

PLM Knowledge 21

Volume 4 Issue 1

June 2006

"Empowering Knowledge for 21st Century Engineers"

UGS Corp. Recognized as a Top Supporter of Historically Black Engineering Schools



The only PLM company to receive this recognition



Plano, TX—UGS Corp. ranks 3rd among fortune 500 corporations and U.S. government agencies in its support of historically Black engineering schools in the U.S., according to a recent independent survey of the deans of those schools. Career Communications Group, publisher of ***U.S. Black Engineer & Information Technology (USBE & IT)*** magazine, conducted the survey last month. Participants in the survey were the deans of the 10 ABET-accredited, historically Black college and university (HBCU) engineering programs; the dean of engineering of historically Black Jackson State University; and the executive director of the corporate-academic alliance Advancing Minorities' Interest in Engineering (AMIE). The questionnaire asked the deans to list the 10 companies they feel contribute most to their schools' institutional missions. AMIE was asked what companies provide the most support to Black engineering schools. In all, 51 companies were named as Top Supporters.

HBSU Deans w/Tyrone Taborn

Tyrone D. Taborn, editor in chief of USBE & IT and chairman and CEO of the magazine's publisher, Career Communications Group Inc. (CCG), says, "We are consistently finding many corporations that are doing more than their share in building the pipeline. This survey reflects the perception that the deans and AMIE share about the level of support they receive from Corporate America. One of the reasons we received a tremendous response from our readers to our last four surveys is that people care. Black students and professionals want to know more about what these companies are doing for their colleges. People want to work for a company that is committed to their community."

"UGS develops and nurtures Product Life-cycle Management (PLM) partnerships that provide significant added value for academic institutions, youth / displaced workers development programs, Regional Productivity Partnerships, Partners for the Advancement of Collaborative Engineering Education (PACE), and our global communities," stated Hulas King, Director GO PLM & Global Community Relations - UGS. "We work closely with AMIE to improve the technical stature of HBCU's and their ability to develop top-notch engineers and technologists. UGS is proud to have provided over \$609M in-kind software grants to HBCU Engineering Schools, empowering students with the same PLM tools used by leading manufacturers and technology companies to aggressively compete on the basis of time to market, product cost, quality and innovation. Our partnerships with HBCU Engineering Schools are opening new opportunities for their graduates around the world."



Inside this Issue:

PACE;- PLM Regional Productivity;- International Partners;- Academic Partners;- Youth Development Academic Partnership;- UGS Community Relations;- Student - Faculty Resource Center;- Academic Courseware / Textbooks

UGS Sponsors First PACE 2006 Vehicle Collaboration Project that Partners Corporate and Academic Sectors

Plano, TX – UGS Corp., announced its sponsorship of the PACE (Partners for the Advancement of Collaborative Engineering Education) 2006 Vehicle Collaboration Project. The PACE 2006 Vehicle Collaboration Project is a first-of-its-kind partnership between the corporate and academic sectors to use commercial PLM software to conceptualize and develop a ground-breaking vehicle that provides students with real-world experience in New Product Development and Introduction (NPDI).

In cooperation with co-sponsors General Motors (GM), EDS and Sun Microsystems, UGS is providing Teamcenter, the world's most widely used PLM portfolio, to support the collaboration of 14 universities worldwide on this NPDI initiative.

"We are offering our students a real taste of tomorrow's engineering environment today by providing them with this unique opportunity to learn and experience true multidisciplinary global product design," said Dr. Jan Helge Bøhn, associate professor, Department of Mechanical Engineering, Virginia Tech; and Director, Virginia Tech Computer-Aided Design Laboratory. "We have more than 110 future mechanical engineers, electrical engineers, and industrial designers engaged across Australia, Brazil, Canada, China, Mexico, South Korea, Sweden, and the United States (US), all working together with GM designers and engineers using state-of-the-art collaborative designs

cont. on pg. 8

UGS Sponsors First PACE International Forum on Digital Manufacturing

Darmstadt, Germany and Plano, TX – UGS Corp., recently sponsored the 1st PACE (Partners for the Advancement of Collaborative Engineering Education) International Forum on Digital Manufacturing at Technische Universität Darmstadt, Germany. Other PACE partners assisted in organizing the conference and making the international participation possible. Adam Opel GmbH also provided executive support and a tour of its modern production facilities in Russelsheim.

"The goal of the Forum was to present and discuss the latest developments in the field of digital manufacturing, particularly with regard to simulation methods and technologies as applied to digital machine tools and virtual products" said Prof. Dr.ing Reiner Anderl, Vice President – TU Darmstadt."

More than 80 participants from all over Europe, the United States, South America and Asia participated. The main topics of the International PACE Forum were digital factory concepts, integrated process chains from product development to product processes, digital machine tools as well as analysis, simulation and optimization methods for digital manufacturing.



"Special Thanks from PACE"



Group Shot of the Finalists

"On behalf of the PACE Core Team, I wanted to thank you for your efforts in holding a PACE Competition at the University of Toronto. We express our appreciation for the time and effort that you spent. These competitions really drive excitement and enthusiasm for the use of the PACE software and also provide an opportunity for students to meet with industry representatives and find out how high-tech the auto industry really is."

Warm regards,

Elaine Chapman-Moore (PACE Manager - GM)

New technologies for digital manufacturing were presented by both industry and academia leaders. Speakers from industry stressed the importance of digital manufacturing explained in particular with respect to applications in the automotive and supplier industry. Academia presented an insight into both fundamental and application oriented research explaining new approaches for optimization of production processes based on digital and numerical methods.

"UGS is a proud sponsor of the First PACE International Forum on Digital manufacturing," said Al Hufstetler, Vice President, Tecnomatix Marketing – UGS Corp. "Together with our partners GM, EDS and Sun Microsystems, we are advancing the education of promising young

engineers around the world, transforming the process of innovation."

Dr. Linda Joseph - Manufacturing Engineer (GM), discusses digital manufacturing w/ faculty and students



PACE

Partners for the Advancement of Collaborative Engineering Education



PLM Regional Productivity

The University in Novi Sad selects PLM Software from UGS



Belgrade, Serbia and Plano, TX – UGS Corp., a leading global provider of product lifecycle management (PLM) software and services, recently announced that the University of Novi Sad was awarded an in-kind grant of NX™, SE™ and Teamcenter Engineering™ software with a market value of over € 23 million. This grant along with regionally supported partnerships is provided through UGS' GO PLM (Global Opportunities in Product Lifecycle Management) program. The program serves over 8,400 GO PLM Partners worldwide that, collectively, train 846,000 students on UGS PLM software each year.

"Our intention is to prepare a 'Student Workshop' at the Faculty where students can be educated continuously with the best PLM technology" said Prof. Ilija Cosic,

Dean of the Faculty of Technical Science, University of Novi Sad.

"This is a significant step for Serbia's technical and technological education," said Dragisa Vilotic, Professor at the Cathedra of Metal Forming at University of in Novi Sad. By selecting UGS technologies, we recognise our students and future engineers will be educated and experienced with the newest and most advanced PLM technology."

"We recognise Solid Edge™ as the best product to enable our students to acquire essential 3D modelling skills." This is critical to allow students to make their first steps very effective when designing with 3D solids modelling" said Djordje Cupkovic, Assistant at the Metal Forming Laboratory. Allowing our students to further extend their capabilities with NX in the realm of Finite Element Analysis through to Virtual Manufacturing within a managed developed environment enabled by Teamcenter will be a major knowledge asset in industry applications where Product Lifecycle Management is seen as a key advantage.

"UGS is proud to partner with the University of Novi Sad in developing students with next generation PLM skills," says Mike Robinson, Director Northern & Eastern Europe – UGS. "This partnership provides industrial development opportunities for regional manufacturers, a major consideration in rebuilding and extending the percentage of Serbia's GDP from industrial output."

UGS Launches NX Designer Certification for China at Shanghai Jiao Tong University

Shanghai, PRC and Plano, TX – UGS Corp., launched the NX Designer Certification Program at Shanghai Jiao Tong University. 79 students and faculty personnel participated in this inaugural Certification Process in China. UGS' NX Certification is an integral part of the UGS Global Certification Strategy to prepare students to enter the workforce and accelerate their contributions to customers' productivity.

"Both our students and faculty benefited from the UGS white belt certification pilot event in China", said Prof. Guanlong Chen, dean of the School of Mechanical Engineering of Shanghai Jiao Tong University, "It was impressive, well organized and professional. We engineering students feel horned to attend this globally certification, it measures their ability of mastery this world-class computer-aided design tools and I believe the certification will improve their competency in the recruiting market. We've used NX in our design and manufacturing curriculum more than 3 years and we are pleased to get involved in this pilot event."

"In the PLM space, companies are beginning to see the need to first train and then measure the knowledge and skill of their workers in order to get the maximum benefit from their investment PLM Tools," said Russ Boyd, Global Certification Program Manager – UGS Corp. "Automotive industry customers are looking for every advantage they can find in choosing their PLM tools. Having skilled workers, and a mechanism to ensure their workers are skilled, means higher productivity levels. The UGS Global Certification Strategy helps to meet these needs."



Technical University of Moldova received Product Lifecycle Management (PLM) Software from UGS Corp.

Chisinau, Moldova – UGS Corp., announced it is providing 150 seats of its NX™ software to the Technical University of Moldova in Chisinau, Moldova. The in-kind grant will serve engineering and management in Machine Building, Engineering and Management in Mechanics, Energetics and Computers, Informatics and Microelectronics faculties.

The in-kind grant is enriched by regional partnerships through UGS' GO PLM™ (Global Opportunities in Product Lifecycle Management) program which serves more than 8,400 GO PLM Partners worldwide that collectively train 860,000 students on 696,000 seats of UGS™ PLM software each year.

"Our intention is to prepare structured training supported with student workshops and competitions at each of the 4 Faculties where students will be educated continuously with the latest, proven PLM technology," said Ion Boston, Dean of the Technical University of Moldova. "The application of such advanced software along with training support from UGS is a significant contribution to the future development of our students and our industries."

"UGS is very pleased to partner with the Technical University of Moldova," said Mike Robinson, director Northern and Eastern Europe for UGS. "In the long term this partnership will provide industrial development opportunities for regional manufacturers."



TECHNICAL UNIVERSITY OF MOLDOVA

International Academic Partners

Faculty of Mechanical Engineering- Technical University of Kosice to Received Product Lifecycle Management (PLM) Software from UGS

Letná, Kosice – UGS Corp., a leading global provider of product lifecycle management (PLM) software and services announced that it is providing more than 40 seats of its NX™ software to the Technical University of Kosice in Kosice, Slovakia.

"This is a significant and exciting step for the Technical University of Kosice," said Peter Bigos, professor of Machine Design, Technical University of Kosice. "Our students have additional opportunities to learn technologies which are meaningful in the market today. Students have the chance to gain practical knowledge and the same skills used in today's industrial development."

The in-kind grant will be used for final coursework in the Department of Machine Design degree plans. Training and equipment are also included.

"UGS is proud to partner with the Technical University of Kosice," said Henry Seddan, VP Marketing EMEA- UGS. "Our PLM tools provide for a digital development environment with fast processes and comprehensive management and collaboration and using UGS tools gives students practical experience they need when they graduate and enter the workforce."



**Technická univerzita
v Košiciach**
Letná 9, 042 00 Košice

Youth Development

Livonia Churchill High School selects NX Software to Develop Next Generation Engineers

Innovative program transforms drafting curriculum into Collaborative engineering experiences.

Livonia, MI— UGS Corp. ,announced that Livonia Churchill School has been awarded an in-kind grant of NX software with a market value of over \$7M. This grant along with regionally supported partnerships is provided through UGS' GO PLM program.

"Our intention is to transform current drafting classes to real world engineering experience using the best PLM technology said Jeff Hatley, Industrial Technology Department Chair. "Our school is located in the heart of metro Detroit and the auto industry. Having NX in our curriculum allows us to create a pre-engineering experience in the classroom. Students who learn NX can pursue careers in design, engineering, computer science, and manufacturing technology. Thanks to UGS, I am confident that our students will now have a leg up on their peers when they enter college or a post-secondary training program."

"UGS is proud to partner with Livonia Churchill High School in developing students with next generation PLM skills," said Stuart McCutcheon, Vice President Global Auto Strategy - UGS "Our PLM tools provide for a digital development environment in which students can tie into the global innovation networks that the world's leading manufacturers are leveraging to build the most innovative products. UGS' tools give students practical experience they will need when they graduate and enter the workforce or continue their education in heavily demanded technical fields"



Livonia Church Hill Students left is Andrew Oliver and on the right is Kyle Anderson.

Winston Churchill High School
Home of the Chargers

Lenoir Community College Signed on as a New GO PLM Academic Partner

Kinston, NC - Lenoir Community College has been awarded an academic grant consisting of several UGS Academic Bundles, with a commercial value of \$13.2M. The college's new curriculum will be linked to the Global Trans Park, the North Carolina Aerospace Alliance, and the Golden Leaf Foundation.

LCC President Dr. Brantley Briley said, "It is essential that the community college system be able to respond to the growing need for highly skilled machinists, advanced metal workers, aircraft mechanics and service technicians, with the support of UGS LCC will be poised to meet this need".

"UGS' generous contribution to LCC will be used to generate advanced curriculum that will give its students the opportunity to capitalize on current and future industry development," Briley said.

"The objective of the grant is to support the growing "skill-set" demands required by the Eastern North Carolina's employment community. LCC plans to structure an elective course track leading to a specialization in 3D CAD modeling and analysis based on UGS Solid Edge and Teamcenter Visualization Mockup software bundles.

Merritt said LCC also plans on utilizing the NX Bundle to utilize advanced manufacturing programming with the machining courseware,

reverse engineering, and advanced model design. LCC plans on utilizing Teamcenter and Tecnomatix technologies on courseware for Product Data Management, Visualization, and Collaboration in its manufacturing center.

Learn More: <http://www.lenoir.cc.nc.us/nsite/aboutlcc/news/mach-grant05.htm>

Matthew Brennan (UGS Sales /
Lenoir Community College faculty)



UGS and Ford Powertrain Operations Team Up to Provide Product Lifecycle Management (PLM) Software to Saline High School

Saline, MI – UGS Corp. announced that Saline High School has been awarded an in-kind grant of NXTM software with a market value of nearly \$7 million. Saline High School will use the grant to expand its drafting, CAD/CAM (computer-aided design/computer-aided manufacturing) and machine tool programs to include advanced engineering experiences using UGS® technology. The in-kind grant is enriched by regional partnerships through UGS' Global Opportunities in Product Lifecycle Management (GO PLM) initiative.

"We are extremely grateful to receive this grant. It is a significant step toward introducing advanced engineering technology into our classrooms," said Bruce Ross, technology education instructor for Saline High School. "Combining NX software with the advanced math and science concepts in our technology curriculum will provide our students with real-world experiences and better prepare them for college." "Innovation and the ability to bring the right products to market quickly are key business drivers for today's most competitive companies," said David Shirk, executive vice president of Global Marketing, UGS. "Providing software to schools like Saline High School empowers knowledge for potential future engineers to tie into global innovation networks that the world's leading manufacturers are leveraging to build the most innovative products."



Ferris State University, UGS Corp. partnership enables CAD Drafting and Tool Design students' access to CAD and Digital Manufacturing software

Big Rapids, MI – UGS and Ferris State University (FSU) announced an innovation partnership. UGS is providing an in-kind grant of NX and Solid Edge software to Ferris State University with a commercial value of \$21.8 million.

The grant is being made through UGS' Global Opportunities in Product Lifecycle Management (GO PLM) initiative. GO PLM™ leads the industry in the commercial value of in-kind grants it provides – more than \$2 billion in 2005 – and brings together five complementary community involvement programs focused on academic partnership, regional productivity, youth and displaced worker development and the Partners for the Advancement of Collaborative Engineering Education program. GO PLM provides PLM technology to more than 800,000 students yearly at nearly 8,400 global institutions, where it is used at every academic level – from middle schools to graduate engineering research programs.

Dr. Mark Hill, Professor – CAD Drafting & Tool Design, said "Ferris has been educating students in Plastics Injection Mold Design, Sheet Metal Die Stamping Design and Jig and Fixture Design for more than 50 years and the addition of the NX and Solid Edge suites of software will enable our graduates to enter the industry with a greater working knowledge of current industrial software recognized throughout the world.

"Partnerships with corporations like UGS enables Ferris to engage in significant and fundamental innovations that transform the academic environment, thus providing a relevant educational experience for our graduates" expressed Vice President of Academics, Dr. Michael Harris.

"On behalf of Ferris State University, I want to express sincere appreciation to UGS for providing the future graduates of our program this industry-leading software," said professor Mark Hill. "

"Innovation and the ability to bring the right products to market quickly are key business drivers for today's most competitive companies," said David Shirk, Executive VP Marketing – UGS Corp. "The FSU / UGS Partnership empowers knowledge for 21st Century Engineers. It also exemplifies UGS' commitment to FSU's outstanding students and dedicated faculty. UGS is proud to build on this partnership with FSU and manufacturers in Michigan and beyond."



FERRIS STATE UNIVERSITY

Academic Partnership

University of Cincinnati Receives \$289 Million Software Grant from UGS; Largest Software Grant Ever Received at the University

Grant Boosts Future Career Opportunities for Engineering Students through Practical Experience with Industry-Leading Product Lifecycle Management (PLM) Software

Cincinnati, OH – UGS Corp. announced an in-kind software grant with a commercial value of \$289 million to enhance engineering programs at the University of Cincinnati. The in-kind software grant from UGS is the largest the University of Cincinnati has ever received. The grant includes UGS' NX, Solid Edge® and Teamcenter® product suites to help students and faculty in the College of Engineering conceive, design, engineer and validate projects using the same tools that today's leading global manufacturers employ. Technologists



and engineers at Procter & Gamble, Boeing, Dyson, Ford, General Dynamics, General Motors, Hitachi, Lockheed Martin, Nissan, Pratt & Whitney and many other top global companies use UGS'® software in their product innovation efforts.

The partnership with UGS will give our students the valuable hands-on experience they need to become leaders in today's industry," said UC President Nancy L. Zimpher. "This generous grant will place our students at the College of Engineering truly on the cutting edge with the latest technology."

GO PLM Program and Commitment to Cincinnati Area

The grant is being made through UGS' Global Opportunities in Product Lifecycle Management (GO

PLM™) initiative, which leads the PLM industry in the commercial value of in-kind grants it provides at more than \$2 billion annually. UGS' GO PLM initiative brings together five complementary community involvement programs focused on academic partnership; regional productivity; youth and displaced worker development; and the Partners for the Advancement of Collaborative Engineering Education (PACE) program.



"We are committed to helping leading academic institutions such as the University of Cincinnati expand career development opportunities for students and cultivate a talented base of candidates to increase the competitiveness of Cincinnati- and Ohio-focused, national and global manufacturers," said Dave Shirk, executive vice president, Global Marketing for UGS, which employs a workforce of

approximately 700 in the Cincinnati area at its offices in Milford. "Through this and other similar grants, UGS is empowering knowledge for 21st Century engineers to tie into global innovation networks that the world's leading manufacturers are leveraging to build the most innovative products."

UGS' NX™ 4 software was recently voted 2005 Product of the Year by the readers of NASA Tech Briefs. NX 4, UGS' flagship digital product development software, received more votes than any other nominated product from the engineers, product designers and manufacturing professionals that help make NASA Tech Briefs the largest-circulation, BPA-audited engineering magazine in the U.S.

"This in-kind software grant will enable our students to work with the most sophisticated professional level software," said Roy Eckart, interim dean of the College of Engineering. "Our graduates will become more valuable to industry and their analytical capability will be head and shoulders above the engineering graduates of other colleges."



Proost Tony Perzigian and Dean Roy Eckart

UGS Sponsors First ... cont from page 2

and engineering software and hardware to design a new family of low cost, fuel efficient vehicles.

Truly, we are educating tomorrow's global engineering leaders today!" Teamcenter simplifies the learning curve of a PLM system for our students by offering a familiar Windows desktop environment," said Dr. C. Greg Jensen, associate professor, Department of Mechanical Engineering, Brigham Young University. "We have organized collaboration among the 14 universities around the functional areas of the vehicle design. Teamcenter provides a collaborative work environment where we can share component designs and discuss work-in-process in real-time via the internet, without incurring the costly expense of international telephone and travel costs. Without the Teamcenter PLM technology, a project of this scope would be cost-prohibitive in the academic sector."

"UGS is a proud sponsor of the PACE 2006 Vehicle Collaboration Project," said Ed Arlin, executive vice president, Global GM and Daimler Chrysler Accounts for UGS. "Together with our partners EDS, GM and Sun Microsystems, we are advancing the education of promising young engineers around the world, transforming the process of innovation in academia, as well as the corporate sector."



PACE Partners Pictured with Dr. Martin, Dean Castillo of NMSU and UTEP President and PACE members

New Mexico State University Receives \$112.7M PACE Grant

Las Cruces, NM – The largest in-kind contribution ever received by New Mexico State University – computer software systems, equipment and training with an in-kind commercial value of \$112.7 million by Partners for the Advancement of Collaborative Engineering Education (PACE).

PACE is a joint philanthropic initiative of General Motors, EDS, Sun Microsystems and UGS Corp. that has worked together since 1999 to support key academic institutions worldwide with computer-based engineering tools to prepare mechanical designers, engineers, and analysts with the skills to compete in the future. The PACE in-kind contribution will enhance NMSU's engineering programs and help prepare students for careers in vehicle design, engineering and manufacturing, as well as other fields.

"Our students will be using the same computer-aided design and engineering systems used by General Motors and other leading industries, and our graduates will be prepared to hit the ground running," said NMSU Dean of Engineering Steven Castillo. "This will be a tremendous advantage to our students and to the companies that need a highly skilled and trained work force."

"We are proud to be a part of this elite group of institutions and we are excited about the opportunities that this generous in-kind contribution will create for our faculty and students," said NMSU President Michael Martin. "This collaboration combines the university's

strengths in engineering education with the resources and know-how of some of world's leading technology companies."

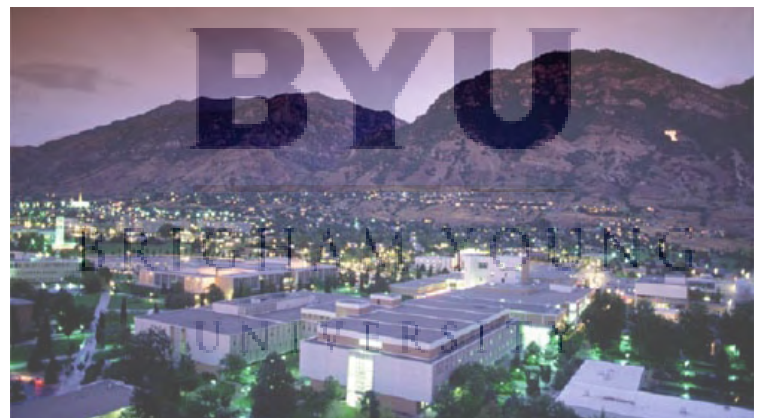
"UGS Corp. is pleased to be involved with such a superior university," said Donald Cooper, director of sales for UGS' South Central Region. "NMSU students will be able to use the same software that is used by some of the finest manufacturers in the world."

For more information: http://www.pacepartners.org/press_nmsu.html.

New Mexico State University

2006 **PACE** Annual Forum
Collaboration in Action
July 24 - 29, 2006
Brigham Young University, Provo, UT

What will you see ;
Informational presentations / demonstrations from
faculty on their **PACE** activities and projects
Software training
Networking with other **PACE** Institution Faculty
Cultural activities



PACE Partnership is Established with Korea University

Seoul, South Korea - Korea University received computer-based hardware in addition to engineering software such as NX, Teamcenter, MSC.Nastran and Altair HyperWorks, which are used by automakers around the globe for product planning, engineering and data management. The university also will receive technical and educational materials as well as automotive parts for student and instructor training, and academic support. The contributions are valued at approximately US\$186 million. As part of its effort to promote the development of automotive



engineering and foster automotive industry talent in Korea, GM Daewoo will participate in the setting up of a product lifecycle management (PLM) education program with Korea University and PACE. PLM provides an organic connection between the development, production and aftersales service stages of a product. It is being widely adopted by the automotive industry around the world. Korea University will leverage the contributions from PACE for its engineering curriculum and will provide students practical learning in engineering software used by automakers around the globe, as well as a combination of theory and application through the PACE competition.

"The opening of the PACE Center at Korea University is an extension of our commitment to Korea's automotive industry and the development of the next generation of industry professionals," said Nick Reilly, President and CEO of GM Daewoo. "By working with one of Korea's leading academic institutions, we will provide students practical experience today that will prepare them to meet the needs of industry tomorrow."

"The labor shortage currently facing Korean industry can be overcome through active industry-academic collaboration such as PACE, an international program organized by some of the world's leading companies," said Korean Minister of Commerce, Industry and Energy Sye Kyun Chung. "I expect Korea University and the PACE partners including GM Daewoo to contribute further to industrial development and the enhancement of competitiveness in Korea by strengthening their partnership and mutual cooperation."

"The PACE program represents a new model for global partnership between the academic community and industry. Through PACE, global companies provide universities state-of-the-art software as well as practical learning, which the universities leverage in their educational and research activities in order to foster industry talent," said Korea University President Yoon Dae Euh. "The global network created by this program will help increase the standard of engineering education in Korea and broaden the global reach of Korea's universities."

"PACE offers a unique combination of hardware and software to facilitate the learning of computer-aided design and engineering concepts," said Ed Shinouskis, Process Executive for EDS GM Global Product Development. "Students gain valuable experience applying these concepts as they work on industry projects. Korea University graduates will be highly skilled, knowledgeable and ready to work in an exciting field."

"The technology and systems provided by Sun Microsystems through PACE will strengthen the competitiveness of Korea University students as global talent who can lead Korea's future industry," said Won Sik Yoo, President and Representative Director of Sun Microsystems Korea. "Sun Microsystems will continue to contribute to the development of human resources and the cultivation of individuals for a variety of industries, including the automotive industry in Korea."

"Cooperation between companies and academic institutions is very important in the current environment in which an innovative global network represents corporate competitiveness," said Kyung Ryul Kwon, Vice President of Operations for UGS Korea. "As UGS manages 40 percent of the three-dimensional data around the world and participates as a partner in global innovative strategies, our contribution to PACE is very significant for us. We will continue to help institutions build cooperative systems by providing UGS's PLM Solution, which is the global industry leader."



Diversity-At-Work Success Stories

MAY 31, 2006

VOLUME 1, NUMBER 1

***"At UGS, diversity
is about our
people's ability to
build and sustain
personal
relationships with
others so that
collectively we
perform to our
greatest ability."***

Shanghai PPDC (PLM Product Development Center)

As our customer base becomes more globally diverse, our product development and support capabilities must also expand to meet the international market needs and demands. We saw an increasing need for PLM Product support in our Asia Pacific market.

Beginning in 1999, we started partnerships with five universities in China, making training on NX available to engineering students. Chijen Hsu, manager of the NX Knowledge Driven Automation group, and others worked tirelessly with the students, providing hands-on training on our products and the entire SDLC development process.



"I was very excited about this new opportunity," Hsu said, "to lay the groundwork for effectively leveraging our Academic Partnership Program (APP) in China. Through this mutually beneficial environment we were able to build a basis of mutual trust, which reinforced UGS' long-term commitment to these partnerships."

By Q4 of 2003 we had 25 contract developers working on UG/Open development projects at those five universities. This group of trained

developers became the core group for the Shanghai PPDC development group. UGS formally established the Shanghai PPDC facility in Q1 of 2004. Our Shanghai PPDC development center now has over 95 employees on board. With this well-trained staff, Shanghai PPDC will be taking more than 300 man-months of work load in supporting Nissan custom development in 2006-2007.



The successful start-up of the Shanghai PPDC facility has allowed UGS to increase our development productivity and sales support, as well as providing savings in development costs for the company. This venture demonstrates a Diversity-At-Work success story for UGS Products and our commitment to providing the best products and support to our customers around the world.

About this Publication

Diversity-at-Work Success Stories is an internal publication that highlights diversity-related programs, events, and activities within UGS. If you have questions or comments about this newsletter, please contact **Dixie Hyland**.



UGS Community Relations

Leadership Awards ...

PACE Honors Edward H. Arlin

Detroit, MI - PACE members honored Mr. Edward Arlin, Executive Vice President, Global GM Account UGS with the PACE Global Recognition Award. For his outstanding leadership and personal commitment to the global growth and success of PACE. This is viewed as very valuable to the current and future students, faculty, and industrial partners that are part of the PACE Program.



UGS Cosponsors the Huntsville India Association Jubilee

Huntsville, AL - Huntsville India Association is a 25 year old non profit, non partisan, non sectarian, and secular organization, which represents the Asian Indian community in North Alabama. One of the most important objectives of the organization is to educate Huntsville and North Alabama communities about India, which is the world's biggest democracy. The organization undertakes charitable, educational, scientific, and cultural programs.

This 25th Celebration year was co-sponsored with a UGS Community Relations grant. **Learn More about HIA:**

<http://www.hiaweb.org/default.asp>



HIA During Dedication Ceremony

GO PLM Honors Grace Lieblein

Detroit, MI - Grace Lieblein, vehicle chief engineer at General Motors, was honored as the Latino Executive of the Year by On Wheels Inc. during the 10 th annual Urban Wheel Awards. The Urban Wheel Award honors diversity and excellence in the automotive industry, which provide scholarships, internships and mentoring opportunities for students pursuing a career in an automotive-related profession. Lieblein is the highest-ranking Latina at GM and the company's first Latina vehicle chief engineer.



"This is very male-dominated industry, so with each new assignment there is always a period of adjustment. As a woman, you do have to build credibility. Once that's done, gender and ethnicity are overlooked and you're seen simply as a leader," said Lieblein.

Portfolio Gallery & Educational Center Receives \$225 Thousand Software Grant from UGS

St. Louis, MO - UGS Corp. announced an in-kind software grant with a commercial value of \$225 thousand to enhance educational / engineering programs at Portfolio Gallery & Educational Center. The in-kind software grant from UGS is the largest Portfolio, Inc has ever received.

The grant includes UGS' Solid Edge® product suite to help middle and high school students conceive, design, engineer and validate projects using the same tools that today's leading global manufacturers employ. UGS also provided 17 computers.

Portfolio Gallery & Educational Center was founded in 1989 and impacts on the lives of 5000 children, youth, adults and the physically and mentally challenge yearly. "This generous grant and partnership with US creates an opportunity that will allow our students at Portfolio Gallery and Educational Center to create and work toward the goal of improving critical thinking and communication skills, with the latest cutting edge technology." Says Robert A. Powell, Founder & Executive Director of Portfolio.

"We are committed to helping institutions such as Portfolio Gallery & Educational Center expand career development opportunities for students and cultivate a talented base of candidates to increase the competitiveness of St. Louis- and Missouri-focused, national and global manufacturers," said Dave Shirk, executive vice president, Global Marketing for UGS.

Learn More About Portfolio: <http://www.portfolio-stl.com/home.htm>

Many Thanks to UGS ... Community Relations

Northwestern University: The EXCEL Program



Evanston, IL.- EXCEL, a five-week summer bridge program for first-year students, has proven very effective in improving the retention and graduation rates of underrepresented engineering students. Students who continue in the program form a close social network and assume many of the leadership roles within the various student associations in the engineering school. Geoff Halliday, UGS Director of Midwest Sales, came bearing a check when he visited the McCormick School of Engineering on April 28. Pictured from left to right: Thomas Rochow, Assistant Director, Institute for Design Engineering and Applications; Kate Igoe, Director, Corporate Relations; Ellen Worsdall, Assistant Dean, McCormick School of Engineering; Lourdes Solis, McCormick '06, EXCEL Alumna; Geoff Halliday, UGS Director Midwest Sales.

Principia College: The Solar Car Team

Elsah, IL -Principia College is a small liberal arts college of approximately 550 students. It is located on the bluffs of the Mississippi River in Elsah, Illinois, USA, and is unique as the only college or university in the world solely for Christian Scientists. Students on Principia's Solar Car Team come from every field of study - including nearly every major in both the liberal arts and the sciences. While Principia does not have a self-contained engineering department, it offers an engineering degree through joint programs with other universities.



Florissant - Ferguson Community Outreach Program: Computer Grant



St. Louis, MO - After serving 14 months in Iraq, Sgt. Walter T. Smith II came back home willing to continue his need to help other, by joining the Florissant - Ferguson Neighbor Watch, designed to help educate local kids in the neighborhood, computer skills.

"Thank you GO PLM for your thoughtful in-kind grant, the Mac G4 will be very useful to us as we work with our neighborhood children in teaching them the computer skills need to succeed in the 21st century." Said Walter Smith of the 1151st Transportation Company.

Mr. Don Happe, VP Americas Sales UGS presents Apple G4 to Master Sergeant Smith



2006 PLM World Design Competition Winners ...

Long Beach, CA - GO PLM Partners finished 1st, (Rose-Hulman Inst. of Technology) 2nd (Southern Illinois University - Edwardsville) in the 2006 PLM World Student Design Competition. In addition to PLM World / UGS Plaque award the Teams received cash awards of \$1,500 for 1st Place and \$1,000 for 2nd Place.

Right - John Manderfield (PLM World Chairman) John Hiedorn (UGS Corp.) & Dr. Zang w/ 1st Place Rose-Hulman team -

Below - Tavia Carsion (UGS- GO PLM) w/ Dr. Lee of 2nd place SIUE -



ROSE-HULMAN INSTITUTE OF TECHNOLOGY

Team members of the Rose-Hulman Institute of Technology gave an amazing presentation on their design using NX and Solid Edge.

The student competition was drawn from real or hypothetical case studies, promoting effective and efficient CAD/CAM/CAE product life cycle management usage.

Teams were judged on:

- * Innovative Design and Analysis
- * Integration of Multiple Disciplines
- * Support for PLM Applications
- * Report Writing Quality

"Our NX and SE software have provided the students with valuable tools to succeed in this year's PLM World Design Competition," said Jon Heidorn, VP-Marketing, America's Zone. "We look forward to being a part of this competition every year."



SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE

UGS Corp - Bring Our Daughters and Sons to Work Day



Next Generation Engineers
hard at work



UGS sons and daughters were treated to a day of games, movies, prizes, pictures and hard work during the 2006 "Bring Our Daughters & Sons to Work" Day

Handwritten notes and signatures, including names like David Behon, Logan Verdes, John, Tina Tang, Lindsey, Heather, Renolds, Aaron, Taylor, Crist, Shagun Bhargava, and others. The notes mention a 'Thank You' message and a list of names.

Student ~ Faculty Resource Center

UGS' Commitment to Design Competitions

UGS and Society of Automotive Engineers (SAE) Team Up To Deliver Automotive Certification Program

Plano, TX – UGS Corp., announced an agreement with the Society of Automotive Engineers (SAE) to provide PLM-related training and testing components for the SAE Automotive Certification. The certification program will provide automotive OEM's and suppliers a tangible method to first provide, and then validate user's knowledge, skills and proficiency at utilizing PLM technologies in context of specific automotive processes. The SAE Automotive Certification Program, in addition to validating the abilities of design engineers through skill and knowledge based tests in automotive best practices, automotive theory and industry application, will also test for proficiency in the use of NX™ software, UGS' digital product development system.



"UGS is pleased to be a part of this important program with SAE. SAE is recognized as a leading professional organization that provides great value to UGS customers in the Automotive Industry," said Eric Sterling, vice

president of automotive marketing for UGS.

"We are extremely pleased that UGS is partnering with SAE and CAD Potential on this program," said Kevin Perry, manager, professional development, SAE. "Given their existing expertise in training and certification along with their extensive reach across the industry, automotive designers will quickly realize the value of having UGS."

UGS Signs Worldwide Partnership Agreement with F1 in Schools - A Commitment to Future Engineers

Camberley, UK – UGS Corp. has demonstrated its commitment to developing the next generation of engineers by signing a worldwide partnership agreement with F1 in Schools.

Children aged between 11-18 years design a model car using computer-aided design software and then compete in a series of regional / national finals culminating in an Annual World Championship.



UGS' global commitment provides F1 in Schools with financial support via the UGS Community Relations Program and an unlimited PLM software grant for participating academic institutions. Students in participating countries (including: England, Wales, Scotland, Northern Ireland, Qatar, Brunei, China, Germany, Portugal, South Africa, UAE, Kuwait, Malaysia, Singapore, South Korea, Australia, Thailand, Kuwait and Canada) will have access to UGS' cutting edge design software Solid Edge.

"We value future generations and are committed to quality engineering," said Henry Seddan, VP EMEA Marketing, UGS. He added: "The CAD/CAM challenge allows us to experience first hand the enthusiasm and high standard of work produced by

the Challenge, while giving students an insight into a possible future career."

"F1 in Schools is delighted to continue its association with UGS," said Andrew Denford, Founder & Chairman, F1 in Schools Ltd. "The key to our success is that just about any school in the world can now take part in this Global Challenge due to the availability of in-kind grants for advanced design software from UGS."



Instructor Feedback ... Thanks to UGS



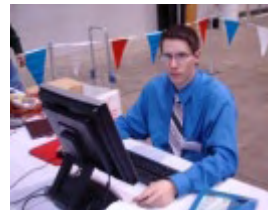
Dear UGS Corp. - GO PLM,

Thank you, for the prizes and giveaways. The students enjoyed them very much. See the photo of my student David Holliday who competed at the state competition in Columbus, OH. David, a senior, won a Gold medal at our local competition then went on to win a silver medal at the Regional competition held at Stark State College. He used Solid Edge v18 for both contests.

Best regards,

Jeff Bee

Maplewood Career Center



FIRST Robotics Team 469 - Academic Partner Wins First Place



Detroit, MI -

The FIRST Robotics Competition is an exciting, multi-national competition that teams professionals and young people to solve an engineering design problem in an intense and competitive way.

The program is a life-changing, career-molding experience—and a lot of fun. In 2006, the competition will reach over 28,000 high-school-aged young people on over 1,125 teams in 33 regional events. Our teams came from Brazil, Canada, Ecuador, Israel, Mexico, the U.K., and almost every U.S. state.



Tim Egloff - UGS w/ Gail Alpert of the winning team 469

Academic Courseware & Textbooks



Parametric Modeling with I-DEAS 11
Parametric Modeling with I-DEAS 12

Author: Randy Shih

To purchase: <http://www.schroff.com/>

NX3 for Designers
Solid Edge v18 for Designers

Author: Sham Tickoo

To Purchase: <http://www.cadcim.com>



Engineering Design Communication and Modeling
Using Unigraphics NX

Author: Gang Qi

To Purchase: <http://www.amazon.com>

Advanced Unigrpahics NX2 Modeling and Assemblies

Authors: Stephen Samuel, Mark Kelley, Paul Rymarz and Anuranjini Pra

Basic and Intermediate NX4 Modeling, Drafting and Assemblies

Authors: Stephen Samuel, Anuranjini Pragada and Gautam Baksi

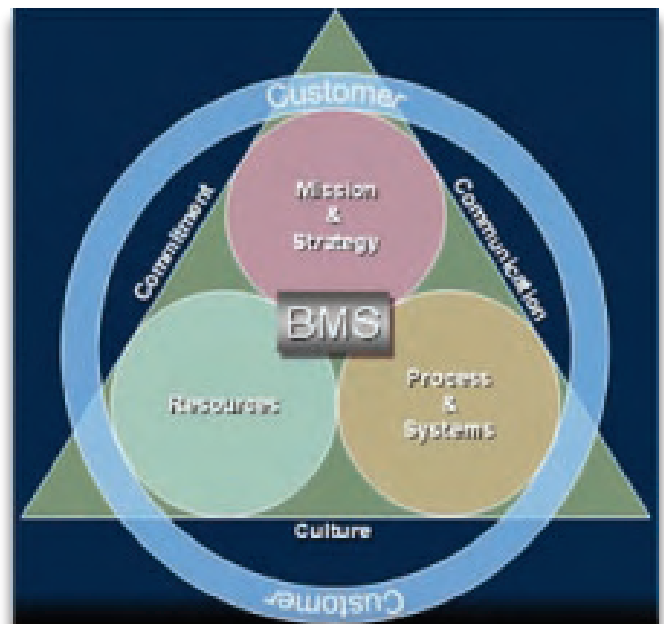
To purchase: <http://www.designviz.com/>



UGS' Commitment to Quality

UGS believes that our customers define quality - they do this every day with the products and services they purchase. Customers buy products and services based on perceived value - that is, they measure the benefits against the costs and select the product and experience that provides superior value. We, therefore, define quality as customer perceived value. Our goal is to "meet or beat" that perceived value in EVERY interaction. UGS views quality as part of business, not an initiative "du jour". As such, we focus on sound management of the business. The customer is the all encompassing principle of this management system.

Similarly, our corporate mission and vision both purposely center their focus on creating value for our customers. The role of the Business Support / Quality organization in UGS is to focus our resources to deliver that value. We seek to leverage our organizational commitment to quality to better our business. In doing so, we want to assure that we continually improve our products, services, and processes, thus increasing our value proposition. We are focusing our resources to continually improve and - ultimately in doing so - bringing greater value to our customers.



SIGNS OF INNOVATION:

**Adding value through industry,
academic, government and
community leadership**

Global opportunities in Product Lifecycle Management (GO PLM)

The UGS GO PLM™ Program was developed to address the essential business issues our customers face, including the shrinking supply of skilled employees as well as the gap between current worker skills and the level of performance required in today's global manufacturing market. The GO PLM initiative covers five key education and community development programs: Academic Partnership, Youth Development, Regional Productivity, Community Relations and PACE (Partners for the Advancement of Collaborative Engineering Education). UGS views this effort as so important that we committed software and services with a commercial value of more than \$2B in 2005.

Developing a workforce experienced in both innovative thinking and efficient production practices is critical. Moreover, training in PLM technologies and processes can deliver the results that concern manufacturers most today. UGS is proud of its industry leadership in this area. Today we serve more than 8,400 GO PLM Partners worldwide that collectively train 860,000 students on UGS PLM software each year. GO PLM is a sure sign an organization is on the road to innovation. We encourage you to explore the ways GO PLM might benefit you.

Learn more today.

Visit <http://www.ugs.com/partners/goplmm>

Editorial Staff

Editor - in - Chief - Tavia Carson

GO PLM PR

Bijy Vattathara: Academics

Jan Brown: Americas

Alan Keegan: EMEA

Rieko Asanuma: Asia-Pacific

