

# The Arch Way



## The Newsletter for Friends of Archway Systems

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**Bentley**  
Platinum Channel Partner



### Upcoming Events:

- June 15** — TechExpo in Long Beach, CA
- June 23-24** — Summer Bentley Bash 2017
- July 4** — Archway closed for holiday
- July 11** — ContextCapture Webinar
- July 14** — USC BIM Conference
- July 20** — MicroStation CONNECT Webinar
- Aug 1** — OpenRoads Designer Webinar

### Summer Webinar Series

This summer we have a free webinar series for you featuring a few different software including MicroStation CONNECT, OpenRoads Designer, ContextCapture and ProjectWise. Our next webinar will cover **ContextCapture** on **Tuesday, July 11th, 2017 at 10am PDT**. Come see how to turn photos into precise 3D mesh models to establish existing conditions, including color and texture. This webinar will explore some of the large and small models produced with ContextCapture and will provide a demo of the software.

Here is the schedule of our upcoming summer webinar series. [Sign up online today!](#)

- **July 11**—ContextCapture
- **July 20**—MicroStation CONNECT for Users
- **August 1**—OpenRoads Designer
- **August 3**—MicroStation CONNECT for IT & CAD Managers
- **August 10** — ContextCapture
- **August 15** — OpenRoads Designer

Check out our [Webinars](#) page for more information and to sign up for each of the webinars. If you cannot make the times listed, recordings will be made available. Please see our [Past Webinars](#) to view the recordings.

### Ever Been to Singapore?

Bentley's **Year in Infrastructure Conference** is one of the highlights of the year for infrastructure professionals. Whether you are in engineering, design, or construction, you will benefit from talking with some of the world's top professionals, seeing their projects, and learning about technology in the industry. See the report on page 2 for more information. Please let us know if you would like to attend this year in **Singapore, October 10-12, 2017**. We may be able to help with your hotel expense!

### Summer Bentley Bash

The annual summer Southern California Bentley Bash is here! **June 23-24th at Santa Ana College**. It is a free networking a training event with hands-on workshops to get the latest in Bentley software including OpenRoads Designer, MicroStation CONNECT, ContextCapture, SITEOPS, OpenRoads ConceptStation, and more! **Online registration is open until Monday, June 19th**. Walk-in registration will be available on a first come, first served basis. [Register today!](#)

There is still room available in all of our classes, but **sign up today to secure your spot!** Classes will fill up! Our featured class this Bash is our SITEOPS track—"Power of SITEOPS Reality Modeling Workflow" and "Discover How Optioneering Will Change the Way You Look at the World". Learn how you can use SITEOPS for your conceptual site design and make your project more cost-effective and efficient.

**This event is free!** Get your hands-on look at Bentley's latest software today and have a chance to win door prizes. **Tweet and post about the event using #SummerBentleyBash17 for a chance to win!**

## Who's Who at Archway Systems

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

## REPORT

## Year in Infrastructure Conference

Each year Bentley holds their annual Year in Infrastructure (YII) Conference in the Fall. This year the YII Conference is taking place in **Singapore** on **October 10-12, 2017**. Each year at the YII Conference the Be Inspired Awards are presented. These awards recognize the best in the industry in many different categories.

Each year Archway supports nominees and have had those nominees go on to be finalists and winners at the YII Conference.

In **2016**, **BuildLACCD** was a finalist in the **Innovation in Government** category for their project modernizing and renovating the Los Angeles Community College District's (LACCD) nine campuses and creating 67 new buildings using green technology. They used ProjectWise to store and coordinate all of their project data including the BIM specifications. BuildLACCD was named the winner in their category over Dholera's Dehli Mumbai Industrial Corridor Development Corporation project and the Research and Design Institute for Urban Transportation in Moscow.

In **2014**, **J.L. Patterson** won the award for the **Innovation in Project Performance** category based on their engineering work for the Tehachapi bypass, pictured above. **J.L. Patterson** also won in **2013** in the **Innovation in Point Cloud Processing and Management** category. This 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. J.L. Patterson did a regression analysis to determine the track alignment to the centerline of the notch, rather than the center of the walls which had previously been done. The adjusted alignment saved BNSF nearly \$9 million by reducing the excavation necessary.

Also in **2013**, **Dr. Francelina Neto**, a friend of Archway and educator at Cal Poly Pomona, won the **Educator of the Year Award**.

This conference is a great opportunity to see the many projects around the world using Bentley software to be more innovative, more efficient, and more effective. This year, Archway supported two projects from **Jackie Patterson**, formerly of J.L. Patterson, now Vice President of **Jacobs**, and **John Cruikshank and Mary Wall of JMC2 Civil Engineering + Surveying**.

The JMC2 project was submitted in the **BIM Advancements in Construction** category and features their project on creating a structure and net system to catch a skydiver who dived

without a parachute. Bentley software was used for the entire project and the skydiver's jump was a huge success.

The Jacobs project was submitted in the **BIM Advancements for Rail and Transit** for their work on the **California High Speed Rail Corridor** from Burbank to Los Angeles to Anaheim. This project is still in the planning phases but by using Bentley's PowerRail Track and also UAVs to collect data, Jacobs were able to propose a solution to reduce time by over half and cost by over 85% and increase the image quality for the data collected. All of the data and designs are being stored and distributed through ProjectWise for all of the offices working on the project.

The finalists for the 2017 Be Inspired Awards will be announced in August and we are looking forward to seeing if Jacobs or JMC2 will be finalists so we can see their presentations in Singapore! **Join us in Singapore in October to see all of the finalists presentations and the awards for all 17 categories.** See more information on [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 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** — 8/29-9/1; & 10/31-11/3
  - ◊ **TN Dates** — 6/27-30; 8/22-25; 10/17-20; & 12/12-15
- **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** — 6/27-29; 8/15-17; 10/17-19; 12/5-7; & 1/30-2/1
  - ◊ **TN Dates** — 7/25-27; 9/19-21; 11/14-16; & 1/16-18
- **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 & TN**.
  - ◊ **HB Dates** — 7/25-28; & 10/24-27
  - ◊ **TN Dates** — 9/12-15; & 1/9-12
- **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** — 8/22-24; 11/14-16; & 1/23-25
  - ◊ **TN Dates** — 9/6-8; & 11/29-12/2
- **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** — 7/18-19; 9/19-20; & 12/19-20
- **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** — 7/11-14; & 11/7-10
- **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** — 9/7-8; & 1/16-17
- **AECOSim Building Designer Architecture** — This course is designed to help users understand the Architecture features available in AECOSim Building Designer. Cost is \$1500. Location: **HB & TN**
  - ◊ **HB Dates** — 6/20-22; 9/12-14; & 12/12-14
  - ◊ **TN Dates** — 9/27-29; & 12/18-20
- **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** — 7/11-14
  - ◊ **TN Dates** — 8/28-31; & 12/5-8
- **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** — 8/8-10; 10/31-11/2; & 1/23-25
- **ConceptStation** — This class takes the user through the full cycle of using ConceptStation to explore conceptual design options with real-world data and cost analysis. Cost is \$500. Location: **TN & Online**
  - ◊ **TN Dates (1 day)** — 7/6
  - ◊ **Online (2, 1/2 days)** — 8/9-10; & 10/10-11
- **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)** — 7/13
- **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: **HB & TN**
  - ◊ **HB Dates** — 9/13-15
  - ◊ **TN Dates** — 7/19-21; & 10/3-5

### Upcoming Online Bentley Classes

- **MicroStation V8i Feature Modeling** — In this class you'll learn an introduction to feature modeling concepts including editing of designs via the Feature Manager. Cost is \$650. Location: **Online 10am-2pm PDT**
  - ◊ **Dates** — TBD
- **MicroStation 3D Intro** — This course follows the transition from 2D drawing to 3D modeling using the basic tools for viewing, manipulating and drawing. Cost is \$500. Location: **Online 10am-2pm PDT**
  - ◊ **Dates** — TBD
- **MicroStation Basics** — This course builds a solid foundation in the concepts, tools and features found in the MicroStation drawing environment. Cost is \$900. Location: **Online 10am-2pm PDT**
  - ◊ **Dates** — TBD



## USC BIM 2017

On **Friday, July 14, 2017**, USC School of Architecture will hold its **11th Annual USC BIM Conference!** This year's theme is "**BIM 2017: What's Next?**" focusing on the newest technology advancements and what is in store for the future of BIM.

This year there are over 30 speakers! Hear about different topics including **BIM for the Design-Oriented Firm**, BIM and Automated Plan Review, Generative Workflows for Complex Geometry, and **Where Building Information Modeling Meets Computational Design**. There are many sessions to choose from including the **Accelerating Site Survey, DTM, and 3D Modeling through Reality Capture** session at which our own Josh Lazear will be speaking with **John Cruikshank, President of JMC2 Civil Engineering + Surveying**. Come hear what they have to say about Bentley's newest software in Reality Capture, ContextCapture.

And they are still adding speakers and sessions! Check out the latest schedule on their [website](#).

**Register before June 30th to get the early registration price!** But don't wait until the last minute! This event usually sells out! Go to [usc.edu/esvp](http://usc.edu/esvp) (code: **bim2017**) to register 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** — 6/28-30; 9/26-28; & 12/19-21

◊ **TN Dates** — 8/2-4; 10/4-6; & 1/31-2/2

- **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** — 9/26-27

- **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** — 7/19-21

**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, PowerCivil & Geopak Civil Software
- Haestad Hydraulic Analysis Software
- AECOSim Energy Software
- Promis\*e
- 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.