

The Arch Way



The Newsletter for Friends of Archway Systems

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Upcoming Events:

- Aug 28-30** — MicroStation Virtual LEARN Conference
- Sept 4** — Closed for Labor Day
- Sept 26-27** — ProjectWise LEARN Conference in Orlando, FL
- Oct 10-12** — Year in Infrastructure Conference, Singapore
- Oct 12** — CalPoly Geomatics Conference
- Oct 23-24** — OpenRoads LEARN Conference in Phoenix, AZ
- Oct 27-28** — NorCal Bentley Bash in Sacramento & Berkeley

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 now open for this **FREE** training event.

Topics for the weekend include **MicroStation Tips & Tricks**, **MicroStation Moving to CONNECT**, **ContextCapture**, **RAM** - both Intro and Advanced, **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.

Finding Jewels on Bentley.com

Bentley's website is so rich that you may find it overwhelming. Here are the top 6 recent benefits that can save you money:

1. [Free SIGS get you direct access to experts.](#)
2. If you have SELECT, all [online learning is free!](#)
3. [If you own any Autodesk license, you can receive up to full credit towards purchase of any Bentley perpetual licenses.](#)
4. Want a free file sharing service called [Share?](#)
5. Been getting QTL invoices? A [Cloud Service Subscription](#) can cut those costs by up to 70%!
6. Just need to view or print AutoCAD, MicroStation or other files? If so, use the [free Bentley View!](#)

Call or email Linda@archwaysystems.com and she will guide you to find these and other jewels.

Be Inspired Finalists Announced

Last week, Bentley announced the 51 finalists for the Be Inspired Awards. These finalists will get a chance to present their projects in Singapore at the Year in Infrastructure Conference in front of a panel of jurors.

This is an exciting opportunity for all of the finalists, and we especially want to congratulate **JMC2 Civil Engineering + Surveying** on becoming a finalist in the **BIM Advancements in Construction** category and **Jacobs/Zephyr UAS** for becoming a finalist in the **BIM Advancements in Rail and Transit** category.

To see all of the finalists, visit Bentley's [website](#). See you in Singapore!

Who's Who at Archway Systems

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

REPORT

Tom's Perspective of BIM

BIM may seem like a new concept in the recent years, but it has been around for much longer. Tom Lazear of Archway took some time to reflect on what BIM has looked like in the past 45 years.

"I've been involved in BIM from the beginning and on all sides, from the owner's perspective working with LACCD for the past 5 years, from the perspective of Fluor, a major EPC firm, as well as from the viewpoint of software developer, consultant, and trainer.

In 1970, I was Manager of Information Systems at Fluor when Fluor had the billion dollar SASOL coal to gasification project in South Africa. We supported that project using a mainframe in LA through a transatlantic cable to South Africa with Fluor Analytical Scheduling, Cost Trending, Computer Based Expediting, and Material Control. Plus electronic drawings, but no 3D computer models.

Advance to 1980, Mike and I developed VersaCAD, the first CAD software on a PC. Then in 1990, Fluor added 3D modeling called Calma. And in the most recent 20+ years, Bentley added engineering document management and collaboration control software where all information including 3D models can be handled online. So BIM has been around a long time.

It seems that today what we popularly call BIM is being employed in nearly every project type, not just buildings.



For example, in 2014, the Michigan DOT won an award for their implementation. They call it "eConstruction," which by the way, is a popular name for BIM in the transportation industry and in Europe. MDOT says that they have transformed from a paper-based system to a fully electronic system, also using ProjectWise. They can show that they save \$7.5 million per year in paper and mail related costs and the electronic approval process cut 30 day approval times to 3 days.

A side benefit of BIM is that it allows engineers to work from disparate locations rather than needing to be centrally located. Kiewit-Parsons JV were able to start quickly for the Metro Gold Line project. They were able to share engineering data with field, inspectors, contractors and more than 200 sub-consultants. They believe they saved over half a million dollars in travel and relocation costs alone.

The Crossrail project in the UK is another great example of how BIM should work. A subway project going east to west right across downtown London. It connects Heathrow airport to downtown. It was started in 2008 and is scheduled for completion in 2018. Utilizing BIM, they have been able to keep this \$26 billion, 10 year project on budget and schedule.

One of the unique aspects of Crossrail was their BIM Academy, a school where all participants, engineers, contractors, inspectors all went to the school to learn how BIM works and why everyone wins.

So where is it all going? Lots of technology improvements of course. Accessing BIM standards includes things like a component library from standards and past projects, more ways to view and access project data, improvements in tracking RFIs and deliverables, and some AI applications to better understand project status."

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 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** — 9/12-15; 10/31-11/3; 2/6-9; 4/3-6; & 6/5-8
 - ◊ **TN Dates** — 10/17-20; 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** — 10/17-19; 12/5-7; 1/30-2/1; 3/13-15; & 5/8-10
 - ◊ **TN Dates** — 9/19-21; 11/14-16; 1/16-18; 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** — 1/16-19; & 4/17-20
 - ◊ **TN Dates** — 9/12-15; 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** — 9/19-21; 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
 - ◊ **TN Dates** — 9/6-8; 11/29-12/2; 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** — 9/19-20; 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** — 9/7-8; 1/16-17; & 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** — 9/12-14; 12/12-14; & 2/6-8
 - ◊ **TN Dates** — 9/27-29; 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** — 11/7-10
 - ◊ **TN Dates** — 8/28-31; 12/5-8; 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** — 10/31-11/2; 3/20-22; & 6/12-14
- **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: **Online**
 - ◊ **Online (2, 1/2 days)** — 10/10-11
- **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

Bentley Special Interest Groups

Check out Bentley's Special Interest Groups (SIG) Workshops. They have new ones regularly, but there are also on-demand videos you can check out to get up to date information on the new software and features of Bentley's most popular software.

These cover all topics including ProjectWise, MicroStation, Bentley Rail, Optram, RAM, and OpenPlant. Those are just a few of the upcoming topics for the end of August and beginning of September. Check out Bentley's full list of SIGs available as well as their On-Demand videos on their [website](#).

Bentley LEARN Conferences

Bentley is hosting 3 **LEARN Conferences** in August, September and October. August's conference will focus on **MicroStation** and it is a virtual conference you can attend from anywhere **August 28-30th**. September's conference is in **Orlando, FL** on **September 26-27th** and will focus on **ProjectWise**. 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](#).

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** — 9/26-28; 12/19-21; 3/20-22; & 6/12-14
 - ◊ **TN Dates** — 10/4-6; 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** — 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** — TBD

Call Archway today to sign up for Rhino training in Huntington Beach, CA or visit 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 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.