

# The Arch Way



## The Newsletter for Friends of Archway Systems

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### Upcoming Events:

- Oct 10-12** — Year in Infrastructure Conference, Singapore
- Oct 12** — CalPoly Geomatics Conference in Pomona, CA
- Oct 23-24** — OpenRoads LEARN Conference in Phoenix, AZ
- Oct 27-28** — NorCal Bentley Bash in Sacramento & Berkeley
- Nov 30** — Be Inspired Lunch & Learn in Irvine, CA

### NorCal Bentley Bash— Registration is Open

The Northern California Bentley Bash is coming up on **October 27-28th** in Sacramento, CA and Berkeley, CA. This year will feature all day at **Cal State Sacramento** on **Friday, October 27th** and all day at **UC Berkeley** on **Saturday, October 28th!**

That gives you the opportunity for 4 hands-on sessions throughout the weekend. [Online registration](#) is open for this **FREE** training event until **Monday, October 23rd!** It even includes breakfast pastries, lunch and a chance to win a door prize including a **drone or Amazon gift card!**

Software taught in both beginner and advanced classes include **Bentley Substation, MicroStation, ContextCapture, RAM, AECOSim Building Designer, and OpenRoads Designer and ConceptStation**. Check out our [Class Descriptions](#) for more information on the classes.

You don't want to miss this opportunity to network with other Bentley users, get your hands on the latest in Bentley software and learn how to be more efficient in your work! [Sign up today!](#) It is **FREE**, but classes will fill up so register today to secure your spot in the classes you want to take.

### Be Inspired Lunch & Learn

Come hear about all of the Be Inspired winning projects and the new announcements from Bentley at our annual Be Inspired Recap Lunch & Learn on **November 30th** from **11am to 1pm** at Gulliver's in Irvine.

Hear from Mike and Tom Lazear of Archway as they recap all of the exciting new developments in Bentley and their software and bring back information from Singapore and the Year in Infrastructure Conference.

This Lunch & Learn is **free**, but you must RSVP. Please let us know you're coming on [our website!](#)

### Bentley LEARN Conferences

Bentley has one **LEARN Conference** left in October. October's conference is in **Phoenix, AZ** on **October 23-24th** and will focus on **OpenRoads**.

Archway will be taking part in the OpenRoads conference in Phoenix. If you're going to be there, let us know as we'd love to get a chance to meet you and chat about Bentley's OpenRoads! For more information, check out [Bentley's website](#).

### MicroStation Rendering & Animation Class

We have put a **MicroStation Rendering and Animation Class** on our training schedule on **February 20th-23rd, 2018**. This class doesn't come along often, so join us if you can! The class is \$2000 for the 4 days in our Huntington Beach, CA Training Center.

This class will cover the basic features of the Luxology rendering engine in MicroStation V8i. It will also teach the new animation user how to produce movies. It requires knowledge of MicroStation 3D. In this course, you learn to use views for rendering, use lights, materials and cameras, apply rendering techniques to 3D models, create and use actors, animate cameras and more. Email [linda@archwaysystems.com](mailto:linda@archwaysystems.com) for more info.

## Who's Who at Archway Systems

<b>Mike Lazear</b>	Administration, Programming & Support	<b>Josh Lazear</b>	IT & Sr. Application Engineer: ProjectWise, ContextCapture
<b>Tom Lazear</b>	Sales & Training	<b>Daniel Lazear</b>	Sr. Application Engineer & Tenn. Sales & Training
<b>Sandy Lazear</b>	Accounting	<b>Raquel Sanchez</b>	GIS Technician & Data Analyst
<b>Linda Grubb</b>	Sales Manager	<b>Angie Krebs</b>	Sales
<b>Shannon Schoenberger</b>	Marketing		

## REPORT

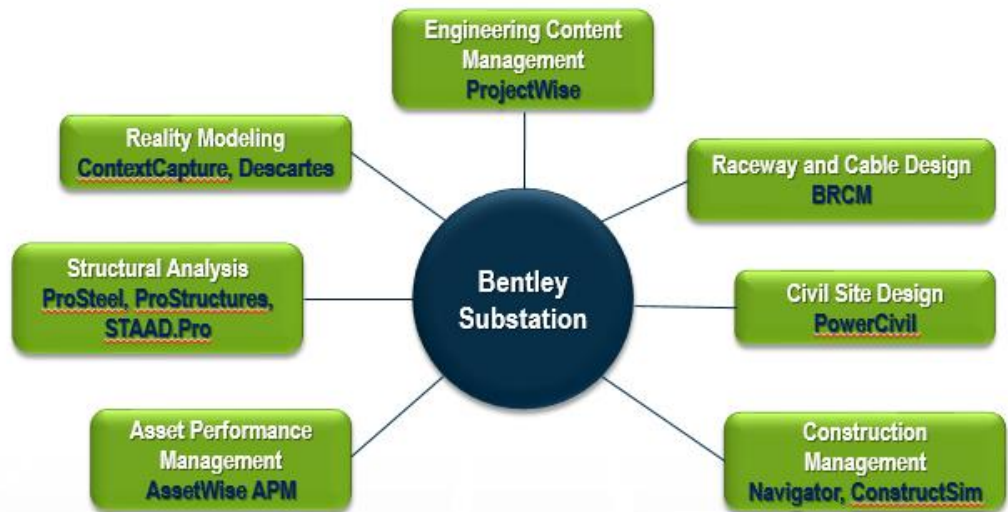
## Inside and Outside Interoperability

There are really two dimensions of interoperability for any AEC software provider:

1. Interoperating among the provider's slate of products.
  2. Interoperating with other vendor's offerings.
- Bentley excels on both dimensions.

For example, if you are a designer of electric substations, Bentley's Substation software is built on MicroStation and so it includes all the 2D and 3D CAD functionality of MicroStation. In addition, Substation includes dozens of catalogs of standard industry equipment such as transformers and circuit breakers from small to large capacity. Tools for placing symbols in 2D schematics snap components into place as tools for placing the corresponding 3D models snap onto "hooks" in 3D models of foundations for example.

The finished 3D model of a substation can be brought right into AECOSim Building Designer so the buildings, walls, landscaping and other items can be designed on the same computer or the files from Substation can be referenced



by the designer using AECOSim Building Designer. Then the site can be prepared with SiteOps and all the files can be managed for distributed teams via ProjectWise. The same scenario holds for buildings, process plants, offshore facilities and many other specific types of "campuses."

This is the first dimension that Bentley excels in. The second is interoperability with other vendor's offerings. What if some of the functions are being performed by another vendor's products? No problem. It is not a stretch to say that Bentley supports more formats than any other AEC software. By actual count, over 70 different file formats for vector, raster, point cloud and reality-capture files.

For example, what if a building is designed in Revit in which our substation is to be placed? Just export the building 3D model and drawings from Revit via an iModel or via IFC. A composite design can easily be created by referencing the iModel file and call it "Composite." Then, also reference the substation design directly into Composite and there you have it.

A few years ago [NIST did a study](#) that said the AEC industry wasted about \$5 billion each year just because of the inefficiency of software interoperability. They should do that study again on Bentley based projects like the \$26 billion Crossrail project in London. The results would most probably be different.

## 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 Nashville, TN (**TN**). Classes can be delivered on-site and online. Call or email Archway or visit [LearnMicroStation.com](http://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 & TN**
  - ◊ **HB Dates** — 10/31-11/3; 2/6-9; & 4/3-6;
  - ◊ **TN Dates** — 12/12-15; 2/20-23; 4/24-27; & 6/26-29
- **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 & TN**
  - ◊ **HB Dates** — 12/5-7; 1/30-2/1; 3/13-15; & 5/8-10
  - ◊ **TN Dates** — 12/5-7; 1/9-11; 3/27-29; & 5/30-6/1
- **MicroStation V8i 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 & TN**.
  - ◊ **HB Dates** — 11/14-17; 1/9-12; & 4/17-20
  - ◊ **TN Dates** — 2/27-3/2; & 5/8-11
- **MicroStation CONNECT Everything 3D** — In this course, users will navigate and work in a 3D design file, create and edit 3D geometry in MicroStation CONNECT, create parametric 3D models and develop a basic knowledge of the rendering capabilities of MicroStation CONNECT. Cost is \$1350 Location: **HB & TN**.
  - ◊ **HB Dates** — 1/30-2/1; & 5/1-3
  - ◊ **TN Dates** — 12/18-20; 3/6-8; & 7/10-12
- **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 & TN**
  - ◊ **HB Dates** — 11/14-16; 1/23-25; 4/10-12; & 6/26-28
  - ◊ **TN Dates** — 2/13-15; & 5/1-3
- **MicroStation User Update to CONNECT** — This course covers all of the major new capabilities of MicroStation in a series of hands-on exercises. Students will learn about Workflow Task based interfaces and Project Explorer among other topics. Cost is \$800.  
Location: **HB**
  - ◊ **HB Dates** — 12/19-20; 3/6-7; & 5/23-24
- **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** — 11/7-10; 2/13-16; & 5/15-18
- **MicroStation VBA Basics to Advanced** — This course covers the features of Visual Basic for Applications (VBA) development environment specific to MicroStation from the most basic to advanced features. Cost is \$1000.  
Location: **HB**
  - ◊ **Dates** — 1/9-10; & 4/17-18
- **AECOSim Building Designer** — This course is designed to help users understand the features available in AECOSim Building Designer. Cost is \$1500. Location: **HB & TN**
  - ◊ **HB Dates** — 12/12-14; & 2/6-8
  - ◊ **TN Dates** — 3/13-15; 4/10-12; & 6/18-20
- **InRoads Fundamentals SS2** — This class is to introduce civil engineering designers to InRoads software for road design projects. Cost is \$1600. Location: **HB & TN**
  - ◊ **HB Dates** — 11/28-12/1
  - ◊ **TN Dates** — 2/6-9; 4/3-6; & 6/5-8
- **OpenRoads Designer Essentials** — This class is to help users learn how to use OpenRoads Designer and its comprehensive features for road design projects. Cost is \$1000. Location: **TN**
  - ◊ **TN Dates** — TBD
- **Advanced Roadway Designer for InRoads** — This class introduces civil engineering designers to all the major technologies in the Create Template and Roadway Designer applications. Cost is \$1500. Location: **TN**
  - ◊ **TN Dates** — 3/20-22; & 6/12-14
- **MicroStation Rendering & Animation** — This class gives an overview of the rendering and animation features inside MicroStation including the Luxology rendering engine. Cost is \$2000. Location: **HB**
  - ◊ **HB Dates** — 2/20-23
- **Descartes Fundamentals** — This course will enable you to leverage the functionality found in Bentley Descartes and give you the skills required for your engineering, mapping and conversion projects. Cost is \$1500. Location: **TN**
  - ◊ **TN Dates** — 3/27-28; & 6/13-14
- **ContextCapture** — In this class, you'll learn how to take photographs, set up a project and process a 3D mesh model in ContextCapture. Cost is \$500. Location: **HB**
  - ◊ **HB Dates (1 day)** — TBD

## DGN/DWG Translations Done Right!

Translations between AutoCAD and MicroStation can be problematic. Whether it is incorrect units, wrong line styles, unwanted levels or layers that can't be deleted, it all adds up to more tedious work. **Axiom's Translation Manager** makes this easier and gets you the results you want, the first time, and it does this on any number of files you want at one time. Contact **Russ Caldwell** at **727-442-7774 extension 127** for a free test drive. Mention promotion code **9040** to receive a **10% discount** if you purchase before **November 30, 2017!**

## AEC Conference in Anaheim—Save the Date

The **AEC Next Technology Expo + Conference** is being held at the Anaheim Convention Center in Anaheim, CA on **June 5-7, 2018**. It will feature companies offering hardware, software and services; emerging technologies; as well as building/construction products. Special features will include theaters on the expo floor featuring case-studies, new products, and best practices and much more. For more information on sponsoring or exhibiting, please contact **Rita Hicks** at [rhicks@divcom.com](mailto:rhicks@divcom.com) or **207-842-5578**.

For attendance, **save the date now!** Stay tuned for information on registering and attending the **AEC Next Technology Expo + Conference**. Also the Summer Bentley Bash will be held in conjunction with this conference so save the date for the **Summer Bentley Bash** today!

## Rhino Classes

We have a few different options for Rhino Training at Archway. There are three different options for classes including the Rhino Level 1, Rhino Accelerated Level 1 and Rhino Level 2 classes.

- **Rhino I** — In this class you'll learn to create and edit accurate free-form 3D NURBS models. This three day class covers most of Rhino's functionality, including the most advanced surfacing commands. Cost is \$695. Location: **HB & TN**
  - ◊ **HB Dates** — 12/19-21; 3/20-22; & 6/12-14
  - ◊ **TN Dates** — 1/31-2/2; & 4/18-20
- **Rhino Accelerated I** — In this class you'll learn to create and edit accurate free-form 3D NURBS models. This fast-moving two day class covers most of Rhino's functionality, including the most advanced surfacing commands. Cost is \$495. Location: **HB**
  - ◊ **HB Dates** — TBD
- **Rhino II** — In this class you'll learn productivity tools and NURBS concepts, advanced surfacing, using 2D drawings and images, sculpting surfaces, meshing and rendering. Cost is \$795. Location: **HB**
  - ◊ **HB Dates** — TBD

**Call Archway today to sign up for Rhino training in Huntington Beach, CA** or visit [LearnRhino3D.com](http://LearnRhino3D.com) for more information on our classes.

## 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 for Windows
- AECOSim Building Designer & Generative Components
- InRoads, OpenRoads Designer & ConceptStation
- Haestad Hydraulic Analysis Software
- AECOSim Energy Software
- ContextCapture
- Pointools Edit and applications

### Archway Training Center

Check out the training classes on page 3. Classes for every need for MicroStation, InRoads, Rhino, 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.

### 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

### MyCADvideos.com

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

### Archway Job Site

Check out our job site where you can view jobs that local companies have posted specific to your industry.