

The Arch Way



The Newsletter for Friends of Archway Systems

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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:

- Nov 19** — MicroStation Visualization SIG
Nov 28-29 — Archway closed for Thanksgiving
Dec 10 — ProjectWise for MicroStation Users SIG

Upcoming MicroStation SIGS

Our first two MicroStation Special Interest Groups (SIGS) in October were very successful, allowing 82 people in the first and over 100 in the second to learn more about MicroStation including an Introduction to MicroStation and AccuDraw.

Our next two are coming up quickly. You don't want to miss these! The first is on **November 19th** and will be covering questions on **MicroStation Visualization**. The second is on **December 10th** and will be covering questions on **ProjectWise for MicroStation Users**. There will be two live sessions for each SIG, one at **8am PST** and one at **3pm PST**.

The **MicroStation Visualization SIG** will cover rendering with a focus on civil, setting up the camera, lighting and environments, using the populate tool and solar path tool, and using the effects manager. Anyone doing visualization can benefit from this session whether novice or advanced users. The videos for this session will be done by **Jerry Flynn**, Bentley's top visualization technologist.

The **ProjectWise for MicroStation Users SIG** will focus on how to access ProjectWise from MicroStation, ProjectExplorer and Navigator including iModels and iModel Composer. This session is great for anyone who needs to use ProjectWise or is interested in learning about how ProjectWise can best be utilized with MicroStation.

Both of these sessions will continue with the MicroStation SIG format of a **flipped classroom**, meaning that there will be videos available to watch and work through before you attend the live session on either **November 19th** or **December 10th** to have your questions answered. To register simply go to [BentleyLEARN](#).

Southern California Bentley Bash 2014: Save the Date

Our annual Southern California Bentley Bash is coming up on **January 17-18th, 2014** at **Rio Hondo Community College in Whittier, CA**. This is a fantastic event that has been praised by attendees for the past 5 years. It is a great opportunity to take advantage of **free, hands-on** learning while networking with other Bentley users. New to Bentley software? This is a great way to get to know the software and see it firsthand before jumping in.

As always there will be great classes offered including the most popular **Introduction to MicroStation**, as well as other classes discussing software such as **InRoads, ProjectWise, Descartes, AECOsim Building Designer, AECOsim Energy Simulator** and more! With great instructors from Archway and Bentley, it is bound to be our best Bash yet!

As always it is a **free** event, includes lunch on Saturday and at least one session Friday and two on Saturday. Details are still coming together, but save the date, **January 17-18th, 2014**. You won't want to miss out on this event. Mark your calendars now and look in future newsletters for registration information closer to January! Hope to see you there!

Descartes Fundamentals Class

Archway is offering a new training class on Bentley Descartes. This **Descartes Fundamentals** class will enable you to leverage the functionality found in Bentley Descartes and give you the skills required for your engineering, mapping and conversion projects that require the use of large images for creating hybrid maps, plan sheets, and other image rich documents.

This class includes topics such as raster formats, image selection and display, geocoordination, image vectorization and so much more. Our first class will be held on **February 11-14th, 2014** in our Huntington Beach training facility. This is a great class for those interested in using point clouds with their designs and for learning the functionality of Bentley Descartes. [Sign up today!](#) Or call Archway for more information.



Find us on facebook

Who's Who at Archway Systems

| | | | |
|-----------------------|----------------------------------|-----------------------------|-------------------|
| Tom Lazear | Administration, Sales & Training | Linda Grubb | Sales Manager |
| George McMeans | Sales & Training in Nor. Cal. | Josh Lazear | IT Specialist |
| Mike Lazear | Programming & Support | Daniel Lazear | Sales |
| Sandy Lazear | Accounting | Lauren Rybarczyk | Marketing & Sales |
| | | Shannon Schoenberger | Marketing |

REPORT

Be Inspired Conference Recap

Tom Lazear of Archway had the opportunity to attend the **Bentley Be Inspired** 2013 conference in London from **October 28-31**. It was quite an exciting event! Over 300 entrants in the "Year in Infrastructure" contest yielding 67 finalists in 22 categories plus a number of special recognitions.

Two Archway friends won awards! **Dr. Francelina Neto**, Chair of Civil Engineering at Cal Poly Pomona won the "**Educator of the Year**" award and **JL Patterson** was the winner in the "**Innovation in Point Cloud Processing and Management**" category for which Jackie Patterson, CEO, Mark Canas, COO, and Nathan Ortega, Project Engineering, accepted the award.

Their project was to design optimum corrective action for a BNSF railroad tunnel in the Cascades. They created a 2.5 terabyte point cloud of the sides of the 8.1 mile long tunnel. The problem was that double high railroad cars were scraping the walls of the tunnel which had previously been notched at the top. Patterson did a regression analysis to determine the track alignment to the centerline of the notch, rather the center of the walls which had previously been done. The adjusted alignment saves BNSF nearly \$9million by reducing the excavation necessary.

Dr. Neto received the Educator of the Year award for her tireless

work in leading faculty and mentoring students through Cal Poly's tough curriculum. Cal Poly, with 1300 Civil students, is one of the largest two civil programs in the U.S. Dr. Neto finds time to teach, look for new innovations, and council individual students and even their parents. Many Cal Poly students are the first in their family to attend college.

Besides the inspiring presentation of work by the 67 finalists, there were many presentations by professionals at the various summits and keynote addresses. For example, **Sir John Arnold**, who was the head of the infrastructure development for the 2012 London Olympics, spoke about the massive construction and repurposing of Olympic facilities. Also, **Andrew Wolstenholme**, CEO of Crossrail, spoke about the largest construction project in Europe. Both of these huge projects depend on Bentley software for the underlying design and construction technology used to efficiently bring their projects in under budget and ahead of schedule.

Malcolm Walter, **Greg Bentley**, and **Bhupinder Singh** led the Bentley presenters on the theme of "**Extending the Reach**," BIM applied to all disciplines and facility types (every project is a "campus") including the development of BIM from current Design/Visualization through Simulation/Construction

and on to Operation.

Bentley completed their acquisition of MOSES, software for engineering floating offshore platforms, now coupled with SACS for stationary platforms, so that Bentley has a clear number one position in design and engineering of offshore projects. Malcolm Walter made the point that 70% of the earth is "offshore" and with much of the search for energy moving offshore, Bentley is in a good position.

Bentley is leading in implementing the "cloud" as a vehicle. Their perspective is not "moving to the cloud," but rather "connecting through the cloud". BentleyCONNECT is their brand name for this resource which connects users to particular software, store, learning paths and more. When you sign in to Bentley.com with your single sign-on, you can click on the arrow next to it and go to your personal page on BentleyCONNECT.

Overall this conference was an exciting event demonstrating the great projects and potential of Bentley software. **Congratulations again from Archway to Dr. Neto as well as the whole team at JL Patterson.**

If you would like to learn more about the awards and finalists' projects please visit Bentley's [website](#).

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 \$1600. Location: **HB**
 - ◊ **HB Dates** — 12/17 to 12/20; 1/28 to 1/31; 3/4 to 3/7; & 4/15 to 4/18
- **MicroStation for AutoCAD Users** — This course is specifically for experienced AutoCAD users wanting to transition their CAD knowledge to MicroStation skills. Cost is \$1350. Location: **HB & BA**
 - ◊ **HB Dates** — 11/19 to 11/21; 2/18 to 2/20; & 4/1 to 4/3
 - ◊ **BA Dates** — 11/18 to 11/20; & 12/9 to 12/11
- **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 \$950. Location: **HB**
 - ◊ **V8 XM to V8i SS2** — 12/10 to 12/11; 2/19 to 2/20; & 5/1 to 5/2
- **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** — 12/3 to 12/6; 1/21 to 1/24; & 3/11 to 3/14
- **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**
 - ◊ **HB Dates** — 2/5 to 2/7
- **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**
 - ◊ **HB Dates** — 1/7 to 1/10; & 3/25 to 3/28
- **MicroStation VBA Essentials** — In this course, users will learn the features of the Visual Basic for Applications (VBA) development environment specific to MicroStation. Cost is \$500. Location: **HB**
 - ◊ **HB Dates** — 1/24 & 4/8
- **MicroStation for Animation** — This course covers how to animate in MicroStation 3D. Cost is \$1100. Location: **HB**
 - ◊ **Dates** — 1/27 to 1/28 & 3/17 to 3/18
- **MicroStation for Rendering** — This course covers how to use the Luxology rendering engine in MicroStation. Cost is \$1100. Location: **HB**
 - ◊ **Dates** — 1/29 to 1/30 & 3/19 to 3/20
- **AECOSim Energy Simulator** — This course takes you through the AECOSim Energy Simulator software interface and shows you how to create an Energy Model using the Data managers and the modeler. Cost is \$1500. Location: **HB**
 - ◊ **Dates** — 1/22 to 1/24; & 4/9 to 4/11
- **AECOSim Building Designer Essentials** — This course helps you get started with the basics of the software, working in 3D and using BIM themes and workflows. Cost is \$1000. Location: **HB**
 - ◊ **Dates** — 11/19 to 11/20
- **InRoads Fundamentals** — This class is to introduce civil engineering designers to InRoads software for road design projects. Cost is \$1600. Location: **HB**
 - ◊ **HB Dates** — 12/10 to 12/13; 2/4 to 2/7; & 4/8 to 4/11
- **Bentley Map Fundamentals** — In this course users will learn how to create map models, use Map Manager, and how to manipulate the display, order and symbology of features as well as topology features. Cost is \$1350. Location: **HB**
 - ◊ **Dates** — 12/17 to 12/19; & 2/26 to 2/28
- **ProjectWise User Essentials** — This course introduces students to ProjectWise Explorer for managing documents throughout a project cycle. Cost is \$500. Location: **HB**
 - ◊ **HB Dates** — 11/22; 2/13; & 4/17
- **Descartes Fundamentals** — This course is for users wanting to learn Bentley Descartes for use with point clouds. Cost is \$1000. Location: **HB**
 - ◊ **Dates** — 2/11 to 2/14

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** — 1/29 to 1/31; 3/26 to 3/28

High Speed Rail Conference Recap

On November 5-7, 2013, the annual High Speed Rail Conference took place in Los Angeles. This is an exciting time for the industry as California's Phase 1 deal has been signed and construction is about to get underway for the first phase of the state-wide, 800 mile transportation system.

Archway attended with Bentley as Bentley software is the standard for this major project. MicroStation is the standard CAD software at 47 state DOTs, the Federal DOT, US Army Corp of Engineers, as well as CrossRail, the largest rail project in Europe. Power InRoads and Rail Track are the standard at over half of the state DOTs, the Federal DOT, US Army Corp of Engineers and CrossRail. More miles of rail have been designed with Rail Track than any other software in the world. And to manage all of that software ProjectWise is the leading engineering document management solution and is used in 92 countries by many of the world's leading infrastructure organizations.

It was a great conference discussing the benefits of High Speed Rail in America and how the goals of those involved are being achieved. California's first section is due for completion in 2015, beginning the rail line from LA/Anaheim area to San Francisco, which will ultimately be able to transport passengers in under 3 hours. For more news on High Speed Rail around the country, check out the [US High Speed Rail Association](#).



ABOVE: Linda Grubb of Archway with Jeff Morales, CEO of CA High Speed Rail Authority

BELOW: Fran Varga of Bentley with Malcolm Daughtery, Director of CalTrans



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
- AECOSim Building Designer & Generative Components
- InRoads, PowerCivil & Geopak Civil Software
- Haestad Hydraulic Analysis Software
- AECOSim Energy Software
- Solid Edge and applications
- Promis*e
- Pointools Edit and applications

SERVICES:

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

3D GRAPHICS & ANIMATION SOFTWARE:

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

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. If there is not a class listed to fit your needs, call us and let us come up with a custom solution for you.

MyCADvideos.com

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