The Arch Way

The Newsletter for Friends of Archway Systems

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Upcoming Events:

July 21 MicroStation User Meeting Rio HCC

July 23 MicroStation User Meeting Archway

August 14-15 Nor Cal Bentley Bash Sacramento &UC Berkeley

Bentley's New Energy Performance Group

Bentley Systems has recently acquired Hevacomp and TAS for building energy performance and has started a group headed by VP, Noah Eckhouse, along with Pete Liotino, National Sales Director and Bob DeFeo, Senior Applications Engineer. Seminars have been conducted throughout Southern California and more are planned. In addition, eSeminars are available. Just go here: www.bentley.com/eps

Sustainability of our environment is high priority and nearly half of the energy consumed and CO_2 produced comes from both construction and operation of buildings. The UK, most of Europe and other parts of the world have had a high priority on sustainability for 20 or 30 years, so most all good application software for analysis and optimization of building energy consumption has come from the UK. Hevacomp owns 70% of the UK market for mechanical design of buildings. Both Hevacomp and TAS offer popular building operation simulation programs. Additionally, Hevacomp is based on the U.S. DOE Energy Plus engine which is required by government buildings.

MicroStation User Group Meeting

Please be sure to attend the next LA/Orange County MicroStation User Group Meeting. Come hear V8i tricks and tips, guidelines for 3D printing, and discuss suggestions and plans for 2009 with colleagues while enjoying snacks and drinks. All complimentary. RSVP your reservation to Linda@archwaysystems.com Hope to see you there!

July 21	at Rio Hondo CC	6:00-8:00 pm
July 23	at Archway	6:00-8:00 pm

Solid Edge Wire Harness Design

Solid Edge Wire Harness Design software from Siemens is design software which allows the designer to add in and create wire harnesses within an electrical design. This eliminates costly physical models. This software alerts you when there are design violations through built-in design error checkers, providing live feedback. This eliminates having to go back and start over when one wire or cable is in violation.

According to the Siemens website, Solid Edge Wire Harness Design is a "dedicated process-driven environment for the efficient creation, routing and organization of wires, cables and bundles in a Solid Edge assembly." This software, which works as an add-on application for Solid Edge, is easy to use for complex designs and allows digital mockups to be created including important manufacturing information. It imports ready-to-use net-list files from popular eCAD systems and automatically generates and routes wires and cables. When the design is finished it provides complete digital mockups including the manufacturing output. Solid Edge Wire Harness works great for those with electrical designs and helps ease the hassle of putting wire harnesses together into the design.

Savanna3D Introduced!

McNeel Miami has come out with a new product to add to its Rhino line. Savanna3D is a collection a detailed 3D models in 3DM format. These models are grouped by type or function and can be used within Rhino. This software will improve your productivity because of the various collections of commonly used objects being readily available to you. When you don't have to spend the time to create each individual object which you use in most of your designs, you can save time by working on the important, intricate details of the design. These collections bring together an extensive and complete library of Rhino blocks prepared for architectural and interior design purposes.

Who's Who at Archway Systems

Tom Lazear	Administration, sales and training
George McMeans	Sales and training in Nor. Cal.
Mike Lazear	Programming and support
Phill Frye	Training & consulting
Rick Plummer	Consulting and sales
Greg Hamano	Training & Support
Sandy Lazear	Accounting
Josh Lazear	Webmaster , Z Support and programming
Linda Grubb	Support and administration
Daniel Lazear	Programming
Chris Grubb	Civil Engineering software
Lauren Jansen	Marketing & Sales Intern
Shannon Lazear	Marketing

REPORT

Bridge Design

Bridge Design Failure

With the rise of bridge failure in the United States due to faulty design or construction, the need for accurate and reliable bridge design software is growing every day.

Faulty design and construction accounts for about 30% of the principal causes of bridge failures in the past twenty years. Of all the natural disasters which occur to cause bridge failure, design and construction should not be among those of principal causes. To reduce this percentage, many companies are developing new software which is more precise and specifically for bridge design. Bentley has recently acquired the leading software in this industry.

Bentley's Part in Bridge Design

Bentley is becoming one of the leading companies when it comes to bridge design software. They have just acquired new software, LEAP Bridge V8i, which is the leading bridge design software on the market.

They now add this LEAP Bridge software to their already impressive line of design software including MicroStation, PowerDraft and STAAD.Pro. LEAP Bridge, however, will be the first in the line to be specifically focused for bridge design for the United States.

Bentley's Involvement with the Next Generation of Engineers

Bentley has also been participating in interesting students in engineering as a career through active participation in bridge design contests.

Bentley has made its software, PowerDraft, available for multiple bridge design contests including the American Association of State Highway and Transportation Officials' (AASHTO) bridge design contest for 7th-12th grade students and the National Student Steel Bridge Contest (NSSBC) for college civil engineering students.

- **AASHTO Bridge Design Contest**

In the AASHTO bridge design contest, students were required to do all CAD drawings in Bentley PowerDraft. This contest was held for 7th-12th grade students designing different types of bridges including drawbridges and suspension bridges. Bentley received wide recognition with every presenter mentioning and thanking Bentley for their free use of the PowerDraft software.

- **National Student Steel Bridge Contest**

As a part of the NSSBC, MicroStation and STAAD.Pro V8i software was distributed free of charge to contestants for their use in building steel bridges. The American Institute of Steel Construction (AISC) and the American Society of Civil Engineers (ASCE) co-sponsored the NSSBC. Bentley was also a national sponsor of the event and provided financially as well as the free software. Just about 200 universities took part in this contest, with 47 bridges qualifying for the national level.

Bentley wants to create an eagerness in today's young people, a desire to make a better lifestyle for future generations. By providing students and professionals alike with the tools they need to succeed, the leading engineers of tomorrow can create a better world today. This world and its bridges will be looking at a safer way to live and travel for generations to come. Bentley encourages students to succeed in this dream by taking part in design contests and always providing the latest and greatest design software available.

Training Class Schedule

Archway offers a variety of training classes using the latest of each software. All classes use certified materials and are held from 8:30AM to 5PM. Locations: Huntington Beach training center (**HB**) and S.F. Bay area (**BA**). Plus, some open enrollment classes are now taught at the training centers at LADWP and at the Port of Long Beach. Classes can be delivered on-site and online.
Call or email Archway for the latest class schedule.
For the latest Bentley courses, see also:
http://www.bentley.com/en-us/training/

Upcoming open enrollment classes:

- **MicroStation Essentials XM**-All the basics of MicroStation V8 XM Edition. This 4-day class is basic for new users. Cost is $1400, HB: 7/28 to 7/31 & 9/15 to 9/18
- **MicroStation for CAD Users V8 XM -** For experienced CAD users wanting to make the easy transition to MicroStation V8 XM Edition. Cost $1250, HB: 7/8 to 7/10 & 8/26 to 8/28; BA: 7/14 to 7/16, 7/28 to 7/30 & 8/25 to 8/27
- **MicroStation for CAD Users V8i** - For experienced CAD users wanting to make the easy transition to MicroStation V8i. Cost $1250 HB: 8/5 to 8/7 & 9/2 to 9/4
- **VersaCAD 2008 for Windows** - All the basics of VersaCAD 2008 for Windows. This 3-day class is basic for new users. Cost is $495, HB: TBD.
- **MicroStation User Update V8 XM to V8i** - Covers many of the new features of the latest version of MicroStation. For V8 XM Edition Users wanting to learn V8i. Cost $1025, HB: 7/14 to 7/15, 8/20 to 8/21 & 9/9 to 9/10
- **MicroStation User Update V8 2004 to XM**– Covers many of the new features of V8 XM. For V8 2004 Users wanting to learn V8 XM. Cost $1350, HB: 7/14 to 7/15
- **Rhino Level I**-Learn to make 3D NURBs models. Cost is $695 (Discounts available for educators). HB: TBD
- **MicroStation Everything 3D**-Learn how to design in 3D using MicroStation's surface and solid modeling capability. Cost is $1350. HB: 8/12 to 8/14
- **MicroStation V8 XM Advanced User**– Intended for experienced MicroStation users wanting to improve their skills of designing in MicroStation. Cost $1250 HB: 7/22 to 7/24
- **Bentley MAP Fundamentals V8i**-Covers the fundamentals of setting up a map database, mapping tools and more. Cost is $1,100. HB: 7/16 to 7/17
- **Solid Edge ST**- Fundamentals. Cost is $1600. HB: TBD.
- **Getting Started VBA** - Introduces VBA with an emphasis on using unique features in MicroStation's VBA. Cost $800 Online: 7/14 to 7/15
- **MS VBA Professional**- Intended for MicroStation users who are VBA programmers wanting more help using VBA

VersaCAD Latest Update Coming

VersaCAD is coming out with its latest update soon. The main update for both the Windows and Mac version is the updated translators.

For the Windows version there are some other updates including the ability to run multiple copies, faster process of macros, and correction of bugs. Through this new update you will now be able to run multiple copies of VersaCAD at the same time. This is great for comparing two versions or the same drawing or looking at a project overview while working on a detail. Also we have sped up the process of macros running. They now run much faster, which more than quadruples the speed of applications as well as the software itself. The best part of the new update for Windows is the correction of a myriad of bugs by switching to a new database. Because this is such a huge task, it has taken us a while to get this going. This changes the way files are stored and permeates throughout the entire software. Thank you for your patience with the software. Now that we are running a new database, some great additions can be made in later updates.

As for the Mac version of VersaCAD, the translator is the biggest part of the update for now. Also there are some corrections in the program, but we are working out the bugs to get this update out the door as well. Again, we appreciate your patience in this process as it is a difficult one, especially on a Mac, when the platform is ever changing.

BE Careers Network

Did you know?

The BE Careers Network has a presence on the BE Communities website! [http://communities.bentley.com/be/BECareers.aspx]

This allows students, educators and industry professionals to learn more about how to use the Bentley LEARN server, read up on recent articles, find technical support, visit the online bookstore and much more. It also gives the latest news and blogs on the happenings of the BE Careers Network schools and professionals. It is an informational site for the academic community which is easily accessed through the BE Communities site. This lobby site is a good professional social networking site for the industry. It allows students to upload their resumes and educators to help their students through this process. The industry professionals are then able to see and review the resumes of the students. This is a good system because of the benefits to the students looking for jobs in this competitive industry, while it also is good for the professionals to be able to review many resumes at once. Those schools which are connected through the BE Careers Academic SELECT subscription can access the innermost parts of this lobby. It is designed to keep the faculty and students from these schools updated and informed about the new opportunities available to them through their SELECT subscription, such as a new blended learning class on MicroStation V8i. This class is offered through Bentley LEARN to help update users on how the latest version of MicroStation works in order to simplify the design process.

Archway's Product Line

Archway is a full service provider of technical software serving the Academic, Architectural, Civil and Mechanical Engineering markets.

DESIGN & ENGINEERING SOFTWARE:

- MicroStation, ProjectWise and applications
- VersaCAD Win & Mac
- Bentley Architecture & Generative Components
- InRoads, PowerCivil & Geopak Civil Software
- Haestad Hydraulic Analysis Software
- Hevacomp & Tas Software
- Solid Edge and applications
- TransMagic-translation software
- Magics X STL editing software

3D GRAPHICS & ANIMATION SOFTWARE:

- Rhino 3D, Flamingo, Penguin & Bongo
- Softimage
- Bentley ProjectWise Navigator
- ArchVision libraries

COMPUTER PERIPHERALS:

•Z Corp 3D Printers

SERVICES:

- Training
- Phone support
- On-site support
- 3D Printing
- Customizing
- Consulting
- Contract software development
- CAD file translation

Archway Training Center

Checkout the training classes on page 3. Classes for every need for MicroStation, Haestad, InRoads, STAAD.Pro, RAM, Rhino, Solid Edge and VersaCAD. Increase your design productivity.

MyCADvideos.com

Checkout this site for free introductory videos and one hour webinars on the latest in CAD, FEM, and more.

ZPrinters

Archway is offering $5000 discount on new or used, Z Corporation, 3D printers until 7/15. 3D printing can help win contracts and shorten schedules by better communication. Many manufacturing, architecture and other firms have benefitted including Canon Design, Morphosis, Carrier Johnson, Lionakis Beaumont and more. 3D printing also enhances the education process as shown at USC, Long Beach State, and more.

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