

**DEVELOPMENT TRACKS INCLUDE:**

- ▶ Cloud Computing
- ▶ Database and Analytics
- ▶ Design
- ▶ Microsoft Sessions
- ▶ Mobile Client
- ▶ Visual Studio / .NET
- ▶ Web Development
- ▶ Windows Client



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## A MESSAGE FROM THE CONFERENCE CO-CHAIRS

**IT'S AN EXCITING TIME** to be a .NET Developer. Microsoft has open sourced .NET and partnered closely with Xamarin to get .NET onto non-Windows platforms. The company has created a major new version of ASP.NET, ASP.NET 5, evolved Microsoft Azure at breathtaking speed, and provided amazing new ALM capabilities in Visual Studio, TFS, and Visual Studio Online. This just scratches the surface of all the ongoing activity!

We're Andrew Brust, Rocky Lhotka, and Brian Randell, Conference Co-Chairs for Visual Studio Live! Redmond, and we'd like to personally invite you to join us this August at Microsoft Headquarters in Redmond, WA. We'll have some of the best content and speakers that you'll find at any technical conference—including an entire track of sessions delivered by Microsoft product team members themselves—covering the topics that are important to you.

If you're a .NET smart client developer, XAML, Windows Runtime (WinRT), and Xamarin are all critical technologies you need to know.

If you're a Web and JavaScript developer, this is one of the most exciting and rapidly changing areas of technology. You can never rest on your existing knowledge because there's always something new you must learn to remain current.

If you're a mobile developer, whether you build native apps, .NET apps with Xamarin, or even HTML/JavaScript apps, you need to remain current on the latest tools and technologies to

provide your customers and users with the best apps you can create.

If you're working with SQL Server for your transactional, line of business needs, or if you're work with data demands more capabilities and reach, we've got you covered with an entire track devoted to database and analytics.

Regardless of what types of apps you create, you need solid process, testing, source code management, and tooling to make you and your team truly effective. We've got content covering Visual Studio 2013 and 2015's ALM capabilities and Git support, TFS and Visual Studio Online from several angles, web-based testing, and more.

Then there's Microsoft Azure, which affects us all, no matter what type of app creation you specialize in. The capabilities steadily grow while the costs decrease, but with continual enhancements, there's always something new to learn. The value of Azure is something you can't afford to ignore, especially if you have an MSDN subscription.

As a bonus, Visual Studio Live! is bringing you an entire track dedicated to Microsoft-led sessions, to learn the latest and greatest from those truly in the know. These sessions will remain "under construction" and will be filled in as announcements are made at Build, Ignite, and other important Microsoft events that precede Visual Studio Live! in Redmond.

There's nothing like being in the same room with a speaker as they cover key technologies. Having access to speakers in person during sessions, in the hallway, or over lunch is something you can't get from Internet-based content or other live events.

Your career deserves the content and interaction you'll find at Visual Studio Live! Redmond.

We hope to see you there!



Andrew Brust  
Senior Director, Datameer  
Visual Studio Live! Conference Co-Chair



Rockford Lhotka  
CTO, Magenic  
Visual Studio Live! Conference Co-Chair



Brian A. Randell  
Partner, MCW Technologies  
Visual Studio Live! Conference Co-Chair

# Top

## REASONS TO ATTEND Visual Studio Live! Redmond

**1 WE HAVEN'T BEEN AROUND FOR 20+ YEARS FOR NOTHING.** Visual Studio Live! is an event that you and your colleagues know and trust.

**2 FUEL UP FOR LESS.** Get 5 days of developer-focused education for an incredible low price!



**3 WATCH YOUR BLIND SPOT.** Get perspective, from every angle. That's why you'll get to hear from both unbiased industry experts and Microsoft insiders at your sessions.

**4 SO MANY TOPICS; SO LITTLE TIME.** Visual Studio Live! offers a great selection of educational sessions for comprehensive training on Visual Studio / .NET, Web Development, Design, Database Analytics, and more.

**5 WORK THE WORKSHOPS.** You'll get to the nitty-gritty of today's hot .NET topics during pre- and post-show workshops.

**6 HOME GROWN HEROES.** Sit down for some one-on-one time with the likes of Andrew Brust, Miguel Castro, Billy Hollis, Brian Randell, and Deborah Kurata. Speakers at Visual Studio Live! are always able and willing to talk to you outside of sessions—it's a great opportunity to get insightful, on-point answers to some of your burning questions!



**7 IT IS VISUAL STUDIO LIVE! AFTER ALL.** Visual Studio 2015 promises to be an exciting release with new versions of Visual Studio, TFS, and continued updates to VSO, not to mention Microsoft's exciting venture into more open source and cross-platform development. From ALM to DevOps and core code cutting, Microsoft has a ton of new stuff that you need to learn, and Visual Studio Live! gives you the information you need to understand and leverage the power of .NET, Visual Studio, ALM, DevOps, and the .NET Framework today and into the future.

**8 GET THE INSIDE TRACK.** This year, we are offering a dedicated Microsoft Sessions track, which features 10+ sessions led by Microsoft experts. This is your chance to get the scoop on what's happening on the Microsoft and developer landscape—straight from the source!



**9 NAVIGATE THE .NET HIGHWAY WITH NEW FRIENDS.** Developers, engineers, programmers, software architects and designers from all over the world will all be at the conference—take advantage of the meals and networking events to get to know your colleagues.

**10 CODE HOME!** See the sights you've always heard about from the idyllic Microsoft Headquarters!



# Activities

**YOUR ATTENDANCE AT VISUAL STUDIO LIVE! REDMOND** is about learning from your peers as well as the experts; make the most of your time with us and add these events to your itinerary!

## ACCESS TO THE MICROSOFT COMPANY STORE

*You bring the money, we get you special access!\**

**Monday, August 10  
& Thursday, August 13**

All Visual Studio Live! Redmond event attendees will have the opportunity to visit the Microsoft Company Store during their time at the conference and have access to the employee-only discount area. The company store's discount area is typically only open for Microsoft employees to purchase select Microsoft products at discounted prices, so you won't want to miss out on this great opportunity!

Popular home-use software titles such as Windows 8, Office 2010, Office for Mac, and Streets and Trips are available. XBOX 360 accessories and a selection of XBOX games are offered at significant savings. At the Redmond campus location, you will find one of the largest selections of Microsoft-branded PC hardware in any retail store. PC Hardware offered includes Keyboards and desktop sets, Mice, Webcams and more.

Visual Studio Live! Redmond event attendees will qualify for a pass that allows them access to the special discounts normally reserved only for Microsoft employees. Due to the amazing deals, each attendee is allowed to spend up to a maximum of \$120.

## VISIT THE MICROSOFT VISITOR CENTER

The Microsoft Visitor Center is open to all employees and visitors to the Microsoft campus. Come share in the excitement of their discoveries, explore some of the latest products, and meet some of the people whose ideas and creativity make Microsoft a world leader in computer and software industry.

## MEET THE PROS

Let's face it—our talented team of speakers is the main reason you head to Visual Studio Live! events. They share your interest in the latest technologies while refusing to abandon challenging applications out there already. So why not get to know them in a different light during the breaks and networking opportunities we have planned for you in Redmond? Kick back with the people who love sharing their knowledge and experience to help you get where you want to be professionally.



*\*Restrictions apply:*

*Attendees will be given a voucher/form that allows them access to the employee only discount area to spend up to \$120 of their own money on select Microsoft products.*

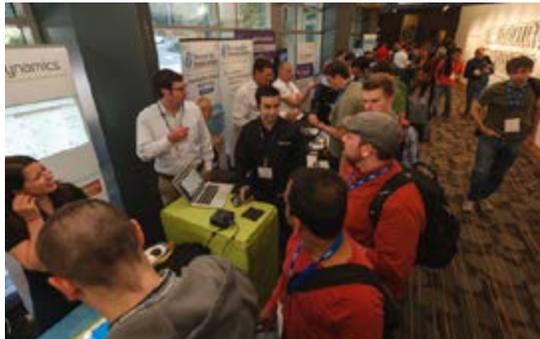
*All attendees must have a valid driver's license that matches the name on the voucher.*

*If using a credit card for payment, the name on the card must match the name on your voucher and identification.*

*If you are employed by a government agency or a school or university, you are not eligible for the discount pass due to Microsoft policy.*

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# Events



## LUNCH WITH THE BLUE BADGES

**Monday, August 10 & Thursday, August 14**

On Monday and Thursday, Visual Studio Live! attendees will have the opportunity to have lunch with the Blue Badges at The Mixer, the Microsoft employee lunch area with over 10 different restaurant options to choose from. These two extended lunch periods are also the perfect time to visit the Microsoft Visitor Center and the Microsoft Company Store. Shuttle service to and from the Commons, as well as a pre-loaded lunch card will be provided as part of your Visual Studio Live! registration.

## DINE-A-ROUND DINNER

**Monday, August 10**

Join other conference attendees and speakers for a casual, no-host dinner and make a few new friends while enjoying the fun and delicious restaurants in the Bellevue area. This is your opportunity to meet fellow attendees and start friendships that can last for the week or even longer. Attendees can break into smaller groups based on where everyone wants to dine and head off to dinner. Everyone is responsible for their own dinner.

## MICROSOFT ASK THE EXPERTS & WELCOME RECEPTION

**Tuesday, August 11**

Visual Studio Live! Redmond's Exhibitor Reception will be combined with a two-hour Microsoft Ask the Experts session, where you'll get a chance to talk with Microsoft product team members and speakers. Enjoy drinks and snacks while you explore the Visual Studio Live! exhibits, network with fellow attendees and get answers to your questions for the experts and the exhibitors.

## BIRDS-OF-A-FEATHER LUNCH

**Wednesday, August 12**

Enjoy lively lunchtime discussions by joining one of our table topic conversations. Tables will have a designated topic to help start discussions and interact with your fellow attendees. You may even learn a new trick or two or some great tips to take back to the office.

We will also have designated speaker tables— noted with the speakers name. Join your favorite speaker for a lunchtime discussion or just to ask questions or clarify anything from their sessions. All seating is on a first come basis. Enjoy!



## BIRDS OF A FEATHER TABLE TOPICS:

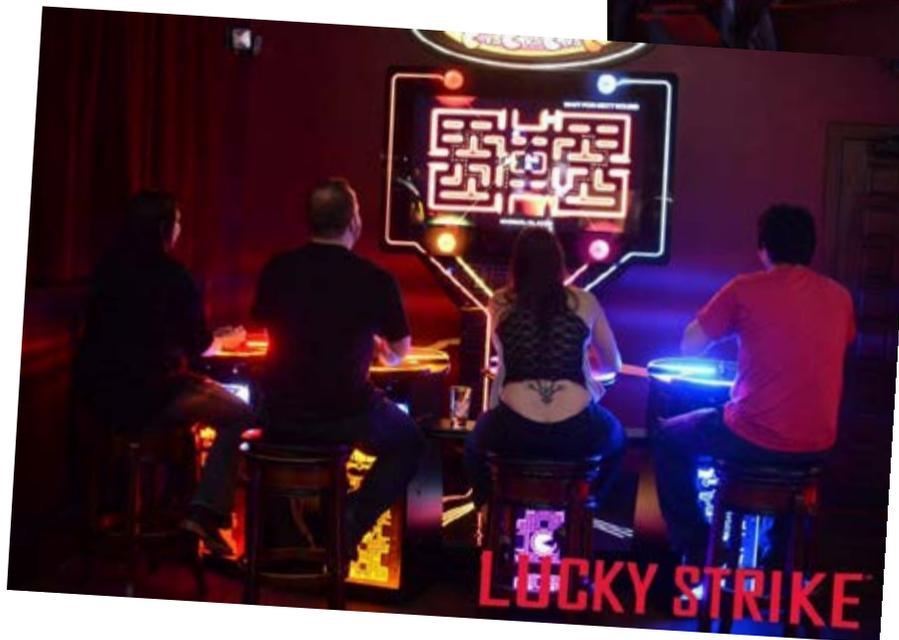
- Message Pumps and hWnds, OnPaint and MVVM, I still want great Windows Clients—do you?
- Metro, modern, or Universal—can it be a great client for Windows?
- End to end, a modern app is more than just UI — let's talk Services.
- Of layers and tiers, bits and bytes, how do you build a modern app?
- What's your favorite framework of the month?
- CSS, LE SS, SASS—web based UI is wonderful—or is it infuriating?
- What do you call your process? Old School? Agile with a little "a"?
- Dev and Ops—a new Romeo and Juliet? Or can we just 'let it go'?
- What's your favorite feature of Visual Studio? What makes you crazy?
- Open source .NET ? They'll never do that ... oh wait! They did! Discuss.
- Is this thing on? Own a Windows Phone? Come share your favorite apps.
- Cordova? Xamarin? Web? Native? Hybrid? Discuss!
- From Windows Phone to Windows on phones. What's new, what's the same, and what's the uptake?
- ASP.NET 5: what is it, a total reboot?
- ASP.NET on Linux and Mac: what's in it for me?
- Is Azure beating AWS in the Enterprise?
- All or nothing? Cloud-only and cloud-averse companies square off.
- NoSQL: Fad, mere feature set, or category here to stay?
- Big Data, Hadoop and machine learning: what's it all about?
- What's happening to LightSwitch?
- Are cloud business apps a safe way to use LightSwitch? Is LightSwitch a reliable way to do SharePoint development?

# ROCK AND ROLL WITH US!

## LUCKY STRIKE EVENING PARTY

**Wednesday, August 13**

Code by day, roll your way to fun Wednesday night! Head to Lucky Strike in Bellevue (located next to the conference hotel) for a rousing good time. Network with your fellow attendees and speakers, bowl a few frames, shoot a little pool or channel your inner teenager at the arcade. Plus, enjoy food, drinks and a great atmosphere!



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## AGENDA AT-A-GLANCE

Cloud Computing	Database and Analytics	Design	Mobile Client	Visual Studio / .NET	Web Development	Windows Client	Microsoft Sessions
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START TIME	END TIME	Visual Studio Live! Pre-Conference Workshops: Monday, August 10, 2015 <small>(Separate entry fee required)</small>					
7:00 AM	8:00 AM	Pre-Conference Workshop Registration — Coffee and Morning Pastries					
8:00 AM	12:00 PM	<b>M01 - Workshop: Building Universal Apps for Desktop, Store, and Phone</b> - Philip Japikse	<b>M02 - Workshop: UX Design Process Essentials— Steps and Techniques</b> - Billy Hollis	<b>M03 - Workshop: ALM and DevOps with the Microsoft Stack</b> - Brian Randell			
12:00 PM	2:30 PM	Lunch @ The Mixer — Visit the Microsoft Company Store & Visitor Center					
2:30 PM	6:00 PM	<b>M01 - Workshop Continues</b>	<b>M02 - Workshop Continues</b>	<b>M03 - Workshop Continues</b>			
7:00 PM	9:00 PM	Dine-A-Round Dinner					

START TIME	END TIME	Visual Studio Live! Day 1: Tuesday, August 11, 2015					
7:30 AM	8:30 AM	Registration — Coffee and Morning Pastries					
8:30 AM	9:30 AM	Keynote: To Be Announced					
9:45 AM	11:00 AM	<b>T01 - Azure 10-10: Top 10 Azure Announcements in "T-10" Months</b> - Vishwas Lele	<b>T02 - Hack Proofing Your Web Applications</b> - Adam Tuliper	<b>T03 - UX Design Principle Fundamentals for Non-Designers</b> - Billy Hollis	<b>T04 - A Lap Around Visual Studio 2015</b> - Robert Green	<b>T05 - Microsoft Session</b> Details coming soon.	
11:15 AM	12:30 PM	<b>T06 - Cloud or Not, 10 Reasons Why You Must Know "Web Sites"</b> - Vishwas Lele	<b>T07 - Take a Gulp, Make a Grunt, and Call Me Bower</b> - Adam Tuliper	<b>T08 - Designing and Building UX for Finding and Visualizing Data in XAML Applications</b> - Billy Hollis	<b>T09 - What's New in ALM</b> - Brian Randell	<b>T10 - Microsoft Session</b> Details coming soon.	
12:30 PM	2:30 PM	Lunch — Visit Exhibitors					
2:30 PM	3:45 PM	<b>T11 - Building Mobile Cross-Platform Apps with C# and Xamarin</b> - Nick Landry	<b>T12 - AngularJS 101</b> - Deborah Kurata	<b>T13 - Windows, NUI and You</b> - Brian Randell	<b>T14 - Hosting ASP.NET Applications Cross Platform with Docker</b> - Adam Tuliper	<b>T15 - Microsoft Session</b> Details coming soon.	
3:45 PM	4:15 PM	Sponsored Break — Visit Exhibitors					
4:15 PM	5:30 PM	<b>T16 - Building Mobile Cross-Platform Apps in C# with Azure Mobile Services</b> - Nick Landry	<b>T17 - AngularJS Forms and Validation</b> - Deborah Kurata	<b>T18 - Building Windows 10 LOB Apps</b> - Robert Green	<b>T19 - SOLID Design Patterns for Mere Mortals</b> - Philip Japikse	<b>T20 - Microsoft Session</b> Details coming soon.	
5:30 PM	7:00 PM	Microsoft Ask the Experts & Exhibitor Reception — Attend Exhibitor Demos					

Sessions and speakers subject to change.



STAY TUNED! See page 11 for more about these exciting Keynotes and Sessions!

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**AGENDA AT-A-GLANCE** (continued)

Cloud Computing	Database and Analytics	Design	Mobile Client	Visual Studio / .NET	Web Development	Windows Client	Microsoft Sessions
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START TIME		END TIME		<b>Visual Studio Live! Day 2: Wednesday, August 12, 2015</b>			
7:30 AM	8:00 AM	Registration – Coffee and Morning Pastries					
8:00 AM	9:00 AM	<b>Keynote: To Be Announced</b>					
9:15 AM	10:30 AM	<b>W01 - iOS Development— What They Don't Tell You</b> <i>- Jon Flanders</i>	<b>W02 - Implementing M-V- VM (Model-View-View Model) for WPF</b> <i>- Philip Japikse</i>	<b>W03 - Moving Web Apps to the Cloud</b> - <i>Eric D. Boyd</i>	<b>W04 - Enhancing Application Quality Using Visual Studio 2015 Premium Features</b> <i>- Anthony Borton</i>	<b>W05 - Microsoft Session</b> Details coming soon.	
10:45 AM	12:00 PM	<b>W06 - Building Cross Platform UI with Xamarin. Forms</b> - <i>Walt Ritscher</i>	<b>W07 - To Be Announced</b>	<b>W08 - Solving Security and Compliance Challenges with Hybrid Clouds</b> - <i>Eric D. Boyd</i>	<b>W09 - Load Testing ASP.NET &amp; WebAPI with Visual Studio</b> <i>- Benjamin Day</i>	<b>W10 - Microsoft Session</b> Details coming soon.	
12:00 PM	1:30 PM	Birds-of-a-Feather Lunch — Visit Exhibitors					
1:30 PM	2:45 PM	<b>W11 - Swift for .NET Developers</b> - <i>Jon Flanders</i>	<b>W12 - Strike Up a Conversation with Cortana on Windows Phone</b> <i>- Walt Ritscher</i>	<b>W13 - To Be Announced</b>	<b>W14 - To Git or Not to Git for Enterprise Development</b> <i>- Benjamin Day</i>	<b>W15 - Microsoft Session</b> Details coming soon.	
2:45 PM	3:15 PM	Sponsored Break — Exhibitor Raffle @ 2:55 pm (Must be present to win)					
3:15 PM	4:30 PM	<b>W16 - Creating Applications Using Android Studio</b> <i>- Kevin Ford</i>	<b>W17 - Securing Angular Apps</b> - <i>Brian Noyes</i>	<b>W18 - Building for the Internet of Things: Hardware, Sensors &amp; the Cloud</b> - <i>Nick Landry</i>	<b>W19 - Not Your Grandfather's Build – A Look at How Build Has Changed in 2015</b> - <i>Anthony Borton</i>	<b>W20 - Microsoft Session</b> Details coming soon.	
8:00 PM	10:00 PM	Lucky Strike Evening Out Party					

Sessions and speakers subject to change.



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**AGENDA AT-A-GLANCE** (continued)

Cloud Computing	Database and Analytics	Design	Mobile Client	Visual Studio / .NET	Web Development	Windows Client	Microsoft Sessions
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START TIME	END TIME	Visual Studio Live! Day 3: Thursday, August 13, 2015					
7:30 AM	8:00 AM	Registration — Coffee and Morning Pastries					
8:00 AM	9:15 AM	<b>TH01 - Using Multi-Device Hybrid Apps to Create Cordova Applications</b> <i>- Kevin Ford</i>	<b>TH02 - Build Data-Centric HTML5 Single Page Applications with Breeze</b> <i>- Brian Noyes</i>	<b>TH03 - Database Development with SQL Server Data Tools</b> <i>- Leonard Lobel</i>	<b>TH04 - Stop the Waste and Get Out of (Technical) Debt</b> <i>- Richard Hundhausen</i>	<b>TH05 - Microsoft Session</b> Details coming soon.	
9:30 AM	10:45 AM	<b>TH06 - Everything You Always Wanted To Know About REST (But Were Afraid To Ask)</b> <i>- Jon Flanders</i>	<b>TH07 - Build Real-Time Websites and Apps with SignalR</b> <i>- Rachel Appel</i>	<b>TH08 - Programming the T-SQL Enhancements in SQL Server 2012</b> <i>- Leonard Lobel</i>	<b>TH09 - What's New in C# 6.0</b> <i>- Jason Bock</i>	<b>TH10 - Microsoft Session</b> Details coming soon.	
11:00 AM	12:15 PM	<b>TH11 - To Be Announced</b>	<b>TH12 - Knocking it Out of the Park with Knockout.JS</b> <i>- Miguel Castro</i>	<b>TH13 - Power BI 2.0: Analytics in the Cloud and in Excel</b> <i>- Andrew Brust</i>	<b>TH14 - Async and Await Best Practices</b> <i>- Mark Rosenberg</i>	<b>TH15 - Microsoft Session</b> Details coming soon.	
12:15 PM	2:15 PM	Lunch @ The Mixer — Visit the Microsoft Company Store & Visitor Center					
2:15 PM	3:30 PM	<b>TH16 - Extending XAML to Overcome Pretty Much any Limitation</b> <i>- Miguel Castro</i>	<b>TH17 - ASP.NET MVC: All Your Tests Are Belong To Us</b> <i>- Rachel Appel</i>	<b>TH18 - Busy Developer's Guide to NoSQL</b> <i>- Ted Neward</i>	<b>TH19 - Microsoft's .NET is Now Open Source and Cross-Platform. Why it Matters.</b> <i>- Mark Rosenberg</i>	<b>TH20 - Microsoft Session</b> Details coming soon.	
3:45 PM	5:00 PM	<b>TH21 - Agile Database Development</b> <i>- Richard Hundhausen</i>	<b>TH22 - Busy JavaScript Developer's Guide to ECMAScript 6</b> <i>- Ted Neward</i>	<b>TH23 - Big Data and Hadoop with Azure HDInsight</b> <i>- Andrew Brust</i>	<b>TH24 - Managing the .NET Compiler</b> <i>- Jason Bock</i>	<b>TH25 - Microsoft Session</b> Details coming soon.	

START TIME	END TIME	Visual Studio Live! Post-Conference Workshops: Friday, August 14, 2015 (Separate entry fee required)	
7:30 AM	8:00 AM	Post-Conference Workshop Registration — Coffee and Morning Pastries	
8:00 AM	12:00 PM	<b>F01 - Workshop: SQL Server 2014 for Developers</b> <i>- Andrew Brust and Leonard Lobel</i>	<b>F02 - Workshop: Service Oriented Technologies: Designing, Developing, &amp; Implementing WCF and the Web API</b> <i>- Miguel Castro</i>
12:00 PM	1:00 PM	Lunch	
1:00 PM	5:00 PM	<b>F01 - Workshop Continues</b>	<b>F02 - Workshop Continues</b>

Sessions and speakers subject to change.



STAY TUNED! See [page 11](#) for more about these exciting Keynotes and Sessions!

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Details coming soon!



# Keynotes

**WANT A FRONT-ROW SEAT TO THE FUTURE OF TECHNOLOGY?** We've got big plans for our keynotes this year at Visual Studio Live! Redmond. Microsoft is unveiling many exciting new updates at Build and Ignite, which will drive the topic areas for our keynote addresses. Learn what's hot on today's tech landscape and what exciting developments lie ahead for 2015 and beyond. Stay tuned for more details coming soon!

**Day One Keynote**  
Tuesday, August 11  
8:30 - 9:30 am

**Day Two Keynote**  
Wednesday, August 12  
8:00 - 9:00 am

# Microsoft-led Sessions Track

**THERE ARE MANY PERKS TO ATTENDING TRAINING AT MICROSOFT HEADQUARTERS**, and one of the biggest is getting to hear from Microsoft insiders who are "in the trenches", working with developers just like you on a daily basis. This track will feature 10 + sessions led by Microsoft experts, and are a chance to hear the newest and latest techniques from those truly in the know. Stay tuned for more details coming soon!

## Microsoft Sessions

**Tuesday, August 11**  
**T05:** 9:45 - 11:00 am  
**T10:** 11:15 - 12:30 pm  
**T15:** 2:30 - 3:45 pm  
**T20:** 4:00 - 5:15 pm

**Wednesday, August 12**  
**W05:** 9:15 - 10:30 am  
**W10:** 10:45 - 12:00 pm  
**W15:** 1:30 - 2:45 pm  
**W20:** 3:15 - 4:30 pm

**Thursday, August 13**  
**TH05:** 8:00 - 9:15am  
**TH10:** 9:30 - 10:45 am  
**TH15:** 11:00 - 12:15 pm  
**TH20:** 2:15 - 3:30 pm  
**TH25:** 3:45 - 5:00 pm

## SESSION DESCRIPTIONS BY TRACK

### Cloud Computing

A growing number of IT leaders believe the future of application development is service-based and in the cloud. Cloud computing offers increased scalability and can provide a less expensive way to host numerous applications. Even if you're not yet ready for Microsoft Azure, you owe it to yourself to become familiar with cloud computing and the services approach to development. This track includes coverage of the following:

- Microsoft Azure Web sites
- Docker on Microsoft Azure
- Hybrid clouds

### T01 Azure 10-10: Top 10 Azure Announcements in "T-10" Months

Introductory

VISHWAS LELE

Tuesday, August 11, 9:45 - 11:00am

In this session, we'll review the top 10 advancements in Microsoft Azure that have significantly widened the choices for developers (and for DevOps). This is a demo heavy session. The last occurrence of this presentation included just one slide, which you can see here at <http://bit.ly/Azure1010>

You will learn:

- About the key benefits of the Azure platform through a high level overview
- About recent developer/DevOps enhancements (tooling, services, API)
- From real world examples for leveraging Azure you can apply in your own context

### T06 Cloud or Not, 10 Reasons Why You Must Know "Web Sites"

Intermediate

VISHWAS LELE

Tuesday, August 11, 11:15am - 12:30pm

In this session, we'll look at the 10 reasons (backed by code walkthrough, of course) why, as a Web developer, you need to be up to speed with "Web sites." From fast provisioning and scalability to continuous integration and Web sites (Cloud and on-premises) technology is the fastest way to build Web applications.

You will learn:

- All about Web sites architecture
- About continuous integration and deployment with Web sites
- About Web site and hybrid connectivity

### W03 Moving Web Apps to the Cloud

Intermediate

ERIC D. BOYD

Wednesday, August 12, 9:15 - 10:30am

After years of developing Web apps using ASP.NET, SQL Server, Windows Server and Active Directory, how do you move to the cloud with Microsoft Azure? How can you apply your existing skills and experience to developing cloud apps in Azure? In this session, we'll take a simple, traditional ASP.NET app and walk through the process of migrating to Azure. We'll discuss the important considerations, practices, architectural differences, challenges, advantages and economic benefits to consider when migrating to Azure.

You will learn:

- About common business challenges and scenarios that drive Cloud migration
- How to move traditional on-premises web apps to Microsoft Azure
- About the architectural considerations for maximizing the value of the Cloud

### W08 Solving Security and Compliance Challenges with Hybrid Clouds

Intermediate

ERIC D. BOYD

Wednesday, August 12, 10:45am - 12:00pm

When considering public clouds, many industries and companies have concerns about security, intellectual property and regulatory compliance challenges. The good news is a hybrid cloud can often help solve these challenges. In this session, Eric Boyd will teach you how to use Microsoft Azure securely, protect sensitive information and achieve regulatory and compliance mandates like PCI compliance by combining on-premises data centers and private clouds with the Azure public cloud. There are a number of ways to achieve this with messaging and networking technologies. Eric will walk through the options and provide you with guidance on when to choose each.

You will learn:

- How to use the public cloud while paying attention to security and compliance
- About hybrid cloud scenarios and the technology that enables them
- How to analyze your scenario and choose an appropriate hybrid technology

### W18 Building for the Internet of Things: Hardware, Sensors & the Cloud

Advanced

NICK LANDRY

Wednesday, August 12, 3:15 - 4:30pm

Connected, smart devices have become pervasive. These "Things" already outnumber more traditional computing devices and are set to surpass the 100 billion devices mark within a few short years. The Internet of Things (IoT) extends your reach as a software developer into the world of diverse hardware devices controlled by your

## SESSION DESCRIPTIONS BY TRACK (continued)

code, and powered by the cloud. In this session we'll explore the "Maker" or "Things" side of IoT with hardware boards like Arduino, Raspberry Pi, Netduino, Intel Edison and others, and the various sensors and shields you can use to measure temperatures, capture user input via buttons, display data on micro displays and more fun electronic stuff. We'll build our first simple electronic circuits using LEDs and push buttons, and then write embedded code to augment that circuit by deploying & running it on various microcontroller boards.

Next, this session extends the reach of your hardware projects by connecting your "things" to the cloud, thus fulfilling the promise of the "Internet of Things". You'll learn about many of the options available to plug devices into connected intelligent systems, including Ethernet, Wi-Fi, Bluetooth and other custom wireless options. We'll explore how sensor data from hardware devices from the field can be collected and routed through gateways using Machine-to-Machine (M2M) messaging, and stored in the cloud, where it can be consumed in real-time data visualization dashboards.

The Internet of Things is full of opportunities for developers and this session is your best starting point to understand the big picture, and the possibilities. Don't fret if you've never done anything with hardware or electronics, this session will give you the guidance you need to get started.

**Prerequisites:** Basics of Software Development in C#, C or C++, Visual Studio 2013 or other IDEs

You will learn:

- Understand the world of connected devices in the "Internet of Things" (IoT), the various components such as smart devices, custom boards (Arduino, Netduino, Raspberry Pi, etc.), protocols and sensors
- Learn how to build a simple electronic project with LEDs and user input, write simple code projects or sketches and deploy them to hardware boards
- Learn how to use Microsoft Azure services for Machine-to-Machine (M2M) messaging scenarios

### F02 Workshop: Service Oriented Technologies: Designing, Developing, & Implementing WCF and the Web API

*Intermediate*

MIGUEL CASTRO

Friday, August 14, 8:00am - 5:00pm

Service Oriented Architectures are the best way to ensure that today's applications are extensible, maintainable, and scalable in a volatile world filled with ever-changing demands. Decomposing your systems into smaller, loosely coupled, and more autonomous components ensures that your application can continue to grow or change without having to continuously undergo rewrites or redesigns. But with great power comes great responsibility (don't say it), and the need for great technology and tooling. WCF is the heart of Microsoft's stack for building connected systems and loosely coupled components. ASP.NET Web API is the latest addition to this stack in a world where REST and its interoperability power becomes more necessary and in more demand. Come learn both of these technologies and how to properly use them apart and together. I'll teach you what a Service Oriented Architecture is and how to use WCF & Web API from the ground up. You'll learn these technologies together, side-by-side and how to integrate them into applications whose clients may vary from WPF to ASP.NET MVC to Windows 8 Tablet apps. I'll cover setup and consumption of your services end-to-end, showing you how and where to properly set up your projects, properly use proxies, contracts, and even REST URL design. You'll have the knowledge of how to use service technology and to properly implement it in a clean and elegant fashion.

You will learn:

- Writing services using WCF
- Developing REST APIs with WebAPI
- Comparison of Microsoft's two service technologies side by side

### Database and Analytics

SQL Server 2014 is here. No Microsoft-focused developer conference would be complete without coverage of Microsoft's formidable database platform. Visual Studio Live! meets this need handsomely, with coverage of:

- SQL Server Data Tools (SSDT)
- Reporting Services for Developers
- Memory-Optimized Tables and Columnstore Indexes in SQL Server 2014
- Microsoft Azure SQL Database

### TH03 Database Development with SQL Server Data Tools

*Introductory / Intermediate*

LEONARD LOBEL

Thursday, August 13, 8:00 - 9:15am

SQL Server Data Tools (SSDT) is a powerful integrated development environment for designing, testing, and deploying SQL Server databases - whether you're working locally or remotely, connected or offline, or in the cloud on Microsoft Azure - all from right inside of Visual Studio. While SQL Server Management Studio (SSMS) continues to serve as the primary tool for database administrators, SSDT plugs in to Visual Studio as a special database project type designed specifically for the application developer.

In this session, Lenni begins by describing the various difficulties that developers face, and then demonstrates how SSDT can be used to remedy those pain points. You will learn how to use features such as code navigation, IntelliSense, and refactoring with your database model indispensable tools traditionally available only for application development in Visual Studio. We'll also cover the declarative model that allows you to design databases offline and under source control right from within solution in Visual Studio, as well as how to deploy to SQL Database on Microsoft Azure. Don't miss out on

## SESSION DESCRIPTIONS BY TRACK (continued)

this demo-centric information-packed session on the current generation of database tools for application developers!

You will learn:

- The benefits of database development with SSDT's declarative model-based architecture
- The various SSDT features and capabilities (explorer, designers, schema compare, local database runtime, language services, debugging, and buffered editing)
- How to design, test, and deploy on-premises databases, offline database projects, and Microsoft Azure SQL databases in the cloud all from inside Visual Studio

### TH08 Programming the T-SQL Enhancements in SQL Server 2012

Introductory / Intermediate

LEONARD LOBEL

Thursday, August 13, 9:30 - 10:45am

In this informative and demo-packed session, Lenni will guide you through the T-SQL enhancements in the very latest release of SQL Server. We'll dive into powerful new windowing enhancements with the OVER clause, new T-SQL functions (all 22 of them!), improved error handling with THROW, server-side paging with OFFSET/FETCH NEXT, sequence generators, rich metadata discovery techniques, and contained databases. If you want to learn the new T-SQL enhancements in SQL Server 2012, you won't want to miss out on this session!

You will learn:

- New T-SQL features in SQL Server 2012
- Examine 22 new T-SQL functions, including 8 new analytic windowing functions
- Explore OVER, THROW, OFFSET, metadata discovery, and contained databases

### TH13 Power BI 2.0: Analytics in the Cloud and in Excel

Intermediate

ANDREW BRUST

Thursday, August 13, 11:00am - 12:15pm

Version 2 of Power BI adds new visualizations, developer APIs and an improved mobile story. It offers a free cloud service along with a Professional subscription for \$10 a month, and the version 1 requirement of an Office 365 subscription is gone, gone, gone!

But using Power BI doesn't mean you have to go to the cloud at all. Power BI components like Power Pivot, Power View, Power Query and Power Map provide massive analytics power, right inside Excel.

Power BI provides a lot to take in, so come to this session to get up to speed quickly on what Power BI has done since version 1 and sink your teeth into everything that's new for version 2.

### TH18 Busy Developer's Guide to NoSQL

Introductory / Intermediate

TED NEWARD

Thursday, August 13, 2:15 - 3:30pm

With the introduction of CouchDB, the world suddenly seems to be alive with a whole slew of "alternative" approaches to data persistence, collectively called "NoSQL" and offers a "slightly different" to "radically different" view of data storage and retrieval. It's left a few developers scratching their heads, trying to figure out when to use a NoSQL database instead of a regular database, much less which NoSQL database to use. In this session, we'll examine the NoSQL ecosystem, look at the major players, how they compare and contrast, and what sort of architectural implications they have for software systems in general.

You will learn:

- About NoSQLs
- What NoSQLs offer that the RDBMS don't
- When and how (and when not) to use them

### TH23 Big Data and Hadoop with Azure HDInsight

Intermediate

ANDREW BRUST

Thursday, August 13, 3:45 - 5:00pm

As Big Data starts to move beyond its hype cycle, Hadoop is reaching critical mass as an Enterprise computing tool. Microsoft's flavor of Hadoop, Azure HDInsight, has matured a great deal as well. It's been fortified with many of the new Hadoop-compatible processing engines that have come on the scene and now it's available in Linux versions as well as its original Windows distribution.

Come to this session to see Andrew Brust, SQL Server Live!'s co-chair and Gigaom's Big Data Research Director, teach you what Hadoop is, how it works, what to do to get it running on the Azure cloud and how to integrate it with SQL Server BI, Excel and third party tools.

**"LOTS OF INTERESTING SOLUTIONS THAT WERE RELATIVE TO THE TIMES, PLUS THE WORKING DEMOS THAT SHOWED NON-TRIVIAL PRODUCTION TYPE CODE WERE GREAT!"**

- Novy Dhillon, Electronic Arts (Canada)

## SESSION DESCRIPTIONS BY TRACK (continued)

### F01 Workshop: SQL Server 2014 for Developers

*Intermediate*

**ANDREW BRUST & LEONARD LOBEL**

**Friday, August 14, 8:00am - 5:00pm**

This full-day workshop will get you up to speed on powerful new features in SQL Server 2008, 2012, and 2014. Lenni and Andrew will pull no punches as they rip through the most important SQL Server features for developers in this intensive demo-packed tour.

Part 1 - T-SQL Features. We'll start with the many enhancements made to T-SQL. Learn how to use table-valued parameters to marshal entire sets of rows across the network from client to server, and to pass them between your stored procedures and UDFs. Find out about MERGE, a powerful DML statement that combines the capabilities of four (or more) separate operations, and INSERT OVER DML, which enhances your ability to capture change data from the OUTPUT clause of any DML statement. Then preview the T-SQL enhancements coming in SQL Server 2012, such as windowing (OVER

clause) enhancements, 22 new functions, the THROW statement, server-side paging, the SEQUENCE object, and new metadata discovery techniques.

Part 2 - Data Warehousing and Analytics. From the world of T-SQL we'll move on to a discussion of using SQL Server for data warehousing and analytics. We'll see how to architect data schemas for optimal performance in reporting and data discovery scenarios, we'll look at column store technology and SQL Server columnstore indexes and we'll discuss Microsoft's Analytics Platform System (APS) a special version of SQL Server built for data warehousing and Big Data.

Part 3 - Big Data and Data Discovery. Next, we'll investigate Apache Hadoop, Big Data and Microsoft's stack for data discovery and visualization. In this section, we'll cover what Apache Hadoop is, discuss its integration with SQL Server in Microsoft's Analytics Platform System (APS) and look at several demos of Azure HDInsight, Microsoft's cloud-based Hadoop service. We'll finish with look at how to visualize data from your data warehouse and/or Hadoop, using Microsoft's Power Query, Power View, Power Pivot and Power BI.

Part 4 - Beyond Relational. As a follow-up to our coverage of analytics and Big Data, we'll next examine the "beyond relational" features in SQL Server 2008, and the latest additions added in SQL Server 2012. These features will get you thinking outside the box with respect to the types of data that can be managed by a relational database system. Dig into FILESTREAM (and SQL Server 2012 FileTable) and learn how you can finally enjoy the native ability to store large binary objects in the file system transparently, and with full transactional capabilities. The geospatial data types enable you to integrate location-intelligence into the database, and we'll build several location-aware applications on top of these data types.

Part 5 - In-Memory OLTP. We'll finish up with the new in-memory OLTP capabilities (code name "Hekaton")

added in SQL Server 2014. Learn how to achieve impressive performance gains (up to 30x!) by identifying those tables that can improve performance simply by implementing them as memory-optimized tables in the database. These tables are fully durable and function as ordinary tables, but do not require the same latching and locking mechanisms as disk-based tables, which boosts performance significantly. You will also see how to create natively compiled stored procedures (which actually converts T-SQL to C and then compiles to a DLL) to achieve even greater performance when accessing memory-optimized tables.

You'll learn a ton of new SQL Server features in this information-packed day!

You will learn:

- T-SQL enhancements added to SQL Server 2008 and SQL Server 2012
- The latest data warehousing and analytics features in SQL Server, the world of Big data with Microsoft HDInsight and how to enable data discovery with Power BI and related technologies
- Unstructured data storage, including native file streaming, and the hierarchical and geospatial data types
- In-memory OLTP technologies added in SQL Server 2014 for up to 30x improvement in performance

**"THE DEPTH OF KNOWLEDGE BROUGHT BY THE SPEAKERS IS PHENOMENAL!"**

*- Adam Curtis,  
PC Construction*

## SESSION DESCRIPTIONS BY TRACK (continued)

### Design

Good application design is more than just "pretty." There's a true science to good user experience and it's important to consider everything from control sizes, to order of operations and, yes, even color. This track includes:

- Core user experience (UX) design principles
- Data visualization
- Application design process essentials

### M02 Workshop: UX Design Process Essentials—Steps and Techniques

*Introductory / Intermediate*

**BILLY HOLLIS**

**Monday, August 10, 8:00am – 6:00pm**

Most development shops have no structured process for defining and designing user interfaces and user experiences. As teams move to modern apps, a defined UX design phase becomes much more important. In this workshop, you'll see a lightweight process from beginning to end of UX design, with options at various stages to allow you to construct a process that works for your team. You'll see techniques for pinning down business needs, observing users, storyboarding design ideas, prototyping your best ideas, and evaluating designs with users and other stakeholders. This is a no-code session with interactive exercises, so come ready to do some hands-on work on techniques you can take back to your team.

You will learn:

- How to realize benefits of a design process
- How to understand stages and steps in a typical lightweight design process
- Options for steps to allow construction of a design process customized to your team

### T03 UX Design Principle Fundamentals for Non-Designers

*Introductory*

**BILLY HOLLIS**

**Tuesday, August 11, 9:45 – 11:00am**

The foundation of UX design includes principles that help you understand why something is a good or bad design. If design principles with names such as Gestalt Proximity, Gestalt Similarity, Hick's Law, Horror Vacui and the Aesthetic-Usability Effect sound like technobabble to you, this is the session you need to begin understanding the most important design principles that developers need to know. This is a no-code session, and discusses design concepts application to any user interface technology stack. Interactive tests and exercises are sprinkled through the session, and it concludes with an array of options for further study.

You will learn:

- How to understand the concept of a design principle
- The dozen most important design principles for designing modern user interfaces
- Strategies for learning as much as you need to about design principles

### T08 Designing and Building UX for Finding and Visualizing Data in XAML Applications

*Intermediate*

**BILLY HOLLIS**

**Tuesday, August 11, 11:15am – 12:30pm**

Your biggest single opportunity when moving to XAML applications is helping users find the information they need faster and more intuitively. This session shows a host of techniques, including techniques and implementations for typical sorting and filtering,

using shapes and colors to help in data visualization, abstracting entire collections to single graphics for quick assimilation, and ideas for dealing with long lists such as favorites and lists for frequently used items. The session will also feature tips for designing the user experience for search, so that you are headed in the right direction before you start writing your XAML.

You will learn:

- Ideas and implementations for sorting and filtering data in XAML
- Ways to use XAML features to visualize data the way your user needs to see it
- Basic techniques for designing the search experience

**"I ENJOYED THE OPPORTUNITIES TO ASK QUESTIONS OF THE SPEAKERS AND EXHIBITORS. IT WAS ALSO NICE TO MEET OTHER DEVELOPERS FROM ALL OVER THE WORLD. I REALLY LIKED HAVING A MOBILE APP TO KEEP ME ON TRACK WITH THE SESSIONS I PLANNED TO ATTEND."**

*- Aaron Wergeland, Insperty*

## SESSION DESCRIPTIONS BY TRACK (continued)

### Mobile Client

Mobile clients are becoming the most common way for business users to keep in touch with each other, their organizations, and their business applications. Mobile apps might be native client apps or mobile Web sites. They also frequently use cloud-based data and services. This track includes:

- Using Xamarin tools to leverage your C# code on iOS and Android
- Azure Mobile Services
- Building Cross-Platform Games with MonoGame
- Swift for .NET Developers

### T11 Building Mobile Cross-Platform Apps with C# and Xamarin

*Intermediate*

NICK LANDRY

**Tuesday, August 11, 2:30 - 3:45pm**

Building native applications across multiple platforms is a challenge. Building for iOS requires knowledge of Xcode, the iOS SDK and Objective-C. Android requires Eclipse, the Android SDK and Java. Windows 8 and Windows Phone require Visual Studio, C# and their respective SDKs. Are you really expected to learn all of this? You can take the HTML5 and PhoneGap route, but not all apps should be built using a hybrid approach. If you want to create a truly competitive app with a premium experience, you'll need to go native.

Fortunately, there's a way you can share a lot of your code across mobile platforms and do so using the C# language you already know and love. The Mono framework is an Open Source project that brings .NET to other platforms, and Xamarin tools leverage Mono for iOS and Android development. This session explores how you can build cross-platform applications for iOS, Android, Windows Phone & Windows 8 using C#.

You'll learn how to get started with a sample cross-platform solution, which tools you can use, how to design a proper user interface for each platform and how to structure your projects for maximum code reuse. Native mobile development doesn't have to be so hard. Come learn how your .NET skills can be transformed for true cross-platform development.

### T16 Building Mobile Cross-Platform Apps in C# with Azure Mobile Services

*Intermediate*

NICK LANDRY

**Tuesday, August 11, 4:15 - 5:30pm**

The Cloud is the perfect way to extend mobile applications. Mobile apps don't exist in a vacuum, you never know if you'll have 10 or 10,000 users, and sooner or later you'll need to save data in the cloud, perform operations server-side for enhanced scalability, and monitor data feeds to push notifications to your mobile users. Microsoft Azure provides the best infrastructure for mobile developers across all platforms thanks to cross-platform storage, authentication and push notification services, all residing in the cloud. This session explores how you can build cloud-enabled cross-platform applications for iOS, Android and Windows Phone using C#, Xamarin tools and frameworks, and Windows Azure Mobile Services.

You'll learn how to authenticate users via Microsoft, Google, Facebook or Twitter credentials, store data remotely in SQL databases, table storage, blob storage and more, all through live cross-platform demos. Whether you're a weekend warrior building consumer apps or a corporate mobile developer building apps for the enterprise, the cloud is the perfect companion for your mobile apps. Come learn how easy it is to harness its power.

### W01 iOS Development What They Don't Tell You

*Intermediate*

JON FLANDERS

**Wednesday, August 12, 9:15 - 10:30am**

Xamarin, Swift, React Native, etc. etc. We are all inundated with people and companies telling us how we can build native iOS applications using tool X or technology Y. Turns out there is only one "native" way to build iOS applications, and all of these various tools are abstractions on top of UIKit and Objective-C. Come to this session and learn a few key concepts about native iOS development that can help you whether you write mobile apps in C#, Swift, JavaScript, or HTML.

You will learn:

- Basics of Native iOS Development
- How to use native iOS knowledge in a diverse mobile development work

### W06 Building Cross Platform UI with Xamarin.Forms

*Introductory / Intermediate*

WALT RITSCHER

**Wednesday, August 12, 10:45am - 12:00pm**

Mobile development is a white-hot right now. Everyone wants to develop for the mobile market and get their apps in the hands of millions of customers. However, the splintered mobile landscape quickly eliminates the enthusiasm for creating apps that span all mobile platforms.

Xamarin is a popular cross-platform toolkit aimed directly at the .NET developer. It provides a way to write project code in C# and produce an app that runs on Android, iOS and Windows devices. In the early days of Xamarin, the focus was on building a shared code base that works across the various platforms. Instead of

## SESSION DESCRIPTIONS BY TRACK (continued)

writing code in Java, Objective-C and C# a developer can write the majority of the app code in C#. That was a tremendous step forward, but it never addressed the UI dilemma. Each platform has a different set of UI elements and a distinct markup language. Because of this, it was difficult to create a shared cross platform UI in a Xamarin project; you were forced to create three separate presentation layers.

Xamarin.Forms resolves this dilemma. Instead of defining a UI in a set of XAML, AndroidXML and iOS Xib/Storyboard files it uses XAML as the common markup language. Plus it provides a set of UI controls that are simple to use within your XAML. When the app is compiled to native code, the Xamarin.Forms controls are turned into the native UI elements necessary for each mobile platform. Attend this session to learn the fundamentals of Xamarin.Forms.

You will learn:

- How to build a cross platform UI
- How to work-around platform idiosyncrasies
- About the built-in controls
- How to work with layouts

### W11 Swift for .NET Developers

*Intermediate*

JON FLANDERS

Wednesday, August 12, 1:30 - 2:45pm

Swift is a new multi-paradigm language from Apple for building iOS and OSX apps. It's a modern language with homages to Ruby, Python, Erlang, and C#. If you're a .NET developer, come to this talk to see how a modern, full-featured IDE (Xcode 6) + Swift can make building native iOS apps simpler than ever before.

You will learn:

- All about the new Swift language
- How to use Swift to build iOS8 applications
- How Swift works inside of Xcode

### W16 Creating Applications Using Android Studio

*Introductory*

KEVIN FORD

Wednesday, August 12, 3:15 - 4:30pm

Many of us have been using Visual Studio for years but it is unsuited to making Android applications using Java. To this end Google has created the official IDE, Android Studio. This session will show you how to create Android applications in Java in Android Studio and deploy them to emulators and physical devices. We will also discuss how to make UIs using Android XML. This session is great for anyone starting Android native development who wants to learn the basics. Much of the information is also valuable for working with Android in Xamarin.

### TH01 Using Multi-Device Hybrid Apps to Create Cordova Applications

*Introductory*

KEVIN FORD

Thursday, August 13, 8:00 - 9:15am

Cordova is a great way to write hybrid apps that span multiple platforms using HTML5/CSS and JavaScript. Now, with Multi-Device Hybrid Apps, Microsoft has provided us an integrated solution for Cordova in Visual Studio. This session will explore how to create an application using Multi-Device Hybrid Apps and Intel's App Framework to make hybrid mobile applications with a native looking UI. It will also explore how to deploy applications to devices, including using a Mac build server for iOS. After this session, and with a bit of HTML5/CSS and JavaScript knowledge, you should be well on your way to learning how to write Cordova applications in Visual Studio.

### TH06 Everything You Always Wanted To Know About REST (But Were Afraid To Ask)

*Intermediate / Advanced*

JON FLANDERS

Thursday, August 13, 9:30 - 10:45am

REST is a well-known acronym (standing for Representational State Transfer), but the details of the actual architectural style and its benefits are less well understood.

This talk will concentrate on how to use the constraints of REST to build services and clients that can change easily over time.

You will learn:

- About the constraints of REST
- How to build a Hypermedia based client
- How to apply REST and Version your systems

**"MICROSOFT CAMPUS IS BEAUTIFUL AND THE CONFERENCE ROOMS ARE WELL SUITED TO THE TRAINING."**

- Louis McCoy,  
Merchants Automotive

## SESSION DESCRIPTIONS BY TRACK (continued)

### Visual Studio / .NET

Microsoft continues to deliver updates at a rapid pace. In 2014, Microsoft released quarterly updates to Visual Studio and Team Foundation Server (TFS) on-premises and the Visual Studio Online (VSO) service saw updates about every three weeks. Then at the end of 2014, they released the first public preview of Visual Studio 2015. 2015 promises to be an exciting release with new versions of Visual Studio, TFS, and continued updates to VSO, not to mention Microsoft's exciting venture into more open source and cross-platform development. From ALM to DevOps and core code cutting, Microsoft has a ton of new stuff that you need to learn. Visual Studio Live! gives you the information you need to understand and leverage the power of .NET, Visual Studio, ALM, DevOps, and the .NET Framework today and into the future. Topics in this track include:

- Sessions focused on Visual Studio 2013 (and 2015 preview), .NET 4.5 and C# 6.0
- ALM, Visual Studio tooling and Visual Studio Online
- Asynchronous programming
- DevOps best practices and shipping code

### M03 Workshop: ALM and DevOps with the Microsoft Stack

*Intermediate*

**BRIAN RANDELL**

**Monday, August 10, 8:00am - 6:00pm**

In this workshop, Brian will cover what you need to know about Application Lifecycle Management and DevOps with the Microsoft stack. He'll be digging into Visual Studio 2013, TFS and Visual Studio Online but also what's the latest with Visual Studio 2015, Team Foundation Server 2015 and all the new features Microsoft is building to make DevOps a reality.

Each release of Visual Studio and Team Foundation Server keeps getting better. Starting with the 2012 release, Microsoft has upped their release cadence.

They're shipping updates for Visual Studio and Team Foundation Server about every quarter. The online service sees updates almost every three weeks! So there's a lot to learn to get the most out your tools so you can deliver great solutions.

Brian will cover the product with the assumption you know the basics. Yet he'll make sure to cover what's new. He'll dig into the new Git version control, Enterprise Agile, and Release Management features in 2013 and 2015. He'll compare and contrast TFS with the Visual studio Online, cover some App Insights, and answer your tough questions. So come on down with your existing knowledge of Visual Studio and TFS and spend a great day learning.

You will learn:

- What's new for ALM and DevOps for Visual Studio 2013 & 2015
- What's new for ALM and DevOps for Team Foundation Server 2013 & 2015
- What's new for ALM and DevOps for Visual Studio Online 2013 & 2015

### T04 A Lap Around Visual Studio 2015

*Intermediate*

**ROBERT GREEN**

**Tuesday, August 11, 9:45 - 11:00am**

The next version of Visual Studio is here. As you would expect, it's packed with lots of new features. This session will explore many of the features in Visual Studio 2015 and how they increase developer productivity. We'll cover the IDE, programming languages, Roslyn, UI designers, diagnostic tools, and enhancements to building Windows, Web, mobile and cloud apps.

You will learn:

- About the many new features in Visual Studio 2015
- How it makes you more productive in your daily developer life
- How it provides enhanced tools for building Windows, Web, mobile and cloud apps

### T09 What's New in ALM

*Introductory / Intermediate*

**BRIAN RANDELL**

**Tuesday, August 11, 11:15 - 12:30pm**

2015 will be an exciting year as Microsoft releases new versions of Visual Studio, Team Foundation Server, and Visual Studio Online to help you and your teams build great solutions. Come to this session if you want to learn what's new from Microsoft for Application Lifecycle Management (ALM) and DevOps including changes to version control, work tracking, builds, release management, virtual test labs, and more.

You will learn:

- What's new for ALM and DevOps for Visual Studio 2015
- What's new for ALM and DevOps for Team Foundation Server 2015
- What's new for ALM and DevOps for Visual Studio Online

### T19 SOLID Design Patterns for Mere Mortals

*Intermediate*

**PHILIP JAPIKSE**

**Tuesday, August 11, 4:15 - 5:30pm**

Software design patterns have been around long before the MVC Framework gained momentum. In this session we will start with a review of Robert C. Martin's (Uncle Bob) SOLID acronym. After building the proper foundation, I will show you several design patterns, their C# implementation, and when and how they should be used in modern software development.

You will learn:

- What SOLID is and why it matters
- What design patterns are and why they matter
- Many design patterns in C#

## SESSION DESCRIPTIONS BY TRACK (continued)

### W04 Enhancing Application Quality Using Visual Studio 2015 Premium Features

*Intermediate*

**ANTHONY BORTON**

**Wednesday, August 12, 9:15 - 10:30am**

Many enterprise developers are provided with Visual Studio Premium or Ultimate yet continue to use just the standard features they've been using for years. In this demonstration packed session, see how you can use features in Visual Studio Premium to enhance your application quality and build better software. Some of the features we'll look at include the Fakes framework, Code Coverage, Code Clone, Code review, Code Maps and much more. We'll also peek at some of the Ultimate features briefly. While the session will demonstrate Visual Studio 2015, most of the features exist in earlier releases.

You will learn:

- To become more productive and write higher quality code through the use of Visual Studio features you may not be familiar with

### W09 Load Testing ASP.NET & WebAPI with Visual Studio

*Intermediate / Advanced*

**BENJAMIN DAY**

**Wednesday, August 12, 10:45am - 12:00pm**

It's a common problem—you're getting close to the point at which you're supposed to deploy your new ASP.NET application in to production and somehow it just doesn't seem very fast. Perhaps you've already deployed your application in to production and now you're getting complaints from customers that it's just plain crazy-slow or that there are intermittent errors.

Yikes! You've got performance problems. Thankfully, Visual Studio has some great features to help out of this bind.

In this session, Ben will start out with a running Web application with performance problems and show you how to find and fix these performance problems using Web Performance Tests, Load Tests, Unit Tests, Performance Explorer, custom performance counters, and code profiling. Along the way, Ben will discuss what you need to run your load tests in the cloud using Visual Studio Online or on-premise with a Load Test Rig.

You will learn:

- About the performance testing tools in the Visual Studio world
- How do you use the tools to recreate and find the problem(s) in an underperforming app
- How you use the VS code profiling tools to find problems

### W14 To Git or Not to Git for Enterprise Development

*Advanced*

**BENJAMIN DAY**

**Wednesday, August 12, 1:30 - 2:45pm**

Git is all the rage. All the cool kids are using Git. They seem to like it a lot. They're downright passionate about it. But is it right for your project? It's one thing to use Git for a phone app that you're working on with your buddies. It's another thing entirely when you're working on giant applications with gigabytes of code and dozens of developers. Is Git right for that kind of "enterprise" software development?

In this session, Ben will show you Git from the perspective of a Visual Studio and Team Foundation Server user and discuss the ins, outs, and gotchas of using Git for large-scale, enterprise software development. Along the way, he'll discuss how Git changes your perspective on branching, code reviews and cross-platform development. We'll wrap up by

discussing how to use Git with existing solutions and how to integrate Git with your existing TFS version control repositories.

You will learn:

- What makes Git so different? (offline copy of repo, distributed)
- How to use branching for scrum
- How to use pull requests
- About Git for TFS users (break yourself from folder-based thinking, Git+TFS)
- What's in the Visual Studio UI vs. command line
- How does Git streamline cross-platform development?

### W19 Not Your Grandfather's Build—A Look at How Build Has Changed in 2015

*Intermediate*

**ANTHONY BORTON**

**Wednesday, August 12, 3:15 - 4:30pm**

Being the person responsible for your team's build has often been seen as a punishment by many developers. Customizing your build workflow using Windows Workflow in Team Foundation Server was grueling and not for the faint of heart. That's all changed now! In this session we'll look at how building your application using Microsoft's ALM tools has transformed from an ogre into a prince! This session isn't just for the build master but for any development team member wanting to learn about the exciting new world of Build in Visual Studio ALM.

You will learn:

- How build has undergone a huge transformation with the 2015 release and to ensure more developers to get involved in their builds



## SESSION DESCRIPTIONS BY TRACK (continued)

### TH04 Stop the Waste and Get Out of (Technical) Debt

*Intermediate*

**RICHARD HUNDHAUSEN**

**Thursday, August 13, 8:00 - 9:15am**

The problem with doing things in a quick and dirty way is that the dirty remains long after the quick is gone. Today's software developers are constantly making tradeoffs of time and quality in order to deliver working software on time. As we code, we suspect there's a better, cleaner way to solve the problem at hand. Since we have forecasts, goals and commitments to achieve we can't invest an inordinate amount of time locating the optimal answer. Solutions that are "fit for purpose" are good enough. In this session, you'll learn where waste and technical debt come from and, more importantly, some techniques for reducing and possibly removing them all together.

You will learn:

- How to create and use a definition of done
- How Agile software requirements reduce waste and focus the team on developing fit for purpose solutions
- How pairing, code reviews, and other practices can reduce debt and increase code quality

### TH09 What's New in C# 6.0

*Introductory / Intermediate*

**JASON BOCK**

**Thursday, August 13, 9:30 - 10:45am**

Dissatisfied that C# 5 only added async and await? In C# 6, you're going to get a lot more features. This session will cover what these features are (such as name of and string interpolation) and how they work in detail so you'll know when to use them effectively in your new .NET projects.

You will learn:

- How the new C# 6 features work
- What the features provide and how to use them effectively
- About the new "open" world of C# and how one can be a part of future language evolution

### TH14 Async and Await Best Practices

*Introductory / Intermediate*

**MARK ROSENBERG**

**Thursday, August 13, 11:00am - 12:15pm**

You know about the new keywords Async and Await, but how do you use them? In this talk, Mark Rosenberg will go through Asynchronous programming and explain Microsoft best practices for writing asynchronous code with async and await. When you walk out of this session, you'll know how Microsoft intended these new keywords and how you can use them correctly in your code.

You will learn:

- About asynchronous programming
- Best practices for using async and await keywords
- Design patterns to use for Asynchronous programming

### TH19 Microsoft's .NET is Now Open Source and Cross-Platform. Why it Matters.

*Intermediate*

**MARK ROSENBERG**

**Thursday, August 13, 2:15pm - 3:30pm**

Microsoft is opening up one of its key products. Microsoft has released .NET Core and ASP.NET 5 as open source and is working on cross-platform implementations for Linux and Mac. The .NET Framework was always unsurprisingly Windows-only, which made it a non-starter for many developers, particularly outside corporate IT. This positive new direction means .NET is now available on key desktop and server operating

systems. It also means the community can port .NET to any other operating system it wants. These choices are no longer the singular concern of Microsoft. We'll talk about what this means to the industry as a whole, and your business. You will see how you can use this new openness to your advantage today and in the future.

You will learn:

- How .NET is cross platform
- How .NET is open source
- How you can get involved with Microsoft and .NET

### TH21 Agile Database Development

*Intermediate*

**RICHARD HUNDHAUSEN**

**Thursday, August 13, 3:45 - 5:00pm**

To many teams, agile database development is a contradiction in terms. Agile practices have not traditionally applied to SQL Server development. In fact, some teams still see the database as something that has to be created first, before any coding begins. This way of thinking can delay the realization of business value and even lead to waste. However, with a bit of education and by leveraging the SQL Server Data Tools, database developers can participate in the same agile practices as the rest of the team. These practices include unit testing, test-driven development, refactoring, and even continuous integration. In this session, you will see that it is possible for database developers to be just as agile as the rest of the team.

You will learn:

- How to use SQL Server Data Tools to practice agile database development
- Strategies to get DBAs to collaborate with the rest of the development team
- How to integrate database development and refactoring with the rest of the team

## SESSION DESCRIPTIONS BY TRACK (continued)

### TH24 Managing the .NET Compiler

Intermediate

JASON BOCK

Thursday, August 13, 3:45 - 5:00pm

With the new compiler APIs, Microsoft has let .NET developers access the internals of the compilation process. The potential impact of having a compiler API available for all developers is immense. In this session, you'll get a tour of the elements behind this new API, such as syntax trees and parsers, and how you can use them in diagnostic analysis and refactoring tools.

You will learn:

- All about the new compiler APIs
- How using these new compiler APIs can open up new opportunities for developers to improve their code
- How compilers work at a basic level and what the compiler APIs brings to table to make that usage easier

**"I REALLY ENJOYED SEEING A LOT OF CODE AND LESS SLIDES; NETWORKING WITH OTHER ATTENDEES WAS GREAT, PLUS BEING ABLE TO TALK TO SPEAKERS OUTSIDE SESSIONS WAS SO VALUABLE."**

- Gudmundur Magnusson, Arion Bank

### Web Development

Microsoft's focus on the Web is serious. There is increased support for HTML5, a new version of ASP.NET, and numerous tooling advances. HTML5 and JavaScript are the basis for virtually all modern Web development. JavaScript is increasingly being used as a server-side development language. This track will cover HTML5, JavaScript, and ASP.NET. Our ASP.NET coverage includes ASP.NET MVC, Web API, and ASP.NET 5, a transformative shift in the Microsoft Web development technology stack. This content will help Web developers create rich and compelling experiences for users. Sessions include:

- JavaScript, HTML 5, and CSS 3
- ASP.NET 5
- Angular, Knockout and TypeScript
- Single Page Applications (SPAs) with Breeze
- Gulp, Grunt and Bower
- SignalR

### T02 Hack Proofing Your Web Applications

Intermediate

ADAM TULIPER

Tuesday, August 11, 9:45 - 11:00am

It doesn't matter if you use only HTML/JavaScript, ASP.NET Web Forms or MVC, etc. Chances are your apps are doing something incorrectly. Developers are notoriously lax with including security in their applications. In an age of hacking, this talk aims to arm the developer with an arsenal of protections to use while developing. This presentation explores the most common attacks on web applications, how they work to exploit your app, and most importantly, how to protect against them. Techniques such as Cross Site Scripting, Session Hijacking, Cross Site Request Forgery, and more will be covered. ASP.NET Web Forms and MVC will be covered as well as pure JavaScript/HTML applications, as both

have pros and cons that will be explored. We will start with a 'broken' application and secure it throughout the presentation. Leave this presentation empowered to immediately start protecting your applications!

You will learn:

- Why many existing applications can be hacked in some way
- Details of common hack attacks in Web Applications (JavaScript, asp.net, and html attacks that don't require any script)
- Techniques for protecting applications against hack attacks

### T07 Take a Gulp, Make a Grunt, and Call Me Bower

Introductory / Intermediate

ADAM TULIPER

Tuesday, August 11, 11:15am - 12:30pm

Client side package managers and build systems are plenty nowadays. We have grunt, bower, nuget, msbuild, and many others. Visual Studio now has built in support for Grunt, Bower, and Gulp. Why so many systems? Isn't Visual Studio just fine with the tools that we currently use?

ASP.NET has typically done things its own way for many years, which has pros and cons. Now there's a vast ecosystem of other technologies, many that now integrate and run just fine on Windows. It makes sense to bring in some of the other tools developers use with much success in other ecosystems. Grunt/gulp let you run client side JavaScript tasks, like minifying a code file. Bower is a package manager for JavaScript libraries that allows you to define, version, and retrieve your client side dependencies. These tools all fill a gap in our development pipeline and once you see their power you will understand their well-deserved place in the ecosystem. Come find out how to utilize these great tools in your Web development workflow.

## SESSION DESCRIPTIONS BY TRACK (continued)

You will learn:

- How NuGet, Grunt, Bower, and Gulp fit into the development ecosystem, where they may overlap, and how they differ
- What Bower is and how to utilize it
- What Grunt/Gulp are and how to implement them into your workflow

### T12 AngularJS 101

*Introductory*

**DEBORAH KURATA**

**Tuesday, August 11, 2:30 - 3:45pm**

This beginner-level session introduces the .NET developer to AngularJS using Visual Studio. The session begins with an acronym-free description of the concepts and terms required to successfully build a Web application with Angular.

During this session, we'll build a simple Angular application starting from an empty Web site in Visual Studio. We'll add directives to build our first page. Then we'll create a module and a controller to complete a simple application.

You will learn:

- About Angular concepts and terms
- The basics of building an Angular application
- The basics of implementing Bootstrap styles in an HTML page

### T14 Hosting ASP.NET Applications Cross Platform with Docker

*Intermediate*

**ADAM TULIPER**

**Tuesday, August 11, 2:30 - 3:45pm**

With the recent changes to ASP.NET 5, it can now run cross platform and completely self host. Want to run an entire site off a USB without having IIS installed or even

do this cross platform? You can. We'll cover how to setup ASP.NET cross platform.

Docker is an amazing technology that allows apps to be completely portable with its own dependency and change tracking. Docker abstracts away certain specifics to allow an app to just run in a container. By running our apps in containers we can deliver them virtually anywhere and remove the burden of having to make sure all dependencies are installed between our dev/qa/production environments. Docker currently runs on Linux but support for Windows by Microsoft has been announced. We will cover how to run Docker on Windows as well as delivering our apps in Docker containers.

You will learn:

- How to setup ASP.NET cross platform
- What docker is and its use cases
- How to setup ASP.NET in Docker containers

### T17 AngularJS Forms and Validation

*Introductory / Intermediate*

**DEBORAH KURATA**

**Tuesday, August 11, 4:15 - 5:30pm**

It's not enough for a Web-based data entry form just to collect data. It should facilitate entry of relevant, accurate, and valid data. And it should help prevent entry of incorrect, invalid and erroneous data.

This session covers how to build Angular forms and implement data entry validation. We start with simple validation with associated validation messages. Then we'll move on to building custom validators and working with asynchronous validation when the validation logic must remain on the server.

You will learn:

- How to build web-based data entry forms using HTML and AngularJS
- The basics of client-side validation
- How to implement asynchronous server-side validation

### W17 Securing Angular Apps

*Intermediate*

**BRIAN NOYES**

**Wednesday, August 12, 3:15 - 4:30pm**

One topic often pushed to the side when talking about Angular and SPAs is security. The short answer is "you can't secure the client side." However, the reality is you still need to secure your application as a whole. In this session, you'll learn about what you can and can't do with security in Angular, and how you can protect the application as a whole. You'll learn a combined approach of securing the files that compose your application, providing a good user experience for login and authorization in your client side app, and securing the Web API calls that your Angular app depends on to access the sensitive parts of your application—the data.

You will learn:

- What parts of your Angular app you can secure and how
- How to integrate security into the user experience of your Angular app
- How to work with secured Web APIs in your Angular app

### TH02 Build Data-Centric HTML5 Single Page Applications with Breeze

*Intermediate*

**BRIAN NOYES**

**Thursday, August 13, 8:00 - 9:15pm**

BreezeJS is a JavaScript library that lets you easily retrieve and update data via Web APIs or OData services. In this session, you'll learn how Breeze can help you with your data-bound HTML UIs to execute rich queries from the client, load and cache the retrieved data, work with it on the client side, validate changes, and save changes back to the server. You'll learn how to integrate Breeze with client separation patterns like MVVM and MVC and

## SESSION DESCRIPTIONS BY TRACK (continued)

integrate with data binding libraries including Knockout and Angular.

You will learn:

- How to issue rich client queries that execute server side with Breeze
- How to leverage caching, change tracking, and validation on the client side data model with Breeze
- How to persist changes to the back end via Breeze service calls

### TH07 Build Real-Time Websites and Apps with SignalR

*Introductory / Intermediate*

RACHEL APPEL

**Thursday, August 13, 9:30 - 10:45am**

If you've ever wanted to build a highly responsive app that leverages a real-time communications library, then SignalR is for you. Real-time Web functionality is the ability to have the server push messaging aggressively to the client, instead of relying on the client to make multiple and frequent requests. SignalR is a set of ASP.NET server and client libraries you can use to build real time, scalable, Web sites and apps. You can use SignalR in both enterprise and consumer apps and across platforms. This session covers what you need to know to build a SignalR app that connects multiple clients instantaneously.

### TH12 Knocking it Out of the Park with Knockout.JS

*Intermediate*

MIGUEL CASTRO

**Thursday, August 13, 11:00am - 12:15pm**

MVVM on the Web can really work. If you don't know what Knockout.JS is, you really need to come see me show you the what's, how's, and why's. Knockout.JS lets you do real MVVM on your HTML. This isn't a large complicated framework like Angular. It does one thing and one thing only, binding; it does that really well, and

sometimes that's all you may need. With the help of Web API and Ajax, you can overcome any shortcoming that cannot be totally handled on the client. So come to this session and add another great tool to your Web arsenal. You'll be on your way to doing single-page-applications on the web in no time.

You will learn:

- How to understand MVVM in the Web world
- How to use Knockout.JS in ASP.NET MVC
- How to integrate Web API with Knockout.JS

### TH17 ASP.NET MVC: All Your Tests Are Belong To Us

*Intermediate / Advanced*

RACHEL APPEL

**Thursday, August 13, 2:15 - 3:30pm**

You've spent time and effort to build a Web site, and you have to verify it works correctly. You may tire of manually testing Web pages, which is also an error prone process in itself. Have you ever asked yourself if there must be an easier way? Would you like to learn how test all facets of an ASP.NET Web Application? From C# on the server side, to JavaScript on the client, complete with automated UI testing? In this session, you'll learn everything you need to know about how to properly test ASP.NET MVC Applications. We'll review testing server side controllers with xUnit, followed by a look at testing JavaScript in MVC Views with qUnit. Once we've covered unit testing, then we'll move onto UI automation testing with WebDriver. You'll learn everything you need to know about how to get up and get testing.

You will learn:

- About the basics of unit and automated UI testing
- How to unit test with xUnit, qUnit, and automate with WebDriver
- Best practices for testing

### TH22 Busy JavaScript Developer's Guide to ECMAScript 6

*Intermediate*

TED NEWARD

**Thursday, August 13, 3:45 - 5:00pm**

ECMAScript is better known by its original name JavaScript. It has been characterized as the "assembly language of the Web." This is largely due to its widespread dispersal through the innumerable Web browsers installed on end-users/consumers machines (and mobile devices) over the years. In fits and starts, various organizations, corporations and projects have sought to advance the language, but all have met some degree of failure in one sense or another. Finally, with the upcoming ECMA standard for ECMAScript 6 ("Harmony"), we think we have some progress. In this session, we're going to look at the proposed changes to ECMAScript/JavaScript, and have a look at what "JavaScript++" will look like, once it finally rolls out to the browsers.

You will learn:

- All about the New syntax
- All about the New semantics
- All about the New idioms

**"I REALLY LIKED THE LOCATION, CONTENT, PRICE, FOOD, AND PRIZES!"**

*- Stacy Shaw,  
Triumph Group*

## SESSION DESCRIPTIONS BY TRACK (continued)

### Windows Client (Windows 8.1/WinRT, WPF)

There are more than one billion Windows PCs in the world. Given the media attention on mobile development, it can be easy to forget that Windows remains the dominant OS. This track is focused on building Windows apps using the re-energized WPF technology as well as the newer Windows Runtime (WinRT) technology for Windows 8.1, Windows 10, Windows Phone, and other Microsoft devices and platforms. This track includes coverage of the following:

- UX Design Principles
- UX for Data Visualization in XAML
- Universal Apps for Windows and Windows Phone
- Building Windows 10 LOB Apps

### M01 Workshop: Building Universal Apps for Desktop, Store, and Phone

*Intermediate*

PHILIP JAPIKSE

**Monday, August 10, 8:00am - 6:00pm**

XAML is far from dead. Whether you are creating applications for the Windows Desktop (going back to Windows Vista), Windows Store Apps, or Windows Phone, XAML is your best friend. Prescriptive design, flexible flow layout, templating, and awesome data binding are just some of the great features available from XAML and C#.

In this workshop, I will teach you to build XAML based applications from the ground up, starting with Windows Presentation Foundation, moving to Windows 8.1, and finishing with Windows Phone 8.

You will learn:

- Building Windows Presentation Foundation (WPF) applications for Windows
- Building Windows 8.1 apps
- Building Windows Phone 8 apps

### T13 Windows, NUI, and You

*Introductory / Intermediate*

BRIAN RANDELL

**Tuesday, August 11, 2:30 – 3:45pm**

In this session, Brian will show you how to build great modern experiences including touch, voice, and motion using C# and .NET. You'll dig into design patterns around Natural User Interfaces (NUI) and learn how to build rich experiences that support devices beyond keyboard and mouse. You'll go through the entire process from wire framing, development, to testing of an app that supports touch as well as voice and motion. We'll be looking at various types of hardware including Kinect.

You will learn:

- About NUI options in Windows
- How to use C# with Kinect
- About different NUI hardware Options

### T18 Building Windows 10 LOB Apps

*Intermediate*

ROBERT GREEN

**Tuesday, August 11, 4:15 – 5:30pm**

In this session, we will explore developing line-of-business apps for Windows 10 (including Phone). Why should you consider this and what are the benefits? What are your options for accessing and storing data, both locally and remotely? What are your options for securing data? How do you authenticate app users, regardless of which device they're using and whether they are on or off premise? How do you test Windows 10 apps on the devices they will run on? How do you deploy Windows 10 apps?

You will learn:

- How to Build Windows 10 LOB apps
- How to access and secure data, authenticate users, and test Windows 10 LOB apps
- How to deploy Windows 10 LOB apps

### W02 Implementing M-V-VM (Model-View-View Model) for WPF

*Intermediate / Advanced*

PHILIP JAPIKSE

**Wednesday, August 12, 9:15 – 10:30am**

Now you're writing WPF applications and wondering what is all this code in the code behind? Shouldn't we be doing something different? Our cousins working with ASP.NET MVC don't even have a code behind! The answer is YES - you should indeed be doing it differently. The M-V-VM pattern is a refinement of the Presentation Model pattern (first documented by Martin Fowler). You'll learn what you need to know to implement M-V-VM pattern in WPF for building SOLID WPF applications that are testable, reusable, and maintainable.

You will learn:

- What the MVVM Pattern is and when to use it
- How the WPF framework supports the MVVM pattern
- How to implement testable WPF applications without relying on outside frameworks

## SESSION DESCRIPTIONS BY TRACK (continued)

### W12 Strike up a Conversation with Cortana on Windows Phone

*Introductory / Intermediate*

WALT RITSCHER

**Wednesday, August 12, 1:30 - 2:45pm**

Windows Phone has always had a great speech API. In Windows Phone 8.1, Microsoft adds Cortana, a speech enabled personal assistant. Working with Cortana in your application is similar to the way voice commands have always worked in Windows Phone. In this session, you'll learn how to add voice control to your Windows Phone app through the Speech API.

You will learn:

- How to add custom vocabularies to the speech engine
- How to configure Cortana to invoke your app action
- How to talk back to the user with the synthesis engine
- How to add custom voice control within your app

### TH16 Extending XAML to Overcome Pretty Much any Limitation

*Intermediate*

MIGUEL CASTRO

**Thursday, August 13, 2:15 - 3:30pm**

One of the things I've always said about WPF is that there is nothing I can't do in an application. When Microsoft set out to design WPF, Silverlight, and now WinRT XAML Apps, they architected it in a way that if you come across anything that they didn't think of, you can extend the platform yourself. In this session I'll show you how to develop value converters, two types of behaviors, and your own markup extensions. Behaviors are elements that you set to something in order to add characteristics and functionality to XAML, while markup extensions are what you set properties to. The {Binding} markup extension is one that Microsoft provided for you, now come learn how to write your own, and then some.

You will learn:

- XAML extensibility capabilities
- Insight into XAML internals
- Proper usage of various techniques

## Microsoft Sessions



STAY TUNED! See [page 11](#) for more about these exciting Sessions!

**"THE ORGANIZATION, CLARITY, LOGISTICS AND GUIDANCE WAS EXCELLENT AND FACILITATED PRODUCTIVE NETWORKING AND TECHNICAL SKILLS DISTRIBUTION AND LEARNING."**

*- Scott Hanson, Claimremedi*

## CONFERENCE ADVISORY BOARD

### Andrew Brust

Senior Director, Datameer  
Visual Studio Live! Conference Co-Chair



Andrew Brust is Senior Director, Technical Product Marketing and Evangelism at Datameer (<http://www.datameer.com>) and writes a blog for ZDNet called "Big on Data" (<http://www.zdnet.com/blog/big-data>). Andrew is co-author of "Programming Microsoft SQL Server 2012" (Microsoft Press); an advisor to NYTECH, the New York Technology Council; co-moderator of Big On Data - New York's Data Intelligence Meetup; serves as Microsoft Regional Director and MVP; and writes the Redmond Review column for VisualStudioMagazine.com.

### Michael Desmond

Editor in Chief, MSDN Magazine



Michael Desmond is editor in chief of MSDN Magazine, Microsoft's flagship publication for software developers working with Microsoft tools and technologies. A 20-year veteran in IT and technology publishing, Desmond was an editor at PC World magazine for six years before launching an editorial consultancy that did work for leading technology firms like IBM, Intel and Sun Microsystems.

### Michael Domingo

Editor in Chief, Visual Studio Magazine



Michael Domingo is Editor in Chief of Visual Studio Magazine. He's been a technology journalist for more than 20 years, covering database management systems, technology certifications, and the breadth of Microsoft development and networking tools over those years. You can find him on Twitter @domingophoto.

### Rockford Lhotka

CTO, Magenic  
Visual Studio Live! Conference Co-Chair



Rockford Lhotka is the CTO of Magenic, and is the creator of the widely used CSLA .NET development framework. He is the author of numerous books on software development, and regularly speaks at major conferences around the world. Rockford is a Microsoft Regional Director and MVP. Magenic ([magenic.com](http://magenic.com)) is a company that specializes in planning, designing, building and maintaining your enterprise's most mission critical systems. For more information go to [lhotka.net](http://lhotka.net).

### Lafe Low

Editor, Visual Studio Live!



Lafe Low has been a technology editor and writer for more than 25 years. Most recently, he was the editor in chief of TechNet magazine. He has also held various editorial positions with Redmond magazine, CIO magazine and InfoWorld. He also launched his own magazine entitled Explore New England, and has published four editions of his guidebook The Best in Tent Camping: New England.

### Brian Randell

Partner, MCW Technologies  
Visual Studio Live! Conference Co-Chair



Brian A. Randell is a Partner with MCW Technologies LLC. For more than 20 years he has been building software solutions. He educates teams on Microsoft technologies via writing and training—both in-person and on demand. He's also a consultant for companies small and large, worldwide, including Fortune 100 companies like Microsoft. Brian is a passionate software craftsman who still enjoys coding as he helps teams to improve their processes from idea to shipping to production management and monitoring. In addition, he's become obsessed over the last few years with natural user interfaces and how to create compelling user experiences regardless of platform. In early 2010, he toured the world prepping Microsoft employees and Microsoft partners for the Microsoft Visual Studio 2010 launch. In 2012, he and his team built some of the first training content and demos for Microsoft using Visual Studio 2012, Team Foundation Server 2012, and Windows 8. For the 2013 release, he continued building new ALM content for use worldwide by Microsoft. He's currently a Visual Studio ALM MVP and co-author of "Professional Application Lifecycle Management with Visual Studio 2013" from Wrox Publishing. When not working, Brian enjoys spending time with his wife and two children who enjoy making him look bad on the Xbox One (with and without Kinect).

## CONFERENCE SPEAKERS

### Rachel Appel *Appel Consulting*



Rachel is a consultant, author, mentor, and former Microsoft employee with over 20 years in the IT industry who speaks at top industry conferences such as Visual Studio Live!, Live! 360, and MIX. During her career, Rachel has worked on projects of all sizes from the smallest of apps to the largest enterprise systems at some of the world's leading companies. Rachel's expertise lies within developing solutions that align business and technology, focusing on In frameworks, languages, databases, software practices, and more.

### Jason Bock *Practice Lead, Magenic*



Jason Bock is a Practice Lead for Magenic (<http://www.magenic.com>) and a Microsoft MVP (C#). He has worked on a number of business applications using a diverse set of substrates and languages such as C#, .NET, and Java. He is the author of "Metaprogramming in .NET", "Applied .NET Attributes", and "CIL Programming: Under the Hood of .NET". He has written numerous articles on software development issues and has presented at a number of conferences and user groups. He is a leader of the Twin Cities Code Camp (<http://www.twincitiescodecamp.com>). Jason holds a Master's degree in Electrical Engineering from Marquette University. Visit his web site at <http://www.jasonbock.net>.

### Anthony Borton *ALM Consultant & Trainer, Enhance ALM*



Anthony Borton is the lead ALM consultant for Enhance ALM Pty Ltd, an Australian consulting and training company specializing in Application Lifecycle Management and Microsoft Visual Studio. He has been a Microsoft Certified Professional since 1993 (MS exam 001), a Microsoft Certified Trainer since 1996 and a Microsoft Visual Studio

ALM MVP since 2006. Anthony delivers training on Microsoft's ALM products through Kirkland-based training provider, QuickLearn Inc and is the lead ALM trainer behind [www.alm-training.com](http://www.alm-training.com). Over the past 4 years Anthony has travelled over a million kilometres to help development teams succeed more often using Application Lifecycle Management on the Microsoft stack.

### Eric D. Boyd *Founder and CEO, responsiveX*



Eric D. Boyd is the Founder and CEO of responsiveX, a Windows Azure MVP, and a regular speaker at national conferences, regional code camps and local user groups. He is so passionate about apps and cloud services that he founded responsiveX ([www.responsiveX.com](http://www.responsiveX.com)), a management and technology consultancy that helps customers create great web, mobile and client experiences, and these apps are often powered by cloud services. Eric launched his technology career almost two decades ago with a web development startup and has served in multiple roles since including developer, consultant, technology executive and business owner. You can find Eric blogging at <http://www.EricDBoyd.com> and on Twitter at <http://twitter.com/EricDBoyd>.

### Andrew Brust *Senior Director, Datameer Visual Studio Live! Conference Co-Chair*



Andrew Brust is Senior Director, Technical Product Marketing and Evangelism at Datameer ([datameer.com](http://datameer.com)) and writes a blog for ZDNet called "Big on Data" ([zdnet.com/blog/big-data](http://zdnet.com/blog/big-data)). Andrew is co-author of "Programming Microsoft SQL Server 2012" (Microsoft Press); an advisor to NYTECH, the New York Technology Council; co-moderator of Big On Data - New York's Data Intelligence Meetup; serves as Microsoft Regional Director and MVP; and writes the Redmond Review column for [VisualStudioMagazine.com](http://VisualStudioMagazine.com).

### Miguel Castro *Principal Consultant, Melvicorp LLC*



Whether playing on the local Radio Shack's TRS-80 or designing systems for clients around the globe, Miguel has been writing software since he was 12 years old. He insists on staying heavily involved and up-to-date on all aspects of software application design & development, and projects that diversity onto the type of training and consulting he provides to his customers and believes that it's never just about understand the technologies, but how technologies work together. In fact, it is on this concept that Miguel based two of his Pluralsight courses, Building End-to-End Multi-Client Service Oriented Applications, which was #1 for several weeks, and Developing Extensible Software. Miguel is a Microsoft MVP since 2005 and when he's not consulting or training, Miguel speaks at conferences around the world, practices combining on-stage tech and comedy, and never misses a Formula 1 race. But best of all, he's the proud father of a very tech-savvy 10 year old girl, and a proud husband to the woman that homeschools her.

### Benjamin Day *Benjamin Day Consulting, Inc.*



Benjamin Day is a consultant and trainer specializing in software best practices using Scrum with Microsoft's ALM tools. Ben's main areas of emphasis include Team Foundation Server, Scrum, software testing, and software architecture. He is a Microsoft Visual Studio ALM MVP, a certified Scrum trainer via Scrum.org, and a speaker at conferences such as TechEd, Agile, Visual Studio Live!, and DevTeach. When not developing software, Ben's been known to go running and sea kayaking in order to balance out his love of cheese, cured meats, and champagne. He can be contacted via <http://www.benday.com>. the house, or, if it's windy, kitesurfing. You can find Ben online on Twitter, StackOverflow, or on his blog at <http://bendaway.com/blog>.

## CONFERENCE SPEAKERS, CONTINUED

### Jon Flanders

Senior Consultant, MCW Technologies



Jon is a member of the technical staff at MCW, where he focuses on connected systems technologies. Jon is most at home spelunking, trying to figure out how things work from the inside out. Jon is the author of RESTful.NET from O'Reilly, as well as Essential ASP for Addison-Wesley, and was a co-author of Mastering Visual Studio.NET for O'Reilly. Jon's current major interest is helping people to understand the advantages of REST and using services to build mobile apps and web sites. You can read his blog at <http://www.rest-ful.net/>

### Kevin Ford

Practice Lead, Magenic



Kevin Ford is a Practice Lead with Magenic Technologies out of their Boston Office. For the past twenty years he has specialized in enterprise application development using the Microsoft stack. Kevin is an accomplished .NET architect and leader at Magenic. He works with each region to ensure that Magenic consultants have the right relationships, resources, and opportunities to advance their technical skills. Kevin also maintains the Xamarin Android implementation of the CSLA framework.

### Robert Green

Technical Evangelist, Microsoft



Robert Green is a Technical Evangelist in the Developer & Platform Evangelism (DPE) group at Microsoft. He focuses on Visual Studio and Windows 8 enterprise development. Robert is the host of the Visual Studio Toolbox show on Channel 9. This is his second stint at Microsoft. From 2005 to 2010 he was a Sr. Consultant with MCW Technologies, focused on developer training. He authored or co-authored a number of Visual Studio and .NET courses for AppDev. Prior to that, in his first stint at Microsoft, he worked in Developer Tools marketing and then as the Community Lead on the Visual Basic team.

### Billy Hollis

Next Version Systems



Billy Hollis is an author and software developer from Nashville, Tennessee. Billy is co-author of the first book ever published on Visual Basic .NET, VB .NET Programming on the Public Beta. He has written many articles, and is a frequent speaker at conferences. He is the Regional Director of Developer Relations in Nashville for Microsoft, and runs a consulting company focusing on Microsoft.NET. You can visit his website at: [www.billyhollis.com](http://www.billyhollis.com).

### Richard Hundhausen

Consultant / Trainer, Accentient



Richard has over 30 years of software development experience and over 20 years of training experience. Richard is a Microsoft Regional Director, a Visual Studio ALM MVP, a certified Professional Scrum Trainer, and author of several software development books including Professional Scrum Development with Microsoft Visual Studio 2012 by Microsoft Press.

### Philip Japikse

Principal Software Engineer, Strategic Data Systems, Inc.



A Principal Software Engineer with Strategic Data Systems, international speaker, Microsoft MVP, ASPInsider, MCSD, CSM, and CSP, and a passionate member of the developer community, Phil Japikse has been working with .NET since the first betas, developing software for over 30 years, and heavily involved in the agile community since 2005. Phil is the Lead Director for the Cincinnati .NET User's Group and the Cincinnati Software Architect Group, co-hosts the Hallway Conversations podcast, founded the Cincinnati Day of Agile, and volunteers for the National Ski Patrol. Phil enjoys to continuously learn new tech and is always striving to improving his craft. You can follow Phil on twitter via [www.twitter.com/skimedica](http://www.twitter.com/skimedica) and read his blog at [www.skimedica.com/blog](http://www.skimedica.com/blog).

### Deborah Kurata

President, InStep Technologies, Inc.



Deborah Kurata is cofounder of InStep Technologies Inc., a professional consulting firm that focuses on turning your business vision into reality using Microsoft .NET technologies. She has over 15 years of experience in architecting, designing, and developing successful applications. Deborah has authored several books, including the "Doing Objects in Visual Basic" series (Addison-Wesley), "Best Kept Secrets in .NET" (Apress) and "Doing Web Development: Client-Side Techniques" (Apress). Deborah speaks at conferences such as VSLive, DevDays, and TechEd. For her work in support of software development and software developers, she has been recognized with the Microsoft Most Valuable Professional (MVP) award. After a hard day of coding and taking care of her family, Deborah enjoys blowing stuff up (on the Xbox of course).

### Nick Landry

Senior Technical Evangelist, Microsoft



Nick Landry (@ActiveNick) is a mobility pioneer specializing in the design and production of mobile applications for consumers and the enterprise using diverse cross-platform technologies including Windows Phone, Windows 8, iOS, Android, Mobile Web, Xamarin and PhoneGap. Nick works at Microsoft as a Senior Technical Evangelist in the New York Metro area and engages with developers, students and IT pros to help them learn, adopt and use the Microsoft developer platform to design and build the next generation of apps for Windows Phone, Windows 8 and Windows Azure. Nick is also a Nokia Developer Ambassador whose mandate is to educate and support Windows Phone developers to maximize their success. Prior to joining Microsoft, Nick spent almost two years as a Senior Product Manager for mobile, data visualization and geospatial developer tools across multiple technologies and platforms. He previously spent most his career in IT consulting and services organizations across various technical and business roles, designing, building, managing and selling innovative software solutions for

## CONFERENCE SPEAKERS, CONTINUED

some of the world's top brands and Fortune 500 companies. Known for his dynamic and engaging style, he is a frequent speaker at major software development conferences worldwide like VSLive, CodePalousa, Prairie DevCon, HDC, DevTeach, Xamarin Evolve, DevConnections, TechEd, and others. Nick was a 10-year Microsoft MVP awarded on Windows Phone Development, and is a Nokia Developer Champion. With over 20 years of professional experience, Nick is a developer and software architect by trade and specializes in Cross-Platform Mobility, Location Intelligence & Geospatial development, Data Visualization, Cloud Computing and Mobile Game Development. He authored multiple technical magazine articles, white papers, and mobility courses, has been a technical editor for IT books, and holds several professional certifications. Blog: [www.AgeofMobility.com](http://www.AgeofMobility.com) – LinkedIn: [www.linkedin.com/in/activenick](http://www.linkedin.com/in/activenick)

### **Vishwas Lele** *Architect, AIS*



Vishwas Lele is an AIS Chief Technology Officer and is responsible for the company vision and execution of creating business solutions using .NET technologies. Vishwas brings close to 20 years of experience and thought leadership to his position, and has been at AIS for 13 years. A noted industry speaker and author, Vishwas is the Microsoft Regional Director for the Washington, D.C. area and a member of the Connected Systems Division Advisors group. Additionally, Vishwas has received an MVP (Most Valuable Professional) for Solution Architecture award for 2009.

### **Leonard Lobel** *CTO, Sleek Technologies, Inc.*



Leonard Lobel is the chief technology officer (CTO) and co-founder of Sleek Technologies, Inc., a New York-based development shop with an early adopter philosophy toward new technologies that services organizations ranging from small shops to high-profile clients. He is also a principal consultant at Tallan, Inc., a Microsoft Gold Certified Partner. Programming since 1979,

Lenni specializes in Microsoft-based solutions, with experience that spans a variety of business domains, including publishing, financial, wholesale/retail, health care, and e-commerce. Lenni is also a Microsoft MVP for SQL Server, lead author of the MS Press book "Programming Microsoft SQL Server 2008" (currently being updated for SQL Server 2012), consultant, trainer, and frequent speaker at local user group meetings, Visual Studio Live!, SQL PASS, and other industry conferences. He can be reached at [lenni.lobel@sleektech.com](mailto:lenni.lobel@sleektech.com).

### **Ted Neward** *CTO, iTrellis*



Ted Neward is a programming language, virtual machine, and enterprise-scale architect. He is the CTO of iTrellis, a company focused on helping companies ease IT pain into IT growth, and he has written a dozen books and hundreds of articles on .NET, Java, enterprise systems, mobile development, and programming languages. He resides in the Pacific Northwest, and can be found on the Internet at [www.tedneward.com](http://www.tedneward.com), [www.itrellis.com](http://www.itrellis.com), @tedneward on Twitter, and blogs at [blogs.tedneward.com](http://blogs.tedneward.com).

### **Brian Noyes** *CTO, Solliance*



Brian Noyes is CTO and Architect at Solliance. Brian is a Microsoft Regional Director and MVP, and specializes in rich client technologies including XAML and HTML 5, as well as building the services that back them with WCF and ASP.NET Web API. Brian has authored several books including Developer's Guide to Microsoft Prism 4, Data Binding with Windows Forms 2.0, and Smart Client Deployment with ClickOnce. He publishes articles frequently in a variety of publications and speaks at conferences worldwide including Microsoft TechEd, Visual Studio Live!, DevTeach and others. Brian got started programming as a hobby while flying F-14 Tomcats in the U.S. Navy, later turning his passion for software into his current career. You can follow Brian through his blog at <http://briannoyes.net> and Twitter @briannoyes.

### **Brian Randell** *Partner, MCW Technologies* *Visual Studio Live! Conference Co-Chair*



Brian A. Randell is a Partner with MCW Technologies LLC. For more than 20 years he has been building software solutions. He educates teams on Microsoft technologies via writing and training—both in-person and on demand. He's also a consultant for companies small and large, worldwide, including Fortune 100 companies like Microsoft. Brian is a passionate software craftsman who still enjoys coding as he helps teams to improve their processes from idea to shipping to production management and monitoring. In addition, he's become obsessed over the last few years with natural user interfaces and how to create compelling user experiences regardless of platform. In early 2010, he toured the world prepping Microsoft employees and Microsoft partners for the Microsoft Visual Studio 2010 launch. In 2012, he and his team built some of the first training content and demos for Microsoft using Visual Studio 2012, Team Foundation Server 2012, and Windows 8. For the 2013 release, he continued building new ALM content for use worldwide by Microsoft. He's currently a Visual Studio ALM MVP and co-author of "Professional Application Lifecycle Management with Visual Studio 2013" from Wrox Publishing. When not working, Brian enjoys spending time with his wife and two children who enjoy making him look bad on the Xbox One (with and without Kinect).

### **Walt Ritscher** *Founder, Scandia Enterprises*



Walt's enthusiasm for crafting software interfaces blossomed early. Just a few days after discovering how to make pixels move around the screen of a borrowed computer he was devouring books on the topic of computer graphics and UI design. Now he travels the world speaking at software conferences and teaching a diverse portfolio of programming topics for corporate clients. On the consulting side he continues to work with customers like Microsoft, HP, Intel, and Intuit and enjoys being part of the Wintellect consultant group. Recently he has entered the video training market

## CONFERENCE SPEAKERS, CONTINUED

producing .NET titles for Lynda.com He writes for several publications including Code Magazine and TechTarget.com and has a new "HLSL and Pixel Shaders for XAML Developer" book available from O'Reilly Media. His current UI obsession revolves around the Windows 8 Metro, Silverlight, Surface and WPF APIs. You can find his blog at [blog.xamlwonderland.com](http://blog.xamlwonderland.com). Walt is also a Microsoft MVP and author of the free Shazzam WPF Shader utility ([shazzam-tool.com](http://shazzam-tool.com)).

**Mark Rosenberg**  
*Technical Instructor, New Horizons*



Mark Rosenberg has been writing software with Microsoft technologies since 1997. He has been speaking to user groups and at code camps since 2005 and been a certified trainer since 2007. Mark likes to talk to developers and has been talking to anyone who will listen. He is very active in the community, both speaking at user groups, former INETA Board member and still active with INETA. He currently is working as an senior development instructor at New Horizons in Austin, TX.

**Adam Tuliper**  
*Sr. Technical Evangelist, Microsoft*



Adam works as a Technical Evangelist for Microsoft. Prior to that he worked as a software architect in defense, finance, pharma, manufacturing, technology, and public sector fields over a span of 18+ years. He has a security background, and is deeply involved with web technologies.



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### Windows Developer User Group

[www.meetup.com/windowsdevug](http://www.meetup.com/windowsdevug)

## PREMIER MEDIA PARTNERS



### .NET Developers Association

The .NET Developers Association is an Eastside community oriented group aimed at furthering the education of .NET developers. [www.meetup.com/.NET-Developers-Association](http://www.meetup.com/.NET-Developers-Association)



### Central Ohio Cloud Computing User Group

The Central Ohio Cloud Computing User Group is a monthly meeting to discuss many aspects of cloud computing. The group is a community driven group which will discuss a wide range of ideas, problems, solutions, and technologies which compromise cloud computing. If it is cloud computing related, we're into it! <http://coccug.com>

### Chicago Area DNN Users Group

### Chicago DNN Users Group

The Chicago Area DotNetNuke Users Group supports users, developers, and organizations that use and develop websites for DotNetNuke within the Chicagoland area. [www.chicagodnn.org](http://www.chicagodnn.org)

### UserGroup.TV

### UserGroup.TV

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## MEDIA PARTNERS



### Canada's Technology Triangle .NET User Group

[www.meetup.com/CTTDNUG](http://www.meetup.com/CTTDNUG)

### Haishi Bai

Haishi Bai  
<http://haishibai.blogspot.com>



### London .NET Developers Group

[www.meetup.com/London-NET-Developers-Group](http://www.meetup.com/London-NET-Developers-Group)

### TVUG

### Tech Valley .NET User Group

[www.tvug.net](http://www.tvug.net)

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### Microsoft Headquarters

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### Shuttle Service to and from the Microsoft Campus

Visual Studio Live! will provide daily complimentary shuttle transportation between the Hyatt Regency Bellevue and the Microsoft Conference Center (Building 33) on the Microsoft Campus. This shuttle service will be available to all attendees with a valid conference badge.

\* Rooms are subject to availability and applicable Bellevue hotel occupancy tax and TID assessment.

### Travel

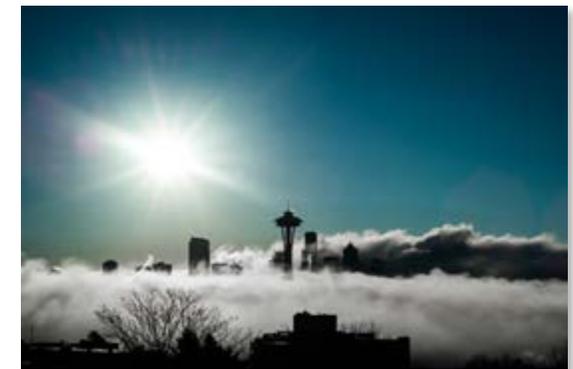
**AVIS RENT-A-CAR IS OFFERING** a discount on car rental for Visual Studio Live! attendees. To receive the discounted rates, call Avis at 800.331.1600 and use the Avis Worldwide Discount (AWD) number D005872, or [click here](#) to make your reservation online.

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