

The Arch Way



The Newsletter for Friends of Archway Systems

VOLUME 21, NUMBER 1

JANUARY 12

Archway Systems, Inc.

Southern California:
2134 Main St, Ste. 160
Huntington Beach, CA 92648
Phone: 714-374-0440
Fax: 714-374-0301
tom@archwaysystems.com

Northern California:
56 Nicholl Ave
Point Richmond, CA 94801
510-231-0502
gmcmeans@egs-inc.com

WWW.ARCHWAYSYSTEMS.COM

WWW.VERSACAD.COM

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Upcoming Events:

- Jan 20-21** — So Cal Bentley Bash @ Rio Hondo CC, Whittier, CA
Mar 6 — Submission Deadline for Bentley Student Design Competition
Apr 4-5 — Build Expo USA @ Anaheim Convention Center, CA

Build Expo USA coming in April

Build Expo USA is coming! On April 4th and 5th, at Anaheim Convention Center in Anaheim, CA, Build Expo USA will hold its annual Los Angeles event. This is a great event full of sponsors and exhibitors who are here to help you! It's a great opportunity to learn something new and network with new people and companies. [Register now!](#) You don't want to miss out on this event. Check out next month's newsletter for more information on all of the seminars and workshops that will be offered.

Bentley Bash Instructor Highlight: Jerry Flynn

Jerry Flynn, author of the Bentley Institute Press books *Rendering with MicroStation* and *Animating with MicroStation*, is a renowned Bentley Institute author and instructor. Ray Bentley, of Bentley Systems, in the foreword of the Flynn's second book, writes of Flynn that he is "a revered tutor and mentor for MicroStation visualization gurus the world over."

Because of this, Archway is excited to welcome Jerry Flynn to our already impressive line-up of instructors at the Bentley Bash 2012. Flynn will be sharing his knowledge on *Rendering with MicroStation* during the Mini Bash on Friday night and the morning session of Saturday, as well as his expertise on *Animating with MicroStation* during the Saturday afternoon session.

There are still spots left in his classes, and you do not want to miss out on this opportunity. [Sign up today!](#)

Bentley Bash is here!

This is it! There are only a few days left to register for the 2012 Southern California Bentley Bash at Rio Hondo Community College in Whittier, CA on **January 20th and 21st**. This is an event you do not want to miss. Free seminars and hands-on training of the latest in Bentley software! Classes are filling up fast, and you do not want to be left out.

Even though it is a free event, pre-registration is required in order to ensure yourself a spot in the classes you want. Look [here](#) for more information on the classes that are still available, as well as register for the Bentley Bash.

Don't delay, sign up today!

Save the Date: Be Together Conference

The Be Together Bentley User Conference is coming **May 15-17, 2012**. It will be held in Philadelphia, PA. This year there will also be an optional add-on package for special extended workshops on Monday, May 14th and Friday, May 18th. The LIVE Zone will be back again, bringing new technology to you through training sessions and hands-on workshops. You don't want to miss out on this. Sign up before March 31st, 2012 and save! Early bid registrants save \$200! Registration opens January 2012. Check out their [website](#) for more information and to stay updated on what Bentley has planned.

Last Chance: Bentley Student Design Competition

The deadline is fast approaching for the Bentley Student Design Competition. You only have until **March 6** to get your submissions in. This competition is open to all students of high school, technical school, collegiate, or university level. To be eligible for this competition you must be an individual or in a team of up to three students and use Bentley software for your design project. The winner will receive up to a \$2000 scholarship, a trophy, and 10 seats of Bentley software for their school. If you want more information about this competition, check out the competition website [here](#).



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Who's Who at Archway Systems

Tom Lazear	Administration, Sales & Training	Sandy Lazear	Accounting
George McMeans	Sales & Training in Nor. Cal.	Linda Grubb	Sales Manager
Mike Lazear	Programming & Support	Josh Lazear	Webmaster and Z Support
Phill Frye	Training & Consulting	Daniel Lazear	Sales
Greg Hamano	Training & Support	Lauren Jansen	Marketing & Sales
		Shannon Schoenberger	Marketing

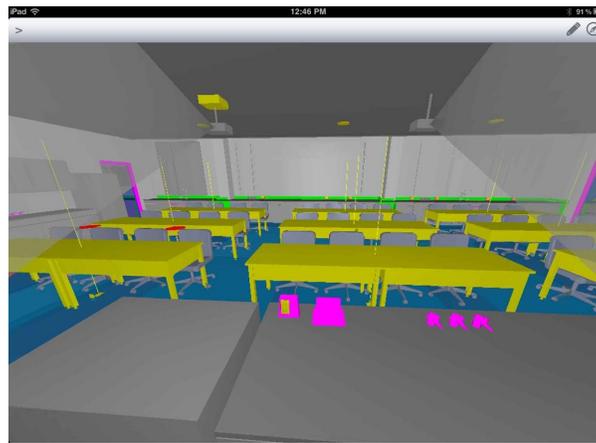
REPORT Navigator on iPad at Harbor Community College

Last month, at Harbor Community College, part of the LACCD, a new concept and application thrilled many. Danny Lazear, of Archway, was at Harbor conducting training of Bentley Navigator, when Senior Construction Manager, Rick, said he was “going to skip out of training early to walk the 60-70% MEP Roughed-in building with approximately 8 to 12 science teachers.”

It was then that Jim Youngblood, of Build-LACCD BIM, suggested they save views of a few rooms and load them onto to Danny's iPad in order to show the science teachers a better understanding of what the finished space will look like. Though Danny was training at the time, he was able to get a few views onto the iPad in time for the tour.

So Danny, along with Rick and Jim, took the science teachers through the tour, handing them the iPad with the model of the classroom they were standing in. They were able to see, from the same view of where they were standing, what this half-finished building would look like once it was a finished classroom. They were very excited and kept saying it was like a window into the future.

After seeing the users' reactions, the Builders PM, Barry, called the Owner, Jonny Pinner of [Pinner Construction](#), and relayed the situation and the



The i-model from the teacher's perspective users' reactions. Jonny then called the modeler, an Autodesk reseller, and told him he wanted every room on 2 iPads, in order to show these models to anyone who would be coming through the unfinished building. With i-model Optimizer for iPad, this has been made possible.

This is very exciting technology, especially for those that get to see and



The i-model with points of interest highlighted

use it that are not part of the building project themselves, i.e. the science teachers. These are the people that will be using the building the most once it is finished, and they are getting to see what it will be like in the future. This gives a very positive outlook for those that may have trouble seeing the potential in progress. With the i-model Optimizer for iPad and Navigator for iPad, the potential for the future can be realized now with i-models, Bentley technology and the iPad.

The only “training” given to the science teachers as they walked through the building was that Danny had graciously offered his iPad for this tour and would appreciate it if they didn't drop it. Otherwise, the navigation of the i-model on the iPad was fairly intuitive, as they moved the model with their finger, they could see all sides of the room. When they selected a point of interest in the front, they could see the classroom from their own perspective, and when they selected a point from the back, they could see it from a student's perspective.

This is an exciting new technology that has those at Build-LACCD “stoked” as Jim says, because they are able to see “small accomplishments as positive progress toward better buildings which deliver true value to [their] users.”

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 or visit LearnMicroStation.com for the latest class schedule.

Upcoming MicroStation & Other Bentley Classes

- **MicroStation Essentials** — This 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. Cost is \$1400. Location: **HB**
 - ◊ **Dates** — 2/14 to 2/17; 3/20 to 3/23; 5/1 to 5/4; 6/5 to 6/8; & 7/17 to 7/20
- **MicroStation for AutoCAD Users** — This course is specifically for experienced AutoCAD users wanting to transition their CAD knowledge to MicroStation skills. Cost is \$1250. Location: **HB**
 - ◊ **Dates** — 1/25 to 1/27; 3/6 to 3/8; 4/11 to 4/13; 5/23 to 5/25; 6/26 to 6/28; & 8/1 to 8/3
- **MicroStation User Update** — This course covers all of the major new capabilities of MicroStation V8i 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 SS1** — 2/9 to 2/10; 3/28 to 3/29; 5/29 to 5/30; & 7/5 to 7/6
- **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 \$1800 Location: **HB**.
 - ◊ **V8i SS2 Edition** — 2/28 to 3/2 & 6/12 to 6/15
- **MicroStation VBA** — The Essentials course introduces MicroStation Visual Basic for Applications (VBA) by teaching you how to set up a VBA 'project' and more. The Advanced course is intended for VBA programmers who want more instruction. Cost is \$500/Essentials & \$1000/Advanced. Location: **HB**
 - ◊ **Essentials** — 2/7
 - ◊ **Advanced** — 2/8 to 2/9
- **MicroStation CAD Management & Administration** — In this course users will learn the skills and techniques necessary to manage a MicroStation-based design environment, with an emphasis on project management and standardization. Cost is \$2600. Location: **HB**.
 - ◊ **V8i SS2 Edition** — 2/21 to 2/24 & 7/10 to 7/13
- **MicroStation for Advanced Users** — This course is for the experienced MicroStation user and focuses on improving user and work-group productivity. Cost is \$1500. Location: **HB**
 - ◊ **Dates** — 5/9 to 5/11 & 8/7 to 8/9
- **ProjectWise User Essentials** — This course introduces students to ProjectWise Explorer for managing documents throughout a project cycle. Cost is \$800. Location: **HB**
 - ◊ **Dates** — 2/24 & 4/19
- **Rail Track Fundamentals** — This course introduces designers to use Bentley Rail Track Software for rail design projects. Cost is \$1500. Location: **HB**
 - ◊ **Dates** — 2/20 to 2/22
- **Bentley Building Suite (3D) and Bentley Architecture Fundamentals V8i** — This course allows users to learn Bentley Architecture software products in order to create 3D building projects. Cost is \$1000 Location: **HB**
 - ◊ **Dates** — 2/14 to 2/15; 4/17 to 4/18; 5/31 to 6/1; & 7/25 to 7/26
- **Bentley Navigator** — This course covers how to use Bentley Navigator for review analysis, mark-up, and distribution of results to project team members. Cost is \$500. Location: **HB**
 - ◊ **Dates** — 2/28; 5/1; & 6/6
- **InRoads Fundamentals** — This class is to introduce civil engineering designers to InRoads software for road design projects. Cost is \$1500. Location: **HB**
 - ◊ **Dates** — 2/1 to 2/3; 3/7 to 3/9; 5/22 to 5/24; & 7/24 to 7/26
- **Advanced Roadway Designer for InRoads** — This course is for advanced users of InRoads wishing to enhance their abilities in roadway design. Cost is \$1500. Location: **HB**
 - ◊ **Dates** — 2/8 to 2/10; 5/8 to 5/10; & 8/13 to 8/15
- **InRoads Surface Modeling for Roadway Designers** — This course is intended for advanced InRoads users and covers surface design and editing commands to modify and create surface models. Cost is \$1025. Location: **HB**
 - ◊ **Dates** — 5/1 to 5/2 & 7/17 to 7/18
- **InRoads Site Fundamentals** — This course teaches civil engineering designers how to use InRoads for Site projects. Cost is \$1000. Location: **HB**
 - ◊ **Dates** — 1/25 to 1/26

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** — 2/21 to 2/23 & 4/3 to 4/5
- **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 \$795. Location: **HB**
 - ◊ **Dates** — 3/14 to 3/16

Plant Design Software

With the high price of oil, there is a lot of interest in developing alternative means such as fracturing, tar sands, shale oil and so on. There is environmental opposition, but economics and national security weigh in on the side of development.

With increased interest in developing those means comes increased demand for plant design engineers and the software they use to model and design the plants. There are several software packages available for 3D plant design including:

- **PDS from Integraph** — Plant Design System, PDS, developed in Huntsville, AL, has been one of the leaders since the 80s. PDS is an application running on top of Bentley's MicroStation. It has been stuck on MicroStation J for about 10 years, but is still a workhorse. Every license of PDS needs a license of MicroStation.
- **PDMS from AVEVA** — PDMS, 3D design software, is developed in Cambridge, UK.
- **SmartPlant from Integraph** — SmartPlant is Integraph's newest software, a complete rewrite from PDS. SmartPlant is a standalone product that requires no CAD software to produce isometrics and drawings.
- **OpenPlant from Bentley** — OpenPlant is a next generation 3D plant software that combines the best of Bentley's AutoPlant and PlantSpace software and conforms to the new ISO 15926 standard. OpenPlant is an object oriented software where every component and piece of equipment is located in a database for complete information. It can read PDS and AutoPlant files and requires no CAD

software as it has an isometric producer built-in along with connection to pipe stress analysis and more.

- **AutoPlant from Bentley** — AutoPlant was originally developed by a company called Revis which was acquired by Bentley some time ago. AutoPlant runs on AutoCAD.
- **PlantSpace from Bentley** — PlantSpace was conceived at Bechtel and development moved to Bentley. PlantSpace runs on MicroStation and is used by a number of large companies and projects.

Autodesk produces their own plant design software running on AutoCAD. Since Bentley has three entrants in the plant design space, and since MicroStation is used as the platform for some of the others, Bentley is one of the leaders in this field, along with Integraph and AVEVA.



Designed with AutoPlant by Process Automation Concepts, Ltd.

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
- AECOSim Energy Software
- Solid Edge and applications
- Promis*e
- Pointools software and applications

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.

SERVICES:

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

3D GRAPHICS & ANIMATION SOFTWARE:

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