CIMdata

PLM Industry Summary

Sara Vos, Editor

Vol. 21 No. 31 - Friday, August 2, 2019

Contents

CIMdata News ____ ***2***

Christine Bennett, CIMdata Late Breaking News Editor from 2000 to 2012, Passes Away ____ 2

CIMdata Publishes PLM Industry Analysis Report ____ 2

CIMdata's Director of Quality & Reliability Engineering Practice Venki Agaram Quoted in EE Times Article, "The Road to AV Safety Has Potholes" ____ 5

Acquisitions ____ ***5***

Perspecta Completes Acquisition of Knight Point Systems ____ 5

Company News ____ ***6***

Assyst now has a strong cooperation partner in SACO ____ 6

AVEVA Releases First Unified Operations Center Solution with Industry-specific Best Practices to Help Customers Capitalize on Digital Transformation ____ 7

D3 Technologies Joins Autodesk Marketplace ____ 7

ESI Renewal of Alain de Rouvray and Eric d'Hotelans as Directors ____ 8

Fibre2Fashion Presents: A Sustainability Paradigm: CIRCULARITY ____ 9

Future Fashion Factory Adds 100th Industry Partner ____ 9

Hexagon's Manufacturing Intelligence Division Selects Greater Toronto Area for New Canadian Headquarters ____ 10

Industry 4.0 Seeking Brazilian Companies Adapted to the Global Information Security Scene ____ 11

MDL Europe increases the number of its 3D CAD downloads with CADENAS by 291 % in 9 months ____ 12

Nexa3D Enlists Dynamism to Lead North American Channel Sales ____ 13

Oracle Named a Leader in Vendor-Managed Enterprise Business Intelligence by Independent Research Firm ____ 13

Physna raises $6.9 Million Series A Funding to Build the "Google for 3D" ____ 14

PTC Named Product Leader in PLM for Digital Transformation ____ 15

SAP and Swiss Re Reach Next Milestone in Co-Innovation Initiative for Financial Reporting ____ 16

Six Deep Tech Startups Win Accenture Ventures 'Applied Intelligence' Challenge 2019 ____ 16

TCS Enterprise Cloud Platform Wins the Equinix Best Innovation Award in Australia ____ 18

Events News ____ ***19***

aPriori Announces 2019 Cost Insight Conference Registration Now Open ____ 19

Hexagon Announces Sir Ranulph Fiennes as Keynote Speaker for UK Event ____ 19

Oracle OpenWorld 2019 Unveils World-Class Entertainment ____ 20

Financial News ____ ***21***

3D Systems Announces Conference Call to Discuss Second Quarter 2019 Financial Results ____ 21

Autodesk Extends Invitation to Join Financial Results Conference Call ____ 22

Nemetschek Group: Growth dynamics remain strong in second quarter with revenue up 21% with simultaneously high operating margin of 29% ____ 22

Implementation Investments ____ ***23***

Cheerleading Brand Rebel Athletic to Soar with Centric Software PLM ____ 23

Dassault Systèmes and SATS Create World's First Virtual Kitchen for In-Flight Catering Production ____ 24

GlobalFoundries Transforms Training and New Technician Skill Adoption with PTC's Vuforia Augmented Reality Solutions ____ 25

Lifestyle Furniture Company Four Hands Designs for Growth with Centric PLM ____ 26

Market leader heroal makes buildings even more unique with CONTACT Software ____ 27

Copyright © 2017 by CIMdata, Inc. All rights reserved.

CIMdata, Inc. 3909 Research Park Drive Ann Arbor, Michigan 48108 Tel: +1 (734) 668–9922 Fax: +1 (734) 668–1957
E-mail: s.vos@CIMdata.com Web: http://www.CIMdata.com

Sigma Labs has been selected by Airbus to Deploy Sigma Labs' PrintRite3D® Rapid Test and Evaluation Program 28
U.S. Army Research Lab Selects 3D Systems to Develop World's Largest, Fastest Metal Powder 3D Printer 28
Vilebrequin Chooses Gerber Technology 30
Zafin empowers BPI to offer more rewards, better pricing for clients 30

Product News ***31***
Autodesk: BIM 360 Field iPad release 31
FACTON is Strengthening Its Presence in the Industrial IoT Application Landscape and Now Positioning Its EPC Solution in the PTC Marketplace 32
Prometech Releases 'Particleworks for ANSYS' 32
Schneider Electric Announces New Release of ArcFM Designer XI 33
Siemens Simcenter BDS 2019.2 Available 35

CIMdata News

Christine Bennett, CIMdata Late Breaking News Editor from 2000 to 2012, Passes Away

1 August 2019

Christine Bennett, 1941 -2019

Christine Bennett, the CIMdata Late Breaking News editor from 2000 to 2012, passed away July 25 after a short illness.

Born and raised in Hayward, Wisconsin on a dairy farm, she held a Master of Social Work degree from the University of Wisconsin, Madison and a Master of Library Science degree from the University of Michigan, Ann Arbor. She is survived by her husband Lex, three children and seven grandchildren.

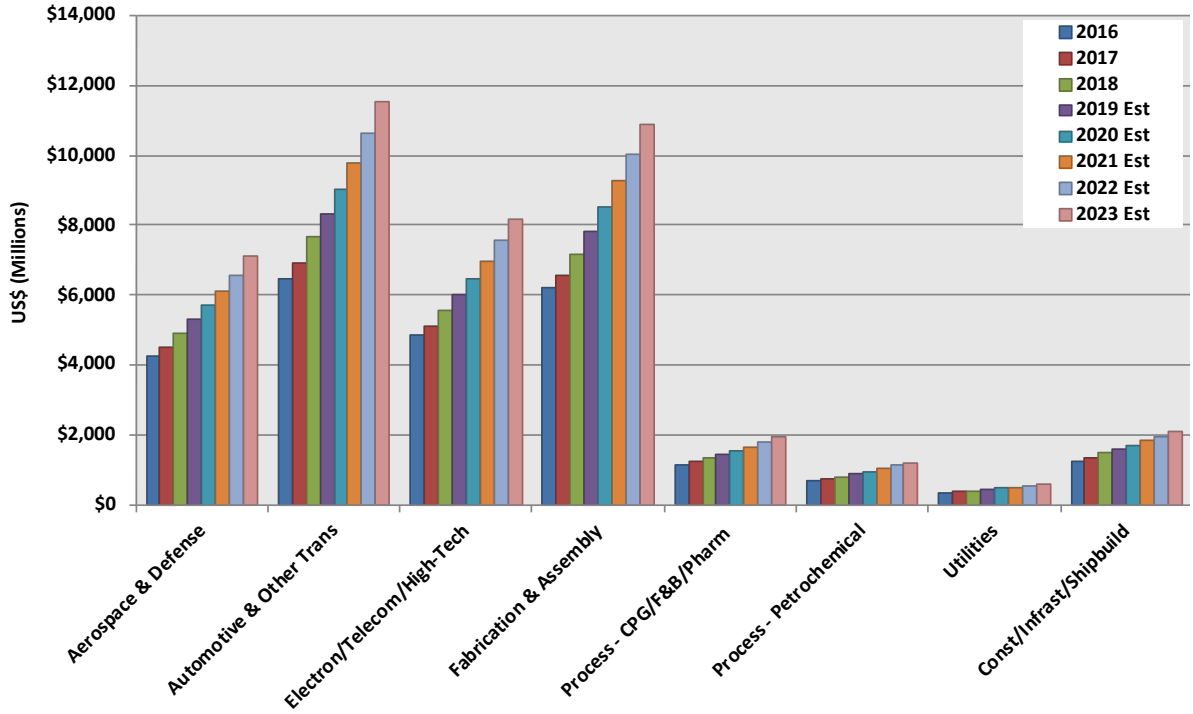
Click here to return to Contents

CIMdata Publishes PLM Industry Analysis Report

30 July 2019

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces the release of the CIMdata PLM Industry Analysis Report, the fourth of five modules of the CIMdata 2019 PLM Market Analysis Report Series. The MAR Series provides detailed information and in-depth analysis on the worldwide PLM market during 2018. It contains analyses of major trends and issues; revenues of leading PLM providers; and revenue analyses for geographical regions, industry sectors, and historical and projected data on market growth.

All industries saw growth in PLM spending in 2018 as shown in the figure below. CIMdata forecasts continued growth in all industries during the five-year forecast period.



PLM spending is greatest in automotive & other transportation, fabrication & assembly, electronics & telecommunications, and aerospace & defense. It is lower in the process industries and utilities. However, there are some good process PLM solutions available, and they are becoming more important with concerns about food safety, particularly in emerging economies. Growth in PLM for medical devices, part of the high-tech sector, is driven by stringent compliance requirements that can vary by country, something that PLM strategies and enabling solutions can address. All industries are being affected by the trend toward smart, connected products, either directly or because of the effects of the Internet of Things (IoT) and the drive toward Industry 4.0, an initiative that originated in Germany, that has inspired programs and spending in countries around the world. CIMdata believes there are good opportunities in all segments as corporate management continues to become more cognizant of the value of PLM and its positive impacts on both the top and bottom lines of a business. During 2018, comprehensive providers continued to expand their efforts to deliver more industry-focused and functionally-packaged solutions that are easier and less expensive to acquire and deploy. This is fueled, in part, by continued mergers and acquisitions activity in most PLM segments.

"The global PLM market grew strongly in 2018 at 9.4%, well above our forecast of 7%," states Stan Przybylinski, CIMdata's Vice President. "The leading PLM solution providers are consolidating their portfolios after years of acquisitions, and increasing their revenues in 2018, in part, by expanding their footprint at their existing clients. Industrial companies are using PLM to enable highly collaborative, distributed, flexible design and manufacturing environments to help better manage the entire product or plant lifecycle. This ability is critical to all industries and only becomes more complex as smart, connected products must act as parts of larger systems."

The CIMdata PLM Market Analysis Report Series is packaged as five modules:

1. The *CIMdata 2019 Executive PLM Market Report* provides an overview of CIMdata's complete global analysis. It includes key charts on PLM market investment statistics through 2018, forecasts of investments for 2019 through 2023, and a summary of PLM solution providers'

performance in 2017.

2. The *CIMdata 2019 PLM Industry Review and Trends Report* is mainly qualitative in nature, and focuses on key issues facing the global PLM ecosystem of solution providers and end user organizations. It highlights changes that occurred in 2018, what effects those changes may have in the short and medium term, and what is on the horizon in the years to come.
3. The *CIMdata 2019 PLM Market and Solution Provider Analysis Report* details measures of and forecasts for the overall PLM market and its key segments, including Tools, cPDm, and Digital Manufacturing for 2018. The Tools section has additional details on sub-segments, including MCAD, NC, S&A, EDA, and AEC. It also includes CIMdata's estimates of PLM solution provider revenues in these segments and sub-segments for 2019 through 2023.
4. The *CIMdata 2019 PLM Market Geographic Analysis Report* provides an additional view of the 2018 market results, by major geography. CIMdata's 2018 estimates and market forecasts for PLM and the major PLM market segments are provided for the Americas, EMEA, and Asia-Pacific. In addition, the report includes estimates and forecasts for the cPDm segment within specific European and Asia-Pacific countries and regions.
5. The *CIMdata 2019 PLM Market Industry Analysis Report* provides an industry segmentation view of the 2018 market results. CIMdata's 2018 estimates and market forecasts for PLM and cPDm are provided for eight different industry sectors: aerospace and defense; automotive and other transportation; electronics/telecommunications; fabrication and assembly; process-packaged goods; process—petrochemical; utilities; and construction, infrastructure and shipbuilding.

The CIMdata PLM MAR Series is available as a five-module set or each module can be purchased separately. Parts of the MAR series are available as part of CIMdata's Community Memberships. CIMdata also publishes country-specific MAR reports for Brazil, China, France, Germany, India, Italy, Japan, Russia, South Korea, the United Kingdom, and the United States. Further details and pricing information about the reports and Community Memberships are available at www.cimdata.com.

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 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 at www.CIMdata.com, follow us on Twitter: 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.

Click here to return to Contents

CIMdata's Director of Quality & Reliability Engineering Practice Venki Agaram Quoted in EE Times Article, "The Road to AV Safety Has Potholes"

30 July 2019

EE Times talked to several safety experts and automotive analysts to find out what paths the AV industry might take to win public trust. Combining what we've heard from multiple sources, there are five things still missing in AV suppliers' vehicle development practices:

1. Establishing metrics for testing,
2. Adopting "safety by design" AV development,
3. Sharing, among AV developers, of data collected during testing,
4. Building a feedback loop, and
5. More sophisticated system-level simulations.

Agaram explained, "AV developers have a good common understanding of the technology needed to get an AV going. They are all individually searching for extreme cases that will make the AVs unsafe, ineffective, or annoying." Agaram believes that eventually, "They will have to pool that data to come up with standards and regulations."

Agaram urges AV testers to start "designing tests for certification (which is validation) and explain to each other as to what data they have seen to support the choice of those test scenarios."

To read the full article, please visit https://www.eetimes.com/document.asp?doc_id=1334972

Click here to return to Contents

Acquisitions

Perspecta Completes Acquisition of Knight Point Systems

1 August 2019

Perspecta Inc. announced that it has completed the acquisition of Knight Point Systems, LLC (Knight Point) for a purchase price of $250 million, subject to customary purchase price adjustments, which represents a single-digit multiple on forward-12-months earnings before interest, taxes, depreciation and amortization (EBITDA). The transaction is expected to be accretive to fiscal year 2020 adjusted earnings per share excluding one-time transaction costs.

This acquisition further enhances Perspecta's robust and proven offerings in cloud, cyber, digital transformation and enterprise IT that modernize and transform government mission delivery.

Knight Point is an end-to-end managed services and solutions provider focused on modernizing IT, protecting critical networks and driving digital transformation. Knight Point leverages a scalable portfolio of IP to solve complex customer challenges in cloud, cybersecurity and agile DevSecOps

environments. The company's unique managed services delivery frameworks drive customer transparency and operational excellence, while providing rapid and efficient solution delivery. This end-to-end "as a service" model revolutionizes the way customers acquire, scale, monitor and maintain technology and services.

"I am pleased to welcome all Knight Point employees and customers to the Perspecta team," said Mac Curtis, president and chief executive officer of Perspecta. "We are impressed by Knight Point's deep customer intimacy, rich legacy of innovation, patented IP and delivery of IT and cyber managed services programs to customers such as the Departments of Defense and Homeland Security. This is a great first acquisition for Perspecta that fits within our capital allocation model and strengthens our capability set. We consider Knight Point to be complementary to Perspecta's culture and offerings, while accelerating our growth strategy."

"As we looked for opportunities to grow our business, it became evident that the scale, strategy and compelling growth engine offered by Perspecta was the perfect home for our company, customers and employees," said Bob Eisiminger, chief executive officer of Knight Point. "It was so important to me that we identify a company that will value our employees and honor our mission to successfully serve federal agencies. I am completely confident that moving forward with Perspecta was the right decision on every level."

Click here to return to Contents

Company News

Assyst now has a strong cooperation partner in SACO

25 July 2019

Assyst GmbH and SACO Software and Consulting GmbH have signed a cooperation agreement. SACO is to take over the support for the ERP system BOS and the mobile order entry SAM, while Assyst will also distribute SACO’s APPone products.

Digitalization needs highly specialized software solutions – and two highly specialized software providers for the sewing industry will now complement each other thanks to the new cooperation between Assyst and SACO. Assyst will contribute extensive expertise in the use of CAD, PLM and 3D solutions, particularly for the product development process, while SACO will focus on state-of-the-art ERP and PDM systems. “The integration of management systems into the product development process, in particular the interaction of PLM and ERP, is of enormous importance for successful digitalization,” says Dr. Andreas Seidl, Assyst CEO. “We look forward to working with SACO and providing the best tools for the digitalization of the fashion industry.”

Cooperation in sales

As part of the cooperation, SACO will take over the maintenance and support of the BOS and SAM products and – backed by its many years of know-how – will provide the best possible support for Assyst customers. In return, Assyst will distribute SACO’s APPone products in addition to its own developments. The integration of ERP-BOS with its own products PLM.GoLive and Cad.Assyst will continue to be an important focus of the Assyst strategy. Assyst is the only company in the apparel industry to promote the integration of all products along the product development process chain with the

aim of securing maximum added value for its customers. Assyst will also focus on the further development of its solutions on integration with the 3D simulation software Vidya, which fully supports the digitalization process for design, development and distribution.

Click here to return to Contents

AVEVA Releases First Unified Operations Center Solution with Industry-specific Best Practices to Help Customers Capitalize on Digital Transformation

1 August 2019

AVEVA launched Unified Operations Center, its command-and-control solution for infrastructure operators such as smart cities and facilities management, and for industries like Oil & Gas, and Mining.

Working side-by-side with leading companies in these verticals, AVEVA has turned best practices into templated solutions that are repeatable, scalable and adaptable, enabling fast implementation and return on investment. Organizations such as the Abu Dhabi National Oil Company (ADNOC), Assmang Proprietary Ltd and the city of Atal Nagar in India have pioneered early versions of this tailored approach and have realized reductions in project implementation times by as much as 60% over the more time-intensive process of integrating bespoke solutions.

The Unified Operations Center is a central hub that transforms the control room into a collaborative workspace. Functional silos are broken down by contextualizing operational and business data to enable teams to make better decisions based on accurate, real-time information. AVEVA is the first to provide a single solution that integrates IT and OT (Operational Technology) applications in a central hub, enhanced by industry-specific customizations.

AVEVA's Unified Operations Center, built on AVEVA System Platform, offers faster time-to-value through industry-proven solution templates, reports, dashboards and operational KPIs that unify all available data from operations, process, engineering, maintenance and finance, enabling teams to improve their situational awareness of real-time operations and make better decisions.

Unified Operations Center is based on a 'system of systems' approach. This enables seamless plug-in of apps, predictive analytics, CCTV video, GIS maps, ERP systems, Engineering P&ID diagrams and more, all within the unified user interface.

"By partnering with leading companies in the process and infrastructure market we have witnessed the operational gains that this 'system of systems' approach can achieve. Now, organizations of any size can benefit by rapidly deploying our industry-proven, template-based solutions to transform their businesses with confidence," said Rashesh Mody, vice president of AVEVA's Monitoring & Control business. "The Unified Operations Center enables companies to achieve operational excellence and increase profitability through more efficient energy consumption and predictive maintenance. We expect to deliver other industry solutions, like power and water, in the coming months."

Click here to return to Contents

D3 Technologies Joins Autodesk Marketplace

25 July 2019

D3 Technologies is now an approved provider on the Autodesk Services Marketplace, making it easier for industry professionals to connect with and engage the company for convenient, custom services for Autodesk software. Providers of the Autodesk Services Marketplace demonstrate product expertise, have a proven track record in consulting, software development and customization, software management, training, and more.

Autodesk, a leader in 3D design, engineering and entertainment software, developed a Services Marketplace that connects customers seeking to hire help with proven professional third-party service providers. As an Autodesk Services Marketplace provider, D3 Technologies is dedicated to providing engineering support, Autodesk training, and more.

"Autodesk is excited to welcome D3 Technologies to the Services Marketplace. The company's long-standing history with Autodesk serves them well in this new environment and opportunity," - Rachel Rosenkrantz, Senior Manager, Autodesk.

Click here to return to Contents

ESI Renewal of Alain de Rouvray and Eric d'Hotelans as Directors

24 July 2019

ESI Group held on July 18, 2019 a Combined Shareholders' Meeting, chaired by Alain de Rouvray and in the presence of Cristel de Rouvray, Chief Executive Officer.

Representing a quorum of 75.83%, the shareholders in attendance or represented approved all the resolutions presented to them.

The Ordinary General Meeting approved the annual and consolidated financial statements for the financial year ended January 31, 2019, as well as the resolutions related to the Corporates Officers' compensation in accordance with the "Say on Pay" regulations. The mandates of Alain de Rouvray and Eric d'Hotelans as directors were renewed, thus confirming the current governance. Lastly, the Shareholders' meeting has delegated to the Board of Directors the implementation of the company's share buyback program.

The Extraordinary General Meeting approved all the delegations of authority allowing the Board of Directors to increase the Company's share capital.

In addition, two amendments to the articles of association were approved:

- The first amendment has changed the closing date of the financial year as at December 31 starting in 2019. This evolution aims to standardize the accounting year and for a greater understanding of ESI Group's business model. Therefore, the 2019 financial year will last exceptionally 11 months.
- The other amendment to the articles of association is related to the obligation to disclose the crossing of a threshold at 2.5% or a multiple of that fraction, to establish a closer relationship with the company's shareholders.

The voting results of the Combined General Meeting are available on ESI Group website: https://www.esi-group.com/sites/default/files/resource/financial_document/

Click here to return to Contents

Fibre2Fashion Presents: A Sustainability Paradigm: CIRCULARITY

2 August 2019

Circular Economy is an idea, and Circular Fashion is an extension of that very concept. Circular Fashion is based on the fundamental principles of circular economy and sustainable development, and concerns the entire lifecycle of a fashion product-from design and sourcing, to production, transportation, storage, marketing and sale, as well as the user phase and the product's end of life.

Since 2014, when the term 'circular fashion' was first coined and inserted into common parlance, it has gained currency and imparted an entirely new meaning to the concept of 'sustainable fashion' or, to be precise, the way of looking at fashion as a sustainable economic activity.

The linear process of the fashion economy is passe; and as the framework of the Ellen MacArthur Foundation puts it: The circular economy refers to an industrial economy that is restorative by intention; aims to rely on renewable energy; minimise, tracks and eliminates the use of toxic chemicals; and eradicates waste through careful design.

Five years hence, it is not an abstract 'idea' anymore-it is an implementation process that is being increasingly followed by leading brands and retailers. The grappling over the term 'sustainability' has eased: members of the textiles-apparel-fashion industry are coming to terms with the fact that sustainability needs to mean circularity.

The Answer: Sustainability Compendium

Our annual compendium is a repository of case studies, benchmarks and best practices-it is a volume of invaluable information that any decisionmaker would want to have within hand's reach.

To learn more, please visit https://campaigns.fibre2fashion.com/2019/Sustainability/index.asp

Click here to return to Contents

Future Fashion Factory Adds 100th Industry Partner

25 July 2019

The Future Fashion Factory community is bigger than ever, having just gained its 100th member.

Wyedean Weaving Co Ltd, the West Yorkshire mill which supplies uniform, accoutrements and braid to the UK Ministry of Defence and Armed Forces from its base in Haworth, is the latest UK textile company to become one of the Programme's industry partners.

"We are delighted to be involved with Future Fashion Factory and glad to see so many other Yorkshire textile mills already involved," says Rosie Wright, Business Development Manager at Wyedean.

"We are excited to see how we may be able to work together, or collaborate with others on new innovative projects."

Future Fashion Factory started in October 2018 with just 10 core partners and three academic centres: the University of Leeds, University of Huddersfield, and Royal College of Art. Leeds City Council and Burberry were among the core partners.

Since then, businesses from young independent designers to major retailers have been keen to get involved, as well as technology and data companies supporting the fashion and textile industry.

Among the recent additions to the Future Fashion Factory community are technology giant IBM, young design brand Cunnington & Sanderson, and Community Clothing, the social enterprise founded by Great British Sewing Bee judge Patrick Grant.

Explore our Industry Partners

Professionals working across the industry are also welcome to become members, as are students and alumni of the three academic centres.

Suzy Shepherd, founder of Yorkshire Textiles and Co-Director of Future Fashion Factory, said:

"We're thrilled with the extent of the support Future Fashion Factory has received across the industry, from independent designers to global brands and Yorkshire's prestigious mills. Members of our community share a fantastic bank of knowledge, skills and creativity which is already enabling new collaborations and making a real difference to businesses.

"We remain committed to supporting innovation in the UK fashion and textiles industry and can't wait to see where these new partnerships lead."

Members of Future Fashion Factory receive privileged access to the cutting-edge research being conducted at the three universities, as well as members-only events and networking opportunities, and eligibility to apply for collaborative R&D funding through our innovation funding calls. The second funding call will open to expressions of interest on September 2.

Click here to return to Contents

Hexagon's Manufacturing Intelligence Division Selects Greater Toronto Area for New Canadian Headquarters

30 July 2019

Hexagon's Manufacturing Intelligence division announced it has selected the Greater Toronto Area for the site of its new Canadian headquarters in Oakville, Ontario. The interior of the new 15,000 sq. ft. facility is currently under construction and will house up to 100 employees. The project is slated for completion in the fourth quarter of 2019.

The workplace configuration accommodates a state-of-the-art training center, multiple meeting rooms, and offices for Hexagon teams in product development, quality assurance, sales, engineering, customer support, and administration. The facility will also include a product showroom serving as a focal point for Hexagon's most innovative metrology and manufacturing technologies. The location of the new headquarters will allow Hexagon to better serve its Canadian customer base, expand into new markets, and attract world-class talent in the Toronto area, which is the second largest financial center in North America and home to 40% of Canada's business headquarters.
Hexagon's investment in the new Center of Excellence confirms its strong commitment to advanced manufacturing in Canada. Hexagon will consolidate all its Manufacturing Intelligence businesses in eastern Canada into this central location, which includes headquarters for Forming Technologies' development, sales and engineering, MSC Software, and teams from Hexagon's production software and metrology solutions portfolios. In 2018, the company also opened a large regional office called the

Hexagon Calgary Campus in Calgary, Alberta, which serves as the head office for multiple Hexagon divisions in western Canada.

The Ontario office area will feature 18 ft. ceilings, glass walls and windows with exceptional views of key areas, all designed in Hexagon's style themes, colors and company design elements. The floor plan is focused on the employee experience with contemporary design essentials such as common open spaces, huddle areas, and various employee amenities such as tea, coffee, healthy snacks, kitchen, games area, and proximity to shopping, restaurants and theatres. The office architecture and furniture will foster an environment that empowers team work, problem solving, and a high level of productivity among formerly separate areas of the business.

“We are excited to announce our new headquarters in Canada which solidifies our strong commitment to Canadian manufacturers from coast to coast,” states Michael Gallagher, President and CEO, Hexagon Manufacturing Intelligence Canada Limited. “We will offer world class support for our design and engineering, production and metrology product portfolios, including FTI, PC-DMIS, EDGECAM and Simufact. We will also continue to offer expert-level support and training courses for a variety of in-demand technologies such as scanning and integrated solutions for the Smart Factory, along with FTI’s industry standard stamping courses. We have also incorporated a large show room to feature metrology scanners as well as an Autonomous Driving Simulation workstation.”

Click here to return to Contents

Industry 4.0 Seeking Brazilian Companies Adapted to the Global Information Security Scene

1 August 2019

The global Industrial revolution 4.0 involves the consolidation of a unique set of technical standards for Communication and Security. For those active in this sector, these are key elements for guaranteeing the success of projects and business. Prominent among industrial trends are PAM solutions (Privileged Access Management Solutions).

With a presence in 20 countries, acting through local representatives and directly serving all of Brazil, the MT4 Group is already developing and implementing technologies for industry, telecommunications companies and local and global banks, while strengthening its strategies for internationalization. Among the most demanding international IT markets where it maintains a presence are the United States, the United Arab Emirates and Bangladesh.

Building up services for industry

Starting in July of this year, MT4:Senhasegura will be more of a presence in the industrial security domain, after the signing of a technical and technology distribution partnership for Access Management with Baumier Automation, traditional supplier of communication solutions for Industrial Networks.

To Newton Fernandez, Technical Director at Baumier, it is essential to find Brazilian companies that are already qualified, that adhere to the 62443 series of technical standards developed by ISA (International Society of Automation) and adopted by IEC (International Electrotechnical Commission).

"Our clients are looking for technologies that can handle sensitive data and provide a framework for mitigating vulnerabilities in Industrial Automation and Control Systems (IACS), associated with Industry 4.0 and Critical Infrastructure," he observes.

Trends in Cybersecurity

The nearly infinite volume of data processed and protected is what connects these segments, positioning, MT4:Senhasegura as one of the best global resources in visionary security technology. "Our future is protecting today what will be needed to ensure the growth of these businesses tomorrow," states Marcus Scharra, CEO of the MT4 Group.

Click here to return to Contents

MDL Europe increases the number of its 3D CAD downloads with CADENAS by 291 % in 9 months

23 July 2019

MDL Europe, a component manufacturer for standard parts in tool & mould making, relies on the Electronic Product Catalog by CADENAS and was thus able to increase the number of 3D downloads of its products by nearly four times as much within nine months.

The French company MDL Europe provided product information via an online library for its customers already some years ago, back then based on a self-developed, internal solution. "The demand of our customers kept growing and engineers increasingly awaited 2D and 3D models of MDL products to integrate directly into their designs," explains Stéphane Regnier, Sales Director of MDL Europe.

In order to satisfy customer needs and market development, MDL Europe decided to find a suitable software provider for product catalogs. CADENAS offered a comprehensive solution with its technology eCATALOGsolutions for Electronic Product Catalogs. In particular, the many possibilities for the provision of product data in numerous CAD formats were decisive selection criteria for MDL Europe.

High-quality customer service

MDL Europe's new 3D product catalog was created, in cooperation with CADENAS, at the beginning of 2018. Since then, engineering data of guiding elements, punching tools, compression springs as well as the accessories are available at http://mdl.partcommunity.com for downloading in numerous CAD formats. Included are Inventor and Revit by Autodesk, Solid Edge and NX by Siemens PLM Software or SOLIDWORKS by Dassault Systèmes, etc.

"Now we are meeting the needs of our customers that much better because they can use 3D CAD models directly in their CAD software, regardless of whether they work with the CAD software Visi, SOLIDWORKS or AutoCAD," says Stéphene Regnier.

3D CAD product catalog for standard parts in tooling & mould making is being steadily expanded

MDL Europe has the goal to continuously adapt its 3D CAD product catalog to customer requirements and to provide as best as possible components for tool and mould making in 3D, including the required technical specifications. "We constantly adapt our product catalog according to customer feedback, which means a continuous learning process for us," says Stéphane Regnier. In this context, MDL Europe is currently working together with CADENAS on the implementation of a configurator for die set racks, which should be published in the course of 2019.

291 % increase of downloads within 9 months

The number of 3D CAD models downloads of MDL Europe products increased by 291 % during the

period from April 2018 to January 2019. In conclusion, Stéphane Régnier says: "The main objectives of our product catalog consist of offering our customers better service, the ideal presentation of our brands and products on the market and, of course, increasing sales."

The 3D CAD product catalog by MDL Europe is available at: http://mdl.partcommunity.com

More information about MDL Europe at: www.mdl-eu.com

Click here to return to Contents

Nexa3D Enlists Dynamism to Lead North American Channel Sales

27 July 2019

SLA 3D printer manufacturer Nexa3D is partnering with AM solutions and services company Dynamism to expand its footprint in the United States. Through the agreement, Dynamism will lead Nexa3D's North American channel sales, joining the 3D printer company's existing partner ecosystem.

Nexa3D is known in the 3D printing industry for its exceptionally fast SLA 3D printing technology, and especially its flagship printer, the NXE400, which is capable of continuous printing of up to 16 liters of part volume at speeds of up to 1Z centimeter per minute. The stereolithography system, which was unveiled at Formnext 2018, is powered by Nexa3D's proprietary Lubricant Sublayer Photo-curing (LSPc) technology and patented structured light matrix.

Dynamism, for its part, is a well established reseller in the additive manufacturing industry, working with partners including Desktop Metal, Formlabs, Ultimaker and more. Through its partnership with Nexa3D, the companies are aiming to ramp up Nexa3D's North American footprint by leveraging Dynamism's additive manufacturing customer base.

"We have been tracking Nexa3D's development for more than a year, and we are still wowed when watching its remarkable speed," commented Douglas Krone, Founder and CEO of Dynamism. "Nexa3D's speed is analogous to the introduction of 5G wireless—it will enable engineers to develop new applications and workflows that would have been unachievable in the past. And, watching detailed parts get created in minutes definitely feels like the future.

"Dynamism is wholly focused on bringing the very best, market-leading, AM tools to our customers, who are often focused on the transformation to production-scale additive manufacturing. Nexa3D is an essential part of that toolkit. We are truly excited to be working together."

Avi Reichental, Executive Chairman and CEO of Nexa3D added: "Dynamism is a recognized industry name in additive manufacturing, and we're thrilled to partner with a company of such caliber, reputation and demonstrated performance. We look forward to a mutually beneficial and long-lasting relationship as we together bring Nexa3D's products to market—meeting the growing demand for industrial-grade additive manufacturing."

Click here to return to Contents

Oracle Named a Leader in Vendor-Managed Enterprise Business Intelligence by Independent

Research Firm

31 July 2019

Oracle has been named a leader in an independent report. Oracle believes that this report validates its strategy to deliver a world-class enterprise analytics portfolio.

In this evaluation, Oracle received the highest possible score in the app building/customization criterion. Oracle's reference customers "ranked the overall product as 'exceeds expectations' across most capabilities." The report also noted that "some references praised Oracle Analytics Cloud's data prep functionality."

"We are honored to be recognized as a leader… which we view as strong validation of Oracle Analytics' strategy and innovation," said T. K. Anand, senior vice president of AI, Data Analytics and Cloud, Oracle. "We believe this report is further evidence of Oracle's ability to deliver modern analytics for enterprises today and provide leadership as the market continues to evolve."

On the heels of the recent Oracle Analytics Summit, where a new simplified product offering and vision were unveiled, Oracle received among the highest scores in the strategy category. These include commercial model, delivery model, execution roadmap, product vision and supporting products and services.

Oracle's analytic capabilities are available in the cloud via Oracle Analytics Cloud, on premises via Oracle Analytics Server, and within applications via Oracle Analytics for Oracle Cloud Applications. These solutions leverage Oracle's existing analytics capabilities and add new features, including augmented analytics and NLP, which are embedded throughout the platform. In addition, Oracle Analytics offers an integrated user experience across self-service data discovery and reporting and dashboards, delivering effortless access to insights that can be consumed in the cloud, on the desktop, and mobile.

Click here to return to Contents

Physna raises $6.9 Million Series A Funding to Build the "Google for 3D"

31 July 2019

Physna announced the completion of a $6.9 million Series A round of financing led by Columbus venture capital firm Drive Capital. Physna will use the investment to continue its software product development, increase adoption of Physna's technology, and further build out its engineering and sales teams.

Physna, short for "Physical DNA," has built a geometric search engine to increase efficiencies within CAD design and manufacturing. Working alongside CAD and PLM programs, the search engine breaks down 3D files into a codified structure. This approach creates a "DNA-like" structure representative of the 3D model.

Through machine learning, the Physna search engine can recognize common traits among 3D models, making the physical world more searchable than ever before.

Search results include similarities and differences between 3D models returned by the search engine and the files used for the search, regardless of file types. Physna's search technology allows users to search

millions of 3D models in seconds.

"The results are orders of magnitude more accurate and faster than was ever previously possible in 3D search," said Physna Founder and CEO Paul Powers. "We are just scratching the surface. The uses for Physna's core technology are virtually limitless."

Physna is currently working with industry-leading companies in a number of sectors including manufacturing, aerospace, automotive, defense, consumer goods, electronics, and energy.

"We are very excited for the opportunity to invest in Physna. We believe what Paul and his team are doing in search has the potential to revolutionize the workflows of engineers around the world," said Drive Capital Partner Mark Kvamme.

"Drive Capital matches our passion for taking on major issues and fixing large, fundamental problems through groundbreaking technology," said Powers. "We are excited for Mark to join our board. We know the partnership with Drive will allow us to accelerate our development and growth."

Physna brings software solutions to market helping engineers and manufacturers develop a better workflow, find CAD drawings faster, reduce part duplication, compare parts and component drawings, and more. Physna is poised to increase manufacturing efficiency, safety, and project savings. Physna partners include Siemens, PTC, Oracle, government agencies, and leading universities - with new significant partnerships. The company headquarters are in Cincinnati, Ohio, with a second office in Columbus, Ohio.

Click here to return to Contents

PTC Named Product Leader in PLM for Digital Transformation

23 July 2019

PTC announced that Windchill® product lifecycle management (PLM) solution has been named the Product Leader in PLM for Digital Transformation in Discrete Manufacturing, North America by a global analyst firm.

Windchill was recognized for its ability to enhance collaboration; its incorporation of innovative technologies such as IoT, augmented reality, analytics, and artificial intelligence; and for its inclusion of highly-configurable, out-of-the-box capabilities that are easy to deploy and that offer immediate value. Windchill enables manufacturers to better understand and leverage their product and enterprise data, including information gathered from smart, connected products and machines. With this information, customers can build and manage a digital thread that connects critical functions within their value chains.

“We are proud to be recognized… as the Product Leader in PLM for Digital Transformation in Discrete Manufacturing,” said Kevin Wrenn, divisional general manager, PLM Segment, PTC. “PLM is a cornerstone of digital transformation, and this recognition solidifies PTC’s leadership in the industry as well as our continued commitment to innovation in PLM functionality, delivered to our customers through Windchill.”

Windchill and ThingWorx Navigate form a key part of the foundation necessary for driving digital

design, product innovation, manufacturing efficiency, service optimization, and heightened sales and marketing experiences. The powerful capabilities of these products enable organizations to reduce time-to-market, cut costs, and improve quality.

Click here to return to Contents

SAP and Swiss Re Reach Next Milestone in Co-Innovation Initiative for Financial Reporting

25 July 2019

SAP today announced the expansion of its joint co-innovation project with insurance giant Swiss Re, which now provides software that goes beyond accounting to include simulation, forecasting and planning capabilities essential to support the business in financial analysis.

SAP and Swiss Re started their journey in 2017 with the goal of creating an innovative multi-GAAP solution to manage increasingly complex financial steering and reporting requirements, including IFRS 17 and 9 compliance affecting insurance companies worldwide. Swiss Re provides reinsurance, insurance and other insurance-based risk transfer products.

“I am very proud of how much the Swiss Re and SAP teams have rapidly achieved to produce this next shipment,” Swiss Re Reinsurance CFO Gerhard Lohmann said. “Bringing key functionality into the system, along with the addition of forecasting, planning and simulation, brings greater financial steering capabilities. The thought leadership on multivaluation and IFRS we have applied as part of the co-innovation has been well received throughout the industry.”

“Our close partnership with Swiss Re has helped us create an exceptional customer experience across the insurance and financial sectors,” said Luka Mucic, SAP CFO and member of the Executive Board of SAP SE. “This next stage of co-innovation with Swiss Re means increased guidance, transparency and support across financial projects for our customers. It marks a notable effort to enable more than just accounting projects on our SAP S/4HANA platform.”

Click here to return to Contents

Six Deep Tech Startups Win Accenture Ventures ‘Applied Intelligence’ Challenge 2019

26 July 2019

Accenture has announced the winners of the second annual Accenture Ventures Challenge in India, which this year recognizes deep tech growth-stage Indian startups with the most innovative business-to-business (B2B) use cases in five categories related to Applied Intelligence: artificial intelligence (AI), data, analytics, automation, and industrial AI.

“The Accenture Ventures Challenge helps us recognize the most disruptive technology startups in India and provides them with access to our Global 2000 clients,” said Avnish Sabharwal, managing director for Accenture Ventures and Open Innovation in India and the Middle-East. “This year’s competition scaled new heights with record participation from mature startups focused on Applied Intelligence. We’re excited about the possibilities that this creates for the winners, and for our clients globally.”

This year's challenge drew over 370 entries from across India. Of these, 15 finalists were evaluated by a jury of Accenture executives and industry leaders from Indian businesses, multinational corporations and the venture capital community. The judges selected the following winners based on innovative edge, business value and scalability:

- MMS.IND – for its GeoMarketeer platform, which delivers geo-location-based intelligence using micro market focused data and analytics functionalities, delivered as a service.
- Numberz – for its secure, cloud-based insights driven enterprise platform, which helps streamline the accounts receivable process and accelerate collections by using AI, machine learning and robotic process automation.
- Locobuzz – for its portfolio of software as a service-based offerings including social listening, AI, command centers and customer relationship management, to address core challenges related to customer experience management in the digital world.
- Strayos – for its 3D visual AI platform for the mining and infrastructure industry. The platform utilizes imagery data to extract hidden insights about geology in mining for optimized drilling and pre-excavation object detection below the ground surface to enable the accurate inspection of job sites.
- Niramai – for its AI-based advanced thermal imaging solution, Thermalytix, which provides a non-contact, radiation free, affordable and accessible way to detect early stage breast cancer in women of different age groups.

Additionally, this year a sixth winner was chosen by the audience at the grand finale event on July 25 in Mumbai. This award was won by CropIn for its platform which uses big data analytics, AI and remote sensing, to enable clients in the agriculture ecosystem to analyze and interpret actionable insights on crops, such as stress levels, yields and cycles based on both historical and real time data.

The winners will join Accenture Ventures' Open Innovation partner program, through which they will be able to collaborate with Accenture and co-create solutions for enterprises across the globe. The winners will also be mentored by Accenture leaders, introduced to top industry forums, and have access to the Accenture Innovation Hub in Bengaluru where they can further scale their solutions.

Anindya Basu, senior managing director, Accenture India, added, "Competitive edge in the age of disruption demands rapid, shorter innovation lifecycles. At the same time, emerging technologies are more important than ever, often requiring ecosystem partnerships in order to fully harness their capabilities. Our Open Innovation program connects the startup community with clients from around the world, enabling them to collaborate, create new ideas more quickly and implement them at scale."

The Accenture Ventures Challenge was open to B2B startups in the deep tech space with operations in India, and an annual revenue of at least USD 100,000 in the last reported financial year. This year, nearly 50 startups with more than USD one million revenue participated.

A key component of the Accenture Innovation Architecture, Accenture Ventures is a bridge to the global innovation ecosystem that unlocks growth opportunities for our clients by bringing them together with best in class emerging enterprise startups. In India, Accenture Ventures tracks more than 1,300 startups and has engaged with nearly 200 that have technologies relevant to Accenture's enterprise clients.

Click here to return to Contents

TCS Enterprise Cloud Platform Wins the Equinix Best Innovation Award in Australia

30 July 2019

Tata Consultancy Services (TCS) announced that it has won the Best Innovation Award in Australia at the 2018 Equinix Partner Awards.

The Best Innovation Award is presented to the partner that has most consistently demonstrated the ability to assist customers in navigating their digital transformation journey. TCS won the award for the launch of the next-generation TCS Enterprise Cloud Platform (ECP), a state-of-the-art private cloud offering, that is helping customers in Australia and New Zealand gain greater business agility.

Jeremy Deutsch, Managing Director, Equinix Australia, said, “We congratulate TCS for winning the Innovation Award, which is due recognition for the outstanding work the organisation does in enabling its customers’ digital transformation. Working directly with Equinix, TCS has been able to provide two customers with a bespoke private cloud capability to more efficiently modernise their infrastructure and seamlessly connect to suppliers, carriers, clouds and peers. This effort exemplifies the excellent results that come from the collaborative partnership Equinix has enjoyed with TCS and we look forward to continuing our relationship to solve customer challenges.”

Vikram Singh, Country Head, TCS ANZ, said, “We are very proud to win this year’s Innovation Award. This adds to a memorable year so far for TCS, with our Business 4.0™ framework translating into many large transformational engagements with customers, and the introduction of the TCS ECP platform in Australia and New Zealand, providing an advanced software-defined approach that helps customer gain agility and future-proof their operations stack.”

Satishchandra Doreswamy, Global Head, Cloud Infrastructure, TCS, said, “We have extended our state-of-the-art cloud offerings to customers in this region to reinforce the pivotal role we play in their ongoing digital transformation journeys."

The TCS ECP is a dynamic solution stack that provides multiple, flexible cloud infrastructure options including IaaS, PaaS, and hybrid cloud capabilities, which enable highly secure orchestrations between on premise, private and public cloud environments.

It provides a software defined approach to solve customer challenges and offers tight control over both physical and virtual environments. With enhanced security based on open standards and policy-based automation, the solution provides greater network fabric visibility, assurance that customer data remains in Australia, and enables enterprises operating in any environment to leverage the cloud through easy transformations.

Click here to return to Contents

Events News

aPriori Announces 2019 Cost Insight Conference Registration Now Open

1 August 2019

aPriori announces that the 7th annual Cost Insight Conference will be held September 30 – October 2, 2019.

The venue for this year's event is the Sheraton Grand Hotel, in Chicago, Illinois, located approximately 30 minutes from O'Hare International Airport by bus or car. This event is open to both aPriori customers and representatives from any manufacturer that are interested in learning more about DFM and DTC technology and best practices.

Visit the Cost Insight 2019 Event Website for complete information and register for this year's program.

Your Blueprint for Product Profitability

Manufacturers that work within Aerospace, Automotive, Heavy Industrial or Electronics industries all have one thing in common – overwhelming pressure to introduce innovative new products to the market faster than smaller, more nimble startup competitors.

At Cost Insight 2019, join attendees from leading product manufacturers around the world who will share their blueprint for success on how they implemented aPriori to instill a culture of cost awareness and Design for eXcellence (DFX) across their entire product organization – from concept design all the way through to final assembly.

Case studies already confirmed for this year's event include speakers from the Boeing Company, the Kenworth Truck Company and AGCO Corporation who will talk about deployment strategies, results to date and lessons learned along their journey to improved profitability.

See the Latest PCM Technology Breakthroughs

Leaders of the aPriori product management team will talk about key breakthroughs and new capabilities that are going to be delivered in aPriori 2019 R2 which is currently scheduled for release in the Fall of 2019. Exciting new projects like aPriori in the cloud, big updates for our new Cost Insight Design web application, costing of generative design models, composites cost modeling and automated costing integrated with product lifecycle management will all be on display.

For complete information and to register for the event, please visit the Cost Insight 2019 website.

Click here to return to Contents

Hexagon Announces Sir Ranulph Fiennes as Keynote Speaker for UK Event

29 July 2019

Sir Ranulph Fiennes has been announced as a keynote speaker at Hexagon's Manufacturing Intelligence division's HxGN LOCAL Smart Manufacturing UK conference. This two-day event, running 1-2 October at The Belfry Hotel and Resort near Birmingham, invites manufacturing leaders and innovators to discuss manufacturing trends including the challenges and opportunities of digital transformation and the smart factory.

Designed to provide a forum for manufacturers to network and discuss ideas on the future of the industry, HxGN LOCAL Smart Manufacturing UK includes a variety of speakers addressing topics of vital concern to UK manufacturers, such as automation, autonomous mobility, smart factories, future workforce skillset requirements, and the impact of the current economic climate.

In his keynote speech, Sir Ranulph Fiennes will share inspirational stories from his international expeditions as he reveals how he and his teams disrupted the status quo in pursuit of adventure. Hexagon's keynote 'Smart is Hiding in Plain Sight' will pick up these themes, encouraging manufacturers to discover the untapped smart potential in their processes today. Other inspirational industry and economic speakers include The Sunday Times bestselling author, Paul McGee, better known as 'The SUMO Guy' and Paul Andrews from autonomous racing outfit Roborace. During the evening, attendees will have the chance to meet and beat race car driver 'The Stig', Ben Collins, in a race car simulator challenge.

A live exhibition zone will feature a range of Hexagon solutions for harnessing data to improve processes from design and engineering through to production and metrology.

David Brown, UK Sales & Marketing Director, for Hexagon's Manufacturing Intelligence division explains, "Manufacturers today face a huge number of challenges, from the political and economic climate to the need to improve sustainability. Hexagon is working with manufacturers to better utilise technology to overcome these challenges, and I'm excited to invite UK manufacturing leaders to share their ideas on making it smarter at this brand-new conference. From innovation concept engineering to final product metrology: this event will appeal to anyone who is open to concepts they can implement into their business to gain a competitive edge and deliver high quality products and services to their customers".

Tickets are available to purchase now, with a limited number of early bird tickets, visit hxgnlocal.com to find out more.

Click here to return to Contents

Oracle OpenWorld 2019 Unveils World-Class Entertainment

25 July 2019

Oracle announced an exciting selection of experiences slated for Oracle OpenWorld 2019, highlighted by eight-time Grammy Award winner John Mayer. Attendees and online visitors from 175 countries are expected to register for the annual event which takes place in San Francisco on September 16-19 at The Moscone Center and throughout the South of Market district.

Oracle's unique partnerships with the City of San Francisco, the San Francisco Giants and the Golden State Warriors offer this year's Oracle OpenWorld attendees exclusive access to Oracle Park and the brand-new Chase Center as well as inspiring business leaders and celebrities. OpenWorld 2019 participants will be among the first to experience Chase Center, the Warriors new state-of-the-art sports and entertainment complex being built in San Francisco's Mission Bay neighborhood. CloudFest.19, Oracle's customer appreciation concert featuring John Mayer and other performers yet to be announced, will be hosted at the Warriors new facility shortly after it opens in September.

"As one of the Founding Partners of Chase Center, Oracle continues our legacy with the Golden State Warriors launching The Oracle Suite Level at the new arena," said Tania Weidick, Oracle's Vice

President of Event Marketing. “We are thrilled to celebrate our customers and partners with John Mayer at the first Oracle OpenWorld concert at Chase Center.”

Oracle expanded its successful 15-year partnership with the three-time World Series Champion San Francisco Giants this year by securing naming rights to the team’s ballpark for the next two decades. Oracle and the Giants will host a series of special events at picturesque Oracle Park designed to connect attendees and enhance their OpenWorld experience.

San Francisco Giants vs. Miami Marlins
Sunday, September 15 at 1:05 p.m.

FitFest.19
Tuesday, September 17 and Wednesday, September 18 at 6:30 a.m.

Movie Night – Viewers’ Choice
Monday, September 16 at 6:30 p.m.

Ballpark Tours
Monday, September 16 – Thursday, September 19 at 10:30 a.m.,12:30 p.m., 2:30 p.m. and 4:30 p.m.
Tuesday, September 17 at 11:30 a.m. and 1:30 p.m.

Full-conference registrants who check in and pick up their Oracle OpenWorld 2019 badge on Sunday, September 15 between 1 p.m. – 5 p.m. can sign up to enjoy exclusive access to additional features of Oracle Park while on the tour. Swing through the Giants’ Batting Tunnel and other private areas not usually accessible to the public.

For more than 20 years, Oracle OpenWorld has welcomed customers and partners from around the globe to the ultimate technology and innovation experience. The four-day event brings more than $200 million to the City of San Francisco each year. Oracle’s long-standing relationships with the City of San Francisco, San Francisco Travel, San Francisco Chamber of Commerce and the hotel community have made this possible.

Click here to return to Contents

Financial News

3D Systems Announces Conference Call to Discuss Second Quarter 2019 Financial Results

30 July 2019

3D Systems announced it plans to hold a conference call and simultaneous webcast to discuss its financial results for the second quarter and first six months of 2019 on Wednesday, August 7, 2019, at 4:30 p.m. Eastern Time. The company plans to release these financial results and file its Form 10-Q on August 7, 2019.

Second Quarter 2019 Results Conference Call

Date: Wednesday, August 7, 2019
Time: 4:30 p.m. Eastern Time
Listen via Internet: www.3dsystems.com/investor

Participate via telephone:

- Within the U.S.: 1-877-407-8291
- Outside the U.S.: 1-201-689-8345

The recorded webcast will be available beginning approximately two hours after the end of the conference call at www.3dsystems.com/investor

Click here to return to Contents

Autodesk Extends Invitation to Join Financial Results Conference Call

1 August 2019

Autodesk, Inc. announced that it will broadcast its second quarter fiscal 2020 financial results conference call live via its website Tuesday, August 27, 2019 at 2:00 p.m. Pacific Time. Autodesk will host a live webcast call at www.autodesk.com/investors. An audio replay webcast and podcast will also be available after 5:00 p.m. Pacific Time on Autodesk's website at www.autodesk.com/investors. For more information, please call Autodesk Investor Relations at 415-507-6373.

Click here to return to Contents

Nemetschek Group: Growth dynamics remain strong in second quarter with revenue up 21% with simultaneously high operating margin of 29%

26 July 2019

Following the extraordinary strong first quarter of 2019, the Nemetschek Group recorded very dynamic development in the second quarter as well, and increased its revenue by more than 20%. The operating margin rose from 28.2% in the first quarter to a high 29.0% in the second quarter. At the same time, the top player for software solutions in the global AEC market continued to invest strategically in next-generation solutions and further internationalization in order to secure the high-level growth dynamics for the future.

"The first half year met our expectations utterly and completely," sums up Patrik Heider, Spokesman of the Executive Board and CFOO of the Nemetschek Group. "We are recording ongoing fast growth and high demand on the part of our customers. We therefore remain the fastest-growing listed software company in Germany with global reach. In addition, in the first half year, we have been able to considerably and strategically develop our Manage segment further and expand it. We are, therefore, in an excellent position to achieve our targets for the year 2019 as a whole."

Major indicators of the Group's success in Q2 and the first half year of 2019

- In the second quarter, **Group revenue** rose to EUR 137.8 million. The dynamic organic growth of 14.9% and strong figures for the recently acquired Spacewell brand resulted in a growth of total 21.1% compared to the same quarter of the previous year. In the first half of the year, revenues even increased by 23.9% compared to the same period in the previous year, organically by 17.9%.
- With a plus of 36.6%, rising to EUR 73.2 million, **recurring revenue** from software service contracts and subscriptions remained a major growth driver in the second quarter. The half year showed similar growth dynamics with an increase of 35.3%. Revenue from **subscriptions**, in particular, which rose by 147.6% in Q2 and by 136.7% in the first half year, contributed to this strong development. The over proportional growth in subscriptions, whose revenue is recognized proportionately over a longer term, reflects the strong customer demand. License growth amounted to 8.6% in the first half year, with simultaneous, extremely strong growth in recurring revenue.
- Continued high levels of customer demand on the i**nternational markets** were a further growth driver. Revenues generated abroad in Q2 rose by 28.0%, and in the first half year by 30.2%.
- Consolidated operating earnings before interest, taxes, depreciation and amortization (**EBITDA**) increased in Q2 by 28.6% to EUR 40.0 million. This is equivalent to an EBITDA margin of a high 29.0% (previous year: 27.3%). In the first half year, the margin improved to 28.6% (previous year's period: 27.3%).
- The increase was positively influenced by the initial application of the new IFRS 16 standard concerning the accounting of leases. Adjusted for this effect, the EBITDA margin in Q2 was 26.3%, and in the first half year 25.9%, thus remaining entirely within the scope of the company's expectations.
- The **quarterly profit** rose by 20.8% to EUR 21.9 million in Q2. As a result, the earnings per share amounted to EUR 0.19. From a half-year perspective, it was possible to increase the profit for the period by 20.3%, rising to EUR 41.4 million, which corresponds to earnings per share in the amount of EUR 0.36.

To view full announcement including charts, please visit
https://www.nemetschek.com/en/news/corporate-and-brand-news/nemetschek-group-growth-dynamics-remain-strong-in-second-quarter-with-revenue-up-21-with-simultaneously-high-operating-margin-of-29

Click here to return to Contents

Implementation Investments

Cheerleading Brand Rebel Athletic to Soar with Centric Software PLM

30 July 2019

Rebel Athletic, a Dallas-based cheerleading and athletic apparel brand, has selected Centric SMB, Centric Software's Product Lifecycle Management (PLM) solution for emerging brands.

Rebel Athletic was founded in 2013 with a simple goal: to provide the best cheerleading uniforms in the world. Rebel Athletic produces a full line of custom apparel and accessories for schools, professional sports and Allstar cheerleading teams, as well as gymnastics and dance teams. These include uniforms, practice wear, warm ups, bags, shoes and more.

The company recently expanded into the mainstream market with an athleisure range for girls and young women that includes iridescent, high-performance athletic wear, sparkling Rebel Dream Bags, and more, sold online and at pop-up locations.

Rebel Athletic has grown rapidly and operates in a market with lead times as short as 45 days.

"Our customers expect fast-paced turnaround times from initial artwork to prototyping to product delivery," says Gordon Steinecke, Vice President of Design at Rebel Athletic. "We create uniforms that push the limits of design, while maintaining the highest technical performance standards. We're also expanding our retail arm, which drops 2-3 capsule collections per month."

"We were working with Excel spreadsheets, but as our company scaled, we suffered from information overload and data fell through the cracks. It was impossible to keep up. We also experienced delays in communication with our factory in China and vendors worldwide," Steinecke continues.

Rebel Athletic decided to investigate PLM solutions, and selected Centric Software's cloud-based SaaS PLM solution for mid-size enterprises, Centric SMB.

"The user-friendly interface is very exciting," says Steinecke. "We employ a lot of millennials, who are accustomed to visual, intuitive web-based tools like Centric SMB. We're looking forward to tracking products from inception to delivery, streamlining communication across teams in real time, improving transparency and easily connecting vendors with product coordinators."

"Centric is truly interested in finding solutions for our technical challenges and working with their team has been a seamless and positive experience," concludes Steinecke.

"We are very happy to announce that Rebel Athletic has selected Centric SMB," says Chris Groves, President and CEO of Centric Software. "Rebel Athletic is committed to exciting design and top-quality performance and we're delighted to support the growth of this dynamic company."

Click here to return to Contents

Dassault Systèmes and SATS Create World's First Virtual Kitchen for In-Flight Catering Production

25 July 2019

SATS, Asia's leading food solutions and gateway services provider, and Dassault Systèmes today announced that they have successfully implemented the world's first digital twin experience of a central kitchen to enhance SATS' in-flight kitchen operations. As the growth in commercial airline passenger travel continues to soar, SATS selected Dassault Systèmes as a technology partner to help identify new ways to boost efficiency and minimize food waste, for a more sustainable approach to its operations.

SATS used Dassault Systèmes' 3DEXPERIENCE platform on the cloud to create a 3D digital twin experience of a virtual kitchen that pairs virtual and physical operations to provide data-driven analytics for better resource planning. SATS can capture decades of operational know-how to simulate different food production processes in order to improve capacity planning and production scheduling, prevent

bottlenecks, and enhance productivity. SATS is also able to better forecast ingredient usage in its large-batch food production to reduce food wastage.

SATS' virtual kitchen captures and integrates all process data and information into one 3D virtual environment to ensure consistency, enabling the facility's operation managers to respond faster and more efficiently to changing situations. The virtual kitchen is also a collaborative workspace that fosters social innovation and increases productivity, where employees across business processes can share knowledge.

"SATS takes a technology-driven, people-led approach to growth, harnessing the power of technology and unleashing the innovation of our people to create new services and improve operational efficiency," said Albert Pozo Hernandez, Chief Digital Officer, SATS Ltd. "The use of digital twin technology helps SATS to simulate different production scenarios and cooking processes to optimize resources within our kitchens. We selected Dassault Systèmes because of its powerful 3D visualization and data management tools that enable us to make more informed, data-driven business decisions to ensure SATS consistently delights our customers."

"In the 'Age of Experience,' consumers are more discerning than ever before, underscoring the importance of excellence in the commercial operations that play an integral role in meeting airline passengers' expectations. Incremental improvements in operations can have a huge business impact," said Guillaume Vendroux, CEO, DELMIA, Dassault Systèmes. "Our solutions have already demonstrated improved on-time delivery performance for flight catering services by up to 99.5%. Now, this marks the first time that the 3DEXPERIENCE platform has been deployed in in-flight catering production. SATS can optimize resources by mapping the virtual model to the physical processes of their in-flight catering operations, and dynamically modelling, simulating, and analyzing every life cycle of production."

For more information on Dassault Systèmes' DELMIA applications: https://www.3ds.com/products-services/delmia/

Click here to return to Contents

GlobalFoundries Transforms Training and New Technician Skill Adoption with PTC's Vuforia Augmented Reality Solutions

30 July 2019

PTC today announced that GlobalFoundries (GF), a leading international full-service foundry that delivers semiconductor technologies to manufacturers, has selected PTC's Vuforia® augmented reality (AR) solutions to transform its training processes. With a manufacturing footprint spanning three continents, GlobalFoundries has established itself as one of the industry's largest pure-play foundry companies, and now GF is deploying AR solutions to improve manufacturing processes and productivity in its worldwide factories – across a competitive marketplace.

GF has implemented Vuforia to digitize standard operating procedures (SOPs) for training manuals and maintenance processes, improve remote expert assistance, and construct digital twins for powering AI engines. By combining the Vuforia Expert Capture™ productivity solution and Vuforia Studio™ authoring environment, GF can create digital training experiences with augmented reality which can be viewed through industry-leading devices such as Microsoft's HoloLens

2 and RealWear's HMT-1. This means the AR experiences can be used to raise the level of performance on the factory floors and drive better business outcomes for workers at all levels, including the onboarding of new technicians, the training of existing technicians, and capturing expert knowledge from retiring workers.

"With a vision to change the semiconductor industry that's changing the world, we are transforming every part of our workflow through the use of innovative technologies, including augmented reality. PTC's Vuforia AR platform, which integrates point solutions, is a game-changer on this journey. Vuforia Expert Capture, for example, has quickly helped us set a new global standard for creating best-in-class SOPs to accelerate training and reduce variability at the source. With successful results already achieved from our initial roll-out, wherein we've seen up to a 50% reduction in training time, we look forward to capitalizing on other Vuforia-powered transformation initiatives in the future," said Dr. DP Prakash, global head of innovation from the CIO Office of GlobalFoundries.

"We are delighted to be supporting this visionary company's digital transformation initiatives," said Hillary Ashton, executive vice president and general manager of augmented reality, PTC. "The worker skills gap continues to be a critical issue in manufacturing and PTC is excited to offer GF our award-winning augmented reality solutions to help tackle this challenge, giving GF, like other industrial businesses that have implemented Vuforia around the world, a competitive edge."

Through immersive interactions and guidance, Vuforia's AR experiences enable workers to become skilled and productive in a fraction of the time of traditional training methods, enabling companies to increase workers' effectiveness and productivity, improve production times, and reduce the risk of errors.

Click here to return to Contents

Lifestyle Furniture Company Four Hands Designs for Growth with Centric PLM

23 July 2019

Four Hands has selected Centric Software's Product Lifecycle Management (PLM) solution, to streamline its product development and bolster growth.

Four Hands was founded in 1996 and is based in Austin, Texas, and has become the go-to brand for some of the country's top retailers creating home furnishings in various categories, including Furniture, Art, and Lighting & Decor. As a global designer, manufacturer, wholesaler, and retailer of innovative lifestyle home furnishings and accessories, the company has established a loyal customer following of notable retailers such as West Elm, Crate & Barrel, and Restoration Hardware, among others.

Four Hands has experienced double-digit growth in recent years and began a strategic initiative to invest in technology to support their rapid expansion, including the selection and implementation of best-of-breed enterprise systems and enhancement of its B2B e-commerce capabilities.

"We were working with antiquated software systems, Excel and email," explains Douglas Estremadoyro, Vice President of Business Innovations at Four Hands. "As our sales grew, the number of products we were making soared. We went from a few hundred new product introductions a year to close to 4,000.

We expect that number to keep growing as we introduce new product categories to our lineup. Our existing systems were pushed to the limit. We needed a modern, flexible, scalable system that could support our growth."

Four Hands rigorously assessed several PLM vendors before selecting Centric 8 PLM.

"Our user group selected Centric because of its functionality and support for our processes," says Estremadoyro. "The technology behind Centric PLM is extremely desirable, and the cloud-based, subscription-based model is ideal. During the sales process, the Centric team were very responsive, professional and efficient, providing us with all the information we needed."

"Centric PLM will give us a central hub for product development from inspiration all the way to sourcing and testing. Having a single version of the truth will enable us to communicate and collaborate faster so we can continue to grow. We're excited about using Centric PLM and early user feedback has been very positive."

"We are delighted to welcome Four Hands as our first customer in the furniture market," says Chris Groves, President and CEO of Centric Software. "We like to push the boundaries of what PLM can do, learning and innovating based on customer needs, and we're looking forward to working with Four Hands to support their growth."

Click here to return to Contents

Market leader heroal makes buildings even more unique with CONTACT Software

30 July 2019

heroal is the market leader in the field of modular aluminium system solutions for building envelopes. With CONTACT Elements, the company continues to drive its digitization: More efficient manufacturing processes accelerate the launch of new products to the market and enable a flexible response to individual customer requirements.
Modern building envelopes are far more than pure facades. With the symbiosis of function and design, they reflect the spirit of the times and technical progress. heroal, based in Verl/North Rhine-Westphalia, manufactures high-quality aluminium system solutions for roller shutters, sun protection, roller doors, windows, doors and facades. The products are used in construction projects all over the world.

The requirements for design, sustainability, safety and durability of the outer skin of buildings are constantly increasing on the part of architects, planners and authorities. In the course of the growing complexity of modern private and public buildings, heroal replaces its previous PLM system with CIM Database PLM based on the highly scalable CONTACT Elements platform.

On this basis, the company is taking the next step in digitization and is consistently focusing on increasing customer demands and market requirements.

"The efficient variant management and its outstanding process and project management convinced us of CONTACT Elements," says Kai Lusczyk, Head of Product Management at heroal.

Click here to return to Contents

Sigma Labs has been selected by Airbus to Deploy Sigma Labs' PrintRite3D® Rapid Test and Evaluation Program

30 July 2019

Sigma Labs, Inc. ("Sigma Labs" or the "Company"), a provider of quality assurance software under the PrintRite3D® brand, announced today that it will work with Airbus to complete a Test and Evaluation Program of Sigma Labs' new PrintRite3D® version 5.0 hardware and software followed by a validation phase on a powderbed fusion printer.

Under the Test and Evaluation program, Sigma Labs will provide comprehensive PrintRite3D In-Process Quality Assurance (IPQA®) system and services—hardware, software, training, engineering and metallurgical consulting and support services—to demonstrate their ability to monitor and characterize material, machine process and production consistency and repeatability of additive manufacturing operations.

John Rice, Chairman and CEO of Sigma Labs, said, "We are honored and indeed feel very privileged to have our In-Process-Quality-Assurance tools as well as engineering staff engaged with Airbus, a leading aircraft manufacturer. PrintRite3D INSPECT® 5.0 provides the market with a user-friendly experience to rapidly qualify an AM metal machine for serial production, and then, in the course of continuous production runs, to be able to warn process engineers of 'signature' precursors of process discontinuities and thus enable them to extract actionable data to restore the process. Our industry appears to be accelerating in its sophisticated quality requirements including highly accurate and economic third-party quality assurance. We at Sigma have committed ourselves to meet that need."

The Test and Evaluation program will demonstrate the power of Sigma Labs' new PrintRite3D INSPECT® 5.0 and reveal the value-add of implementing IPQA® to ensure process quality by identifying process defect thermal signatures.

The application and growth of additive manufacturing in the aircraft industry continues to advance. Process qualification is critical to increasing and assuring quality, reducing waste, and raising quality yields. PrintRite3D®provides process knowledge and understanding about melt pool dynamics that can lead to improved process consistency and a broader scope of applications for additive manufacturing.

Click here to return to Contents

U.S. Army Research Lab Selects 3D Systems to Develop World's Largest, Fastest Metal Powder 3D Printer

11 July 2019

3D Systems announced it has been awarded a $15 million contract by the Combat Capabilities Development Command Army Research Laboratory, also known as ARL, to create the world's largest, fastest, most precise metal 3D printer. This printer will revolutionize key supply chains associated with long-range munitions, next-generation combat vehicles, helicopters, and air and missile defense capabilities. 3D Systems and the National Center for Manufacturing Sciences (NCMS) were awarded funding to create this revolutionary printer and will partner with ARL and the Advanced Manufacturing, Materials, and Processes (AMMP) Program to advance the leadership and innovation of the world's strongest military.

According to the U.S. Army Additive Manufacturing Implementation Plan, the Army has been using additive manufacturing (AM) for two decades to refurbish worn parts and create custom tools. Once developed, the Army will leverage its manufacturing experience by placing the new large-scale systems in its depots and labs. Subsequently, 3D Systems and its partners plan to make the new 3D printer technology available to leading aerospace and defense suppliers for development of futuristic Army platforms.

In each of these cases, the planned printer's unprecedented large scale and precision will enable more efficient design and production of long-term durable parts with reduced material usage, as well as faster time to market with parts going into the field. The printer's build envelope is planned to be 1000mm x 1000mm x 600mm, with ability to build minimum wall thickness of 100µm and layer thickness of 30µm. This is a significant increase over current large-scale metal 3D printers with a build envelope of 500mm x 500mm x 500mm.

"The Army is increasing readiness by strengthening its relationships and interoperability with business partners, like 3D Systems, who advance warfighter requirements at the best value to the taxpayer," said Dr. Joseph South, ARL's program manager for Science of Additive Manufacturing for Next Generation Munitions. "Up until now, powder bed laser 3D printers have been too small, too slow, and too imprecise to produce major ground combat subsystems at scale. Our goal is to tackle this issue head-on with the support of allies and partners who aid the Army in executing security cooperation activities in support of common national interests, and who help enable new capabilities for critical national security supply chains."

In addition to bringing a new metal AM solution to the Army, 3D Systems will also evaluate the feasibility of integrating the new technologies and processes into its existing portfolio of 3D printer technologies.

"Through this project, we're looking forward to delivering a working manufacturing system like no other," said Chuck Hull, co-founder and chief technology officer, 3D Systems. "From the early years of 3D Systems, our desire to innovate has been fueled by our customers' drive to be leaders in their respective industries. The solutions we develop have complemented many manufacturers' processes to help maintain their competitive advantage. ARL has already realized the power of AM to transform its operations. We look forward to collaborating with them to scale and expand these capabilities by delivering first-to-market processes, materials, and technologies."

"What 3D Systems is doing currently is nothing short of pioneering," said Lisa Strama, president and CEO, NCMS. "As the capstone project of the AMMP Program, it will lead to critical breakthroughs for our members and partners, enhancing performance and speeding innovations to market. This technology will be not only transformational for supporting our warfighter, but also across the supply chain."

Co-founded by industry pioneer, Chuck Hull, who patented stereolithography in 1986, 3D Systems has a broad portfolio of polymer and metal as well as 3D printing tools. Recently, the company expanded its platform-centric approach by announcing the DMP Factory 500, DMP Factory 350 and DMP Flex 350 in collaboration with GF Machining Solutions. These solutions are some of the first to combine scalable additive and subtractive technologies.

Click here to return to Contents

Vilebrequin Chooses Gerber Technology

1 August 2019

Vilebrequin has selected Gerber Technology's integrated solutions, YuniquePLM® and AccuMark® CAD, to facilitate quick product development and centralize all information, making it easily accessible to every member of the team. Gerber Technology enables innovation by helping its customers compete and win in today's 'on-demand' markets through their integrated technology and service offerings that any brand or manufacturer can easily adopt to unleash their full potential.

The pressure is on for brands to consistently offer new products, which requires brands and retailers to move faster than ever before in order to get their products to market. In order for Vilebrequin to offer their customers more novelty, they are now offering three collections each year, with several capsules in between, creating a higher workload. With Gerber Technology's innovative digital solutions, Vilebrequin is able to easily work on several collections at the same time and deliver them to the market in a timely fashion.

"After much research, it was clear that Gerber was the best solution on the market to digitalize and streamline our process to increase efficiency while improving quality and fit," said Christian Roche, Chief Information Officer at Vilebrequin. "The connectivity between their PLM and CAD solutions is unmatched, helping to not only reduce our time to market but also reduces costs and improves fit."

Gerber Technology's cloud-based PLM, YuniquePLM V8, was a key component in Vilebrequin's decision to choose the data-driven industry leader. The cloud-based PLM offers easy access to regular updates, a renewed and easy-to-use user interface, and seamlessly integrates with an IT ecosystem, such as Adobe® Illustrator® through the Design Suite Plugin, allowing Vilebrequin to quickly import data from other systems into YuniquePLM. A major differential from the competition for Vilebrequin was Gerber's 15 years of experience in their CEGID/Orliweb ERP integration.

"We are incredibly proud to welcome Vilebrequin into our Gerber family," said Ketty Pillet, Vice President Marketing at Gerber Technology. "Vilebrequin has a rich history of offering the highest quality swimwear and we are excited to help them further enhance their product offerings."

In addition to YuniquePLM, Vilebrequin will also be implementing Gerber's industry-leading pattern design software, AccuMark 12.1, which is now available on a subscription basis in the Americas and coming soon to Europe. With the seamless connectivity between AccuMark and YuniquePLM, Vilebrequin will be able to pass data throughout the supply chain, streamlining their workflow, improving fit and quality, and ensuring repeatability.

"With developments of new territories, Vilebrequin is diversifying and increasing its offer which meant we needed to improve our communication amongst our team," said Aurelie Tondella, Merchandising & Strategic Planning Manager at Vilebrequin. "We are confident that YuniquePLM, as well as Gerber's deep understanding of the process, will facilitate our way into making Vilebrequin the lifestyle brand it can be with regular novelties in our stores and online."

Click here to return to Contents

Zafin empowers BPI to offer more rewards, better pricing for clients

31 July 2019

Zafin, a provider of product and pricing control solutions for financial institutions, will help Bank of the Philippine Islands (BPI) to give its retail and corporate clients more rewards for their loyalty and customized product pricing that fits specific client needs.

Zafin, through cutting-edge software, supports BPI's digitalization by employing various tools that give BPI's clients a more rewarding and more efficient banking experience.

"BPI is committed to understanding and addressing their clients' financial needs, in order to build lasting relationships," said Gabriel Leiva von Bovet, Executive Vice President, Sales at Zafin. "We are very proud to contribute to this goal through the timely and successful implementation of this project. BPI, like many of our other clients, is an established leader in customer-centric and digital solutions, and this partnership allows them to maintain and expand this leadership, while improving the bottom line."

BPI tapped Zafin for the use of four software solutions. Zafin's Offers & Rewards solution will help compute cross-product rewards or cash back for qualified BPI clients so they can enjoy more of the perks afforded to them. Product Master is a product repository that will help the bank easily access product information from other bank applications, resulting in appropriate product lifecycle management and multi-product offers for clients.

BPI is also availing of the Deal Manager solution for its corporate clients, who will soon enjoy customized product pricing that suits specific needs. The bank will also use Zafin's Billing, a billing management system for better tracking and more detailed and accurate billing information.

Leiva von Bovet also said this project is part of BPI's digitalization efforts to enhance every aspect of the bank's operations to give clients a better digital banking experience.

"BPI recently revamped its digital channels to give customers more timely and relevant information and allow for better use of financial products and services," said Leiva von Bovet. "The Zafin platform complements BPI's client-centric financial services strategy by allowing them to offer a more personalized banking experience, while improving operational efficiencies. Our tools will also provide BPI's customers with more competitive offers and pricing."

The integration of the Zafin product suite in the bank's corporate banking business will enable BPI to increase revenue and profitability while enhancing client transparency, reducing operational costs, and accelerating time-to-market. This will be possible with three core features of Zafin's tools that focus on fee management, rate management, and cross-product conditional offerings.

Meanwhile, for retail banking, BPI will now be able to identify, engage, and retain key customers through these tools that create incentivized programs that target each customer's needs. The bank can now focus on building deeper and more nurturing relationships with its clients.

Click here to return to Contents

Product News

Autodesk: BIM 360 Field iPad release

30 July 2019

Announced on the Autodesk blog:

We are pleased to share the latest BIM 360 Field iPad 4.35 release contains the following improvements:

- New setting 'Share Image Quality' added to BIM 360 Field app settings, allowing user to control image quality when emailing attachments from issues, tasks, equipment and checklists
- When project setting "Closed checklists cannot be edited or deleted" is enabled, Field mobile users no longer will be able to add new attachments to checklist items or create new issues to closed checklists
- Improved sync performance

Click here to return to Contents

FACTON is Strengthening Its Presence in the Industrial IoT Application Landscape and Now Positioning Its EPC Solution in the PTC Marketplace

31 July 2019

Potsdam-based software manufacturer and creator of the FACTON EPC Enter-prise Product Costing solution is offering its FACTON EPC Design Costing soft-ware directly to PTC partners and customers in the PTC Marketplace. This will position FACTON with one of the leading global IoT platform providers.

Effective immediately, FACTON is delivering its EPC platform-based Design Costing software via the PTC Marketplace – a move that will strengthen FACTON's presence in the industrial Internet of Things application landscape. PTC is an international pio-neer in the development of IoT platforms for industry and supplies its partners and customers with technologies and software solutions through its digital marketplace.

"PTC is driving the widespread use of IoT in industrial applications. Our product cost-ing software enables us to play a key role in helping companies connect the physical and digital worlds so that they can profitably prepare cost calculations and quotations throughout the entire life cycle," says Alexander M. Swoboda, Chief Executive Officer of FACTON GmbH.

FACTON and PTC have collaborated since 2018. PTC's Windchill Product Lifecycle Management (PLM) is integrated in FACTON's Design Costing solution. The ThingWorx Navigate app aggregates costing and PLM data to ensure enterprise-wide visibility of product structures and costing information.

PTC's PLM customers can leverage costing data from a single application and calculate enterprise and product costs more quickly and precisely. The integration is al-ready complete and ready for operation.

Click here to return to Contents

Prometech Releases 'Particleworks for ANSYS'

25 July 2019

Prometech Software, Inc. has released Particleworks for ANSYS, an interface product between Particleworks and leading multiphysics simulation software ANSYS on July 25.

Particleworks, a liquid-flow simulation software based on the moving particle simulation (MPS) method, has been introduced in many industrial fields because of its mesh-free, easy-to-use operation and unique simulation capabilities required for fluid phenomena such as liquid drop, mixing, lubrication, spraying, sloshing and splashing. Its appeal to a broad range of users not only in the automotive industry, but also in the machinery, electric, material, food, chemical, biomedical, energy, and civil engineering industries all over the world has been growing over the past 10 years since its first release in 2009.

Today, demand for such complicated liquid flow simulation is increasing not only in niche users but also a growing number of CAE engineers that work with structural, dynamic, thermal, electromagnetic, and/or general fluid flow analysis, who expend considerable effort to determine the influence of liquid flows to and from those physical behaviors. This is also true for users of ANSYS, the world-leading multiphysics simulation software.

Particleworks for ANSYS is developed to provide a specialized, fast simulation tool for customer's performing liquid flow simulations with large free-surface deformation, complementing Fluent's high-resolution, high-accuracy free surface results. Particleworks is now integrated into the ANSYS Workbench environment and can be combined with ANSYS' simulation capabilities for more realistic product design evaluations.

Incorporating Particleworks into the ANSYS Workbench environment enables key features, such as calculating the deformation of a structure caused by fluid pressure, and the transfer of heat from a structure with the heat transfer coefficient. Fig.1 shows the launch menu of Particleworks in ANSYS Workbench and Fig.2 shows the simulation flow from the liquid flow simulation in Particleworks to the heat transfer simulation in ANSYS.

Particleworks can also be integrated with ANSYS Mechanical for calculating e-drives and the cooling of internal combustion engines. In this case, the information about heat transfer and cooling from the Particleworks simulation can be automatically and seamlessly transferred to ANSYS Mechanical to take into account the efficiency of the oil cooling. ANSYS Mechanical will use the boundary conditions from Particleworks to accurately predict the temperature and stress of the e-drive or piston.

In addition, Particleworks can transfer the mechanical pressure distributions during a transient process, such as the pressure produced by the sloshing of fuel or any other liquid in a tank, or the forces produced by water, mud or snow on the bumper of car, to ANSYS Mechanical. In this case, the force history or time-dependent pressure distribution on the structure is mapped from the Particleworks' CFD simulation to the mechanical analysis to design and verify the structural resistance under dynamic loads.

Click here to return to Contents

Schneider Electric Announces New Release of ArcFM Designer XI

1 August 2019

Schneider Electric announced a new release of ArcFM Designer XI. The latest version of the next generation design app incorporates additional tooling to handle more complex work and job types to serve as the primary design tool at any utility.

Modern utilities are expressing increased urgency for efficiency and quality data to feed mission-critical systems; and stakeholders across an enterprise require access to proposed work information to

accurately design, analyze, plan, approve and schedule work. Building from experience, Schneider Electric turned ArcFM Designer XI into a more complete tool that addresses the many needs of modern utilities through new capabilities, including:

- Custom Workflow Tasks: Quickly and easily share design information with other tools and business systems to do things like generate cost reports, open CAD drawings and get driving directions to the design location directly from the application.
- Reference Maps: Bring other GIS data into ArcFM Designer XI to determine how other facilities – such as water assets or environmental areas – may impact a design. These maps use the Mobile Sync technology in the background to keep them up-to-date and easy to download for end users.
- Basemap Improvements: Designers can easily toggle between different basemaps, such as imagery and streetmap data. Designer XI also supports the Vector TPK format, so basemap downloads can be smaller and optimized for end users for offline use.
- Electric Network Component: Designer XI now has the capability of placing more network components during a design, so all materials can be represented and accurately accounted for in the design. This allows Designer XI to be the primary design tool at a utility, and it can be used for all job types.
- Send to Placement Tool: Designers can quickly reuse a set of CUs that have been placed in a design, so they don't have to be recreated from scratch.
- Display X, Y Coordinates with Cursor: A new view of the x, y coordinates allows designers to place an asset at a determined GPS point and gives the user more control over precision placement of new assets.

ArcFM Designer XI combines the strengths of Schneider Electric's historical design tools into a single, purpose-built design application that helps utilities transition from legacy technology to new technology. The application delivers simplicity through a user experience focused on the designer, optimizes efficiency by speeding up the design and construction lifecycle to reduce backlogs and provides intelligence by unlocking networking engineering analysis at design time.

"For the latest release of ArcFM Designer XI, we set out to deliver an application that is prepared to execute extremely complex job types," said Jay Stinson, general manager at Schneider Electric. "The exceptional performance of the application will enable utilities to accelerate their work and produce high-quality designs more efficiently, eradicating the various roadblocks utilities experience in the design lifecycle."

Schneider Electric collaborated with Nova Scotia Power, the first ArcFM Designer XI customer, to add new enhancements to the application, including the Electric Network Component and the send to placement tool.

"With ArcFM Designer XI, we are able to leverage new digital capabilities to advance our overall design process" said Glen MacLeod, Business Integration Manager at Nova Scotia Power. "ArcFM Designer XI enables us to integrate our tools and streamline the end-to-end design process resulting in a truly digital design and construction workflow. Schneider Electric's receptiveness to our feedback and ability to evolve the Designer XI solution has been extremely beneficial in helping our utility get full value for our customers."

ArcFM Designer XI is part of the ArcFM Solution XI Series, an ecosystem of applications that

streamline the design and construction workflow, enabling utilities to get work done more efficiently. ArcFM Editor XI, ArcFM Web XI and ArcFM Mobile XI fill out the rest of the ecosystem and offer the most comprehensive utility GIS solution available today. The result – streamlined workflows, minimized use of paper and a reduced work backlog, enabling utilities to address the challenges facing today's digital environment.

Click here to return to Contents

Siemens Simcenter BDS 2019.2 Available

26 July 2019

Announced on the Simcenter blog:

Simcenter BDS 2019.2 is now available for download. For this release, developments and new features focus on the performance gains in the Distributed Model and the RCR model export to Simcenter Amesim.

Performance gains

The software development team worked on the optimization of the Distributed Model code, leading to significant results in computation performance improvements. Of course, it is important to note that performance will depend on the specifics of each simulation, but in some cases, an x2 speed up has been observed.

Simcenter Amesim experience

For the benefit of our users working on battery modeling at various scales, Simcenter battery solution experience has been greatly improved thanks to the ability for Simcenter Amesim to import a TBM file.

This functionality is already available within Simcenter Amesim 2019.1, released on April 2019. So in addition to the existing TBM file export to Simcenter STAR-CCM+ for 3D pack analysis, it is now possible to export to Simcenter Amesim and perform system-level 1D analysis, for thermal management, energy management, control verification & validation, etc.

This release supports RCRTable model but will support other models in the future. This provides a consistent model formulation from the cell to pack to the system level, facilitating the model exchange at various scales. The expected model performance output should be similar at all levels, and this prevents any errors when trying to translate a cell level model from one software package to a system-level model in another software package.

Minor additional features

A new filter which converts a Simcenter Battery Design Studio .out file into the equivalent program (.prg) file was added to the Simcenter Battery Design Studio 2019.2 release. This new filter adds the ability to use a previously generated .out file to drive a Simcenter Battery Design Studio simulation. This allows the verification of OutTester results, as well as provides the ability to use program file features such as limiting steps, specifying the report intervals and controlling the oven and convection settings. Additionally, simulations run times can be reduced by using the .prg format as the input format, when compared to using the original .out file.

Finally, in order to remove the confusion on reporting only the stack thermal mass in the .out file, which

consists only of the electrodes stack without the packaging, the full cell thermal mass report, which consists of the electrodes stack and the packaging has now been added to the .out file. Indeed, depending on the package design, a stack can have the same thermal mass as a full cell. To remove this confusion, both thermal masses are now printed.

Click here to return to Contents