The Arch Way

Archway Systems

The Newsletter for Friends of Archway Systems

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Upcoming Events:

Feb 28 — Construction Lunch & Learn in Emeryville, CA
Mar 6 — Submission Deadline for Bentley Student Design Competition
Mar 13 — Point Cloud Processing Webinar
Mar 15 — ProjectWise Webinar
Apr 4-5 — Build Expo USA @ Anaheim Convention Center, CA

Upcoming Webinars

Archway will be hosting two webinars in the middle of March. Point Cloud Processing on **March 13th** and ProjectWise on **March 15th**.

- **Point Cloud Processing via Pointools from Bentley** — Bentley's recently acquired Pointools software runs on the industry-leading Pointools Vortex point cloud engine and includes a number of modules in support of the flagship product, Pointools Edit. It is the leading software for segmenting, editing, and animating very large point clouds as well as enabling maximum interoperability of point clouds among various popular software. The webinar will give an overview of typical point cloud processing workflow and applications.

- **ProjectWise** — ProjectWise has become the de facto standard for infrastructure project collaboration. Many are design-build projects and are required to implement BIM, so it has become imperative to have a formalized system for managing the content that is worked on by so many. This webinar will give an overview of ProjectWise.

Last Chance!

The deadline is almost here for the Bentley Student Design Competition. You only have until **March 6** to get your submissions in. If you want more information about this competition, check out the competition website here.

Lunch & Learn in Emeryville, CA

On **February 28, 2012**, Bentley and Archway will be hosting a free lunch and learn seminar, **Integrating Building Construction Teams**. Join us at the Four Points by Sheraton in Emeryville, CA from 12pm-1:30pm to learn how you can enhance your workflows by making information easy to find, capture and synchronize feedback to share with your project team and more all with Synchro 4D and ProjectWise. Learn from case studies of how the building of a hospital and a medical center profited from using ProjectWise and Synchro 4D. Register here or contact Archway for more information. See you there!

Build Expo USA coming to Anaheim, CA 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!

One of Archway's own, Tom Lazear, will be speaking from 9am to 11am both days. His presentation will provide an overview of building energy software in the market, discuss some of the results, and present Energy+ and some of the newer software using it.

Other speakers include the keynote speaker, Josh Ramsey, and his presentation on Marketing to Today's Consumers—Without Hiring a Superstar Sales Person. His presentation about online marketing will be from 11am to 12:30pm on both days. David Joe, of Elite Business Solutions, will also be speaking. His presentation, from 9am to 11am on both days, will focus on the Benefits of a Business Analysis.

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 their website for more information on all of the seminars.

Who's Who at Archway Systems

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

REPORT Point Cloud Processing Shift and Pointools Edit

We are beginning to see a shift in how point cloud processing is done. Originally the best way to use point clouds was to bring them in, use them to design geometry and then use that geometry to model new parts, change existing parts, etc. Now, especially with Pointools Edit, the best practices have changed. This is because of the change in how the point clouds are processed.

They are now so dense, that creating geometry around the point cloud is needless and can become a waste of time. Because of the density of the point clouds, people are finding they can simple design within the point cloud itself. This is what Pointools Edit is good for.

Pointools Edit is the perfect design software for point clouds because it can handle all three types of point clouds scans: aerial-LiDAR, mobile, and terrestrial. It is also one of the best point cloud processing software right now because it runs on the industry-leading Pointools Vortex cloud engine technology. The Pointools website describes this Vortex technology as "the fastest point cloud engine enabling professionals to efficiently work with multi-billion point datasets with unmatched speed."

In Bentley's recent press release on their acquisition of Pointools,Tom Greaves, managing director of SPAR Point Group said, "The

matchup of hardware-neutral Pointools with Bentley's open, single platform strategy is going to liberate value beyond design to construction and asset management for Bentley users just as they are demanding and getting more and better data. Point clouds need a seat at the data table with information modeling, GIS data, equipment catalogs, project documents and maintenance databases—Bentley sets a place for point clouds with this acquisition."

Just last month, Archway sent Danny Lazear, our Pointools expert, to Denver for the International LiDAR Mapping Forum. It attracted over 750 attendees from 30 different countries. This was Pointools' first time at the conference and was a great introduction into the aerial-LiDAR world.

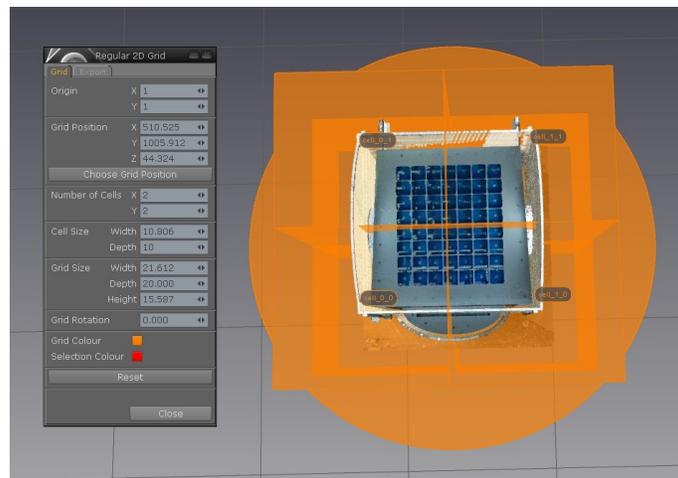Danny Lazear, along with Dan Cutler from Pointools now Bentley,

spoke with many enthusiastic attendees about the benefits of using Pointools software. Many attendees had already heard the news about Bentley acquiring Pointools, while it came as very intriguing news to others as they were already Bentley users.

Overall, ILMF was a huge success and the Pointools, Bentley, and Archway family looks forward to serving aerial-LiDAR industry well with its industry-leading Vortex point cloud engine technology.

Archway currently has a training manual available for Pointools Edit for only $50! Also Archway is offering a 2 day training class at Archway's office in Huntington Beach for just $900 on April 10th-11th.

This class will cover all that Pointools Edit can do! You will learn to use Pointools Edit's tools to go through a typical workflow using point clouds after the scan data is captured, including processing and editing, reusing, and collaborating through visualization and animation. Specific topics include: Navigation and control, Interface and Tools, Segmenting, Visualizing, Recoloring, Animating and Resuing the Point Cloud.

Contact Archway today if you are interested in taking this class, would like to purchase a Pointools Edit manual, or would just like more information.

A classroom point cloud being edited in Pointools Edit

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**
  - ◊ **Dates** — 3/20 to 3/23; 5/1 to 5/4; 6/5 to 6/8; 7/17 to 7/20; 8/21 to 8/24 & 9/25 to 9/28
- **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**
  - ◊ **Dates —** 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; & 9/5 to 9/7
- **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 SS1** — 5/29 to 5/30; 7/5 to 7/6; & 8/29 to 8/30
- **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 —** 6/12 to 6/15 & 9/11 to 9/14
- **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** — 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 $1200. 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 $500. Location: **HB**
  - ◊ **Dates** — 4/19
- **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** — 5/1; 6/6; & 8/28

- **Rail Track Fundamentals** — This course introduces designers to use Bentley Rail Track Software for rail design projects. Cost is $1500. Location: **HB**
  - ◊ **Dates** — TBD
- **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 $1250 Location: **HB**
  - ◊ **Dates** — 2/14 to 2/15; 4/17 to 4/18; 5/31 to 6/1; 7/25 to 7/26; & 9/18 to 9/19
- **InRoads Fundamentals** — This class is to introduce civil engineering designers to InRoads software for road design projects. Cost is $1500. Location: **HB**
  - ◊ **Dates** — 3/7 to 3/9; 5/22 to 5/24; 7/24 to 7/26; & 9/19 to 9/21
- **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** — 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** — 3/22 to 3/23
- **InRoads Plans & Production** — This course takes users through the process of creating and annotating plan and profile sheets with InRoads Cost is $500. Location: **HB**
  - ◊ **Dates** — TBD

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

Bentley Bash Recap

This year we had over 260 attendees at our 4th annual Southern California Bentley Bash on January 20-21 at Rio Hondo College in Whittier, CA. This was an incredible year with over 20 different classes being offered from 16 exceptional Bentley certified instructors.

Each year has gotten better and better, and as is the trend, this year was the best yet. Though we had some rain to deal with in the morning, the spirits were high and a lot of knowledge and experience with Bentley products was gained.

We also added a Friday evening "Mini-Bash" session this year, which proved to be a great success as we had over 100 attendees to this session alone. Adding this session, offered attendees three opportunities to engage in learning and updating themselves on the best that Bentley software has to offer.

The morning began with a welcome from the Dean of Technology at Rio Hondo, Michael Slavich, and Professor, Jay Sunyogh. After an exceptional round of morning workshops, lunch was served.

During lunch, Tom Lazear conducted a 30 minute briefing on Bentley Update as well as the change of the SoCalBUG President from Maria Payne, Senior Engineer at LA County Sanitation to new co-chairs Michael Kolster, CAD Manager at Port of Long Beach, and Angela Snider, West Coast ProjectWise administrator at Hatch Mott Macdonald.

This was followed by a Q&A by a panel of Bentley experts including Samir Haque, Jerry Flynn, Joey LouAllen, and Sam Hendrick. Then the 18 door prizes for professionals, as well as two student kits, were handed out during lunch also.

Danny Lazear of Archway teaching Point Cloud Processing on Friday evening at the 2012 Bentley Bash Mini-Bash

With another round of exceptional workshops in the afternoon, the Bentley Bash 2012 was a successful event in all eyes. If you have any suggestions on how we can make next year's event even better, please don't hesitate to contact us. We are always looking for feedback on how we can provide a better service for you, the users.

Thank you to the sponsors: Rio Hondo, SoCal BUG, Bentley Institute, BeCareers, Professional Services, and 3D Connexion.

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

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

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.