

Thank you for your interest in MEP Force: Fabricating the Future! Please visit bit.ly/MEPForce2018 for registration and conference logistics.

Day 1 - Breakout 1: Tuesday, August 28th from 9:45am to 10:45am

CADmep: Modeling with Design Line

Speakers: David Ronson & Ronnie Bratton

Learn the basics of Design Line, a service-based Fabrication CADmep detailing tool. In this class, we will show you how Design Line works, including how to button code and button map your items. We'll also walk through the process of placing nodes and editing an existing Design Line.

eVolve Electrical: Model Conduit for Fabrication

Speaker: Adam Heon

This course will review the 2.0 eVolve conduit families and show possible workflows to model and provide the required deliverables to the field and prefabrication department. We'll cover:

- Modeling with eVolve system families
- Modeling with eVolve bent conduit & riser families
- eVolve Conduit Schedules
- Sheet creation for field & prefab

Fabrication in Revit: A Feature History

Speaker: Gabe Hernandez

Autodesk is bridging the gap between MEP Engineers and MEP Detailers transitioning this industry from a CAD-based solution to a 3D parametric solution. It's all about coordination and timing. In this session, we will discuss the evolution of features and what's new in Revit for Fabrication 2019. We'll help you understand new features and improvements to current Autodesk tools provided. We will also cover workflow improvements and what is still needed to complete a project.

CADmep: Preparing to Move to Revit

Speaker: Scott Hendricks

Let's face it: As an industry, we made a lot of mistakes when we began modeling. In this talk, we'll discuss the mistakes we made and how can we avoid them in our transition from AutoCAD to Revit.

Day 1 - Breakout 1 Continued

Model Coordination with Navisworks

Speaker: Michael Reuter

This course will go over some tips & tricks for improving your Navisworks Clash Detection Workflow. We will discuss clash test setup, grouping & naming techniques, and major issue discussions. You may even learn about some helpful Navisworks add-ins! We'll cover:

- Clash Test Setup
- Grouping, Markup & Assigning
- Clash Reporting Best Practices
- Name, Location, Viewpoint Creation
- Useful Navisworks Add-Ins (time permitting)

CAMduct: Managing your Installed Machines and NC Files

Speaker: Garrett Tice

This course will cover managing hardware on the shop floor inside of CAMduct (installed machines), as well as the NC data produced by the installed machine. We'll discuss:

- Controlling your NC Numbers for a multi-user environment
- Producing combined NC Files
- Restricting nested materials to specific table sizes

Dynamo for Mere Mortals

Speaker: Matt Dillon

Dynamo Revit empowers everyday users of Revit to accomplish a variety of complex tasks, including generative design, analysis, and data extraction and manipulation. It is also useful for everyday repetitive, mundane tasks, that while simple, can be time consuming when performed manually. This overview will provide an introduction to the Dynamo interface, visual scripting language and workflow, and provide examples of solutions for real-world, everyday challenges that every Revit user faces.

Day 1 - Breakout 2: Tuesday, August 28th from 11:00am to 12:00pm

Painless Project Setup for Revit MEP

Speaker: Matt Dillon

A successful project begins with proper Project Setup. This class will cover techniques for properly geo-locating your project with the architectural and other discipline models, level and view setup and standards automation, and an overview of content and settings that should be included in any Revit MEP project template.

Revit for Fabrication: The Basics for AutoCAD Users

Speaker: Gabe Hernandez

Back in Revit 2016, Autodesk introduced Fabrication into the Revit environment. Seeing a need to help clients understand how to approach this new environment, Applied Software's technical experts have been teaching, supporting, and mentoring MEP fabrication firms over the last 24 months. In this session, we'll show you how you can utilize Fabrication tools within Revit. You'll learn how to translate common CAD skills into your Revit experience. To begin, we will focus on how to start a project correctly and focus on common workflows to guarantee your success in Revit.

APL & Revit: Bringing Points to the Field

Speaker: Mark Petrucci

Class description coming soon!

CAMduct: Connector & Seam Setup for Manufacturing & Accounting

Speaker: Garrett Tice

In this session, Garrett Tice will cover the ins and outs of connector and seam setup, from naming all the way to ancillary setup. This class will define the different type of connections within CAMduct (IE S&D Auto, D&S Auto, Whole, Shared). You'll learn how to:

- Setup notches and apply them to connectors and standing seams
- Create ancillary data such as Flat Slip and/or Drive, and apply it to a connector

Day 1 - Breakout 2 Continued

eVolve Electrical: Working with Prefabrication Assemblies and Families

Speaker: Rick Buckman

Want to have versions of your own in-wall rough assembly families? This course will review how to make a custom family utilizing the eVolve "Create PF Assembly". This will allow users to make a family based on standards that produce a custom build sheet. We'll cover:

- Family editing
- Best approach using web content
- eVolve parameters and schedules
- Assembly sheet creation and variations

Leveraging the Revit Model for Quick & Accurate Estimates with Comfort Systems

Speaker and class description coming soon!

CADmep: Item Reports

Speaker: Ronnie Bratton

In this class, we are going to work on item reports. You'll learn how to create them from scratch, as well as filter out certain items and apply calculated fields.

Day 1 - Breakout 3: Tuesday, August 28th from 1:00pm to 2:00pm

CADmep: Database Management Best Practices

Speaker: Scott Hendricks

Odds are, if your Fabrication database is not currently out of control, it's probably headed in that direction. During this session, Scott Hendricks will talk about how you can get your database under control and keep it going in a positive direction.

eVolve Mechanical: Spooling for Fabrication Parts in Revit

Speaker: David Ronson

Join fabrication specialist and product manager David Ronson for an introduction and instructive presentation for Applied Software's newest development that delivers a new spooling solution for Autodesk Fabrication models in the Revit platform.

CAMduct: Duct Construction Specs 101

Speaker: Patrick Hendricks

In this course, we'll give an overview of the setup and maintenance of ductwork specifications, also known as pressure classes. We'll cover both the setup of base specifications for round and rectangular ductwork, the use of alternate seams and connectors, as well as separating out by length.

eVolve Electrical: Model Electrical Rooms for Prefabrication

Speaker: Adam Heon

During this session, we'll showcase current eVolve 2.0 content and features as well as future features that will provide enhancements for contractors to model and prefabricate electrical rooms. We'll cover:

- Future eVolve panelboard assemblies
- Future eVolve switchgear families
- Modeling with eVolve conduit & wireways
- Sheet creation for field & prefab

ESTmep - Best Practices for Implementing ESTmep with Comfort Systems

Speaker and class description coming soon!

Day 1 - Breakout 4: Tuesday, August 28th from 2:15pm – 3:15pm

Dynamo for Mere Mortals

Speaker: Matt Dillon

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eVolve Mechanical: Spooling for Fabrication Parts in Revit

Speaker: David Ronson

Join fabrication specialist and product manager David Ronson for an introduction and instructive presentation for Applied Software's newest development that delivers a new spooling solution for Autodesk Fabrication models in the Revit platform.

Electrical Industry Round Table Discussion

Moderators: Rick Buckman, Adam Heon, & Brett Stacks

Join the Applied Software eVolve team for an open discussion about latest trends, challenges and opportunities related to the technologies used by the Electrical industry.

CAMduct: Stiffener Setup for Manufacturing/Accounting

Speaker: Garrett Tice

During this course, Garrett Tice will cover Stiffener setup inside of CAMduct from start to finish. Learn how to setup your tie rods for accurate reporting values, for both manufacturing and accounting/costing. You'll learn how to:

- Create tie rod data including weight and cost
- Create external angle iron data including weight and cost
- Create a stiffener and gain an understanding of the "Breakpoints" window and how to apply tie rod and angle data to a stiffener

Autodesk Recap - Point Clouds Tips & Tricks

Speaker: Mark Petrucci

Class description coming soon!

Day 1 - Breakout 4 Continued

ESTmep: Costing Data and How It Works Featuring Murphy Company

Speaker: Greg Murphy

This class will be for those who need to implement, maintain or better understand Costing Data within ESTmep. You will gain a deeper understanding of how the pricing tables work and look as some of the options within the tables. We will discuss Breakpoints vs Product Listed tables as well as the pros and cons of each. You'll learn how to setup discounts and how to manage your breakpoint or product listed tables using Excel. Then, we'll show you how to test these items for costing and labor reporting. If you've ever wondered how to use the Product Information Editor (MapProd) or what it can be used for, don't miss this class.

CADmep: Linear Nest Reports

Speaker: Ronnie Bratton

In this class, we are going to work on Linear Nest Reports. We'll show you how to create them from scratch, as well as filter out certain items and apply specific fields as needed.

Day 1 - Breakout 5: Tuesday, August 28th from 3:30pm to 4:45pm

Mechanical Industry Round Table Discussion

Moderators: Scott Hendricks, Garrett Tice, David Ronson, & Brett Stacks

Join the Applied Software fabrication team for an open discussion about latest trends, challenges and opportunities related to the technologies used by the Mechanical industry.

Collaboration in the Cloud: BIM 360 Design for MEP Users

Speaker: Gabe Hernandez

BIM 360 Design is the latest cloud collaboration and data management tool in the AEC industry, combining all cloud services for all BIM 360 products on a single platform. This session will cover the MEP user experience in BIM 360 Design to help you break down barriers with real-time collaboration and coordination. For current users, we'll highlight changes and how these changes will affect your projects. We'll review the document management module and project setup. Additionally, we'll show you how you can control visibility and track changes to keep all users on the same page.

CAMduct: Insulation Station - Insulation Setup

Speaker: Patrick Hendricks

In this course, we will cover the general setup of your insulation materials. This will include their base settings like thickness, weight, and machine restrictions for cutting. Additionally, we will cover how you can adjust your insulation developments to fit your specific needs.

Revit: Dynamo and automating processes with Comfort Systems

Speaker and class description coming soon!

Day 2 - Breakout 1: Wednesday, August 29th from 9:30am – 10:30am

Introduction to the BIM 360 Platform

Speaker: Clinton Cook

This class will cover an introduction to the BIM 360 Platform with a focus on Document Management. We will also explore other modules available on the BIM360 Platform and functions and purposes they server to a project. Topics covered include:

- Document Management, including: Plans, Project Files, 3D models, Markups, and Model Comparison
- Design
- Model Management
- Field Management
- Project Management
- Project Home
- Insight

eVolve Mechanical: Renumbering and Annotations for Fabrication Parts in Revit

Speaker: David Ronson

In this session, David Ronson will showcase Applied Software's newest development that delivers fitting renumbering and we will also cover tips and tricks to place annotations for Autodesk Fabrication parts in the Revit platform.

CADmep: Spooling

Speaker: Ronnie Bratton

In this class, we will cover Spooling Setup. We will walk through the process of spooling and setting up a spool template as well as a spool BOM that will allow you to report everything you need, including job information.

CADmep/ESTmep: The power of Excel in Fabrication Featuring Limbach

Speakers: Richard Davis & Ken Taylor

During this session, Ken Taylor and Richard Davis will show you how to use Excel to build fabrication parts. They'll show you tricks like how to export from a PDF using Bluebeam to build tables and modify the table to build equipment like a VAV box.

Day 2 - Breakout 1 Continued

Dynamo for Mere Mortals

Speaker: Matt Dillon

Dynamo Revit empowers everyday users of Revit to accomplish a variety of complex tasks, including generative design, analysis, and data extraction and manipulation. It is also useful for everyday repetitive, mundane tasks, that while simple, can be time consuming when performed manually. This overview will provide an introduction to the Dynamo interface, visual scripting language and workflow, and provide examples of solutions for real-world, everyday challenges that every Revit user faces.

CAMduct: Ancillary Reports

Speaker: Garrett Tice

This course will display how to pick up data generated in 2 earlier courses, "Connector & Seam Setup for Manufacturing & Accounting" and "Stiffener Setup for Manufacturing/Accounting". Learn how to configure an ancillary report to pick up totals for ancillary data across a job. We'll show you:

- How to create a new ancillary report
- The ways your data can be collected
- Filters, or how to exclude certain data from a given report
- How to setup multiple tables within a given report

eVolve Electrical: Modeling Underground for Fabrication

Speaker: Adam Heon

This course will showcase eVolve 2.0 content and features as well as future eVolve content that will provide enhancements for contractors to model and prefabricate underground electrical conduit. This course will cover:

- Future eVolve underground assemblies
- Modeling with system eVolve conduit
- Sheet creation for field & prefab

Day 2 - Breakout 2: Wednesday, August 29th from 10:45am – 11:45 am

CADmep: Scripting 101

Speakers: Garrett Tice

This course will display how to create simple scripts within any Fabrication product to change or add additional information to the items within a job. You'll learn how to:

- Isolate a given pattern through a script
- Lock or unlock connections via script
- Manipulate (add change remove) custom data with a script
- Change a seam based off of material/gauge

Applied Software's Autodesk Survival Kit

Speaker: Jason Porter

Applied Software provides technical support to our clients across the U.S. and created a survival kit to assure that your team experiences a smooth transition to Autodesk Software and periodic updates. This course is primarily for CAD Managers, IT professionals who manage installations for companies, or individuals who manage their Autodesk software. We'll discuss proper installation procedures, troubleshooting tips, how to find and install updates to the Autodesk software, and more. This course will cover both single-user (standalone) and multi-user (network) installs.

How to Keep Your Job Using Revit

Speaker: Matt Dillon

While losing one's job due to not following best practices for using Autodesk Revit would actually be a bit draconian, life can become unnecessarily frustrating and stressful when your models are bloated, corrupt and difficult to navigate. This class will point out common errors that even experienced Revit users make and ways to avoid them to keep your file sizes small, your data integrity intact, and your life much less stressful. Easy to implement, but powerful productivity tips will also be shown.

CADmep: Design Line Button Mapping

Speaker: Scott Hendricks

Are you having a hard time understanding the Design Line button mapping? Don't worry, I was just as lost when it was first introduced, but I now understand it and am here to help you understand it also. During this one hour session, I'll turn you into button mapping masters.

Day 2 - Breakout 2 Continued

Model Coordination in BIM 360 Glue

Speaker: Michael Reuter

This course will cover the basic BIM 360 Glue Clash Detection workflow. You will learn how to find, markup, notify your team & even resolve the clash in Revit. We'll cover:

- Glue Clash Tests
- Grouping & Ignoring
- Markup & Comments
- Notifying Responsible Parties
- Clash PinPoint

CAMduct: Insulation Station, Printing Labels, Label and Printer Setup

Speaker: Patrick Hendricks

In this course, we will go over the steps required to create and customize your own labels. This entails both the appearance of your labels, their sizes, and paper orientation. In addition, we'll cover specifying printers and printer settings.

eVolve Electrical: Kitting with eVolve

Speaker: Rick Buckman

Tired of wasting material on BIM projects? If you're not kitting your material through eVolve, then you're missing out. In this session, you will learn how you can benefit from the kitting process and export material by room, space or defined area. We'll cover the following topics:

- Project set up
- How it works
- Room workflow options
- Material schedule options
- Sheet deliverables

Day 2 - Breakout 3: Wednesday, August 29th from 12:45pm to 1:45pm

eVolve Mechanical: Point Management and Export for Fabrication Parts in Revit

Speaker: David Ronson

In this session, fabrication specialist and product manager David Ronson will introduce Applied Software's newest development that delivers automated point renumbering and RTS exports for Autodesk Fabrication parts in the Revit platform.

Collaboration in the Cloud: BIM 360 Design for MEP Users

Speaker: Gabe Hernandez

BIM 360 Design is the latest cloud collaboration and data management tool in the AEC industry, combining all cloud services for all BIM 360 products on a single platform. This session will cover the MEP user experience in BIM 360 Design to help you break down barriers with real-time collaboration and coordination. For current users, we'll highlight changes and how these changes will affect your projects. We'll review the document management module and project setup. Additionally, we'll show you how you can control visibility and track changes to keep all users on the same page.

CADmep: RME to FAB

Speaker: Scott Hendricks

Revit to Fabrication has been around for a few years now, yet many companies have not adopted it. In this class, Scott Hendricks will show why you should be using Revit to Fab, including how it can save time on your projects.

Next Generation Cloud Collaboration with BIM 360 Design

Speaker: Matt Dillon

Today's building projects are becoming more and more complex, involving a large group of geographically dispersed stakeholders and team members. Autodesk's BIM 360 Design addresses today's collaboration challenges with a mature bundle of tools that provides a "single source of truth" and allow for project members to gain access to their data from the desktop as well as mobile devices. Revit users can collaborate real-time with cloud-hosted building models. This session will compare legacy BIM 360 Team capabilities with BIM 360 Design, provide an overview of BIM 360 Design's workflow and Revit integration for design team cloud collaboration for Architects and Engineers, focusing on the new Design Collaboration service and Revit Cloud Collaboration.

Day 2 - Breakout 3 Continued

eVolve Electrical: Customer Feedback Session

Moderators: Rick Buckman & Adam Heon

Join Applied Software's eVolve team for an open discussion about eVolve 2.0 and beyond. This session will be an open forum for eVolve users. We'll discuss the pro's and con's of eVolve 2.0 from a user's prospective and discuss the future of eVolve's development.

CAMduct: Insulation Station, Printing Labels, Label and Printer Setup

Speaker: Patrick Hendricks

In this course, we will go over the steps required to create and customize your own labels. This entails both the appearance of your labels, their sizes, and paper orientation. In addition, we'll cover specifying printers and printer settings.

Are you ready to answer the call?

Visit bit.ly/MEPForce2018 to register for MEP Force today. Use promo code **MEPCourses** to save \$605 through Friday, June 29th, 2018**.

After you register on Eventbrite, you will immediately be redirected to our session selection page on Boomset to choose your sessions. If you've already registered and weren't able to choose sessions yet, please email marketing@asti.com and we will send you a Boomset confirmation email that contains your course registration link. The link is specific to you, so don't share it with coworkers!

Don't forget to book your hotel room!

We've reserved a room block onsite at the Omni Austin Hotel Downtown for your convenience. Rooms start at \$189 per night. [Click here to book your room now >](#)

**Breakout sessions topics and times are subject to change. More breakout sessions will be added. Attendees will be able to reserve sessions prior to the conference and will be able to update their selected sessions.*

***This promo code will expire on Friday, June 29 at 8:30pm EDT. Full price for the conference is \$1600 per attendee.*