

**THE
TECH
TOUR**

CMI's One-Day Learning Experience.
Fresh Topics. Solution-Based Sessions.

Come see a dozen different 75 minute sessions focused on solutions to issues you face every day with your designs, presented by experts in the industry. You will walk away with valuable information that you can apply to your work immediately. Don't miss these sessions...and lunch is provided!

BALTIMORE, MD	HERNDON, VA
Tuesday, October 20th	Wednesday, October 21st
Pier V Hotel 711 Eastern Avenue Baltimore, MD 21202	Center for Innovative Technology 2214 Rock Hill Road Herndon, VA 20170

To Register:

























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TIMES	SESSIONS		
9:00am - 10:15am	Rapid Building Performance Analysis ^{NEW!} 	FM:Systems Overview  	Optimizing Projects in AutoCAD Architecture ^{NEW!} 
10:30am - 11:45am	Presentation Graphics in Autodesk Revit Architecture ^{NEW!}   	AutoCAD Tips & Tricks and Dynamic Blocks ^{NEW!} 	Integrated Project Workflow: A Birdseye View of Working in Construction ^{NEW!}    
12:00pm - 1:00pm	Lunch sponsored by RPG 		
1:00pm - 2:15pm	BIM Coordination with Architecture and Civil ^{NEW!}  	Dispelling the Myths of Revit MEP 	Autodesk Structural Solutions ^{NEW!} 
2:30pm - 3:45pm	Revit Model Management and Best Practices ^{NEW!}   	Road Design Solutions 	Revit Family Techniques   

TRACKS

Each of the sessions fits into one or more of the following tracks, so you can attend the ones pertinent to your industry



Rapid Building Performance Analysis

T.J. Meehan, AIA, LEED AP

SOFTWARE:

Revit Architecture
Ecotect Analysis
Green Building Studio

INDUSTRY/COMPANY:

Architecture



Learn how to take a BIM model and quickly perform a variety of preliminary building performance analyses including energy, water, and daylighting. This session will walk participants through the process of creating a simple building model to be used as a baseline for estimating building efficiency.

- Learn the best ways to quickly model in Revit for analysis
- See different methods for getting your model into Ecotect Analysis and Green Building Studio
- Discover several techniques for analyzing your model in Ecotect Analysis
- Understand the kind of data you can get from Green Building Studio

FM:Systems Overview

Kurt Von Koch (FM:Systems)

SOFTWARE:

FM:Systems

INDUSTRY/COMPANY:

Facility Managers
Architecture



FM:Systems offers two powerful solutions to address the needs of workplace professionals – the FM:Interact and FM:Space software suites. FM:Interact, a modular suite of web-based applications, allows organizations to access and analyze facilities, real estate and maintenance information in real-time. FM:Space is seamlessly integrated with AutoCAD and allows facilities and real estate groups to better manage facilities, real estate, and maintenance information and processes as a departmental solution.

- Securely deploy employee information, floor plans, reports, and critical documents that extend the reach and value of facilities information
- Track critical information about lease agreements and properties such as lease expiration and renewal dates
- Track and analyze corporate assets such as furniture, equipment, computers, life safety systems, building systems and artwork
- Analyze current space requirements and forecast future space needs
- Finding vacancies and redeploying space

Optimizing Projects in AutoCAD Architecture

Sondra Pires, LEED AP

SOFTWARE:

AutoCAD Architecture

INDUSTRY/COMPANY:

Architecture



Learn how to take advantage of the Project Navigator to organize and streamline your work in AutoCAD Architecture 2010. This session will walk participants through the process of creating a new project, exploring the file types and organizational structure of the Navigator, and then link all of this together.

- Learn about Distributed Building Information Modeling (BIM)
- Discover project creation and gain familiarity with the organizational structure of file type
- Understand where various types of information belong within the project files

Presentation Graphics in Autodesk Revit Architecture

Marie Fisher, LEED AP

SOFTWARE:

Revit Architecture
Revit MEP
Revit Structure

INDUSTRY/COMPANY:

Architecture



In this session, you'll see techniques for using Autodesk Revit Architecture to create dramatic presentation graphics. Just by mastering a few tools and techniques, you can leverage your existing model to make your firms presentations more interesting, compelling, and engaging.

- Sprucing up Flat Views
- Tips for 3D views
- Creating Blocking and Stacking Diagrams
- Using Transparencies to Show Unique Conditions
- Using Masses and Colors to Show Design Intent
- Exploded Axons

AutoCAD Tips & Tricks and Dynamic Blocks

Stephanie Shepherd

SOFTWARE:

AutoCAD
AutoCAD Architecture
AutoCAD MEP
AutoCAD Civil 3D

INDUSTRY/COMPANY:

Anyone using an AutoCAD-based Solution



In this session, you learn how to increase productivity and streamline your drafting process with a few simple AutoCAD tips and tricks while using dynamic blocks. Participants will learn how and why we use dynamic block, easy methods of adjusting your legacy blocks to make them more useful, and how to extract pertinent information from your dynamic blocks.

- What is a Dynamic Block and Why Use One
- Working with Parameters and Actions
- Creating Dynamic Blocks
- Changing Legacy Blocks to Dynamic Blocks
- Extracting Data from Dynamic Blocks

Integrated Project Workflow: A Birdseye View of Working in Construction

Jason Dodds (Autodesk)

SOFTWARE:

AutoCAD
Revit
Navisworks
Quantity Takeoff

INDUSTRY/COMPANY:

Construction
Architecture
Engineering
Estimating



In this session, you will see how Autodesk's tools are helping the Construction Industry to grow in new dimensions by meeting tighter deadlines and increasing project communication. Expect to gain insight into overall project workflow between design and construction and understand some of the specifics of a day in the life of a construction project. We will explore clash detection, 4D simulation, estimating, and overall project workflow.

- Clash Detection with Navisworks
- Estimating with Autodesk Quantity Takeoff
- 4D Simulation with Timeliner
- Integrated Project Workflow
- Design Model vs. Construction Model

BIM Coordination with Architecture and Civil

Marissa Jenkinson & T.J. Meehan, AIA, LEED AP

SOFTWARE:

Revit Architecture
AutoCAD Civil 3D

INDUSTRY/COMPANY:

Architecture
Civil Engineering



In this session, you will learn how architects and civil engineers can use the power of Autodesk's BIM products to work collaboratively on site building projects. See how intelligent site data created in AutoCAD Civil 3D 2010 can be accurately used in Autodesk Revit Architecture 2010. Also, see how building and coordinate data from Revit Architecture can be used in Civil 3D to complete site analysis and visualization.

- Point Import and Surface creation in Civil 3D
- File preparation and insertion into Revit Architecture
- Using site data in Revit Architecture to establish topography and coordinates
- File preparation and Building shell import into Civil 3D

Dispelling the Myths of Revit MEP

Mike Jeon, CSI, CDT

SOFTWARE:

Revit MEP

INDUSTRY/COMPANY:

Mechanical/Electrical/Plumbing
Engineering
Architects working with MEP Engineers



For MEP engineers, the idea of moving towards a new application to stay competitive can appear daunting. This session will cover common misconceptions about Revit MEP and provide insight and solutions to real world situations.

- Revit is the new AutoCAD, only better
- See how drawing in 3D and 2D is not double the work, but can increase production with the same input
- Revit, a design tool or a production tool? We will show how it fits both parts.
- Interference checking can help eliminate change orders
- Revit can save time and money on your projects

Autodesk Structural Solutions

Christopher Fernandez

SOFTWARE:

Revit Structure
Robot Structural Analysis
AutoCAD Structural Detailing

INDUSTRY/COMPANY:

Structural Engineering



Autodesk building information modeling (BIM) software helps structural engineers share information with architectural and mechanical, electrical, and plumbing systems designers. The result is better project coordination with fewer errors and less disruptive changes. Autodesk Revit Structure software integrates a physical model with an independently editable analytical model for efficient analysis, design, and documentation. Bidirectional linking to structural analysis software enables accurate model updates, while parametric changes coordinate those updates across your documents. Autodesk Robot Structural Analysis Professional is collaborative, versatile, and efficient software that complements your structural model. With it, you can seamlessly analyze even your most complex structures.

- See how using a single model saves time and almost eliminates coordination errors
- Understand how an architect's change affects your model
- Discover how to utilize many tools for structural detailing
- See how to bidirectionally link with analysis packages

Revit Model Management and Best Practices

Christopher Fernandez

SOFTWARE:

Revit Architecture
Revit Structure
Revit MEP

INDUSTRY/COMPANY:

Anyone using a Revit-based solution



Like most design tools, Revit's performance can depend as much on the knowledge, skill, and practices of its users as on the hardware the software is utilizing. Since no two buildings are identical, there are no two models of buildings that are precisely identical in the tactics and strategies that will yield the best performance.

- Understand hardware requirements and recommendations
- See how to optimize the Windows environment
- Learn model component recommendations
- Discover best practices for linking Revit and DWG files
- Learn smart steps to upgrading projects
- See the best ways to collaborate for faster models

Road Design Solutions

Marissa Jenkinson

SOFTWARE:

AutoCAD Civil 3D

INDUSTRY/COMPANY:

Civil Engineering



Road design software solutions from Autodesk can significantly accelerate project delivery and shorten road design timeframes. As changes are made, AutoCAD Civil 3D automatically updates all project documentation, improving efficiencies, and maximizing productivity. See how you can complete projects up to 75% faster by:

- Reducing intersection design layout time using wizards and pre-existing content
- Managing variable design and drafting standards
- Reducing re-work using intelligent data
- Delivering construction documentation more efficiently
- Automatically generating accurate material calculations and pay tables

Revit Family Techniques

Cara Vargas

SOFTWARE:

Revit Architecture
Revit MEP
Revit Structure

INDUSTRY/COMPANY:

Anyone using a Revit-based solution



See examples on creating Revit Families from the basic to the advanced. Learn the basics of parametric families, and then build on those techniques to create dynamic, intelligent content.

- See tips for pre-planning and family set up
- Learn how to make the geometry "flexible"
- Discover proper 3D modeling techniques
- Learn about using 2D symbolic geometry
- Understand how to use formulas and arrays
- Utilizing type catalogs
- Plus more!