovich, Co-founder,

CEO and CTO at Escape Dynamics. "Nastran is a great solver with very powerful non-linear and dynamic simulation capabilities so its integration with Autodesk's front end and elastic cloud computing platform is extremely exciting."

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Bentley Institute Press Announces Publication of Principles of Structural Analysis – Static and Dynamic Loads

13 August 2014

Bentley Institute Press announced the publication of [Principles of Structural Analysis – Static and Dynamic Loads](#), the second book in a three-part series. This compendium of information about [STAAD.Pro](#) – a mainstay of Bentley's 3D structural analysis and design engineering software – bridges the gap between structural engineering concepts and their practical application to real-world challenges. The book is authored by Bentley Systems technical support director Krishnan Sathia, a structural engineer with more than 15 years of experience developing and applying *STAAD.Pro*.

Principles of Structural Analysis – Static and Dynamic Loads is written for a broad spectrum of readers pursuing an in-depth understanding of structural information modeling best practices. Students and early career structural engineers will learn how to model, analyze, and design using *STAAD.Pro*, while seasoned practitioners will benefit from detailed explanations of *STAAD.Pro*'s many advanced features.

Said Sathia, "I've written this book to help students become structural engineers and practitioners to become more proficient and productive. For instance, in addition to including the fundamentals of creating information models using *STAAD.Pro*, I've provided comprehensive descriptions of various methods for generating data that will save even advanced practicing engineers time and enhance their productivity."

Principles of Structural Analysis – Static and Dynamic Loads leverages the collective knowledge of structural experts and software technicians across the world to help support the information requirements of practicing engineers. By delving into the methods and principles inherent to *STAAD.Pro*, it provides a complete understanding of the program. In addition, it reviews common modeling errors and methods for avoiding or overcoming them, enabling engineers to create better and more accurate models in less time. These chapters teach engineers to verify the accuracy of their input and results to ensure models best reflect real-world conditions.

Other subjects covered include static analysis of framed structures, finite element analysis, load generation, seismic and dynamic analysis, steel design, and concrete design.

Like all of the titles in the Bentley Institute Press portfolio, *Principles of Structural Analysis –Static and Dynamic Loads* aims to deliver continuous learning to help readers increase their technical know-how and improve their workflow efficiencies.

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CADD Microsystems Launches the CADD Community, Partners with Global eTraining to Provide

Online, On-Demand Training for Autodesk Software

13 August 2014

CADD Microsystems, an [Autodesk Platinum Partner](#), today announced that it has launched the CADD Community, an online customer-only portal that integrates on-demand training, applications and extensions, videos and additional value-added content exclusively for its customers.

The CADD Community was developed from a vision to provide customers access to not only on-demand training, but also a wealth of resources built over more than 25 years in the industry. This vision came to fruition through a partnership with Global eTraining, the world's leading technical training platform for on-demand Autodesk training. Global eTraining excels at reaching students with varied learning styles through text, audio, demos, exercises, and videos, engaging all the senses and anchoring learning with action.

Through the CADD Community, CADD Microsystems is able to provide its customers with online, on-demand training for Autodesk products. In this deadline-driven industry, having access to learning resources when and where it's needed it is vital to completing projects on time and on budget. These on-demand courses complement CADD Microsystems' award-winning classroom training, which is thoroughly vetted by Autodesk, and was recently rated by students as the top training center in the Mid-Atlantic region.

"We did exhaustive research to make sure we selected the best education partner and found that Global eTraining offered a true learning management system, providing powerful reporting features and assessment capabilities on an integrated platform, which are all critical components of professional development programs," said Susan Thomson, CFO of CADD Microsystems. "Not all customers have the same learning and education needs, and this gives us more flexibility in creating custom solutions that uniquely address each of our clients' professional development plans."

"Not only that, but we've built this training offering around the CADD Community, which gives our customers access to additional content, expertise and resources that we have built over the last 25 years," Thomson continued.

"CADD Microsystems' commitment to customer success is one of the reasons we are excited to partner with them, and believe it's a true differentiator for them," said Steve Wenzel, CTO at Global eTraining. "They see our on-demand training services and the CADD Community as part of a comprehensive education offering and overall success plan for their customers. We are working on some great customer programs together, blending cutting-edge technology, online training experience and industry expertise to ensure CADD Microsystems continues to help their customers achieve their professional development goals."

The combination of classroom training coupled with the new on-demand offering and additional training programs plays into CADD Microsystems' philosophy on professional education and development being vital to the success of any organization.

"We look at training as just one part of an overall professional development plan," explained Thomson. "We're not just helping our customers train their employees. We are helping them recruit quality people, retain their employees, and open up new business opportunities through professional development. These are all proven benefits of corporate development programs and we are thrilled to be able to expand our offerings in this area."

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CADSoftTools Releases ABViewer v10

12 August 2014

CADSoftTools is glad to present ABViewer 10, a new version of CAD files editor and converter.

The 10th version includes the following features:

- Convenient navigation in 3D mode while viewing 3D models
- Supported formats: STEP, STP, IGES, IGS, BREP, STL, SAT (ACIS®)
- Export into OBJ and STL
- Copy with base point
- Embedding of Xref files into the current drawing
- Deleting of segments with one mouse click on the internal or external side of the selected outline
- Quick access to CAD file settings, layers and layout options from the window Batch print
- The window Structure now has search and access to files
- Export of bit-mapped images into DWG and DXF in the window Batch
- Command Convert to polyline converts the selected object into a polyline
- Command Show performs zooming of the selected objects in the window of the program working area
- Commands Explode all and Explode all inserts break connections between all compound objects in the drawing
- The option Show contours of composite objects added and includes showing of the objects contours while relocating complex objects
- Polyline editing improved and now parallel relocation of line segments is possible
- The option Fillet for polyline that enables the user to create arc segments of a specified radius
- The opportunity of filtration added in the window Layers
- Command line improved, system variables added

Work in 3D mode has become easier due to convenient navigation. When object is pointed with the cursor its surface is highlighted.

Structure enables the user to view file content as a tree structure and also shows all the properties of the selected object. Just one mouse click and volume and other dimensions can be seen.

Batch print of a file group has become much easier in ABViewer 10! Now individual printing options can be set for each selected file.

Such commands as Copy with base point, Convert to polyline and many others are present in the new version.

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Dassault Systèmes Announces SOLIDWORKS Education Edition 2014-2015

12 August 2014

[Dassault Systèmes](#) today announced [SOLIDWORKS Education Edition 2014-2015](#). Powered by the 3DEXPERIENCE platform, the latest version of SOLIDWORKS Education Edition includes numerous new additions to its 3D design software applications portfolio, delivering a rich array of offerings that further the ability of students to design, including 3D CAD, Simulation, Product Data Management, Technical Communication and Electrical Design.

As the global SOLIDWORKS community surpasses 100,000 certified users, educators and administrators recognize SOLIDWORKS training, education and certification are major assets validating student expertise to prospective employers.

“As a Certified SOLIDWORKS Associate (CSWA) provider, Clemson University’s engineering students have contributed to more CSWA’s than any other US university. In fact, Clemson is one of the top producers of CSWAs in the world,” said John Minor, General Engineering, Clemson University. “The General Engineering program at Clemson has provided a solid foundation to prepare students for our global commercial customers.”

“The world needs engineers, innovators, and design leaders. Dassault Systèmes is committed to improving STEM education and bringing those next generation leaders to the forefront,” said Bertrand Sicot, CEO, SOLIDWORKS, Dassault Systèmes. “The SOLIDWORKS education community is full of [SAE Collegiate Design Series](#) competitors and [FIRST Robotics](#) winners.”

The integrated SOLIDWORKS Education 2014 -2015 applications portfolio includes new tools and enhancements to improve teacher efficiency, shorten student design processes, increase team collaboration and enable educational productivity across numerous areas. Key new SOLIDWORKS Education Edition additions include, among others:

- [Teaching guides](#) and lessons, updated with new content to provide educators with additional support for developing Science, Technology, Engineering, and Mathematics (STEM) curriculum. [Click here for more information on enhanced sample curriculum](#);
- [Libraries of robot assembly models](#) to help competitive teams in FIRST robotics and other platforms such as LEGO, TETRIX by Pitsco and MATRIX. More examples will be developed as contest rules apply throughout the upcoming school year;
- [SOLIDWORKS Simulation Premium](#) for interactive FEA results. [Click here for further details](#);
- Path Dimension, a key sketch feature for robot and FSAE teams that need to design with chains and belts. [Click here for further details](#);
- Curve-Driven Patterns, a feature that enables faster and easier creation of patterns, such as chains and conveyor systems. [Click here for more details](#);
- Assembly Explode, to add rotational explode to components and more clearly and effectively communicate product assembly processes on drawings and in animations. [Click here for more details](#);
- SOLIDWORKS Electrical, sold separately, is fully integrated into SOLIDWORKS Education Edition. SOLIDWORKS Electrical enables students in engineering, robotics, and other disciplines to create electrical projects starting with 2D system schematics and ending with 3D routing and cabling interconnecting components.

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Qualified schools are given SOLIDWORKS Student Edition licenses at no charge for use by their students outside the classroom. In addition, schools with a SOLIDWORKS Education subscription can become a [Certified SOLIDWORKS Academic Exam Provider](#) and administer the Certified SOLIDWORKS Associate (CSWA) exam to their students.

In a new step for SOLIDWORKS Education, beginning this month, all FIRST Robotics teams are eligible for a SOLIDWORKS Robotics Sponsorship, which is based on and includes SOLIDWORKS Education Edition 2014-2015.

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Delcam Launches new PowerMILL CAM for High-Speed and Five-Axis Machining

11 August 2014

Delcam has launched the 2015 version of its PowerMILL CAM system for high-speed and five-axis machining. The new release includes improvements to the Vortex high-efficiency area-clearance strategy, improved collision checking to also cover near misses, and more efficient raster finishing.

For further details on PowerMILL 2015, including video demonstrations of the new functionality, please go to www.delcam.tv/pm2015/lz

The Vortex area-clearance strategy produces safe toolpaths with a much deeper cut by using a controlled engagement angle that maintains the optimum cutting conditions for the whole toolpath. As a result, higher feed rates and material-removal rates are possible, making the cutting time shorter by as much as 70%. In addition, cutting is undertaken at a more consistent volume-removal rate and at a near constant feedrate, so extending tool life and protecting the machine.

Two enhancements in PowerMILL 2015 will give even greater reductions in machining time with Vortex compared to conventional roughing. The first change allows toolpaths to approach the part from outside the stock at the cutting height, both for open pockets and in areas where earlier cuts have made this possible. Previously, all entry moves had to be made by plunging onto the surface or by ramping into the material.

The second change allows an increased feed rate to be set for non-cutting moves. The default value is set at double the rate for the cutting moves but this can be altered as required for each machine tool. The extra time that can be saved depends on the shape of the part but an additional saving of around 20% should be expected above the earlier releases of Vortex.

Another problem in previous versions of PowerMILL was that unnecessary lifts could be added to area-clearance toolpaths when the cutter moved outside the stock or close to its edge. Changes to the roughing algorithm in PowerMILL 2015 have reduced the number of lifts per toolpath slice to the minimum needed and so made area clearance much more efficient.

Companies using PowerMILL for either positional or continuous five-axis machining can benefit from improvements to the collision checking within the software. Firstly, collision checking has been changed so that warnings can also be flagged for near misses. The user can now specify a clearance value and when the machine tool comes within this value it will turn yellow in colour to highlight a near miss. Collisions are still be shown by a change of colour to red.

Secondly, the display showing the list of collisions, and now near misses as well, has been updated to be easier to read, making it simpler to extrapolate the coordinates at these points. For near misses, the

clearance distance is shown in the display, with the distance shown as zero for collisions.

Another improvement will help companies using four- or five-axis machines with trunnions or similar tilting tables. Previous PowerMILL toolpaths could exhibit unwanted changes of azimuth as the cutting tool approached a position vertical to the part. This would slow down the machine, often to the extent that a witness mark would be left on the surface. New options are now available to specify the information used by PowerMILL to distribute the toolpath points so that the machine's gimbal-lock position is avoided and a smoother motion results.

Raster finishing has also been improved in PowerMILL 2015, with the software now able to set automatically the most appropriate angle for each region of the part. In previous versions, the user had to select each area and specify the angle manually. The new option, which provides the same functionality that already existed for steep-and-shallow finishing and face milling, is most beneficial when finishing a series of pockets aligned in different directions.

A number of improvements have been made to the PowerMILL interface. Most important is a clearer form for the strategy selector that makes navigation easier when choosing which strategy to use. It has also been made easier to create folders of strategies, for example, those most suitable for a particular machine tool, material or type of part, and to add and remove strategies from those folders.

Finally, three new curve-creation options have been added to the curve editor – ellipse, spiral and helix. These options can be used to create patterns or boundaries when generating toolpaths.

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Design Faster, Smarter, and Lighter with solidThinking Inspire® 2014

12 August 2014

[solidThinking](#), Inc. today announced the latest version of solidThinking Inspire®, adding a multitude of new features. solidThinking Inspire enables design engineers, product designers, and architects to create and investigate structurally efficient concepts quickly and easily leading to reductions in cost, development time, material consumption, and product weight. Important new features in solidThinking Inspire 2014 include geometry simplification tools, linear static analysis, concentrated mass parts, and smoothing options as well as the ability to export solid geometry.

"With solidThinking Inspire 2014 we focused on enhancing the concept development process by proposing designs that can be rapidly iterated and easily exported to the user's preferred computer-aided design (CAD) tool," says Andy Bartels, Program Manager for solidThinking Inspire. "We put a strong emphasis on improving the usability of the software while adding new features like geometry simplification tools for easier model setup and analysis to help users verify their concepts, all directly in the Inspire interface. These new features will allow customers to apply Inspire to a much broader set of design problems."

More details are available on the [solidThinking Inspire 2014](#) landing page, which features a collection of new videos, including a tour of the user interface, a comprehensive overview of the latest features added for 2014, and an overview of how the software fits into the product design process. In addition, customers may access tutorials created specifically for the solidThinking Inspire 2014 release, product demos and an interactive infographic.

"solidThinking Inspire 2014 fuses direct-modeling tools like push-pull faces and powerful Booleans

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with linear static and normal modes analysis, as well as geometry simplification and concentrated mass parts," says Anthony Frausto-Robledo, Founder, Publisher, and Editor-in-Chief of Architosh. "Another exciting aspect of this tool is that it works on both Windows and Mac platforms, empowering designers to make lightweighting and material efficiency considerations prior to final engineering development."

solidThinking Inspire is used by design engineers, product designers, and architects in multiple industries including aerospace, automotive, heavy industry, architecture, and consumer products.

"Reducing part and assembly mass is important to us and solidThinking Inspire shows us how we can do this while also increasing the durability of structural components," says Martin W. Dirker, Technical Specialist of Navistar Inc. "The great thing is the rapid feedback from design to an optimized shape."

Earlier this year, solidThinking released [solidThinking Evolve® 2014](#). Evolve allows industrial designers to develop forms faster, using either a Windows PC or Mac. Evolve captures an initial sketch, then allows exploration of styling alternatives and the visualization of products with high quality renderings generated in real time. It combines both the modeling freedom of organic surfaces and the control of parametric solids with its unique ConstructionTree history feature. Evolve releases designers from the constraints of engineering-oriented CAD tools, while allowing the export of digital models required by others in the product development process.

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DST Announces SimWise V9.5

13 August 2014

DST (Design Simulation Technologies, Inc.; www.design-simulation.com), announced the availability of SimWise V9.5. This release continues to expand the Optimization, FEA, CAD Integration, and Interoperability capabilities of the product.

Dimension and other parameters from select CAD systems can now be transferred to SimWise and used as optimization variables. During an optimization run new values for these parameters are sent back to the CAD system where the CAD model is updated and sent back to SimWise to be used in the next optimization step. This allows part shapes to be changed as a result of quantities calculated by a dynamic motion simulation or an FEA analysis.

V9.5 introduces a new 3D FEA mesh generator that is more robust and faster than previous versions. Users can expect quicker results from FEA and Motion plus FEA simulations and optimizations that include FEA results.

The [Geomagic Design](#) CAD system from 3D Systems joins SolidWorks, Solid Edge, Autodesk Inventor and SpaceClaim Engineer in having a dedicated plug-in that transfers the CAD model to SimWise in an associative manner. In addition assembly constraints and design variables are also transferred and the variables can be used in Optimization runs.

Solid Edge parts and assemblies can now be opened directly by SimWise. The assembly hierarchy is now transferred from all of the of the CAD files that can be opened directly by SimWise.

V9.5 also introduces support for the 3D mice from [3Dconnexion](#). SimWise models can be panned, zoomed, and rotated at any time use the 3D mouse and SimWise commands can be assigned to buttons on those mice that support programmable buttons.

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SimWise delivers 3D kinematic and dynamic motion simulation tightly coupled with 3D Finite Element Analysis (FEA) and Optimization in a single, affordable package integrated with leading CAD systems allowing fundamental engineering questions such as “Does it work?” and “Will it break?” and “How can it be made better?” to be answered. Knowing the answer to these questions early in the design cycle allows necessary changes to be made at the most cost effective time without going through the expensive and time consuming steps of building a physical prototype, testing it, and redesigning it.

“We continue to add to our value proposition” said Alan Wegienka, DST President. “More capabilities, more CAD systems, and more opportunities to improve your designs. SimWise continues to deliver high end engineering capabilities at a very affordable price.”

Major capabilities of SimWise now include:

- 3D dynamic motion simulation featuring a robust 3D contact capability that allows real-world interactions between moving parts to be simulated.
- 3D Finite Element Analysis (FEA) coupled with the motion simulation allowing stresses due to dynamic loading to be quickly calculated. Features such as automatic adaptivity provide high quality results. Normal modes, buckling and steady state thermal analyses are also provided.
- A Simulink interface that allows control systems modeled in Simulink to be co-simulated with a mechanical system modeled in SimWise.
- Keyframed animation for producing fly-throughs and other sophisticated visuals that aid in understand how a design is actually functioning.
- Associative interfaces with SolidWorks, Solid Edge, Autodesk Inventor, SpaceClaim Engineer, and Geomagic Design.
- Ability to read CAD data from Catia V5, NX, Creo/Elements, SolidWorks, Inventor, Solid Edge, ACIS, Parasolids, STEP, IGES, and STL.
- Optimization using results from 3D Dynamic Motion simulation and 3D FEA analyses.

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GRAPHISOFT Releases BIMx Docs for Android

11 August 2014

GRAPHISOFT® announced that its award-winning BIM presentation app, BIMx Docs, has been released for Android phones and tablets in Google Play. This release makes BIMx Docs available on the largest installed base of any mobile OS in the world.

This newest app hosts the same functionality as the iOS version, but with a simplified license structure:

- There is only one app available for download, which is free and opens Hyper-models in demo mode (3D only);
- The full BIMx Docs functionality (for an unlimited number of models) can be purchased inside the app for \$50.

In addition to making the entire workflow virtually hassle-free, GRAPHISOFT's BIMx Docs for ArchiCAD saves architects considerable money and the misery that comes with printing plans. The BIMx Docs functionality for a user's current and future projects can be unlocked in one step – all for the

price of printing one complete documentation set. Clients and other stakeholders can follow a building project simply by asking their architect to send them the BIMx Hyper-model of the project to their mobile device.

To download BIMx Docs for Android, click [here](#).

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Infinite Skills' "Certified SolidWorks Associate (CSWA) Exam Training" Taught By Professor and Test Administrator, Includes Strategies for Test-Taking and Preparation

13 August 2014

Software training firm Infinite Skills Inc. last week introduced its "Certified SolidWorks Associate (CSWA) Exam Training Tutorial," a course designed for experienced SolidWorks users, focusing on the objectives for achieving this entry-level certification in using the popular computer aided design (CAD) software.

SolidWorks is a leader in the 3D CAD industry, currently used by more than 2 million engineers and designers worldwide. The program uses a parametric, feature-based assembly system for building mechanical models, allowing users to create and assemble parts into an overall design.

Infinite Skills' "SolidWorks CSWA Certification Exam Preparation Training" follows along with SolidWorks' stated objectives for achieving the certification which provides documentation of basic competencies, setting certification holders apart from the crowd in a competitive job market.

Course author Dean Kerste is a college professor with more than a decade of experience in industrial design, and more than twenty years of experience as a professor in a mechanical design technology program. After working as a CAD operator and systems administrator, Kerste began pursuing a career in academics. He holds a bachelors in industrial design and a doctorate in higher education, along with several advanced certifications from SolidWorks, including the CSWE and educator certifications.

After overviewing the certification process and the exam itself, Kerste starts with part modeling and modification, providing an example test question, and then guiding students through exercises that demonstrate the essential concepts of creating a part at the basic, intermediate, and advanced levels.

The course then moves into assembly modeling, again providing an overview of assembly modeling exercises, and demonstrating essential skills of building an assembly, adding a mate, and performing modifications.

Finally, Kerste devotes a chapter to drawing skills, first overviewing drawing competencies, and then taking students step-by-step through drawing in each of SolidWorks' 11 view-types.

"In my teaching career, I have administered the CSWA exam to over 200 students," Kerste says.

"Based on my experience with these students, I have developed an understanding of what they need to know about the SolidWorks skills and concepts and the test itself. I am proud to offer this course to help others get certified."

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Knovel's New Composites Subject Area Offers Engineers Resources to Source, Design and Test New Materials

11 August 2014

[Knovel](#) announced the launch of Composites as a new subject area. [Knovel's Composites subject area](#) offers design, selection, analysis, testing, manufacturing and repair information related to composite materials compiled from a wide range of authoritative sources.

Knovel's Composites subject area is a comprehensive collection of the information design and materials engineers need in order to make critical materials selection decisions early in the design process. The subject area has been developed to help engineers identify composite materials, understand potential performance gains or possible risks associated with using a composite material, and evaluate future maintenance and repair requirements. Furthermore, engineers have convenient access to guidance on composite material evaluation, analytical methods, selection criteria, and design approaches to support more fuel efficient vehicles, stronger components, increased corrosion resistance and improved fatigue performance.

Topics covered in Knovel's Composites subject area include:

- General References
- Material Properties
- Mechanics & Design
- Performance Evaluation & Monitoring
- Production & Manufacturing
- Testing & Analysis

"Knovel's Composites subject area provides a simple and efficient way for materials engineers and design engineers to access industry best practices for design, selection, analysis, testing, manufacturing and repair related to composite materials," said Meagan Cooke, senior director of Product Management, Content for Knovel. "Our customers have told us they are interested in having access to more design and analytical guidance as composites are used for a growing number of applications across the industries we serve."

Knovel's Composites subject area offers comprehensive, unbiased information from a select list of leading authors, publishers and societies, including Michael Niu, American Institute of Aeronautics and Astronautics, ASM International, Cambridge University Press, CRC Press, DeGruyter, Destech, Dover, Elsevier, Hanser Publications, Oxford University Press, Smithers Rapra, Society of Automotive Engineers (SAE), Society of Manufacturing Engineers (SME), Trans Tech Publications, U.S. Department of Defense, William Andrew Publishing/Noyes, Woodhead Publishing, World Scientific, and fatigue data for composites from the Sandia National Laboratories/Montana State University fatigue testing program.

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