

The Arch Way



The Newsletter for Friends of Archway Systems

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Inside this issue:

Who's Who at Archway Systems	2
Report: Evolving BIM Market	2
Training Class Schedule	3
Archway Summer 2010 Road Show	4
3D Printer Specials	4
MyCADvideos.com	4

Upcoming Events:

- June 11** — USGBC Show in Long Beach
- June 16** — Be Inspired 2010 Submissions due
- June 25** — Archway Summer Road Show in San Bernardino

USGBC Show Coming Up!

The US Green Building Council is hosting a show at The Grand in Long Beach on June 11th, 2010. This show will feature booths with many different green building software and solutions.

The half-day event is entitled "Net Zero Energy Management" and will relate to pertinent information on the Net Zero Energy facilities, displaying technologies available to help accomplish these net zero energy facilities and answering questions such as "What is a Net Zero Energy facility?" and "What is the current status of Net Zero Energy?"

Join us for a great interactive day of moving our standards towards net zero energy standards. Please contact Archway for more information about this extraordinary event.

BE Together 2010 Review

The BE Together Conference was a great success. One portion that Archway really enjoyed was Inga Morozoff's Tips and Tricks in MicroStation V8i SS1.

In her session, she demonstrated 40 different tips and tricks in a short amount of time. The tips she offered were to make your using of MicroStation much quicker and simpler, saving you time and energy. Learn these tricks, like using the combination Ctrl + Tentative to quickly move the AccuDraw compass to the point snapped to, and updated features, such as transparent toolboxes, to make the most out of your MicroStation design experience.

Here is the [handout](#) that she used at the conference. Check out her website, [AskInga.com](#) on BE Communities, for more of her tips and tricks in MicroStation.

User Group Coverage

The Bentley User Group Meeting which took place on May 26th in San Diego was a great success. Two main points were discussed, MicroStation Select Series 2 (SS2), discussed by Sam Hendrick, and the new laser scanner from the Prizm Group, discussed by Vincent Kleppe.

The exciting new technology up for presentation that night was the Prizm Group scanner. It is the Leica High Definition Surveying Laser Scanner. It is an amazing new technology which allows you to use this scanner to survey structural surfaces and 3D material, collecting points, creating a point cloud. These point clouds can then be imported into MicroStation which creates an exact 3D model of what you just scanned.

It gives a realistic 3D representation of complex structures because the actual quantity of measurements taken and the high precision factor involved give a great deal of detail to any complex structure. This new technology takes the guess work out of designing a 3D model. All of the measurements are there for you. You can then take your 3D model and design within that space, knowing that the dimensions are exact. Now you get to take the time to focus on the design itself.

Be Inspired 2010: Only a Couple Weeks Left for Submissions

Bentley is now accepting submissions for the annual Be Inspired Contest. This contest consists of many different submission categories and is open to all who use Bentley software/products for their designs.

If you are working on a project with Bentley software, you should check out the submission guidelines and requirements on Bentley's [website](#) for more information. Submissions are due by June 16th, 2010, so don't wait to turn in your submission.

If you do send in a submission, be sure to mention that you heard about it from Archway. Also send us an email to let us know what you're working on; we'd love to hear about it!

Good luck on your projects. We can't wait to see what you come up with.

Who's Who at Archway Systems

Tom Lazear	Administration, Sales & Training	Josh Lazear	Webmaster , Z Support and Programming
George McMeans	Sales & Training in Nor. Cal.	Daniel Lazear	Programming
Mike Lazear	Programming & Support	Stephen Peters	Building/Building Performance Sales
Phill Frye	Training & Consulting	Chris Grubb	Civil and Water Sales
Greg Hamano	Training & Support	Lauren Jansen	Marketing & Sales
Sandy Lazear	Accounting	Shannon Lazear	Marketing
Linda Grubb	Sales Manager		

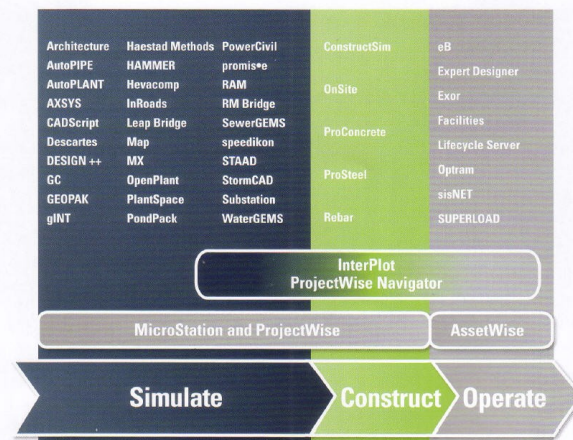
REPORT

Evolving BIM Market

Acronyms come and go, but BIM (Building Information Modeling) has stuck. The idea is to use computers to manage the information on a construction project from beginning to end, including all types of information. Mostly it is centered around a 3D computer model of the project. Initially, BIM was limited to building projects, but buildings require site preparation and major road and rail projects require some buildings. So eventually, BIM has come to mean any type of building project.

Measuring the BIM market from revenue at the AEC market in general covering projects which are either primarily building, plant, road, rail, or other infrastructure, based on published annual reports, the major suppliers: Autodesk, Bentley, Intergraph, Nemetschek (ArchiCAD), Tekla, Vico, and Solibri to name a few. And this list doesn't include the mechanical software vendors such as Trane and Carrier or the electrical vendors such as EDSL. Intergraph has software for only plants. Nemetschek covers 3D building modeling and structural. Tekla is structural. Vico is

Bentley Information Modeling Portfolio



construction management. There are really only two vendors who have a portfolio that covers most of the disciplines and most of the BIM project types: Autodesk and Bentley.

Contrary to popular belief, looking at Autodesk 10k report and Bentley's annual report, it is interesting that AEC revenue to the two is almost at parity, somewhere in the \$400 to \$500 million range. (Autodesk has similar revenues from manufacturing-CAD and Entertainment to make up their \$1.5B total sales). So, how do the two companies differ in market share since their revenues in AEC are almost the same?

The basic difference is size and type of project. In small to medium size residential projects, Autodesk

nearly has a monopoly. Keeping in mind that 90% of architectural firms in the US have 10 or less employees and primarily do residential work. No wonder that most of the smaller firms use AutoCAD (but now are migrating to Revit). When it comes to nonresidential, and very large and complex projects of any kind, the story is much different. Since clearly Autodesk gains a great deal of revenue in the smaller

projects, it is equally clear that Bentley takes the lead on the larger, complex projects. Examples are the \$51B of projects managed by the US Corp of Engineers, the infrastructure and facilities for the London Olympics, or process plants and road/rail where Bentley is number one.

Competition is healthy for the AEC industry. It breeds innovation, better products and better projects for us all. The key is interoperability between the various software products. Both Bentley and Autodesk are working on that, as evidenced by their 2009 agreement for file format exchange, the results of which are just now appearing in their products, such as RealDWG in MicroStation V8i SS2. Bravo.

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**). 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 MicroStation Classes

- **MicroStation Essentials** — This 4-day course is designed for the new MicroStation user and builds a solid foundation in the concepts, tools and features found in the MicroStation drawing environment. Starting with setting up a drawing and concluding with plotting, students walk through a typical workflow using the tools and features on the latest version of MicroStation. Cost is \$1400. Location: **HB**
 - ◇ **V8 XM Edition** — 7/20 to 7/23
 - ◇ **V8i SS1 Edition** — 7/13 to 7/16; 8/10 to 8/13; 8/31 to 9/3; & 9/14 to 9/17
- **MicroStation for AutoCAD Users** — This course is specifically for experienced AutoCAD users wanting to transition their CAD knowledge to MicroStation skills. The student will learn a wide range of topics beginning with how to incorporate existing data from AutoCAD into a new design file. Cost is \$1250. Location: **HB**
 - ◇ **XM Edition** — 8/18 to 8/20
 - ◇ **V8i Edition** — 6/29 to 7/1
 - ◇ **V8i SS1 Edition** — 7/28 to 7/30 & 9/29 to 10/1
- **MicroStation User Update** — This course covers all of the major new capabilities of MicroStation V8i are covered in a series of hands-on exercises. Students will learn about Workflow Task based interfaces and Project Explorer among other topics. Cost is \$1025. Location: **HB**
 - ◇ **V8 XM to V8i** — 6/15 to 6/16
 - ◇ **V8 XM to V8i SS1** — 7/8 to 7/9; 8/16 to 8/17; & 9/9 to 9/10
- **MicroStation: Everything 3D** — In this course users will navigate and work in a 3D design file, create and edit 3D geometry in MicroStation, create parametric 3D models and develop a basic knowledge of the rendering capabilities of MicroStation.. Cost is \$1350. Location: **HB**.
 - ◇ **V8i Edition** — TBD
 - ◇ **V8i SS1 Edition** — 8/3 to 8/6
- **MicroStation Advanced User** — This course is intended for the experienced MicroStation user and focuses on the features of MicroStation designed to improve user and work-group productivity. Providing lecture, demonstration and hands-on exercises, this class begins with a thorough examination of the DGN file, AccuDraw and ends with an introduction to importing and exporting CAD data from/to other CAD programs. Cost is \$1250. Location: **HB**
 - ◇ **V8i Edition** — 6/22 to 6/24; 8/25 to 8/27; & 9/29 to 10/1
 - ◇ **V8i SS1 Edition** — 9/22 to 9/24

Other Upcoming Bentley Classes

- **ProjectWise V8i Essentials** — These courses help users understand how to use a project cycle, presenting management using ProjectWise Explorer or Navigator. Cost is \$800. Location: **HB**
 - ◇ **User** — 7/8
 - ◇ **Navigator** — 7/9
- **Bentley Building Suite (3D) and Bentley Structural Fundamentals V8i** — This course will show the student how to create an intelligent 3D model, review and edit the model, and much more using Bentley Structural V8i Edition. Cost is \$1025. Location: **HB**
 - ◇ **Dates** — 7/13 to 7/14
- **InRoads Fundamentals V8i** — This course introduces civil engineering designers to using InRoads software for road design projects. This hands-on training walks students through the project design cycle. Cost is \$1360. Location: **HB**
 - ◇ **Dates** — 6/29 to 7/1 & 8/3 to 8/5

Upcoming Rhino Classes

- **Rhino I** — In this class you'll learn to create and edit accurate free-form 3D NURBS models. This fast-moving class covers most of Rhino's functionality, including the most advanced surfacing commands. Cost is \$695. Location: **HB**
 - ◇ **Dates** — 6/22 to 6/24
- **Rhino II** — This class will be an advanced version of the Rhino I class following more intricate processes at a faster work pace. It will cover the rest of Rhino's functionality which you do not cover in the first class. Cost is \$695. Location: **HB**
 - ◇ **Dates** — 7/20 to 7/22

Archway's Summer 2010 Road Show

Archway's summer road show begins in San Bernardino on June 25th. This road show features free lunch presentations on ProjectWise, Bentley BIM SS2, InRoads SS1, Haestad and MicroStation SS2.

The first one will be held at Mexico Café (892 East Highland) in San Bernardino on June 25th, 2010. It will be from 11:15 AM to 2 PM, and is completely free!

Don't miss out on the latest of what is going on in Bentley. Join us to get updated with the latest information on Bentley software, network with local colleagues, receive a 30 day eval license CD of your software of choice, and enjoy a delicious free lunch!

The first hour (11:15 AM to 12:15 PM) will consist of an introduction to ProjectWise and the emerging

importance of controlling information. After lunch, from 12:45 PM to 2 PM, Bentley BIM SS2, InRoads SS1, Improvements in Haestad, and a MicroStation Update SS2 will be presented. We hope you can join us for this one. It will be a great update on what is going on at Bentley right now.

Don't live in San Bernardino? Be on the lookout for future locations of Archway's 2010 summer road show throughout Southern California. The details for those are still in the works, but we will let you know as soon as we know.

Space is limited for the San Bernardino event so you need to RSVP as soon as possible to Lauren at lauren@archwaysystems.com.

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
- Promis*e

3D GRAPHICS & ANIMATION SOFTWARE:

- Rhino 3D, Flamingo, Penguin & Bongo
- 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.

PRODUCTS

ZPrinter[®] 450

World's Most Automated and Affordable Color 3D Printer



\$39,900*

* Manufacturer's Suggested U.S. List Price for Printer only. Options, shipping, local taxes and duties not included.

ZPrinters

Just like new Z 450 at half the price! Archway turns our demo machine at least once a year, and it is time for our demo 450 to go. If you purchase our printer and put it under warranty, it is just like a new printer. There is no difference. A used printer under warranty is the same to you as a new printer under warranty, only you save \$20,000. Two parties have already expressed interest. If you are looking for a printer, don't wait! First come, first served.