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ARCHWAY

The Newsletter for Friends of Archway Systems

Volume 16

Sep/Oct 07

Number 4

Upcoming Events:

Sep 12, 13	Mstn Users Meeting	Rio H/Archway
Jan 2-Jan 30	CAD Survey course	OCC
Feb 17-Feb 23	National Engrs Week	Washington DC
Feb 28-Mar 1	EAST Annual Conf	Hot Springs AR
Mar 13-Mar 15	CITEA Annual Conf	Riverside CA
Mar 31-Apr 3	Westec 2008	LA Conv Ctr

USC Sustainable Design Symposium

Over 150 educators and practicing architects attended a two day symposium on Sustainable Design at USC, July 26-27 hosted by Prof Kensek. Workshops on various BIM software plus talks by industry leaders. Bentley BIM workshops were attended by 18 educators and Bentley BIM proved to be the most interoperable with green building software.



Mark Enos Presenting Bentley Architecture at USC

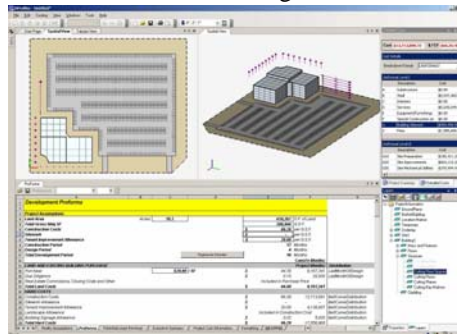
Implementing 3D BIM Seminar

Be sure to attend the MicroStation Users meetings coming up first week of December. Marty Doscher of Morphosis and Reg Prentice of Gensler will share their company's actual experience implementing 3D BIM via Bentley Architecture and Revit, respectively. Many architects have

already been convinced to move to BIM, but, the transition can be scary and difficult. Benefit from the experience of large companies that have done it. No charge, but, space is limited so please RSVP to tom@archwaysystems.com. Watch for announcements: www.la-ocmug.com

Beck Software for Building Cost

You have got to watch a demo to appreciate this great software for building estimation. It reduces estimating time and cost by over 80%, increases accuracy and permits a firm estimate much earlier in a project life cycle. Archway customers include some of the largest contractors in the world.



Contact us for a 50 minute no obligation demonstration.

Generative Components

The MicroStation Generative Components Extension is now available on selectservices.bentley.com for download by any subscriber to Bentley SELECT. It is recommended that a workshop be taken before using this breakthrough software for parametric design of complex projects. www.bentley.com/GenerativeComponents

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Who's who at Archway Systems

Arlene Black	Administration and sales
Leah Spittler	Civil engr software support
Tom Lazear	Admin, sales and training
George McMeans	Sales & training in Nor. Cal.
Mike Lazear	Programming & support
Erik Wordal	Training in Cal coastal
Rick Plummer	Consulting and sales

Josh Lazear	Webmaster & programming
Greg Hamano	Support & training
Sandy Lazear	Accounting
Linda Grubb	Support & administration
Daniel Lazear	Programming
Chris Grubb	Civil engr software support

REPORT

Whats all the fuss about Sustainable Design?

Whether you are a Republican or Democrat. Whether you believe Al Gore's Global Warming Hypothesis or not. One thing is sure: Sustainable Design is a very hot topic.

To an old mechanical engineer, it's kind of funny. We were taught to conserve and optimize the consumption of energy years ago. That might even be considered the central purpose of mechanical engineering. So, we can just say "thank you" to Al Gore for the hysteria he has caused and the red-hot market that has ensued. It is now very fashionable to drive a Prius and unfashionable to drive a Hummer.

So, what is the impact on architecture and building design? Well, good architects are doing what most were doing anyway, and BIM software vendors are all scurrying to link up to as many energy software as possible. The recent USC symposium on the subject was primarily an exposition by each BIM vendor of their status. Some of the vendors have tied their BIM software in tightly with one "Green software", if I can call it that. Other vendors have worked on interoperability with several.

Seems to me that the latter strategy is preferable at this stage of the market. Who can say which green software will be the market leader in a year or more. I believe Bentley has the right approach. Since Bentley is the interoperability leader (more file formats on the Save As/Export/Import), it was very easy for them to link to quite a large number of Green software. In addition, they are doing tighter integrations with a number of software including: Ecotect, Trane's Trace and Green Building Studio, plus more. Here's a list of the other energy software that Bentley is interoperable with: BSim, DeST, Energy Express, EnergyPlus, eQuest, HAP, IDATCE, IES, PowerDomus, Tas, Trnsys, and no doubt more.

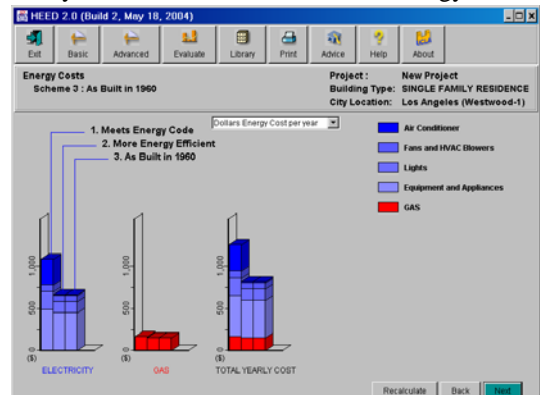
In case you don't know those software, there is a great place to get up to date. The Department of Energy's website lists a total of 300 different software. Some available at no charge and others available as commercial products. There are probably at least 50 of those software that deserve serious consideration. The DOE has an article on their site that analyzes about 20 products. Here is where to go for that:

http://www.eere.energy.gov/buildings/tools_directory/

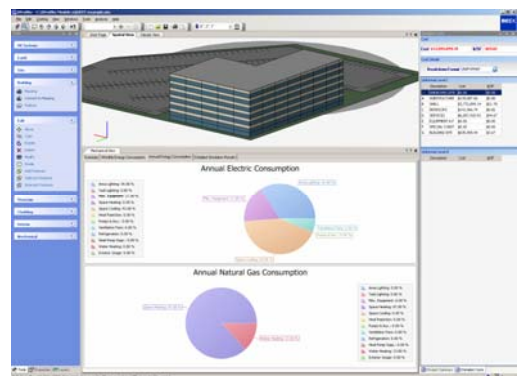
HEED, the software developed by Professor Murray Milne at UCLA, is a must for anyone who is just starting to look at green building software. It is a free download from:

www.aud.ucla.edu/heed You will find it very easy to use and deceptively powerful. It is built on a database of standard weather data, so a building can be modeled at its actual location. The steps are simple: specify number of

stories, square feet and location and you get a couple of energy consumption estimates right off the bat. Then, you actually layout the building, landscape and hardscape in a very simple way. Place windows, position on the lot, specify roof, wall and other materials plus overhang, press the button and you have a new annual energy analysis. You can compare up to nine cases side by side. There are several uses for HEED: For one, every architectural student should be introduced to green building design through HEED. The software doesn't get in the way of understanding concepts and it is available for the student's own personal computer. Second, anyone needing a Title 24 analysis should use it. Third, developers considering a new project should use HEED way up-front in the project to determine the key design variables which will lead to an energy efficient design. Lastly, every homeowner should use it and find what they can do to decrease their own energy costs.



For owners, developers, general contractors, and architects at design-build firms, DProfiler from Beck Technologies is the answer. This great software calculates the annual energy consumption right along with a detailed RS Means capital cost estimate. See article on page 4.



We are glad to be a part of Sustainable Design.

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 8:30 am to 5 pm. Locations: Huntington Beach training center (**HB**) and S.F. Bay area (**BA**). Classes can be delivered on-site and online. For latest Bentley courses, see also: <http://www.bentley.com/en-us/training/>

Upcoming open enrollment classes:

MicroStation V8 XM Edition User Update – 2 day covers latest new features from V8 thru XM. Course includes a book and instruction. Cost is \$800. HB: Sep 6-7, Oct 15-16, Nov 5-6, Dec 6-7

MicroStation V8 XM Edition Admin Update - 2day class covers V8 XM install, configure, customize etc. \$1000 includes workbook and instruction HB: TBA.

InRoads 101- This is a Bentley certified, 3-day class using Bentley's InRoads 8.9 training manual. Cost is \$1350 including course book and instruction. HB: Sep 19-21, Oct 30-Nov 1

STAAD.Pro Standard-Introduction to FEM. \$1500. HB Sep 17-18

Everything 3D Learn how to design in 3D using MicroStation's surface and solid modeling capability. \$1350 HB. Oct 23-25

Moving to MicroStation- Covers the basics of MicroStation 2D for persons who know another CAD. This is a good first class in Bentley's certified course series. Cost is \$1050 HB: Sep 18-20; Nov 7-9; Dec 18-20

Essential MicroStation-. Even deeper than Moving to MicroStation, this four day class is basic for new users. Cost is \$1400 HB: Sep 11-14; Oct 2-5; Oct 30-Nov 2; Nov 13-16; Nov 27-30

Productive MicroStation-. Natural follow-on to Essentials. \$1200. HB Oct 10-12

Rendering and Animation with MicroStation Learn how render and animate your 3D MicroStation models from the Bentley expert. \$3000 HB. Sep 25-28

Rhino Level I Learn to make 3D NURBs models. \$695 HB. Nov 19-21

ProjectWise StartPoint Quickstart. A 2 day course in how to install, configure and use StartPoint in combination with Microsoft SharePoint. HB: \$1000. TBA

Sanitary Sewer Design With SewerCAD Learn how to design sewer systems and analyze. Two-day class, \$1495 HB. Oct 8-9

Sanitary Sewer Design With SewerGEMS Learn how to design sewer systems and analyze.. 3-day class, \$1995 HB. Oct 10-12

RAM Power User- \$1500. HB Dec 13-14

Solid Edge Basics - The goal of this 2 day course making the student ready for productive work with an introduction to Part, Assembly, and Draft of Solid Edge. At \$800 this is a very cost-effective and quick way to get started in Solid Edge. HB: Sep 10-11

VersaCAD 2006 Windows update- Covers all the changes in VersaCAD 2003 thru 2006. One-day class includes workbook, lunch and computer to use. HB: Cost is \$245. Classes available on demand.

VersaCAD 2006 for Mac OSX Update Covers all changes since VersaCAD 2001 plus review of some

features. One-day class includes workbook, lunch and use of computer. HB: Cost is \$245. Classes available on demand.

Implementing Civil Drafting Workshop

Bill Brown, President of California Drafting Teachers Consortium hosted a workshop on civil drafting all day August 18 at Santiago High School in Corona. Demand for civil drafters is high these days because of all the infrastructure work in California and elsewhere. Since MicroStation is the standard at Caltrans (and 47 other states), MicroStation was the basis for the workshop which also introduced civil terms and the new SkillsUSA category for civil. The workshop will be repeated at future CITEC events. Unlimited free MicroStation PowerDraft available to attendees. Email us if you would like to host an event, or if you would like a link to a 50 min PowerCivil video.

Learn 3 CAD Systems in one month

Drafting 165 at Orange Coast College introduces students to VersaCAD, MicroStation and Rhino 3D in four short weeks during the January "Intersession". The class is from 8am to 12:30 MWF. This fast paced class will make the student productive on all three software to round out the student's portfolio and double the number of job opportunities. VersaCAD used by Stater Brothers and Walker Parking. MicroStation used by process plant design firms, Caltrans and the US Army Corps of Engineers. Rhino 3D the standard for shoe, jewelry and consumer product design as well as architecture. Signup at http://www.orangecoastcollege.edu/academics/class_schedule/Class+Schedule.htm

Archway welcomes Chris Grubb

Chris Grubb joined Archway as a civil engineering software application specialist. Chris is a senior in civil engineering at Cal State Long Beach and will be working part time in support of Haestad software including WaterCAD, WaterGEMs, SewerCAD and SewerGEMs.

Bentley Q3/Q4 Specials

If you are in the market for software, don't miss these great Bentley specials: for the architect, discounts up to 50% on 3D BIM. For the civil designer; 44% on PowerCivil. And, if you need MicroStation and currently own AutoCAD, give us a call or email tom@archwaysystems.com

BentleyLEARN

BentleyLEARN is a tremendous value for a professional user of Bentley software or an educator. For the pro, the cost is just 20% of your annual SELECT bill. For the educator, BentleyLEARN is included with your BE Careers Subscription, so no extra charge. There are 600 online, prerecorded training classes on the BentleyLEARN website. Send an email to tom@archwaysystems.com if you would like to receive a pamphlet describing how to use BentleyLEARN. The pamphlet includes the steps to get to the course you need as well as suggested course outlines for teaching or learning: MicroStation, InRoads, Bentley Architecture or PowerCivil. Let us know if you would like to tryout BentleyLEARN for 30 days at no charge. If you try it, you will like it.

ARCHWAY'S PRODUCT LINE

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

DESIGN & ENGR SOFTWARE:

- MicroStation and applications
- VersaCAD Win & Mac
- InRoads & Geopak Civil Software
- Haestad Hydraulic Analysis Software
- Solid Edge and applications
- Plassotech finite element modeling
- TransMagic-translation software
- Magic X STL editing software

3D GRAPHICS & ANIMATION SOFTWARE:

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

COMPUTER PERIPHERALS

- Z Corp 3D Printers

PRODUCTS



Tom Lazear
Archway Systems, Inc.
2134 Main Street #160
Huntington Beach CA 92648

SERVICES

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

Archway Training Center

Checkout the training schedule on page 3. Classes for every need for MicroStation, Haestad SewerCAD, STAAD.Pro, RAM, Rhino, Solid Edge and VersaCAD. Increase your design productivity by learning from the experts. Especially note the Rendering and Animation class on Sep 25 to 28. This class will be taught by Jerry Flynn, author of the very popular book: "Rendering with MicroStation". This is a rare opportunity!

Rhino 3D Class for Educators

Checkout the incredible deal for educators at one of our upcoming Rhino 3D classes. Educators receive a \$200 discount on the class PLUS they receive a copy of Rhino 3D, 4.0 with a professional (not academic) license!

MyCADvideos.com

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

Z 450 3D Printer

The new Z450 is a breakthrough in 3D Printing (rapid prototyping). Provides the lowest cost of operation and the only multicolor printer on the market all contained in one good looking box. Our customers use their Z for: architectural models, golf club models, machine parts and even virus DNA models! Archway provides sales and service including 3D Printing of your models.

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