Visual Studio LIVE!
EXPERT SOLUTIONS FOR .NET DEVELOPERS

YOUR BACKSTAGE PASS TO THE MICROSOFT PLATFORM

CHICAGO | MAY 13-16, 2013
CHICAGO HILTON

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Visual Studio LIVE!
EXPERT SOLUTIONS FOR .NET DEVELOPERS
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Intense Take-Home Training for Developers, Software Architects and Designers

Sweet 127.0.0.1 Chicago!

Visual Studio Live! Track Topics:

➤ **ASP.NET**

➤ **Azure / Cloud Computing**

➤ **Cross-Platform Mobile**

➤ **Data Management**

➤ **HTML5 / JavaScript**

➤ **SharePoint / Office**

➤ **Windows 8 / WinRT**

➤ **WPF / Silverlight**

➤ **Visual Studio 2012 / .NET 4.5**

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CHICAGO | MAY 13-16, 2013

HILTON CHICAGO

Contents

A Message from the Conference Co-Chairs

This year, the Microsoft Development Platform has reached a huge milestone. Windows 8, Windows RT and Windows Phone 8 are out and share common APIs. Add to that the industry-wide HTML5 push, Big Data and various enhancements to Windows Azure nearing general availability, and just about the whole stack has changed, or will very soon.

We think there's a great way to digest these changes and seize their collective opportunity. And that's to hear about them directly from the finest expert speakers in the business.

We're Andrew Brust and Rocky Lhotka, and as Conference Co-Chairs for Visual Studio Live! Chicago, we'd like to personally invite you to join us this May at the Hilton Chicago, where we'll have some of the best content and speakers that you'll find at a technical conference.

We've put together a blockbuster lineup of sessions on: Windows 8/WinRT, ASP.NET, HTML5/JavaScript, Mobile Development, WPF/Silverlight, Data Management, SQL Server, Azure/Cloud Computing and SharePoint/Office 2013.

We've also got coverage on technologies like HDInsight (Hadoop on Windows), Microsoft Visual Studio 2012/.NET 4.5, and Visual Studio LightSwitch. Then there's our extensive workshop content, covering Windows 8, Visual Studio ALM, and SQL Server 2012. These sessions and workshops burrow deep into the new subjects you need to master and the fundamentals that are always important.

Hardcore content from independent experts isn't a luxury. With so much change in the Microsoft stack, it's a necessity. Don't be overwhelmed by the change…find a way to get to Visual Studio Live! Chicago and embrace it instead.

Andrew Brust
Visual Studio Live! Co-Chair

Rockford Lhotka
Visual Studio Live! Co-Chair

Visual Studio Live! Chicago Advisory Council

Andrew Brust
Visual Studio Live! Chicago Co-chair
Founder & CEO, *Blue Badge Insights*

Michael Desmond
Editor in Chief, *MSDN Magazine*

Rockford Lhotka
Visual Studio Live! Chicago Co-chair
CTO, *Magenic*

Keith Ward
Editor in Chief, *Visual Studio Magazine*

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Reasons to Attend
Visual Studio Live! Chicago

1. **AN EVENT YOU KNOW AND TRUST.** In 2013, Visual studio Live! is celebrating 20 years of education and training for the developer community.

2. **DA' DEALS.** Get in-depth .NET education (and lots of it) at a reasonable price.

3. **MORE VIEWS THAN THE SEARS (AHEM, WILLIS) TOWER.** We feature both unbiased industry experts and Microsoft insiders, so you'll hear every side of the story on the most recent software and industry updates.

4. **NETWORK WITH YOUR NEIGHBORS.** Developers, software architects and designers will all be at the conference – take advantage of meal times and networking events to get to know your fellow attendees and speakers.

5. **MORE STUFFED THAN A CHICAGO DEEP DISH.** The information-packed 4-day agenda offers multiple sessions in tracks such as Visual Studio 2012/.NET 4.5, Azure/Cloud Computing, Cross-Platform Mobile and Windows 8 /WinRT.

6. **SPEAKERS COMING OUTTA YOUR EARS.** Come hear your favorite industry speakers all in one place, including Jason Bock, Miguel Castro, Billy Hollis, Leonard Lobel and Brian Randell — just to name a few.

7. **NOW. NEW. NEXT.** Find out what's happening in the Microsoft and developer landscape.

8. **FULL-DAY DEVELOPER WORKSHOPS.** Come in on Monday and attend a pre-conference workshop on Windows 8 Applications, SharePoint 2013 for developers, Using WCF and ASP.NET Web API, Visual Studio 2012 or SQL Server 2012.

9. **NOT QUITE THE BLUES BROTHERS, BUT . . .** our conference co-chairs Andrew Brust and Rockford Lhotka are still on a mission. They've been working hard all year to bring you the most up-to-date and relevant information on the Microsoft stack.

10. **SWEET 127.0.0.1 CHICAGO!** After a too-long hiatus, we're thrilled to be back in Chicago! Bring on the windy streets, pop, deep dish pizza and hotdogs (no ketchup)!

Events

THE FUN STUFF: VISUAL STUDIO LIVE! CHICAGO EVENTS

Your attendance at Visual Studio Live! Chicago 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!

EXHIBITOR WELCOME RECEPTION
Tuesday, May 14 – 6:00 – 7:30 p.m.

All conference attendees are invited to celebrate the start of Visual Studio Live! Chicago at the Exhibitor Welcome Reception. Join us in the expo area to network with fellow conference attendees and speakers, talk with the event sponsors, enjoy complimentary drinks and hors d'oeuvres, and participate in the conference raffle.

ROUND TABLE LUNCH
Wednesday, May 15, 12:00 – 1:30 p.m.

Plumb the knowledge and experience of your colleagues, conference speakers and exhibitors by participating in one of the Luncheon Round Tables discussions. These tables are designated with a sign and seating is on a first-come

basis. There will be a wide variety of topics including:

• ASP.NET (Web Forms, MVC)
• WPF / Silverlight
• Visual Studio
• Languages (VB, C#, JavaScript)
• ALM
• SharePoint and Office
• LINQ, Entity Framework, ADO.NET
• Services (WCF, Web API, OData)
• .NET 4.5
• Windows Azure
• Mobile Development
• LightSwitch
• HTML5/IE 10/Typescript
• Windows 8/WinRT apps

BLUES AFTER DARK AT BUDDY GUY'S LEGENDS
Wednesday, May 15, 6:30 - 8:30 pm

Buddy Guy's Legends, 700 S. Wabash Ave., Chicago, IL

Chicago is known for blues, that's why Visual Studio Live! Chicago is hosting a reception at Buddy Guy's Legends for all conference attendees. After a full day of sessions and code, code, code, we're giving you the perfect excuse to sit back, relax with a cocktail, Cajun soul food, and Live! Blues.

Located just three blocks from the Hilton Chicago, Buddy Guy's

Legends will be everything a developer needs after an exciting day of in-depth content. Great blues music, fantastic company, and a selection of hors d'oeuvres and cocktails to unwind with.

What: Blues after Dark at Buddy Guy's Legends

Where: Buddy Guy's Legends, 700 S. Wabash Ave., Chicago, IL

When: 6:30 pm on May 15, 2013

Why: Cocktails, Cajun hors d'oeuvres, music, friends. What else could you need?

And, the best part? You don't have to get on any guest list for this party. Simply show your Visual Studio Live! badge at the door and that's it!

Visual Studio LIVE!

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Agenda At-A-Glance (Monday & Tuesday)

Windows 8 / WinRT	WPF/ Silverlight	ASP.NET	Visual Studio 2012 / .NET	SharePoint / Office	Azure / Cloud Computing	Data Management	HTML5 / JavaScript	Cross-Platform Mobile

START TIME	END TIME	Visual Studio Live! Pre-Conference Workshops: Monday, May 13, 2013 (Separate entry fee required)						
7:30 AM	9:00 AM	Pre-Conference Workshop Registration						
9:00 AM	6:00 PM	MW01 - Workshop: Build a Windows 8 Application in a Day - *Rockford Lhotka*				MW02 - Workshop: SQL Server 2012 - *Andrew Brust & Leonard Lobel*		MW03 - Workshop: Happy ALM with Visual Studio 2012 and Team Foundation Server 2012 - *Brian Randell*	

START TIME	END TIME	Visual Studio Live! Day 1: Tuesday, May 14, 2013						
7:00 AM	8:00 AM	Registration						
8:00 AM	9:00 AM	Keynote: To Be Announced						
9:15 AM	10:30 AM	T01 - A Primer in Windows 8 Development with WinJS - *Philip Japikse*		T02 - jQuery Fundamentals - *Robert Boedigheimer*				T03 - Big Data-BI Fusion: Microsoft HDInsight & MS BI - *Andrew Brust*	T04 - Microsoft Session To Be Announced
10:45 AM	12:00 PM	T05 - Windows 8 Style Apps - Design Essentials - *Billy Hollis*		T06 - Hate JavaScript? Try TypeScript. - *Ben Hoelting*				T07 - Getting to Know the BI Semantic Model - *Andrew Brust*	T08 - IntelliTrace, What is it and How Can I Use it to My Benefit? - *Marcel de Vries*
12:00 PM	1:30 PM	Lunch						
1:30 PM	2:45 PM	T09 - MVVM in Practice aka ""Code Behind""- Free XAML - *Tiberiu Covaci*		T10 - Tips for Building Multi-Touch Enabled Web Sites - *Ben Hoelting*			T11 - Session To Be Announced		T12 - Team Foundation Server 2012 Builds: Understand, Configure, and Customize - *Benjamin Day*
3:00 PM	4:15 PM	T13 - New XAML Controls in Windows 8 - *Billy Hollis*		T14 - Beyond Hello World: A Practical Introduction to Node.js - *Rick Garibay*				T15 - Busy Developer's Guide to MongoDB - *Ted Neward*	T16 - Modern ALM and the DevOps Story - *Brian Randell*
4:15 PM	4:45 PM	Networking Break						
4:45 PM	6:00 PM	T17 - Make Your App Alive with Tiles and Notifications - *Ben Dewey*		T18 - Build Speedy Azure Applications with HTML5 and Web Sockets Today - *Rick Garibay*				T19 - Busy Developer's Guide to Cassandra - *Ted Neward*	T20 - Patterns for Parallel Programming - *Tiberiu Covaci*
6:00 PM	7:30 PM	Exhibitor Reception						

Speakers and Sessions Subject to Change.

Register at vslive.com/chicago

Agenda At-A-Glance (Wednesday)

Windows 8 / WinRT	WPF/ Silverlight	ASP.NET	Visual Studio 2012 / .NET	SharePoint / Office	Azure / Cloud Computing	Data Management	HTML5 / JavaScript	Cross-Platform Mobile

START TIME	END TIME	Visual Studio Live! Day 2: Wednesday, May 15, 2013			
7:00 AM	8:00 AM	Registration			
8:00 AM	9:00 AM	Keynote: To Be Announced			
9:15 AM	10:30 AM	W01 - Building Your First Windows Phone 8 Application - *Brian Peek*	W02 - What's New in Azure for Developers - *Vishwas Lele*	W03 - SQL Server Data Tools - *Leonard Lobel*	W04 - Design for Testability: Mocks, Stubs, Refactoring, and User Interfaces - *Benjamin Day*
10:45 AM	12:00 PM	W05 - Sharing Code Between Windows 8 and Windows Phone 8 Apps - *Ben Dewey*	W06 - In Depth Azure IaaS - *Vishwas Lele*	W07 - Working with Client-Side HTML5 Storage Technologies - *Gil Fink*	W08 - Microsoft Session To Be Announced
12:00 PM	1:30 PM	Round Table Lunch			
1:30 PM	2:45 PM	W09 - Connecting to Data from Windows Phone 8 - *Christopher Woodruff*	W10 - Moving Web Apps to the Cloud - *Eric D. Boyd*	W11 - LINQ Performance and Scalability - *Jim Wooley*	W12 - Microsoft Session To Be Announced
3:00 PM	4:15 PM	W13 - Building a Windows Runtime Component with C# - *Brian Peek*	W14 - IaaS in Windows Azure with Virtual Machines - *Eric D. Boyd*	W15 - OData - Oh Yeah - *Gil Fink*	W16 - Build Modern Collaborative Solutions with Office 2013, "Napa"" Office 365 Development Tools, and SharePoint 2013 - *Brian Randell*
4:15 PM	4:45 PM	Networking Break			
4:45 PM	6:00 PM	W17 - Demystifying the Microsoft UI Technology Roadmap - *Brian Noyes*	W18 - Bringing Open Source to Windows Azure: A Match Made in Heaven - *Jesus Rodriguez*	W19 - Not Just a Designer: Code First and Entity Framework - *Gil Fink*	W20 - Unit Testing in SharePoint - *Jim Wooley*
7:30 PM	8:30 PM	Blues after Dark at Buddy Guy's Legends			

Speakers and Sessions Subject to Change.

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Agenda At-A-Glance (Thursday)

Windows 8 / WinRT	WPF/ Silverlight	ASP.NET	Visual Studio 2012 / .NET	SharePoint / Office	Azure / Cloud Computing	Data Management	HTML5 / JavaScript	Cross-Platform Mobile

START TIME	END TIME	Visual Studio Live! Day 3: Thursday, May 16, 2013			
7:30 AM	8:00 AM	Registration			
8:00 AM	9:15 AM	**TH01** - Building Extensible XAML Client Apps - *Brian Noyes*	**TH02** - JavaScript, Meet Cloud: Node.js on Windows Azure - *Sasha Goldshtein*	**TH03** - Improving Web Performance - *Robert Boedigheimer*	**TH04** - Sharing Up to 80% of Code Building Mobile Apps for iOS, Android, WP 8 and Windows 8 - *Marcel de Vries*
9:30 AM	10:45 AM	**TH05** - Migrating from WPF or Silverlight to WinRT - *Rockford Lhotka*	**TH06** - Using Windows Azure to Build the Next Generation of Mobile Applications - *Jesus Rodriguez*	**TH07** - Controlling ASP.NET MVC4 - *Philip Japikse*	**TH08** - iOS Development Survival Guide for the .NET Guy - *Nick Landry*
11:00 AM	12:15 PM	**TH09** - Managing the .NET Compiler - *Jason Bock*	**TH10** - Cloud Backends for Your Mobile Apps: Windows Azure Mobile Services and Parse - *Sasha Goldshtein*	**TH11** - MVC for WebForms Developers: Comparing and Contrasting - *Miguel Castro*	**TH12** - Session To Be Announced
12:15 PM	1:30 PM	Lunch			
1:30 PM	2:45 PM	**TH13** - Understanding Dependency Injection and Those Pesky Containers - *Miguel Castro*	**TH14** - Using Windows Azure for Solving Identity Management Challenges - *Michael Collier*	**TH15** - Creating Web Sites Using Visual Studio LightSwitch - *Michael Washington*	**TH16** - Building Multi-Platform Mobile Apps with Push Notifications - *Nick Landry*
3:00 PM	4:15 PM	**TH17** - Static Analysis in .NET - *Jason Bock*	**TH18** - Elevating Windows Azure Deployments - *Michael Collier*	**TH19** - Building Single Page Web Applications with HTML5, ASP. NET MVC4 and Web API - *Marcel de Vries*	**TH20** - Create HTML5 Mobile Websites with Visual Studio LightSwitch - *Michael Washington*
4:30 PM	5:30 PM	Conference Wrap-Up - Andrew Brust, Moderator, Rockford Lhotka, Miguel Castro, Marcel de Vries, Jason Bock			

Speakers and Sessions Subject to Change.

Register at vslive.com/chicago

Visual Studio Live! Workshops

WORKSHOPS

Choose from a broad range of content and topics by expert presenters with Visual Studio Live! Chicago's Pre-Conference full day workshops.

■ MW01 Workshop: Build a Windows 8 Application in a Day
(Level: Introductory / Intermediate)
Rockford Lhotka
Monday, May 13   9:00am – 6:00pm

Building a Windows Runtime (WinRT) app requires that you understand the WinRT environment, API, and related services. In this workshop you'll learn how to build a WinRT app in .NET and XAML from the ground up. This includes choosing the right project template, building the UI, interacting with remote services, integrating with the Windows 8 operating system through charms and other WinRT API services, and more. By the end of the day you'll have a good understanding of WinRT development and everything the Windows 8 platform has to offer.

You will learn:
• How to get started with Windows 8 WinRT app development
• About the WinRT API and the features it provides for development of Windows Store Apps
• WinRT app deployment through the Microsoft Store, and via sideloading for enterprise LOB apps

■ MW02 Workshop: SQL Server 2012
(Level: Intermediate)
Andrew Brust & Leonard Lobel
Monday, May 13   9:00am – 6:00pm

This full-day workshop will get you up to speed on powerful new features in SQL Server 2008, SQL Server 2008 R2, and SQL Server 2012. 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.

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. Work with the latest date and time data types, which include support for time zone awareness. 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.

We'll then look at the business intelligence capabilities in SQL Server and related technologies, including Analysis Services Tabular mode; PowerPivot, Excel's BI capabilities and Excel Services; Reporting Services and its self-service Report Parts feature; Power View (formerly project "Crescent"); PerformancePoint Services; and a quick look at Master Data Services, Data Quality Services and StreamInsight. We'll look at each of these products separately and see how to use them together. We'll also cover the basics of SQL Server Analysis Services' conventional MOLAP mode to set the context properly.

Then we'll examine the "beyond relational" features in SQL Server 2008, and the latest additions coming 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. Learn how to use the new hierarchyid data type to cast a hierarchical structure over any relational table. 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 finish up by building several location-aware applications on top of these new data types.

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 BI features in SQL Server 2008 R2 and SQL Server 2012, including PowerPivot and enhancements to Reporting Services
• Unstructured data storage, including native file streaming, and the hierarchical and geospatial data types
• Preview new capabilities planned for the next version SQL Server (SQL Server 2012)

■ MW03 Workshop: Happy ALM with Visual Studio 2012 and Team Foundation Server 2012
(Level: Intermediate)
Brian Randell
Monday, May 13   9:00am – 6:00pm

Are you happy? Are your customers happy? If you answered no to these questions, you need to come on and get happy with Brian on the Visual Studio 2012 ALM bus. Even if you answered no, you should come too and share your secrets—remember sharing is caring.

Now, Application Lifecycle Management is all about how we can take an idea that you can turn into a software solution that's deployed and managed and ultimately retired. In this workshop, Brian will show you how Microsoft's tool suite has changed and evolved to help you manage your entire lifecycle. You'll learn about the new requirement gathering tools, the new rich based web based Product Backlog, Kanban Board, and Task Boards. You'll learn about new features for developers including local workspaces, code comparison, and code review. We'll look at IntelliTrace, a feature of Visual Studio 2012 Ultimate for developers, testers, and IT Pros. You'll learn what's new for Testers including support for Windows 8 apps and finally you'll learn about DevOps and how System Center 2012 can help you find problems in production applications.

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Session Descriptions by Track

WINDOWS 8 / WINRT

Adoption of Windows 8 and the Windows Runtime (WinRT) is underway, and use of Windows Phone 8 and its version of the Windows Runtime (WinPRT) is on the upswing. Are you ready to build apps for the new WinRT and WinPRT platforms? Modern Windows apps take advantage of key Windows 8 features such as Live Tiles, the Charms bar, and push notifications. They are almost certainly integrated with cloud and social services, providing users with experiences that were previously prohibitively difficult to implement. Perhaps more important, these apps run on phones, tablets, ultrabooks, laptops, and desktops so they are available to users almost everywhere. Apps for WinRT can be written with HTML and JavaScript, or XAML and C#/VB .NET, among other options. At Visual Studio Live! Chicago, you'll learn to build modern Windows 8 and Windows Phone 8 apps, and understand the finer points of WinRT and related cloud services that will make them great. This track includes coverage of the following:

- Microsoft Design Language and Windows 8 app design
- WinRT development using XAML/.NET and HTML5/WinJS
- Migrating apps from WPF, Silverlight, or the Web to WinRT
- WinPRT development using XAML and .NET
- Reusing code between WinRT and WinPRT apps
- A full-day workshop to get you ramped up on WinRT development

■ MW01 Workshop: Build a Windows 8 Application in a Day
(Level: Introductory / Intermediate)
Rockford Lhotka
Monday, May 13   *9:00am – 6:00pm*

Building a Windows Runtime (WinRT) app requires that you understand the WinRT environment, API, and related services. In this workshop you'll learn how to build a WinRT app in .NET and XAML from the ground up. This includes choosing the right project template, building the UI, interacting with remote services, integrating with the Windows 8 operating system through charms and other WinRT API services, and more. By the end of the day you'll have a good understanding of WinRT development and everything the Windows 8 platform has to offer.

You will learn:
- How to get started with Windows 8 WinRT app development
- About the WinRT API and the features it provides for development of Windows Store Apps
- WinRT app deployment through the Microsoft Store, and via sideloading for enterprise LOB apps

■ T01 A Primer in Windows 8 Development with WinJS
(Level: Introductory)
Philip Japikse
Tuesday, May 14   *9:15am – 10:30am*

WinJS combines the ubiquitousness of Windows with the popularity of JavaScript and HTML5. In this session, Philip will teach you what you need to know to get started writing applications for Windows 8 using WinJS. He'll show you how to effectively combine Visual Studio 2012 and Expression Blend 5 to speed your development. Come in knowing nothing, leave writing code!

You will learn:
- The essential parts if WinJS.
- How to combine Expression Blend with Visual Studio to rapidly develop WinJS applications.

- How to leverage your existing JavaScript and HTML knowledge to write application for over 600 million Windows users.

■ T05 Windows 8 Style Apps - Design Essentials (Level: Intermediate)
Billy Hollis
Tuesday, May 14   *10:45am – 12:00pm*

Windows 8 apps are expected to follow prescriptive conventions and guidelines for capabilities, design, and user experience. Some of these conventions are required for an app to even be offered via the Windows Store. This session will cover the most important Windows 8 guidelines for typical developers, including layout, navigation patterns, and working with the OS via charms and other functions. Special attention will be given to those conventions that must be satisfied to pass the certification tests for the Windows Store.

You will learn:
- Learn major conventions and guidelines for design of Windows 8 apps
- Highlight required conventions that must be met for placement in the Windows Store
- Deep dive on layout in Windows 8, including the grid system, snapped views, and other layout

Session Descriptions by Track, continued

■ T09 MVVM in Practice aka "Code behind"- Free XAML

Tiberiu Covaci
Tuesday, May 14   *1:30pm – 2:45pm*

One pattern that emerged with WPF is the Model-View-ViewModel. In this session we will explore the MVVM pattern, the MVVM Light toolkit, the Portable Class Library and I will show you how you can write a XAML applications without ever needing to add a single line of code in the code behind, giving your designer full control over the User Interface.

You will learn:
• MVVM
• Design Patterns
• Portable Class Library

■ T13 New XAML Controls in Windows 8

(Level: Introductory / Intermediate)
Billy Hollis
Tuesday, May 14   *3:00pm – 4:15pm*

XAML in Windows 8 is similar to previous XAML platforms, but contains many new elements. Most of them meet specific needs for touch-based interfaces. This session will discuss the new elements and controls, demonstrate their usage, and discuss the touch scenarios in which the elements are useful.

You will learn:
• List new Windows 8 XAML controls and describe basic usage
• Demonstration of each new control, including important API functions
• Learn why these new controls promote good user experience for touch-based Windows 8 apps

■ T17 Make Your App Alive with Tiles and Notifications

(Level: Introductory / Intermediate)
Ben Dewey
Tuesday, May 14   *4:45pm – 6:00pm*

Tiles are an integral part to the new Windows 8 platform. They update users with current information and draw the user into your application time and time again. Tiles offer a subtle benefit to the user, but when really need to get someone's attention Notifications may offer a more direct experience. In this presentation Ben Dewey will show the many ways in which you can communicate to your user via Tiles and Notifications.

You will learn:
• How to implement Live Tiles
• How to implement secondary tiles
• How to implement badges and notifications
• How to implement notifications with the Windows Notification Service

■ W01 Building Your First Windows Phone 8 Application (Level: Introductory)

Brian Peek
Wednesday, May 15   *9:15am – 10:30am*

Expand your mobile horizons with Windows Phone 8! Developing applications for the phone is extremely similar to building a XAML application for the desktop. In this session, Brian will demonstrate the fundamentals of Windows Phone development while building a very simple application which covers all of the important points of the new platforms architecture, including the developer tools and device emulator and touch input.

You will learn:
• How to develop XAML applications for Windows Phone 8
• How to effectively use the tools and device emulator
• How to handle touch input

■ W05 Sharing Code Between Windows 8 and Windows Phone 8 Apps (Level: Intermediate)

Ben Dewey
Wednesday, May 15   *10:45am – 12:00pm*

Building native apps offers a superior experience on most platforms. While sharing web services code is an easy win, developers often struggle to share client side code between different native apps. In this talk, Ben Dewey will show various techniques to optimize the use of Portable Class Libraries and maximize the code that is shared between a sample Windows 8 and Windows Phone 8 application.

You will learn:
• Numerous techniques for sharing code between apps
• How to share code between projects using the new Portable Class Library
• How to share code between projects using linked files
• Tips and Tricks to leverage when Portable Class Libraries don't work

■ W09 Connecting to Data from Windows Phone 8

(Level: Intermediate/Advanced)
Christopher Woodruff
Wednesday, May 15   *1:30pm – 2:45pm*

You know you have to have a great experience when you develop your Windows Phone 8 applications right? The greatest experience you can give your users is around their data. There are ways to improve your Windows Phone 8 application and Chris Woodruff will teach you how to get data quickly, save it with validation, save it locally and many, many more tricks. Come see why you should know the tricks of the trade before developing that killer Windows Phone 8 app. You will be a Data Experience expert when you leave the room after this session.

You will learn:
• Understand the benefits of using REST web services for your mobile apps.

Session Descriptions by Track, continued

• Be able to use develop solutions against OData that will give better experiences for your users.
• How to shape your data queries to give the best performance for your mobile apps.

■ W13 Building a Windows Runtime Component with C# (Level: Intermediate)
Brian Peek
Wednesday, May 15   *3:00pm – 4:15pm*

A properly written Windows Runtime components can be consumed by C#/VB, HTML/JavaScript, and C++ applications. In this session, we will discuss how to design and build a Windows Runtime component in C# such that it can be consumed by all languages. Specifically, we will look at passing the right types across the ABI, how to create events that can be consumed, and how to create asynchronous methods, and much more!

You will learn:
• Proper techniques to building a Windows Runtime Component
• Differences when building a traditional .NET component
• How to consume the component from multiple languages

■ W17 Demystifying the Microsoft UI Technology Roadmap
(Level: Intermediate / Advanced)
Brian Noyes
Wednesday, May 15   *4:45pm – 6:00pm*

Things have gotten pretty confusing when it comes to knowing what technology to use to implement your user interface for your application. You have to choose from a plethora of different Microsoft UI technologies, platforms, and tools. You have to choose between top level technologies like XAML vs HTML vs native mobile apps. You also have to understand the choices within those realms such as WPF vs Silverlight vs WinRT. This session will make clear what the realm of possibilities are, what the similarities and differences are between those

choices, and what some of the driving factors are. You will also learn what some of the choices are for multi-platform approaches to defining your UIs are, and what the pros and cons of those approaches are.

You will learn:
• Understand the differences between building an HTML app for multiple platforms vs using native apps
• Understand the similarities and differences of WPF, Silverlight, and WinRT
• What products and capabilities exist for writing multi-platform mobile apps

WPF / SILVERLIGHT
Today, most business apps for Windows are created using XAML in WPF or Silverlight. This track is all about improving your productivity while designing and building applications using XAML in WPF and Silverlight. We'll provide you the opportunity to build your skills and knowledge around these important smart client technologies while planning for WinRT.

■ TH01 Building Extensible XAML Client Apps (Level: Advanced)
Brian Noyes
Thursday, May 16   *8:00am – 9:15am*

Designing an extensible XAML client application with WPF, Silverlight and Metro involves a lot more than just knowing how to load a plug-in interface to invoke some functionality. You need to be able to add whole new sets of functionality including a data model, logic, and views for presentation. And if you do it right, you should be able to do all that without disturbing or even changing any of the core application logic or other views. This session will show you how you can achieve that with a combination of the Managed Extensibility Framework (MEF), the MVVM design pattern, and a little bit of help from the Prism

Framework. You will learn how to set up a little bit of base class infrastructure in the core application that can then be easily built upon with extensions. You'll see how you can plug in views and view models and model objects and still have those integrated with existing parts of the application they are plugged into, but in a loosely coupled way. You'll walk away with a baseline architecture and sample code for achieving it that will let you grow and extend your WPF and Silverlight client apps over time without needing to constantly crack open the core code and do surgery to add new features. You'll also see what the path to building similar applications in Metro looks like.

You will learn:
• How to define core application abstractions that let you extend your application from release to release
• How to use MEF to plug in new functionality
• How to use MVVM to dynamically compose views and view models in the main application without it having explicit knowledge of every view

■ TH05 Migrating from WPF or Silverlight to WinRT (Level: Intermediate)
Rockford Lhotka
Thursday, May 16   *9:30am – 10:45am*

Many Windows applications today are written in WPF or Silverlight, and this trend will continue for the next several years. At the same time we know that Microsoft is putting all their energies toward the new Windows Runtime (WinRT) development platform. In this session you will learn how to migrate WPF and Silverlight apps to WinRT. As a result you will also learn what you can to today as you create WPF/Silverlight apps to best prepare for the WinRT future.

Learning points:
• Learn the similarities and differences between WPF/ Silverlight and WinRT
• Learn technologies best avoided to ease migration to WinRT
• Learn techniques that make WinRT migration easier

Session Descriptions by Track, continued

ASP.NET

Web development technologies continue to evolve and improve, offering rich and powerful capabilities for software developers. Today Microsoft provides ASP.NET Web Forms and MVC, with traditional aspx and Razor page markup languages. These are supported by Visual Studio, WebMatrix, and Expression Web. The updates provided in .NET 4.5 provide substantial improvements to Web Forms, as well as other web technologies. This track covers ASP.NET Web Forms, ASP.NET MVC and related server-side web technologies.

■ TH03 Improving Web Performance
(Level: Introductory / Intermediate)
Robert Boedigheimer
Thursday, May 16 *8:00am – 9:15am*

This session will start with a traditional ASP.NET web site and show step by step how to improve it for both client experience and scalability. Review the basics of caching and learn how to avoid costly server round trips by using expirations to maximize use of the client's browser and also reduce server side execution time with data caching on the server. Use HTTP compression, minification of JavaScript and CSS, and image optimization to reduce client downloads by 50-75%. Take advantage of free CDN networks to host jQuery and Ajax files. See how tools such as Fiddler and Google Page speed can be used to help diagnose and verify improvements. Use jQuery to lazy load images only as they are about to be displayed. Learn the techniques that can have the largest impact on web performance with the least amount of work.

You will learn:
• Learn the 3 golden rules of web performance
• Reduce page times by 50% or more using minification and file bundling techniques
• Use tools to evaluate web performance and potential areas of improvement

■ TH07 Controlling ASP.NET MVC4
(Level: Intermediate)
Philip Japikse
Thursday, May 16 *9:30am – 10:45am*

ASP.NET MVC4 brings a whole new level of hotness to the web stack. From all of the new mobile features, the Web API, and improved templates, just to name a few. In this session, I will take you through these and the rest of the new features, and how to take advantage of them in existing projects as well as greenfield development.

You will learn:
• New features in ASP.NET MVC4
• New mobile support in ASP.NET MVC4
• New WebAPI support in ASP.NET MVC4

■ TH11 MVC for WebForms Developers: Comparing and Contrasting
(Level: Introductory / Intermediate)
Miguel Castro
Thursday, May 16 *11:00am – 12:15pm*

ASP.NET MVC has been received by a certain part of the development community with an almost zealotry aspect and by others with extreme speculation and even fear. As a web forms developer, it took me a while to eventually get to MVC but the truth is that I really do like it. No I do not think it is the end-all to web development and

"THIS IS MY FIRST VISUAL STUDIO LIVE! CONFERENCE AFTER USING VISUAL STUDIO FOR YEARS. MY EYES HAVE BEEN OPENED! THIS EVENT HAS BEEN SO VALUABLE TO ME."

Mark Holdcroft
Enginer IV, Controls
Diamond Power Int., Inc.

I still have a lot of love for web forms, but the more I use ASP.NET MVC the more I do get used to it and the more I appreciate everything it offers. In this session, I'll introduce you to the platform and by providing frames of references with web forms and hopefully providing you with the pluses and minuses of both platforms. We'll cover everything from basic rendering to dependency injection to security so prepare for a full brain overload.

You will learn:
• Intro to MVC
• Comparisons of its components to WebForm components
• Advantages and disadvantages of both

■ TH15 Creating Web Sites Using Visual Studio LightSwitch
(Level: Introductory)
Michael Washington
Thursday, May 16 *1:30pm – 2:45pm*

Visual Studio LightSwitch provides the fastest way to create forms over data line of business applications. By leveraging OData you can use LightSwitch to efficiently create web applications.

You will learn:
• How to set up and configure LightSwitch for web applications
• How to read, write, update, and delete data
• How to properly implement security

■ TH19 Building Single Page Web Applications with HTML5, ASP.NET MVC4 and Web API (Level: Intermediate)
Marcel de Vries
Thursday, May 16 *3:00pm – 4:15pm*

Single page applications can be thought of as a state full HTML client application communicating with a services backend. This type of application has a similar architectural style as e.g. Silverlight applications but with the advantage of not requiring a plugin. The HTML client

Session Descriptions by Track, continued

utilizes the power of JavaScript and client side java Script libraries like knockout.js and Upshot.js. to interact with backend services. These backend services are built with ASP.NET MVC4 Web API. After attending this session you will know what Single Page Applications are, when to use them and how to build them using the power of ASP.NET MVC 4, Upshot.js and Knockout.js

You will learn:
• Understand the architectural implications of a Single Page application
• Understand the power of Knockout.js to enable HTML5 and data binding using the MVVM pattern
• Understand the role of Web API to provide an interaction layer for your application
• Show a practical way to implement Single Page Applications using HTML5 and MVC4

VISUAL STUDIO 2012 / .NET 4.5

The Microsoft .NET 4.5 framework includes exciting new capabilities that apply to any type of .NET application. To create these applications, developers use Visual Studio, including its LightSwitch toolset for creating line of business applications. Visual Studio 2012 provides powerful features around debugging, architecture and application lifecycle management (ALM). LightSwitch offers high levels of productivity for building business applications and data services. We'll give you the information you need to understand and leverage the power of .NET, Visual Studio, ALM, and LightSwitch today and into the future. Topics in this track include:

• ALM, Visual Studio 2012 tooling, TFS, and DevOps
• Asynchronous/parallel computing
• Design patterns
• .NET compilers, and static analysis of code

■ MW03 Workshop: Happy ALM with Visual Studio 2012 and Team Foundation Server 2012
(Level: Intermediate)
Brian Randell
Monday, May 13   *9:00am – 6:00pm*

Are you happy? Are your customers happy? If you answered no to these questions, you need to come on and get happy with Brian on the Visual Studio 2012 ALM bus. Even if you answered no, you should come too and share your secrets—remember sharing is caring.

Now, Application Lifecycle Management is all about how we can take an idea that you can turn into a software solution that's deployed and managed and ultimately retired. In this workshop, Brian will show you how

Microsoft's tool suite has changed and evolved to help you manage your entire lifecycle. You'll learn about the new requirement gathering tools, the new rich based web based Product Backlog, Kanban Board, and Task Boards. You'll learn about new features for developers including local workspaces, code comparison, and code review. We'll look at IntelliTrace, a feature of Visual Studio 2012 Ultimate for developers, testers, and IT Pros. You'll learn what's new for Testers including support for Windows 8 apps and finally you'll learn about DevOps and how System Center 2012 can help you find problems in production applications.

■ T08 IntelliTrace, What is it and How Can I Use it to My Benefit?
(Level: Intermediate)
Marcel de Vries
Tuesday, May 14   *10:45am – 12:00pm*

Ever heard of a feature called IntelliTrace? Want to know what it is and how it works? This is the session for you. Based on a set of demos, I will show you how you can use IntelliTrace for your normal average debug session today, but also as postmortem when something went wrong with your application in a test environment, or even when your Unit test turned red and you need to fix that problem. Come and see why this feature can be a game changer for you today, and even more so when we look at the future of where we can use it in a production environment!

You will learn:
• How IntelliTrace can help in a normal debug session
• How IntelliTrace can be used as post mortem debugger
• How IntelliTrace works under the hood, so you understand it's capabilities

"I REALLY ENJOYED THE INFORMAL SETTING AND THE ABILITY TO TALK ONE-ON-ONE WITH THE PRESENTERS."

Tyler Perkins, Senior Software Engineer, IM Flash Technologies, LLC

Session Descriptions by Track, continued

■ T12 Team Foundation Server 2012 Builds: Understand, Configure, and Customize (Level: Intermediate / Advanced)
Benjamin Day
Tuesday, May 14   *1:30pm – 2:45pm*

The Build system in TFS2012 could be the best feature in the product. Actually, it's almost definitely the best feature in the product. It's got a slick Windows Workflow structure that has done away with the old-style, clunky text-based and XML-based scripts. It's got a great integration with Source Control through Gated Check-ins that requires a build to pass before code can be checked in. (Buh-bye, broken builds.) There's even integration with Virtual Lab Management to help with your QA process.

If you want to eliminate a bunch of integration headaches and improve quality on your project, using TFS Builds is a perfect place to start.

In this talk, Ben will start by giving you a tour of the features. Then he'll move on to show you how to configure your build servers and builds. Finally, he'll show you how to extend and customize the default build scripts to handle environment-specific configuration files, configuring IIS applications, and more.

You will learn:
• Why care about automated builds?
• What is the architecture of TFS Build? (Agents, Controllers, Build Scripts)
• Route builds to specific build servers using Tags
• Customize the default build script
• Pass arguments into the automated builds

■ T16 Modern ALM and the DevOps Story (Level: Intermediate)
Brian Randell
Tuesday, May 14   *3:00pm – 4:15pm*

In the universe of software, it's as if there are two planets: one populated by developers and the other populated by operations folks. Like a scene from Star Trek, getting folks from each planet together requires a neutral zone. But that's the past. In the modern universe, it can call be different. The intersection of these two different worlds is a place called Developer Operations or DevOps. In this session, Brian will walk you through modern application lifecycle management where continuous is the key word: continuous integration, continuous quality, continuous deployment, and continuous feedback. You'll see what tools Microsoft has to help you, like Team Foundation Server 2012 and System Center Operations Manager 2012 Sp1. You'll see how you can take a single idea and get it into production on an hourly basis if you choose. So get rid of your Federation uniform and your Klingon bat'leth just be a citizen of the universe with DevOps.

■ T20 Patterns for Parallel Programming (Level: Introductory / Intermediate)
Tiberiu Covaci
Tuesday, May 14   *4:45pm – 6:00pm*

After more than 40 years Moore's law is still going strong, and it looks like it will continue to do so for at least ten more years, and the free performance lunch is over, unless we change the way we think and program our applications. The Question is not IF, but rather WHEN. Luckily, Microsoft realized that already, and with the Visual Studio 2010 they introduced new technologies like Concurrency Runtime, Task Parallel Library, and Parallel LINQ to help us transition into the world of multi-core programming. .NET 4.5 introduced another paradigm: support for asynchronous programming. Come to this session to see how you can use all those new features.

You will learn:
• Patterns in the Parallel computing space
• Task Parallel Library
• Parallelizing applications in practice

■ W04 Design for Testability: Mocks, Stubs, Refactoring, and User Interfaces (Level: Intermediate / Advanced)
Benjamin Day
Wednesday, May 15   *9:15am – 10:30am*

You're sold on unit testing. You're even doing "test first" development, but there are always those nagging questions. How do your user interfaces fit into your testing plan? Do I have to call my database in order to have a good, solid test? What about calls into separate sub-systems or calls out to web services? Do you really need to have all those pieces running in order to test your logic? Are my UI tests the same for WPF, Windows Forms, Windows Phone, Win RT, and ASP.NET? What do I do about that app that doesn't have any tests?

In this session, Ben will start by clarifying the difference between unit and integrationtests. After that, he'll demonstrate how using dependency injection, mocks objects and stubs can help break dependencies and simplify your tests. Throughout the talk, you can expect to hear a lot about design patterns, how much code coverage is enough, and the fine line between too much and too little object mocking.

You will learn:
• Beyond the basics of unit testing
• Visual Studio 2012 Mocks & Fakes Framework
• Model-View-Controller and 's variations (MVC, MVP, MVVM)
• The Repository & Adapter Patterns

■ TH09 Managing the .NET Compiler (Level: Intermediate / Advanced)
Jason Bock
Thursday, May 16   *11:00am – 12:15pm*

With the public release of Project Roslyn, Microsoft has finally let .NET developers get access to their long-awaited compiler APIs. 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

Session Descriptions by Track, continued

as syntax trees and engines, and how you can use them in code analysis and metaprogramming techniques.

You will learn:
• Get a thorough walkthrough of the Roslyn APIs
• See 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 Roslyn brings to table to make that usage easier

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■ TH13 Understanding Dependency Injection and Those Pesky Containers
(Level: Introductory / Intermediate)
Miguel Castro
Thursday, May 16   *1:30pm – 2:45pm*

Dependency Injection is one of those terms that advanced programmers throw out with an expectation and assumption of full understanding on the part of the receiver. However, I constantly get asked by attendees, students, and clients to please recommend a good DI product and show them how to use it; and when I proceed to start talking about the subject, it becomes immediately apparent that many don't even know what they're asking about. It's easy to get infatuated by a cool buzz phrase, especially when you hear so many others using it. But to truly understand something you need to start by understanding the problem spaces that it is trying to solve. So let's bring you totally up to speed then. In this session, Miguel will explain dependency injection from concept to implementation, and use raw code samples to show you how it works and what problems it solves. Then I'll get into what a DI container is and some of the characteristics of the ones that are out there, including MEF. I'll end by showing you implementation examples in three different platforms.

You will learn:
• Complete explanation of DI concepts
• What problems DI solves
• Coverage of various DI containers

■ TH17 Static Analysis in .NET
(Level: Intermediate)
Jason Bock
Thursday, May 16   *3:00pm – 4:15pm*

We all want to have someone else review our code to make sure it's written well. Wouldn't it be even better if we can have that review process done automatically? In this session, you'll see how you can use static analysis tools (like Code Analysis/FxCop) to find all kinds of implementation issues before they show up in a release. You'll also find out how to manage rule sets in Visual Studio, and find out how you can create your own custom rules.

You will learn:
• Understand the benefits in using static analysis
• Be able to use the results of static analysis effectively to improve their code
• See how custom rules can be created to reflect their own best practices

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AZURE / CLOUD COMPUTING
A growing number of IT practitioners believe the future of application development is service-based and in the cloud. Cloud computing offers flexible scalability and can provide a less expensive way to host many applications. Even if you aren't ready for Azure yet, you owe it to yourself to become familiar with cloud computing and the services approach to development. This track includes coverage of the following:

• Getting up to speed with Azure

• Azure Mobile Services

• Azure and open source

• Programming in node.js

• Windows Azure Services for Windows 8

■ W02 What's New in Azure for Developers
(Level: Introductory / Intermediate)
Vishwas Lele
Wednesday, May 15   *9:15am – 10:30am*

What's new in Windows Azure for devs? Lots! In this session we will take a whirlwind tour of the brand new features (such as Web Sites, Virtual Machines, Mobile Services) and also key enhancements to the existing services such as Storage, Caching and SQL Databases. My goal is to give you a broad understanding of what Scott Guthrie called "The New Azure." You will walk away with enough information to start digging deeper into the features that make sense to you and your project.

You will learn:
• About the fast paced changes to the Windows Azure environment
• About PaaS and IaaS can coexist
• About new services such as Windows Azure Media Services, Windows Azure Active Directory and Windows Azure Mobility Services

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■ W06 In Depth Azure IaaS
(Level: Introductory / Intermediate)
Vishwas Lele
Wednesday, May 15   *10:45am – 12:00pm*

If you have found yourself thinking…

"Changing our existing apps to run on PaaS is going to require a lot of refactoring. We want to run our applications in the Cloud as-is."

"We cannot migrate to Azure SQL Database because our database relies on SQL CLR-based stored procedures. We want to use a full version of SQL Server."

"We want the Cloud to be a seamless extension of our data center, not a walled garden. We want to use our existing IT setup and tools (AD, SCOM etc.) to manage the on-premises and Cloud-based applications."

Session Descriptions by Track, continued

...then this session is for you. This session is for anyone who wants to get better understand of the recently-announced Windows Azure Infrastructure as a Service (IaaS) offering. After a brief overview of the Azure Platform as a Service (PaaS) model, we will focus on key IaaS concepts. Additionally, we will walk you through a number of scenarios enabled by Azure IaaS and several demonstrations. We will cover IaaS Core Concepts, Azure Virtual Machine, Disks & Images, Persistence, VM export / Import, Grouping and Azure Virtual Network.

Suggested Background Reading:
• 20 Things That May be "Clouding" Your Choice About the Cloud...But Shouldn't
• Windows Azure Spring 2012 Release: Four Scenarios in the Hybrid Cloud

You will learn:
• IaaS Core Concepts
• Azure Virtual Machines and Disk Mobility
• Azure Virtual Network

■ W10 Moving Web Apps to the Cloud (Level: Introductory / Intermediate)
Eric D. Boyd
Wednesday, May 15   *1:30pm – 2:45pm*

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

You will learn:
• Overview of common business challenges and scenarios that drive Cloud migration
• How to move traditional on-premise web apps to Windows Azure

• Architectural considerations for maximizing the value of the Cloud

■ W14 IaaS in Windows Azure with Virtual Machines (Level: Intermediate)
Eric D. Boyd
Wednesday, May 15   *3:00pm – 4:15pm*

Windows Azure is a great cloud platform for scalable, on-demand computing power. However, there are scenarios that are not supported by Windows Azure's Cloud Service web and worker roles. In this session, we will explore the traditional Windows Azure web and worker compute roles and walk through the common challenges encountered when using these. We will explore the architecture and internals of Windows Azure, and then explore Virtual Machines and the scenarios that are enabled with a statefull OS in the Cloud. We will walk through the lifecycle of installing, configuring and deploying a Virtual Machine to Windows Azure and we'll consider the tradeoffs and alternatives to using Virtual Machines vs Cloud Services. Finally, we will take a look at what's new in Virtual Machines and how to get started.

You will learn:
• The limitations of traditional Web and Worker Roles
• When you should use Windows Azure Virtual Machines
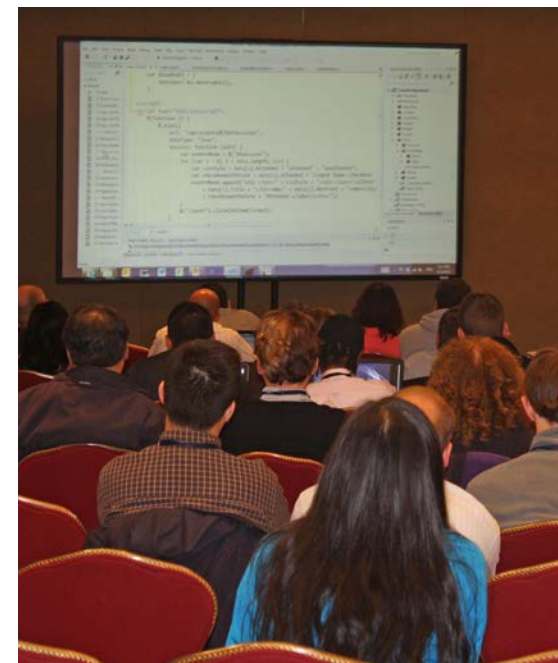• How to install, configure and deploy a Virtual Machine to Windows Azure

■ W18 Bringing Open Source to Windows Azure: A Match Made in Heaven (Level: Advanced)
Jesus Rodriguez
Wednesday, May 15   *4:45pm – 6:00pm*

In recent months we have seen Windows Azure officially embrace notorious open source technologies such as NodeJS, Hadoop, Solr, Memcache or MongoDB. With these model, developers can now use these powerful open source technology while taking advantage of the

elastic, resilient, manageable and scalable capabilities of the Windows Azure platform.

This session will illustrate a series of real world applications that leverage a series of open source technologies hosted in the Windows Azure platform. Specifically, the session will highlight best practices and techniques to leverage technologies such as NodeJS, Hadoop, MongoDB, Solr or Memcache as part of your Windows Azure applications. Additionally, we showcase the patterns developers that will help developers to provision and configure other open source technologies in your Windows Azure environment.

You will learn:
• Best practices and techniques for leveraging open source technologies from Windows Azure platform

Session Descriptions by Track, continued

■ TH02 JavaScript, Meet Cloud: Node.js on Windows Azure
(Level: Intermediate)
Sasha Goldshtein
Thursday, May 16   *8:00am – 9:15am*

Node.js is an incredibly popular framework for writing event-based server applications in JavaScript. With its hundreds of modules and vibrant ecosystem, it is quickly catching up to other server-based frameworks, and makes it extremely easy to deploy Web applications. The June 2012 refresh introduces Node.js support on Windows Azure, including Azure Web Sites, Cloud Services, and Virtual Machines. In this talk we'll build a Node.js application from scratch and deploy it to Windows Azure in a matter of seconds.

You will learn:
• Developing modern Node.js applications
• Using Windows Azure services from Node.js in the cloud and on-premises
• Deploying Node.js applications to Windows Azure

■ TH06 Using Windows Azure to Build the Next Generation of Mobile Applications (Level: Advanced)
Jesus Rodriguez
Thursday, May 16   *9:30am – 10:45am*

Mobile enterprise applications backed by cloud infrastructures are a common trend in today's mobile

> **"THE SPEAKERS WERE WELL VERSED AND PASSIONATE ABOUT THEIR TOPICS. THIS MAKES ME RECONSIDER SOME OF THE WAYS I DO THINGS."**
>
> *Brad Morgan, Software Engineer, Henry Schein*

technology ecosystem. However, with some exceptions, most cloud infrastructures don't provide a great model for enabling traditional mobile computing patterns. The Windows Azure platform is an exception to that rule by providing a unique set of infrastructure components and computing models that can power the next generation of mobile enterprise applications.

This session will explore the capabilities of the Windows Azure platform that can enable sophisticated, highly scalable mobile enterprise applications. The session will illustrate best practices and techniques used in mobile applications to leverage Windows Azure capabilities such as caching, data storage, messaging, computing, identity management and many others. We will showcase these best practices using a series of demonstrations that highlight the use Windows Azure from Windows Phone, Windows 8, IOS, Android and HTML5 applications. Finally, the session will about the capabilities of Windows Azure Mobile Services as a simple and robust model to enable backend capabilities in enterprise mobile applications.

You will learn:
• Enabling enterprise mobile backend capabilities powered by Windows Azure enterprise
• Windows Azure Mobile Services capabilities
• Best practices for building enterprise mobile applications that leverage the Windows Azure platform

■ TH10 Cloud Backends for Your Mobile Apps: Windows Azure Mobile Services and Parse (Level: Intermediate)
Sasha Goldshtein
Thursday, May 16   *11:00am – 12:15pm*

Mobile app developers don't—and shouldn't!—care about servers and clouds, push notification services and databases. Windows Azure Mobile Services (WAMS) and Parse are two cloud-based offerings that provide a complete backend for mobile apps, enabling you to focus on the mobile app infrastructure and code and forget about the server management intricacies. In this talk

we'll build a backend for a Windows 8 app, a Windows Phone 8 app, and an Android app using WAMS and Parse, featuring push notifications, database and triggers, user management and more.

You will learn:
• Integrating push notifications on several mobile platforms
• Creating a cloud-based storage backend for your app's data
• Managing users and logins automatically with WAMS and Parse

■ TH14 Using Windows Azure for Solving Identity Management Challenges (Level: Intermediate)
Michael Collier
Thursday, May 16   *1:30pm – 2:45pm*

Identity management for cloud deployed applications can be a challenge. Often users will want to leverage an existing social network or corporate identity. Now we have to worry about dealing with multiple APIs, any updates to those APIs, or the addition of new identity providers. Windows Azure Access Control Services offers a better way! ACS allows for federated user authentication via popular social networks and Active Directory. In this session we'll provide a crash course in claims as they relate to identity management. We'll discuss why claims are important and how to add additional claims beyond what is provided by the identity providers. We'll also demonstrate how to configure ACS for development, as well as production environments. We'll wrap up by showing you how to bring you're new found love of claims and ACS to your mobile applications as well.

You will learn:
• What are identity related claims and why are they important in modern applications
• Real-world tips on successfully configuring Access Control Services
• Leveraging social identity in web and mobile applications

Session Descriptions by Track, continued

■ TH18 Elevating Windows Azure Deployments
(Level: Introductory / Intermediate)
Michael Collier
Thursday, May 16   *3:00pm – 4:15pm*

One of the core tenants for working with cloud services is automation. When it comes to deploying our new cloud solutions, we want to automate the process as much as possible too. Both Visual Studio and the Windows Azure online management portal make deployments pretty easy - but it's manual. By leveraging tools like PowerShell we can automate much of the mundane deployment tasks, allowing us to have confidence in the final solution. We can further enhance our build and deploy solution by leveraging TFS - giving us continuous cloud deployments! Besides covering deployment options with PowerShell

and TFS, in this session we'll also discuss techniques for using handling the inevitable updates of our cloud services. Walking out of this session you'll have a solid understanding, backed by practical real-world examples, of handling service deployments and updates.

You will learn:
• Real-world inspired advice on using PowerShell for managing Windows Azure
• How to configure TFS to build and deploy Windows Azure solutions
• Pros and cons for various Windows Azure deployment technique

DATA MANAGEMENT

There's a lot of ground to cover in the data management sphere. LINQ, OData and Entity Framework Code First are compelling technologies you can apply in your work today. The Data Management track at Visual Studio Live! Chicago focuses on all of these technologies so you can integrate them into your environment sensibly and pragmatically. This track includes coverage of the following:

• Entity Framework Code First

• OData

• LINQ

■ MW02 Workshop: SQL Server 2012
(Level: Intermediate)
Andrew Brust & Leonard Lobel
Monday, May 13   *9:00am – 6:00pm*

This full-day workshop will get you up to speed on powerful new features in SQL Server 2008, SQL Server 2008 R2, and SQL Server 2012. 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.

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. Work with the latest date and time data types, which include support for time zone awareness. 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.

We'll then look at the business intelligence capabilities in SQL Server and related technologies, including Analysis Services Tabular mode; PowerPivot, Excel's BI capabilities and Excel Services; Reporting Services and its self-service Report Parts feature; Power View (formerly project "Crescent"); PerformancePoint Services; and a quick look at Master Data Services, Data Quality Services and StreamInsight. We'll look at each of these products separately and see how to use them together. We'll also cover the basics of SQL Server Analysis Services' conventional MOLAP mode to set the context properly.

Then we'll examine the "beyond relational" features in SQL Server 2008, and the latest additions coming 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. Learn how to use the new hierarchyid data type to cast a hierarchical structure over any relational table. 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

Session Descriptions by Track, continued

integrate location-intelligence into the database, and we'll finish up by building several location-aware applications on top of these new data types.

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 BI features in SQL Server 2008 R2 and SQL Server 2012, including PowerPivot and enhancements to Reporting Services
• Unstructured data storage, including native file streaming, and the hierarchical and geospatial data types
• Preview new capabilities planned for the next version SQL Server (SQL Server 2012)

■ T03 Big Data-BI Fusion: Microsoft HDInsight & MS BI (Level: Intermediate)
Andrew Brust
Tuesday, May 14   *9:15am – 10:30am*

HDInsight is the name of Microsoft's distribution of Apache Hadoop, the essential and defining technology of the Big Data world. HDInsight runs on Windows Server and Windows Azure alike, and yet provides an environment that users of other Hadoop distributions will find familiar and quickly useable.

But why in the world would Microsoft embrace an open source technology, written in Java, and customarily run on clusters of Linux servers? Two words: Business Intelligence. HDInsight (and Hadoop in general) become far more enterprise-friendly when combined with Microsoft BI technologies like PowerPivot, Analysis Services and Power View. And those BI technologies become far more valuable when analyzing output from Hadoop and other Big Data technologies. And then there's SQL Server Parallel Data Warehouse, which actually blends the BI and Big Data worlds together in one product.

In this session, Microsoft BI expert and ZDNet Big Data blogger Andrew Brust will introduce you to HDInsight and its developer tools, demonstrate relevant BI tools and show how they work together. He'll also show how developers with relational database skills can make the jump into this exciting and opportunity-filled area.

You will learn:
• Learn about Microsoft HDInsight, its .NET SDK for Hadoop, and LINQ Provider for Apache Hive
• Understand how Microsoft's newest BI technologies work
• See how SQL Server Parallel Data Warehouse's PolyBase technology integrates Hadoop and SQL Server
• Learn how HDInsight and Microsoft BI, together, make Big Data ready for mainstream devs and the Enterprise

■ T07 Getting to Know the BI Semantic Model (Level: Intermediate)
Andrew Brust
Tuesday, May 14   *10:45am – 12:00pm*

The Business Intelligence Semantic Model (BISM) is central to Microsoft's analytics strategy. BISM powers the newest components in Microsoft's Business Intelligence stack, and is in reality an important weapon in Microsoft's Big Data arsenal as well.

More important, BISM is essentially a relational model for BI and analytics, for the first time opening up the Microsoft BI world to professionals working with SQL Server and other relational databases.

In this session, longtime Microsoft BI expert and ZDNet Big Data blogger Andrew Brust will explain BISM, by showing it to you at work inside PowerPivot, SQL Server Analysis Services and Power View. Along the way you'll learn about DAX (Data Analysis eXpressions), xVelocity in-memory and column store technologies and how BISM interfaces with Big Data and NoSQL data stores. Most of all, you'll learn how your current development and database skills can be applied to the hottest areas in technology right now: the worlds of Data Science, Big Data and BI.

You will learn:
• Learn the basics of PowerPivot, SSAS Tabular mode and Power View
• Learn about the BI Semantic Model and DAX expression language
• Understand column store, Big Data and NoSQL technologies, and how to use them together

■ T15 Busy Developer's Guide to MongoDB
(Level: Introductory / Intermediate
Ted Neward
Tuesday, May 14   *3:00pm – 4:15pm*

MongoDB is a scalable, high-performance, document-oriented, language/platform-agnostic, schema-free, open-source, native, fast "NoSQL" database that offers a completely different view of how we store data. Built to focus on problems that traditionally have stymied the relational database, Mongo represents a challenge to the developer: it's got a lot of power and promise, but only if she can understand this completely different approach to data persistence, retrieval, and storage. In this session, we'll tackle that precise challenge: to understand how Mongo works and get started working with it, including how to put data into it, find data within it, and so on. Come with an open mind (and maybe a laptop to code alongside as we go).

You will learn:
• How to get started with MongoDB
• How to store and retrieve data from MongoDB
• When to use MongoDB

" I LIKED THE BALANCE BETWEEN 'WHAT'S COMING' AND 'WHAT YOU CAN DO NOW'."

Omar Ornealas
Summa Technologies

Session Descriptions by Track, continued

■ T19 Busy Developer's Guide to Cassandra
(Level: Introductory / Intermediate)
Ted Neward
Tuesday, May 14 *4:45pm – 6:00pm*

The Cassandra database, one of the "NoSQL"-themed databases, uses a very different approach to data storage and modeling (and retrieval and scale) than the traditional relational database. In this session, you'll get a first-hand look at the Cassandra column-oriented data model, how Cassandra stores things in a "ring" of servers to scale, and more importantly, how to store, retrieve, and scale it.

You will learn:
• How to install and set up Cassandra
• How to store and retrieve data from Cassandra
• How Cassandra fits into your overall architecture

■ W03 SQL Server Data Tools
(Level: Intermediate)
Leonard Lobel
Wednesday, May 15 *9:15am – 10:30am*

With the release of SQL Server 2012, the new SQL Server Data Tools (SSDT) is now your primary development environment for building Windows and Web applications on top of SQL Server. While SQL Server Management Studio (SSMS) continues to serve as the primary tool for database administrators, SSDT plugs in to Visual Studio as a new database project type designed specifically for the application developer.

With SSDT, developers can finally enjoy building database applications without constantly switching between Visual Studio and SSMS. In this session, Lenni will demonstrate how SSDT can be used to develop for (and deploy to) on-premise and SQL Azure databases. In addition to replicating most of the developer-specific functionality found in SSMS, you will learn how to use features such as code navigation, IntelliSense, and refactoring with your

database model indispensable tools previously available only for application development in Visual Studio. We'll also cover the new declarative model that allows you to design databases offline and under source control right from within solution in Visual Studio. Don't miss out on this demo-centric information-packed session on the new generation of database tools for application developers!

You will learn:
• The declarative model-based approach used in the new generation of SQL Server tools for developers
• Understand the various services that power the new tools (explorer, designers, schema compare, local database runtime, language services, debugging, and buffered editing)
• See live demonstrations of how to design, test, and deploy on-premises databases, offline database projects, and SQL Azure databases in the cloud all from inside Visual Studio

■ W11 LINQ Performance and Scalability (Level: Intermediate)
Jim Wooley
Wednesday, May 15 *1:30pm – 2:45pm*

When LINQ arrived in 2008, we were given a new declarative model to perform set based operations. As we begin to use it more in our applications we start to see the performance implications of using this model in our applications. This session will look at options we have to improve our performance by improving our code, using hash tables with I40, scaling up with PLINQ, scaling out with Dryad and asynchronous operations with Rx. By the end of this session, you should have an understanding of when to use each of these new and emerging technologies to improve your LINQ code.

You will learn:
• How to optimize your LINQ to objects queries and how to make them scale up and out with additional libraries

• Common pitfalls when using LINQ against databases and how to troubleshoot and fix them
• A number of techniques you can use immediately in your daily development work

■ W15 OData - Oh Yeah
(Level: Intermediate)
Gil Fink
Wednesday, May 15 *3:00pm – 4:15pm*

Open Data Protocol (OData) is a protocol for exposing and consuming data on the web. The OData ecosystem is a growing community of data producers and consumers using the Open Data Protocol to exchange data. This session will explain what the Open Data Protocol (OData) is and how to create OData feeds using WCF Data Services.

You will learn:
• The OData protocol
• How to write OData feeds using WCF Data Services
• Were to implement OData in your solutions

■ W19 Not Just a Designer: Code First and Entity Framework
(Level: Intermediate)
Gil Fink
Wednesday, May 15 *4:45pm – 6:00pm*

Entity Framework 4 brought many new opportunities for building complex data driven applications. Code First is an Entity Framework capability that provides a code-centric experience for interacting with models and databases. This session will cover several Entity Framework features such as Code First, DbContext API and Migrations.

You will learn:
• What code first is
• How to integrate code first into your solution
• To use code first migrations in your solutions

Session Descriptions by Track, continued

HTML5 / JAVASCRIPT

HTML5 is an industry-wide phenomenon. Its influence extends not just to the Web but to every major mobile platform, and even to Windows 8. Along with JavaScript and jQuery, HTML5 skills are becoming indispensable to developing in almost any vendor environment and on every device form factor. The Visual Studio Live! Chicago HTML5 / JavaScript track helps you get up to speed on this important technology area with sessions focusing on:

• jQuery

• TypeScript

• Touch-enabled web development

• Web Sockets

■ T02 jQuery Fundamentals
(Level: Intermediate)
Robert Boedigheimer
Tuesday, May 14   9:15am – 10:30am

jQuery provides a very productive environment for client side programming in JavaScript and is used by a majority of major web sites today. It takes advantage of existing knowledge of CSS selector syntax to offer a powerful and efficient alternative to accessing elements. The use of operation chaining and implicit iteration lead to a very compact and productive syntax. The library is very lean at a mere 32K, yet provides a strong base and a great extensibility model which has led to a large number of plugin extensions to simplify web development. The session will review how to use the library for very useful features while avoiding browser inconsistencies, and making AJAX calls to the server. Several plug-ins will be demonstrated which provide stunning client experiences with as little as one (1) line of code! Learn how JQuery greatly simplifies client side development.

You will learn:
• Discover many extremely useful jQuery plugins to give rich user experiences with very little code
• Avoid browser inconsistencies by using the jQuery core library
• Leverage Ajax calls to server APIs for better performance and user experience

■ T06 Hate JavaScript? Try TypeScript
(Level: Intermediate)
Ben Hoelting
Tuesday, May 14   10:45am – 12:00pm

Many C# developers hate JavaScript. I believe the reason for their hatred has nothing to do with JavaScript but with the lack of tooling and language features. .NET developers are spoiled by the top notch language and IDE features of Visual Studio. This session will discuss some of the tooling advancements in Visual Studio 2012 related to JavaScript development. TypeScript is a new language developed by the creators of C# that compiles to JavaScript. The last portion of this session will dive into TypeScript and discuss some of the language features it provides on top of normal JavaScript. Between the IDE enhancements in VS 2012 and the language features of TypeScript, you will see that JavaScript development is not so bad.

You will learn:
• New JavaScript IDE Features in VS 2012
• A definition of TypeScript
• How to use VS 2012 and TypeScript to make JavaScript development bearable

■ T10 Tips for Building Multi-Touch Enabled Web Sites (Level: Intermediate)
Ben Hoelting
Tuesday, May 14   1:30pm – 2:45pm

Internet Explorer 10 takes huge strides to enable multi-touch browsing. It also includes many new HTML5 enabled capabilities that speed up the web and provide a more interactive experience. IE 10 is not the only browser making strides in these areas. As web application designers\developers, we need to understand these capabilities and build our application to take advantage of them. This session will define these new capabilities and provide some tips and tricks on how to use them effectively in your web applications.

You will learn:
• The new multi-touch enabled capabilities of IE 10
• The new HTML5\CSS3 capabilities of IE 10
• Tips and Tricks for using these capabilities

■ T14 Beyond Hello World: A Practical Introduction to Node.js
(Level: Intermediate)
Rick Garibay
Tuesday, May 14   3:00pm – 4:15pm

From simple, utilitarian services that take those long, cumbersome URIs and shorten them into a shorter link for embedding in Twitter, to novelty services that allow you to personalize and track clicks for measuring impressions, there are no shortage of URL shortening services today on the web.

While the APIs and user experience for these services are very simple, have you ever wondered about the design considerations and capabilities required? For instance, the ability to quickly generate a unique URI, manage state of the URI resource, including capturing clicks, timestamps, etc. while scaling to potentially hundreds if not thousands of concurrent requests requires some thought.

In this talk, we'll look at why Node.js is the perfect framework for building a fast, slick little URL shortening service that is easy to maintain and scales really well on the web. We'll look at a few persistence options as well as benchmarks and who knows, we might just write the next killer URL shortening service!

You will learn:
• Node.js programming fundamentals on Windows
• Design considerations for building a URL shortening service
• Building Node.js services that embrace REST/ Hypermedia principles

Session Descriptions by Track, continued

■ T18 Build Speedy Azure Applications with HTML5 and Web Sockets Today (Level: Intermediate)
Rick Garibay
Tuesday, May 14   *4:45pm – 6:00pm*

In the world of HTML5 development, interoperability is king. Unfortunately, sometimes interoperability can be at the expense of performance. With support for bi-directional, full-duplex messaging simply out of the reach of the HTTP protocol, messaging support in HTML5 can be severely limited. Fortunately, standards groups including the W3C and IETF are hard at work on a standard specification called WebSockets which aims to bring these much needed capabilities to the masses.

Come learn how Microsoft is leading the innovation behind this exciting capability with an interactive presentation covering Microsoft's implementation of the HTML5 WebSockets API and how you can provide the performance and functionality required to deliver great user experiences with HTML5, ASP.NET, WCF, Node.js and Windows Azure today.

You will learn:
• Why the WebSocket protocol and the problems it solves
• How to leverage WebSockets in native browser apps using ASP.NET and WCF WebSocket features in .NET 4.5
• How Azure first-classes support for WebSockets both on the Microsoft stack and alternative platforms like Node.js

■ W07 Working with Client-Side HTML5 Storage Technologies
(Level: Intermediate)
Gil Fink
Wednesday, May 15   *10:45am – 12:00pm*

HTML is the markup language that every web developer uses in order to structure and present content in the Internet. HTML5 is the standard that is being shaped and developed currently. It extends and improves the last HTML4 standard and takes it to the next level with support for multimedia, communication, semantics and more. In this session we will deep dive into the new storage options that HTML5 brings and how to use them. The session will discuss Web Storage, IndexedDB and AppCache APIs.

You will learn:
• The difference between Web Storage and IndexedDB APIs
• Be able to integrate different client-side storage types in a web application/site
• Be able add offline web applications support using the AppCache API

CROSS-PLATFORM MOBILE

Mobile clients are becoming a common way for users to interact with each other, their organizations, and their business applications. Mobile apps might be native client apps or mobile Web sites, and they often make use of cloud-based data and services. This track includes:

• Sharing code between iOS, Android, Windows Phone, and Windows 8

• Using Push Notification Services across mobile platforms

• Create mobile web applications with Visual Studio LightSwitch

■ TH04 Sharing Up to 80% of Code Building Mobile Apps for iOS, Android, WP 8 and Windows 8
(Level: Intermediate)
Marcel de Vries
Thursday, May 16   *8:00am – 9:15am*

Thinking of building a mobile application? But how can you make it available in today's diverse smart phone market? In order to have a significant coverage of smart phones out there you at least need to support the IPhone/ IPad, Android and Windows Phone 7. In this session, Marcel will show you how you can create a mobile application for the primary platforms that dominate the market at this moment and in the future. He will show you how you can program for different platforms while sharing up to 80% of code across the different platforms. He will show you architectural patterns and tips and tricks in C# to abstract device dependencies and increasing your shared codebase.

This session is for you if you want to know how you can leverage your existing investments in the .NET platform and C# language. During the session Marcel will build an application that will run on iOS, Android, WP7 & 8 and Windows 8. He will also show you examples of apps we already have in the stores, so you know it is real! This session will show the tools Visual Studio, Mono for Android and Mono Touch for iOS to program all the devices using C#.

You will learn:
• How to build Native apps with C# on iOS, Android and Windows
• Coding patterns that help you reuse more code cross platforms
• How to apply a solution structure that enables better code sharing between projects

■ TH08 iOS Development Survival Guide for the .NET Guy
(Level: Introductory / Intermediate)
Nick Landry
Thursday, May 16   *9:30am – 10:45am*

You've been a .NET developer for the last 10 years. You love Visual Studio. You can spit out C# like a boy scout can tie a knot. But now your boss wants you to build an iPad app for the company. Or maybe you got a good deal on a Mac on eBay and you'll finally write that cool iPhone app that will top the other 600K in the iOS App Store. So where do you get started? What development environment do you use? How do you write apps in Objective C? What other tools & libraries can you use? This session is your survival guide to the world of iOS development as seen from the eyes of a .NET developer.

Session Descriptions by Track, continued

We'll start from the basics and build our first iOS app, using analogies and comparisons from the familiar world of Visual Studio as our guide. We'll also discuss how to test & deploy our app, and hack our way through the Apple forest, learning to blend in and talk like a true native. If you've ever considered dipping your toes in the iWaters, this session is your chance to take your first dive.

You will learn:
• Basics of iOS development, Objective-C and Xcode
• Differences between .NET and iOS from a development point of view
• How to design & build simple applications for iPhone and iPad

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■ TH16 Building Multi-Platform Mobile Apps with Push Notifications
(Level: Intermediate / Advanced)
Nick Landry
Thursday, May 16   *1:30pm – 2:45pm*

The best mobile applications don't live in a vacuum. They are augmented by dedicated servers, the Internet and Cloud services. While it's one thing to reach out to server-side services from a mobile application, it's a completely different affair when the tables are turned and the server needs to reach the phone. Enter push notifications. From iOS to Android, Windows Phone and Windows 8, discover how to send push notifications from cloud-hosted services to a mobile app running on a tablet or phone, and learn how to handle those alerts in your mobile app. We'll discuss the various push notification services from Microsoft, Apple and Google, how to leverage them in your mobile applications, how to deal with push scenarios for any given multi-platform app, and we'll also look at platform-specific notifications, like scheduled alerts on iOS and Live Tiles on Windows Phone and Windows 8. The live demos will include a variety of iOS, Windows Phone and Windows 8 apps, and also include technical details about Android.

You will learn:
• About the common consumer and enterprise scenarios

where mobile applications need to receive notifications and alerts from servers or cloud services
• To Send push notifications from cloud applications in Windows Azure to mobile applications on various platforms
• How to build mobile apps for on Windows Phone, Windows 8 or iOS that can receive and handle push notifications

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■ TH20 Create HTML5 Mobile Websites with Visual Studio LightSwitch
(Level: Introductory)
Michael Washington
Thursday, May 16   *3:00pm – 4:15pm*

Visual Studio LightSwitch allows you to create HTML5 mobile websites using the new HTML Client. This allows you to quickly and easily build and deploy applications in minutes that would normally take hours.

You will learn:
• To create HTML5 multi-page web applications
• To implement custom JavaScript and JQuery plug-ins

SHAREPOINT / OFFICE
In this track you'll learn what's new for developers in SharePoint and Office 2013. SharePoint and Office 2013 changes the way developers approach the platform, and we'll teach you how to benefit from the new concepts and techniques now at your disposal.

■ W16 Build Modern Collaborative Solutions with Office 2013, "Napa" Office 365 Development Tools, and SharePoint 2013 (Level: Introductory)
Brian Randell
Wednesday, May 15   *3:00pm – 4:15pm*

In this introductory session, Brian will provide you with a clear understanding of the various tools and technologies you have available for you today in 2013 to build great

collaboration solutions on top of the Office family of products. Like the Doctor with a TARDIS, Brian will provide you with an experienced traveler's guide to what tools you should use when and where for on premise, cloud, and hybrid solutions. You'll understand how VBA, C#, VB.NET, and JavaScript all fit together and how you maintain your development team's sanity to ship your collaboration solution successful without the need of a Sonic screwdriver.

■ W20 Unit Testing in SharePoint
(Level: Introductory / Intermediate)
Jim Wooley
Wednesday, May 15   *4:45pm – 6:00pm*

The SharePoint platform has plenty of built-in functionality to plug together many existing components. When building custom components and workflows, it is often best to start with coded unit tests to reflect the requirements and isolate your business logic from the SharePoint infrastructure. In this session you will see how to incorporate unit testing into your SharePoint development approach.

You will learn:
• Understand how to isolate your business functionality to make it testable
• Understand why you would want to incorporate unit testing into your SharePoint development methodology
• How to abstract the SharePoint infrastructure to keep your SharePoint development tests working regardless of environment

Conference Speakers

ADVISORY BOARD

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.

Keith Ward
Editor in Chief, Visual Studio Magazine

Keith Ward is editor in chief of *Visual Studio Magazine*. He's been a technology journalist for more than a decade. In that time, he's covered all aspects of the industry, from IT administration to virtualization to software development. He was founding editor of *Virtualization Review* magazine, editor of *Redmond* magazine and senior editor of *Microsoft Certified Professional* magazine. He served as editor in chief of *MSDN Magazine* before his current role with *Visual Studio Magazine*.

Andrew J. Brust - *Founder & CEO, Blue Badge Insights*

Andrew J. Brust is Founder and CEO of Blue Badge Insights and writes a blog for ZDNet called "Big on Data". (http://www.zdnet.com/blog/big-data). Blue Badge Insights provides strategy and advisory services to Microsoft customers and partners. The company derives from Andrew's background in application software development dating back to 1985, and his industry expertise in Microsoft technologies like .NET, SQL Server and Analysis Services. Andrew is co-author of "Programming Microsoft SQL Server 2012" (Microsoft Press); an advisor to NYTECH, the New York Technology Council; serves as Microsoft Regional Director and MVP; is conference co-chair of Visual Studio Live!; and writes Visual Studio Magazine's "Redmond Review" column.

Rockford Lhotka - *CTO, Magenic*

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 is a company that specializes in planning, designing, building and maintaining your enterprise's most mission critical systems.

"THE WAY THE TRACKS WERE DEVELOPED MADE IT EASY TO CHOOSE THE LEARNING ENVIRONMENT THAT BEST SUITED ME. ALL TOPICS WERE GREAT."

Jaime Monreal
Webmaster
Las Vegas Harley-Davidson

SPEAKERS

Jason Bock - *Principal Consultant, Magenic Technologies*

Jason Bock is a Principal Consultant 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 "Applied .NET Attributes", "CIL Programming: Under the Hood of .NET", ".NET Security", and "Visual Basic 6 Win32 API Tutorial". 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) and runs the Twin Cities Languages User Group (http://www.twincitieslanguagesusergroup.com). Jason holds a Master's degree in Electrical Engineering from Marquette University. Visit his web site at http://www.jasonbock.net.

Robert Boedigheimer - *Principal Systems Developer, Schwans Shared Services, LLC*

Robert Boedigheimer works for Schwans Shared Services, LLC providing business solutions with web technologies and leads Robert Boedigheimer Consulting, LLC. Robert has been designing and developing web sites for the past 15 years including the early days of ASP and ASP.NET. He is a columnist for aspalliance.com, a Pluralsight Author, an ASP.NET MVP, an author, a MCPD: ASP.NET 3.5, and a 3rd degree black belt in Tae Kwon Do. Robert has spoken at industry conferences including Visual Studio Live!, Heartland Developers Conference, DevLink, DevTeach, Tulsa Tech Fest, DevWeek, DevReach, SDC, TechEd, DevConnections, AJAXWorld, and numerous national and international events.

Conference Speakers, continued

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

Eric D. Boyd is the Founder and CEO of responsiveX (www.responsiveX.com) and a Windows Azure MVP. Eric began his technology career by starting a web development firm in the 90's and has served in multiple roles since including developer, consultant, business owner and technology executive. Today, he helps companies create great web, mobile and client experiences, often powered by cloud services. You can find Eric blogging at http://www.EricDBoyd.com and on Twitter at http://twitter.com/EricDBoyd.

Miguel Castro - *Architect, IDesign*

Miguel Castro is an architect with IDesign with over 22 years of experience in the software industry. He's a Microsoft MVP, member of the INETA Speakers Bureau, and ASP Insider. With a Microsoft background that goes all the way back to VB 1.0 (and QuickBasic in fact), Miguel has spoken at numerous user groups, code camps, and conferences throughout the US and overseas. He has also been featured on the technology talk shows, .NET Rocks, .NET Rocks-TV, Microsoft's ARCast (Architecture Podcast), and The Polymorphic Podcast on numerous occasions. He specializes in architecture and development consulting and training using Microsoft technologies. Miguel is also a regular author with CoDe Magazine.

Michael Collier - *National Architect, Windows Azure, Neudesic*

Michael Collier serves as a Windows Azure National Architect for Neudesic, a Microsoft SI partner that specializes in Windows Azure. Michael also holds the distinction of being one of the first Windows Azure MVPs awarded by Microsoft. He has nearly 11 years of experience building Microsoft-based applications for a wide range of clients. Michael spends his days serving as a developer or architect â€" helping clients succeed with the Microsoft development platform. You can follow Michael on Twitter at www.twitter.com/MichaelCollier and on his blog at www.MichaelSCollier.com.

Tiberiu Covaci - *Independent Trainer*

Tiberiu started his career as a professional developer in 1991. Since 2004 he has worked as an independent trainer, teaching classes about .NET programming on all levels. But what he loves most is teaching introductory courses because that gives him a chance to influence future .NET programmers. His passion about technology made him a much appreciated speaker at different conferences like TechEd US & Europe, DevReach, NDC, TechDays, and ScanDev. He is a Group Leader for Sweden .NET User Group, an INETA Speaker Bureau member, INETA Country Lead for Sweden, and Telerik MVP.

Benjamin Day - *Architect / Trainer / Coach, Benjamin Day Consulting, Inc.*

Benjamin Day is a consultant and trainer specializing in software development best practices using Microsoft's development tools with an emphasis on Silverlight, Team Foundation Server, Windows Azure, and Scrum. He is a Microsoft Visual Studio ALM MVP, a certified Scrum trainer via Scrum.org, and a speaker at conferences such as TechEd and VSLive. When not developing software, Ben likes to hang out with his wife and cats, play jazz piano, and geek out on all things food. He can be contacted via benday.com and blog.benday.com.

Marcel de Vries - *Technology Manager, Info Support*

Marcel spends most of his time helping customers build enterprise systems based on Microsoft Technology. He has been working with Microsoft technology since he graduated in Computer Science in 1996. He started mainly with C/C++ and MFC. When Microsoft launched its new .NET platform in he immediately used it to write the first commercial application to go life in the Netherlands based on ASP.NET. Marcel writes articles and whitepapers on .NET and Team System for MSDN, Architecture journal and Dutch local magazines like .NET magazine. Marcel is a frequent speaker at conferences like Microsoft Developer Days, SDC, MCT Summit and is besides his work as an IT Architect consultant at large bank and insurance companies also Technology Manager at Info Support and a Microsoft Certified trainer. As a trainer he teaches courses on Visual Studio ALM, Windows Workflow Foundation and Mobile development. Marcel is a Visual Studio ALM MVP and Microsoft Regional Director for the Netherlands.

"SEVERAL OF THE PRESENTATIONS WERE CUTTING EDGE – THEY WOULD HAVE INSIDER TIPS THAT YOU CAN'T EASILY SEARCH FOR OR WOULDN'T KNOW TO LOOK FOR."

John Kilic
Web Application Developer
Grand Canyon University

Conference Speakers, continued

Ben Dewey - *Senior Software Consultant, Tallan, Inc*

Ben Dewey is currently employed at Tallan, Inc. as a Senior Software Consultant. Ben Dewey works during the day on Web and XAML based technologies with heavy use of WCF and a service-based architecture. In his free time, Ben Dewey works on Apps for mobile platforms and has two apps on the Windows Phone Marketplace. Ben strives to create SOLID applications of the highest craftsmanship while paying special attention to clean User Experiences (UX). Ben Dewey recently completed a book title A Guide to Metro Style Apps for O'Reilly publishing. Ben is actively involved in numerous community events, from speaking at local user groups and helping to organize the ALT.NET Meetup in NYC. In addition he make occasional posts to his blog at http://bendewey.com/blog

Gil Fink - *Senior Architect, Sela Group*

Gil Fink, Microsoft MVP, is an expert in Web development and Microsoft data platform. He works as a senior architect at Sela Group. He is currently consulting for various enterprises and companies, where he architects and develops Web and RIA-based solutions. He conducts lectures and workshops for developers and enterprises who want to specialize in infrastructure and Web development. He is also a co-author of several Microsoft Official Courses and training kits. You can read his publications at his blog: http://www.gilfink.net.

Rick Garibay - *General Manager, Connected Systems, Neudesic*

With over 13 years of experience delivering solutions on the Microsoft platform across industry sectors such as finance, transportation, hospitality and gaming, Rick is a developer, architect, speaker and author on distributed technologies and is the General Manager of the Connected Systems Development Practice at Neudesic. Rick specializes in distributed technologies

such as Microsoft .NET, Windows Communication Foundation, Workflow Foundation, and Windows Azure to deliver business value and drive revenue while reducing operational costs. Rick serves as a member of the Microsoft Application Platform Partner Advisory Council and is as an advisor to Microsoft in a number of capacities including long-time membership on the Business Platform and Azure Technology Advisors group. As a five-time Microsoft Connected Systems MVP, Rick is an active speaker, writer and passionate community advocate in the national .NET community. Rick is the Co-Founder of the Phoenix Connected Systems User Group, celebrating four years in operation. Recent presentations include talks at the Microsoft SOA and Business Process Conference in Redmond, WA, Microsoft TechEd, Dev Connections, .NET Rocks, Desert Code Camp, and numerous Microsoft events throughout North America. Rick is a frequent contributor to industry publications such as CODE Magazine, and is the co-author of "Windows Server AppFabric Cookbook." by Packt Press. You can catch up with Rick at http://rickgaribay.net.

Sasha Goldshtein - *CTO, SELA Group*

Sasha Goldshtein is the CTO of SELA Group, a Microsoft C# MVP, and an international consultant and trainer. Sasha is the author of "Introducing Windows 7 for Developers" (Microsoft Press, 2009) and "Pro .NET Performance" (Apress, 2012), a prolific blogger, and author of numerous training courses including Parallel Programming, Windows Internals, .NET Debugging, and .NET Performance. His consulting work revolves mainly around distributed architecture and high-performance systems.

Ben Hoelting - *Senior Software Developer, Intelligent Software Solutions, Inc*

Credentials: C# MVP, MCPD for Web and Windows .NET 4.0 Ben Hoelting: Senior Software Developer, Intelligent Software Solutions, Inc. (ISS)and C# MVP. Ben graduated from Colorado State University in 1997 and joined the IT industry. Worked as a consultant for Colorado Technology Consultants, Inc. from 2005 – 2010

before joining ISS. His most recent projects include a Silverlight line of business application that uses the ADO.NET Entity Framework to access the backend data store. He also is working on an office automation solution that extends PowerPoint. Ben is a Microsoft Certified Professional Developer (MCPD) for Web and Windows .NET 4.0. His blog is at http://www.benhblog.com and his twitter stream is at http://twitter.com/benhnet. Finally, Ben is very involved in the .NET community. He is the leader of the South Colorado .NET User Group and a regular speaker at user groups, code camps and conferences around the country.

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

Conference Speakers, continued

Philip Japikse - *Patterns & Practices Evangelist, Telerik*

Phil Japikse has been working with .Net since the first betas, and developing software for over 20 years. Phil is a Microsoft MVP and also holds MCSD, MCDBA, CSM, and CSP certifications. Phil is an international speaker and a passionate member of the developer community, speaking at Code Camps and Days of .NET all across the country as well as serving as the Lead Director for the Cincinnati .Net User's Group. Phil works as the Patterns and Practices Evangelist for Telerik (www.telerik.com), is a Firefighter/Paramedic, and a volunteer for the Ski Patrol. You can follow Phil on twitter via www.twitter.com/skimedic and read his blog at www.skimedic.com/blog.

Nick Landry - *Senior Product Manager, Infragistics*

Nick Landry (@ActiveNick) is a Senior Product Manager for Infragistics, the world leader in user interface development tools that empower developers to build and style immersive user experiences and rich data visualization in line of business applications across all .NET platforms, the Web and mobile devices (www.infragistics.com). Nick is at the helm of Infragistics' mobile, data visualization and mapping developer tools across multiple technologies and platforms. He previously spent a total of 16 years of his career in IT consulting and services organizations across various technical and business roles, designing, building, managing and selling innovative software solutions for 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 TechEd, DevConnections, DevTeach and others, and is an 8-year Microsoft MVP awarded on Windows Phone Development. With 20 years of professional experience, Nick is a developer and software architect by trade and specializes in Enterprise Mobility, Location Intelligence & Mapping, Touch Computing & NUI, Cloud Computing and Game Development with XNA. He wrote multiple articles for CODE Magazine, published white papers, wrote several mobility courses, has

been a technical editor for IT books, and holds several professional certifications. Blog: www.ActiveNick.net
LinkedIn: 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 usergroup meetings, Visual Studio Live!, SQL PASS, and other industry conferences. He can be reached at lenni.lobel@sleektech.com.

Ted Neward - *Architectural Consultant, Neudesic*

Ted Neward is a programming language, virtual machine, and enterprise-scale system architect. He has written a dozen books and hundreds of articles on .NET, Java, enterprise systems, and programming languages. He resides in the Pacific Northwest. He can be found on the Internet at http://www.tedneward.com, particularly his weblog at http://blogs.tedneward.com.

Brian Noyes - *Chief Architect, IDesign Inc*

Brian Noyes is Chief Architect of IDesign Inc, a Microsoft Regional Director and Microsoft MVP. Brian is a frequent top rated speaker at conferences including Visual Studio Live!, Microsoft TechEd US, EU, Africa, and Asia, DevConnections, DevTeach and others. Brian is author of Developers Guide to Microsoft Prism 4, Developing Applications with Windows Workflow Foundation, Data Binding in Windows Forms 2.0, and Smart Client

Conference Speakers, continued

Deployment with ClickOnce. Brian got started programming as a hobby while flying F-14 Tomcats in the US Navy, later turning his passion for code into his current career.

Brian Peek - *Senior Technical Evangelist, Microsoft*

Brian Peek is a Technical Evangelist at Microsoft, working on the Channel 9 team. Previously a Microsoft MVP in the C# discipline, he has authored numerous articles and projects for the Coding4Fun website and Microsoft conferences. Brian specializes in software development using a variety of Microsoft technologies and platforms. He is also well-versed in hardware projects, graphics and game development. Additionally, he has co-authored the book "Coding4Fun: 10 .NET Programming Projects for Wiimote, YouTube, World of Warcraft, and More" published by O'Reilly, and the book "Debugging ASP.NET" published by New Riders. Brian speaks at conferences around the country and can be reached on Twitter at @BrianPeek or via his blog at http://www.brianpeek.com.

Brian Randell - *Senior Consultant, MCW Technologies*

Brian A. Randell is a senior consultant with MCW Technologies, LLC. For over 20 years, Brian has been building software solutions and educating his fellow developers. Brian spends his time teaching Microsoft technologies to developers, working with new and emerging technologies like Visual Studio 2010, Team Foundation Server 2010, SQL Server 2008 R2, and Share-Point 2010, and consulting worldwide for Fortune 500 companies like Microsoft, state and local governments, and small businesses. Brian enjoys helping people get the most out of their software. He does this through training for MCW Technologies and speaking at events such as Visual Studio Live!, Tech•Ed, and the PDC. In addition, Brian shares through the written word. Brian currently writes the Team System column for *MSDN Magazine*.

Jesus Rodriquez - *Chief Architect, Tellago and Tellago Studios*

Jesus is the Chief Architect of Tellago and Tellago Studios. He is also a Microsoft BizTalk Server MVP, an Oracle ACE and one of a few Architects worldwide to be a member of the Microsoft Connected Systems Advisor team. As a member, Jesus has been selected to participate in a variety of Software Design Reviews with Microsoft's Product Teams including Windows Communication Foundation, Windows Identity Framework, StreamInsight, AppFabric, .NET Software Design, Windows Workflow Foundation, SharePoint, and BizTalk Server. Jesus derived his extensive experience with business process integration and messaging through numerous implementations of disparate systems founded on the principles of SOA and BPM. Jesus is an active contributor to the .NET and J2EE communities and an internationally recognized speaker and author with contributions that include several articles for various publications including MSDN Magazine, Microsoft Architecture Journal, SOAWorld and Web Services Journal as well as speaking engagements at top industry conferences such as Microsoft TechEd, Microsoft DevDays, Microsoft SOA and the Microsoft MVP Summit. Additionally, Jesus has conducted a number of Web Casts on varying SOA technologies. Jesus is a prolific blogger on all subjects related to integration and has a true passion for technology. You can gain valuable insight on leading edge technologies through his blog at http://weblogs.asp.net/gsusx.

Michael Washington - *Programmer, LightSwitchHelpWebsite.com*

Michael Washington is the founder of LightSwitch.ADefWebserver.com. He is an ASP.NET, C#, and Visual Basic programmer. He has extensive knowledge in process improvement, billing systems, and student information systems. He is a Microsoft Silverlight MVP. Michael has a son, Zachary and resides in Los Angeles with his wife Valerie.

Christopher Woodruff - *Microsoft Cloud Practice Lead, Perficient, Inc.*

Chris Woodruff (or Woody as he is commonly known as) has a degree in Computer Science from Michigan State University's College of Engineering. Woody has been developing and architecting software solutions for almost 15 years and has worked in many different platforms and tools. He is a community leader, helping such events as Day of .NET Ann Arbor, West Michigan Day of .NET and CodeMash. He was also instrumental in bringing the popular Give Camp event to Western Michigan where technology professionals lend their time and development expertise to assist local non-profits. As a speaker and podcaster, Woody has spoken and discussed a variety of topics, including database design and open source. He is a Microsoft MVP in Data Platform Development and was recently recognized as one of the top 20 MVPs world-wide. Woody works at Perficient, Inc.

Woody is the co-host of the popular podcast "Deep Fried Bytes" and blogs at www.chriswoodruff.com. He is the President of the West Michigan .NET User Group and also is a co-founder of the software architecture online portal nPlus1.org.

Jim Wooley - *Consultant, Slalom Consulting*

By day, Jim Wooley is a consultant for Slalom Consulting, In his free time, Jim is a frequent speaker, INETA Regional Speaker, MVP, and author of "LINQ in Action". He is always striving to stay at the forefront of technology and enjoys the thrill of a new challenge. He has been active evangelizing LINQ since it's announcement in 2005. In addition, he attempts to pass on the insights he has gained by being active in the community, including organizing and speaking at code camps and regional events, including VS Live, DevLink, DevWeek, CodeMash, CodeStock, and MIX.

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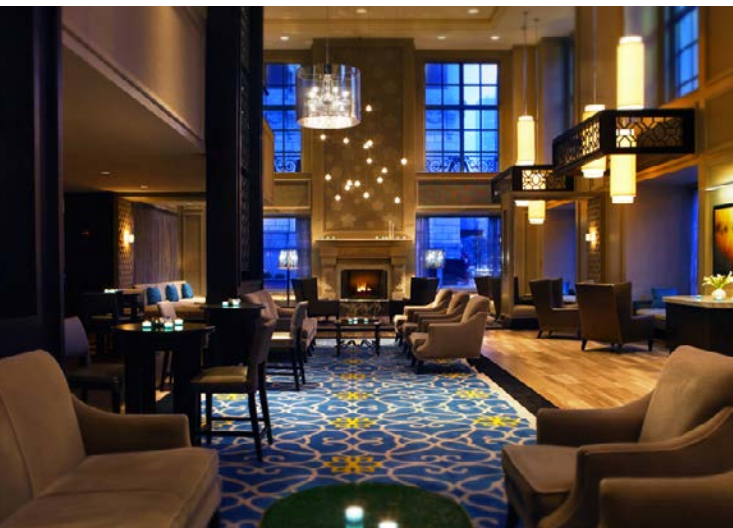HILTON CHICAGO

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• Follow signs for I-190 east.
• Take I-190 to I-90 east.
• I-90 will merge with I-94.
• Take 1-90/94 Approx. 18 miles to Jackson St.
• Exit Jackson St. Drive 1/4 mile on Jackson St., turn right on Michigan Ave. Hotel is 5 blocks down.
• Distance from Hotel: 18 miles

Transport	Typical Minimum Charge
Super Shuttle	31.00 USD
Subway/Rail	2.25 USD
Taxi	45.00 USD
Limousine	100.00 USD

Directions from Chicago Midway Airport
• I-55 north to Chicago North on Lakeshore Drive.
• Left on Balbo two blocks to hotel on left.
• Distance from Hotel: 12 miles

Transport	Typical Minimum Charge
Super Shuttle	26.00 USD
Subway/Rail	2.25 USD
Taxi	35.00 USD
Limousine	100.00 USD

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Self-parking: $45.00 ($45 12-24 hours)
Valet parking: $57.00 ($57 6-24 hours)

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