

IN-DEPTH TRAINING

ON THE MICROSOFT CAMPUS



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 VISUAL STUDIO LIVE!
 REDMOND CO-CHAIR
*Founder and CEO
 Blue Badge Insights*



Rockford Lhotka
 VISUAL STUDIO LIVE!
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*Principal Technology
 Evangelist Magenic*



Michael Desmond
 EDITOR IN CHIEF
*Visual Studio
 Magazine*



Keith Ward
 EDITOR IN CHIEF
MSDN Magazine

CONFERENCE SPEAKERS



Rachel Appel



Tony Champion



Robert Greene



Leonard Lobel



Sergey Barskiy



Tiberiu Covaci



Ben Hoelting



Chris Mullins



Jason Bock



Rob Daigneau



Billy Hollis



Ted Neward



Robert Boedigheimer



Benjamin Day



Ron Jacobs



John Papa



Eric Boyd



Marcel de Vries



Phillip Japikse



Brian Randell



Pete Brown



Jon Flanders



Deborah Kurata



Michael Stiefel



Andrew Brust



Ido Flatow



Vishwas Lele



Jason Zander



Miguel Castro



Scott Golightly



Rockford Lhotka

BECOME A BETTER DEVELOPER ON THE MICROSOFT CAMPUS

JOIN US IN OCTOBER FOR:

- In-depth training for all levels of developers to help simplify the development process from design to deployment
- Networking opportunities and special events including Ask the Experts & Welcome Reception, Visual Studio Live! Wild Wednesday, and access to the Microsoft Company Store
- Full day pre- and post-conference workshops for deep dives into Silverlight/WPF, Visual Studio 2010/.NET, Programming Practices, Developing Services, Data Management and more
- Your choice of 60+ sessions – including 18 sessions with Microsoft insiders



NEW TRACKS AT REDMOND:

Mobile Development
Web/HTML5
Developing Services
Programming Practices
Silverlight/WPF



Silverlight/WPF	Developing Services	Visual Studio 2010/.NET 4	Cloud	Data Management	LightSwitch	Programming Practices	Web/HTML5	Mobile Dev
Visual Studio Live! Pre-Conference Workshops: Monday, October 17, 2011								
MWK1 Workshop: ALM in 2011: Visual Studio 2010 and the Next Big Release <i>Brian Randell</i>			MWK2 Workshop: Making Effective Use of Silverlight and WPF <i>Billy Hollis & Rockford Lhotka</i>			MWK3 Workshop: Programming with WCF in One Day <i>Miguel Castro</i>		
Visual Studio Live! Day 1: Tuesday, October 18, 2011								
Keynote: Visual Studio and a Glimpse of the Future <i>Jason Zander, Corporate Vice President of the Visual Studio Team in the Developer Division, Microsoft</i>								
T1 Microsoft Session—Details TBA	T2 Intense Intro to Silverlight <i>Billy Hollis</i>	T3 AppFabric, Workflow and WCF - the Next-Generation Middleware <i>Ron Jacobs</i>	T4 If not IaaS, When Should I Use Windows Azure VM role? <i>Eric D. Boyd</i>	T5 Best Kept Secrets in Visual Studio 2010 and .NET 4 <i>Deborah Kurata</i>				
T6 Microsoft Session—Details TBA	T7 XAML: Achieving Your Moment of Clarity <i>Miguel Castro</i>	T8 What's New in WCF 4 <i>Ido Flatow</i>	T9 What Is Microsoft Marketplace DataMarket? <i>Michael Stiefel</i>	T10 The LINQ Programming Model <i>Marcel de Vries</i>				
T11 Microsoft Session—Details TBA	T12 Fundamental Design Principles for UI Developers <i>Billy Hollis</i>	T13 Creating Scalable State Full Services Using WCF and WF <i>Marcel de Vries</i>	T14 Deciding Between Relational Databases and Tables in the Cloud <i>Michael Stiefel</i>	T15 NoSQL—Beyond the Key-Value Store <i>Robert Green</i>				
T16 HTML5 and Internet Explorer 9: Developer Overview <i>Ben Hoelting</i>	T17 Bind Anything to Anything in XAML <i>Rockford Lhotka</i>	T18 AppFabric Caching: How It Works and When You Should Use It <i>Jon Flanders</i>	T19 Microsoft Session—Details TBA	T20 How to Take WCF Data Services to the Next level <i>Rob Daigneau</i>				
Microsoft Ask the Experts & Welcome Reception								
Visual Studio Live! Day 2: Wednesday, October 19, 2011								
W1 HTML 5 and Your Web Sites <i>Robert Boedigheimer</i>	W2 Handling Offline Data in Silverlight and Windows Phone 7 <i>John Papa</i>	W3 Microsoft Session—Details TBA	W4 Windows Azure Platform Overview <i>Vishwas Lele</i>	W5 ALM <i>Brian Randell</i>				
W6 Styling Web Pages with CSS 3 <i>Robert Boedigheimer</i>	W7 Building Great Windows Applications with XAML and C# (LINQ) <i>Pete Brown</i>	W8 Building Native Mobile Apps with HTML5 & jQuery <i>Jon Flanders</i>	W9 Building Windows Azure Applications <i>Vishwas Lele</i>	W10 Visual Studio <i>Brian Randell</i>				
W11 The Best of jQuery <i>Robert Boedigheimer</i>	W12 What's New and Cool in Silverlight 5 <i>Pete Brown</i>	W13 Getting Started with Windows Phone 7 <i>Scott Golightly</i>	W14 Building Compute-Intensive Apps in Windows Azure <i>Vishwas Lele</i>	W15 Bringing Your Data and Maps Together with Esri Cloud Services <i>Arthur J. Haddad</i>				
W16 ASP.NET MVC Raxor and jQuery - the New Face of ASP.NET <i>Ido Flatow</i>	W17 Silverlight, WCF, RIA Services and Your Business Objects <i>Deborah Kurata</i>	W18 Windows Azure and Windows Phone - Creating Great Apps <i>Scott Golightly</i>	W19 Building and Running the Windows Azure Developer Portal <i>Chris Mullins</i>	W20 Microsoft Session—Details TBA				
Sponsor Reception / Wild Wednesday								
Visual Studio Live! Day 3: Thursday, October 20, 2011								
TH1 WebMatrix and Razor <i>Rachel Appel</i>	TH2 Bringing the Silverlight PivotViewer to your Applications <i>Tony Champion</i>	TH3 CSLA 4 for Windows Phone and Silverlight - <i>Rockford Lhotka</i>	TH4 Microsoft Session—Details TBA	TH5 Design for Testability: Mocks, Stubs, Refactoring and UI's <i>Ben Day</i>				
TH6 Orchard <i>Rachel Appel</i>	TH7 MVVM in Practice aka "Code Behind"—Free WPF <i>Tiberiu Covaci</i>	TH8 Working with Data on Windows Phone 7 <i>Sergey Barskiy</i>	TH9 Microsoft Session—Details TBA	TH10 Team Foundation Server 2010 Builds: Understand, Configure and Customize <i>Ben Day</i>				
TH11 Busy Developer's Guide to (ECMA/Java)Script <i>Ted Neward</i>	TH12 Radically Advanced Templates for WPF and Silverlight <i>Billy Hollis</i>	TH13 Advanced Patterns with MVVM in Silverlight and Windows Phone 7 <i>John Papa</i>	TH14 Microsoft Session—Details TBA	TH15 Grasping the LightSwitch Paradigm (the Taming of the Tool) <i>Andrew Brust</i>				
TH16 Getting Started with ASP.NET MVC <i>Phillip Japikse</i>	TH17 Using MEF to Develop Composable Applications <i>Ben Hoelting</i>	TH18 Windows Phone 7 Instrumentation—How to Learn from your App <i>Tony Champion</i>	TH19 So Many Choices, So Little Time: Understanding Your .NET 4 Data Access Options <i>Lenni Lobel</i>	TH20 Static Analysis in .NET <i>Jason Bock</i>				
TH21 Test Driving ASP.NET MVC <i>Phillip Japikse</i>	TH22 Patterns for Parallel Programming <i>Tiberiu Covaci</i>	TH23 Microsoft Session—Details TBA	TH24 Using Code First (Code Only) approach with Entity Framework <i>Sergey Barskiy</i>	TH25 Modern .NET Development Practices and Principles <i>Jason Bock</i>				
Visual Studio Live! Post-Conference Workshops: Friday, October 21, 2011								
FWK1 Architectural Katas Workshop <i>Ted Neward</i>				FWK2 SQL Server Workshop for Developers <i>Andrew Brust & Leonard Lobel</i>				

*sessions and speakers subject to change

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EVENTS

The Fun Stuff: Visual Studio Live! Redmond Events & Activities

Your attendance at Visual Studio Live! Redmond is about learning from your peers as well as the experts; make the most of your time with us and add these events and activities to your itinerary!

ACTIVITIES

Access to the Microsoft Company Store

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

Popular home-use software titles such as Windows 7, Office 2010, Office for Mac, and Streets and Trips are available. XBOX 360 hardware, accessories and also a selection of XBOX games are offered at significant savings. At the Redmond campus location, you will find one of the largest selections of Microsoft-branded PC hardware in any retail store. PC Hardware offered includes Keyboards and desktop sets, Mice, Webcams and more.

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

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

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

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

Meet the Pros



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

**"I learned a lot!
Met some great
folks. Loved seeing
Microsoft, the mother
ship!"**

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EVENTS

Microsoft Ask the Experts & Welcome Reception

Tuesday, October 18, 6:00 – 8:00 pm

Microsoft Visitor Center, Sub-Mixer, and Microsoft Company Store



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

Microsoft Experts will represent the following technologies:*

- Visual Studio
- Languages
- TFS
- ASP.NET
- Silverlight / WPF
- SharePoint
- Windows Phone 7
- Futures
- Data Access
- Parallelism

About the Microsoft Visitor Center:

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

**List of Microsoft Experts is subject to change.*

Visual Studio Live! Wild Wednesday

Wednesday, October 19, 6:00 pm

Visual Studio Live! Wild Wednesday is your chance to unwind with drinks and snacks while you join your fellow attendees and speakers for a highly-informal – if not irreverent – but educational and fun evening – and get the chance to win great raffle prizes.



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KEYNOTE

■ **Keynote: Visual Studio and a Glimpse of the Future**

Jason Zander, Corporate Vice President of the Visual Studio Team in the Developer Division, Microsoft

Tuesday, October 18

8:30am - 9:30am

Visual Studio Live! Redmond will kick off with a Keynote Session presented by Jason Zander, Corporate Vice President of Microsoft's Developer Division. Details of Mr. Zander's keynote will be available soon and you won't want to miss it!

WORKSHOPS

BEGIN AND END YOUR WEEK AT VISUAL STUDIO LIVE! WITH THESE IN-DEPTH, FULL-DAY WORKSHOPS.

PRE-CONFERENCE WORKSHOP

■ **MWK1 ALM in 2011: Visual Studio 2010 and the Next Big Release** *Intermediate*

Brian Randell

Monday, October 17

9:00am – 6:00pm

In this workshop, you'll learn how to build higher quality applications that your users love using Visual Studio 2010's Application Lifecycle Management Tools and Team Foundation Server 2010.

Your users and customers really don't care about your process. They don't really care about your tools. They do care about what you build.

You can break down what a user wants to a simple idea: they want a quality user experience. Most users want their applications to have an intuitive user interface. They want it to be connected—network and Internet ready. They want it to be available—24/7 is possible. And finally, they want it to be fast.

Brian will show you how you can satisfy these four requirements by using the great tools available today. In addition, Brian will look at what's coming from Microsoft and how you can prepare to use those new tools.

You will learn:

- What a quality experience is and how to define it.
- About latest tooling Visual Studio 2010 SP1 from Professional to Ultimate
- How your team can work better with Team Foundation Server 2010 SP1
- The latest on what Microsoft has planned for the next big release

PRE-CONFERENCE WORKSHOP

■ **MWK2 Workshop: Making Effective Use of Silverlight and WPF** *Intermediate*

Billy Hollis & Rockford Lhotka

Monday, October 17

9:00am – 6:00pm

Are you ready to move to next generation XAML-based interfaces? Have you tried and floundered? Or did you get something that looked just like your old interfaces except with prettier colors? Come and hear some real-world advice from a couple of industry notables who have been working with WPF and Silverlight for years. They'll help you build your conceptual skeleton for XAML-based UI, lowering the barrier to effective development of more intuitive, attractive, and productive user interfaces. You'll see an introduction to XAML syntax and a deep look at the layout system. You'll learn how data templates and control templates give you an unprecedented degree of control over visual appearance and behavior. You'll learn the basics of styles and animation, and leave with pointers to resources for a more advanced look. Finally, you'll hear about some real-world lessons in advanced UI development, and see some examples of effective and innovative interfaces. You'll leave with a better conceptual understanding of WPF and Silverlight, and ready to get much more out of advanced sessions on these technologies.

You will learn:

- Effective design of Silverlight and WPF applications
- XAML syntax and the use of Visual Studio 2010 designer features
- Practical application of the MVVM design pattern

PRE-CONFERENCE WORKSHOP

■ **MWK3 Workshop: Programming with WCF in One Day** *Introductory*

Miguel Castro

Monday, October 17

9:00am – 6:00pm

WCF seems to have been quite an intimidating topic for many developers. It's a technology that provides a unified programming model for what used to be four different technologies. In truth, it's simpler to use than you may think. Still, many developers are bent on continuing to develop new projects using ASMX web services and even .NET Remoting, the two primary technologies that WCF fully replaces. Even though at its simplest, it doesn't take much to get a service up and running, and is indeed a topic I've taught in standard 75 minutes sessions, WCF offers many other characteristics that make developing

services in it very appealing. But it is these very additions to the basics of WCF that intimidates developers. In this one-day workshop, I'll take you through the design and development of WCF services from the ground up using a best-practice approach from the beginning. We'll cover service contracts, data contracts, services, proxies, hosting, and consuming. Then we'll dive into many of the additional features provided by WCF including but not limited to transactions, fault handling, and instancing. And time-permitting we may get into the basics of WCF security. You'll walk out fully armed and ready to start writing WCF services without intimidation.

You will learn:

- Knowledge of all the WCF fundamentals and some of advanced features
- WCF recommended practices in real-world
- Lots of tips and tricks for design, hosting, and WCF consuming
- Full coverage of WCF technology.
- Intro to SOA

POST-CONFERENCE WORKSHOP

FWK1 Architectural Katas Workshop *Introductory to Intermediate*

Ted Neward

Friday, October 21

8:00am – 5:00pm

Fred Brooks said, "How do we get great designers? Great designers design, of course." So how do we get great architects? Great architects architect. But architecting a software system is a rare opportunity for the non-architect.

The kata is an ancient tradition, born of the martial arts, designed to give the student the opportunity to practice more than basics in a semi-realistic way. The coding kata, created by Dave Thomas, is an opportunity for the developer to try a language or tool to solve a problem slightly more complex than "Hello world". The architectural kata, like the coding kata, is an opportunity for the student-architect to practice architecting a software system. In this workshop, we'll do exactly that--architect. We'll first go over what architecture means and what the architect does, but then the focus will be on doing it. Participants will be given problems to solve, create an architecture to solve it, then defend their architecture against challenges and monkey-wrenches thrown at them from all corners.

In short, you'll be an architect without your job being on the line.

You will learn:

- Finally answer the question, "What is architecture?"
- Architecting in real-time
- Recognize when the architecture doesn't work, and how to refactor when necessary



POST-CONFERENCE WORKSHOP

FWK2 SQL Server Workshop for Developers *Intermediate*

Andrew Brust & Leonard Lobel

Friday, October 21

8:00am – 5:00pm

This full-day workshop will get you up to speed on key new features of SQL Server 2008 and 2008 R2, as well as the emerging pre-release features of the next version of SQL Server code-named “Denali.” Lenni and Andrew will pull no punches as they rip through the newest capabilities in SQL Server 2008—including the most recent enhancements added in SQL Server 2008 R2. We’ll begin with an overview of what’s new in SQL Server 2008, and then dive right in to an intensive demo-packed tour of the most important features for developers.

We’ll start with the many exciting 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 stored procedures and UDFs. Find out about MERGE, a powerful new DML statement that combines the capabilities of four (or more) separate operations, and INSERT OVER DML, which enhances our ability to capture change data from the OUTPUT clause of any DML statement. Other T-SQL enhancements we’ll cover include the new date and time data types (with time zone awareness), and GROUPING SETS feature for greater flexibility in composing aggregate queries.

We’ll then look at SQL Server’s newest release: 2008 R2. Originally dubbed the “BI Refresh” by Microsoft insiders, R2 adds the brand new PowerPivot self-service BI product, a revamped version of Reporting Services with a new Component Library feature and a new version of Report Builder.

Then we’ll examine the new “beyond relational” features in SQL Server 2008, which 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.

We’ll finish up with the powerful new enterprise-level data warehousing and security features including Change Data Capture, SQL Server Audit and Transparent Data Encryption. You’ll learn a ton of new SQL Server features in this information-packed day!

DATA MANAGEMENT

The Microsoft platform is rich with data related technologies. The Data Management track at Visual Studio Live! focuses on some of the most important data related technologies. The information in these sessions will enable you to manage your data for Windows, RIA, Web and Cloud computing applications.

T10 The LINQ Programming Model

Introductory

Marcel de Vries

Tuesday, October 18

11:25am – 12:40pm

This session will show in what way developers can leverage the power of LINQ. This session will not dive into how LINQ works but for a change will give you an idea on what you need to know as the programmer using LINQ and how you can apply it to different parts of your work including manipulating in memory objects, data from a database and of course XML.

This session will start with an introduction to the LINQ syntax. From this introduction we take a journey into the different available technologies that ship with Visual the .NET framework and are LINQ enabled. These technologies include XLINQ, LINQ to DataSets and Entity Framework.

T15 NoSQL Beyond Key-Value Store

Robert Greene

Tuesday, October 18

2:30pm - 3:45pm

Majority of the NoSQL Technologies focus on achieving scale-out ability by building their architecture around a simple, distributed hash, key-value store. This works well for partitioning simple data, but in reality, your information models are not simple. As a result, you may have to build enormous layers of code to manage an explicit structure baked into the persistence tier. In this session, take a look at a NoSQL solution for .NET which allows you to store naturally clustered, richly linked object networks beneath your key partitioned roots

You will learn:

- Manage Big Data in the context of complex information models with .NET
- Use NoSQL technology to partition and store large scale, richly linked object hierarchies
- Achieve the management of complex information models without the need to learn new API's.
- Leverage existing .NET standards such as LINQ.
- Move beyond a basic key-value store

T20 How to Take WCF Data Services to the Next Level *Intermediate*

Rob Daigneau

Tuesday, October 18

4:30pm – 5:45pm

Visual Studio has made it incredibly easy for developers to create WCF

Data Services that provide access to databases and other resource types in no time flat. When combined with the OData protocol and LINQ, clients are given an easy yet powerful way to perform basic CRUD operations. However, you'll eventually come to a place where the out-of-the-box features don't quite meet your needs. Fortunately, WCF doesn't box you in.

In this session you'll learn how to take your Data Services to the next level. You'll see how to leverage the power of Interceptors and Service Operations to alter the default behaviors of services. You'll also learn techniques to enforce common generic behaviors which handle such things as data validation, data transformation, caching, and logging. The possibilities for these amazing WCF extensibility mechanisms are endless!

You will learn:

- To use custom Interceptors to alter query behavior and non-safe operations (i.e. Create, Update, Delete, and non-standard HTTP operations)
- To use custom behaviors to handle such things as data validation, data transformation, caching, and logging
- Leverage Service Operations to simplify complex OData operations
- Insert custom logic into the DataServices pipeline
- Understand the advantages and trade-offs of using these techniques

TH19 So Many Choices, So Little Time: Understanding Your .NET 4 Data Access Options *Intermediate*

Lenni Lobel

Thursday, October 20

2:10pm – 3:25pm

We all know that Microsoft loves to drop new data access APIs in our laps, but since .NET 3.5 SP1, and now with .NET 4.0, the variety of new capabilities and options available is unprecedented, even for Microsoft. The .NET 3.5 SP1 framework gave us Entity Framework (EF), Language-Integrated Query (LINQ), LINQ to SQL (and a variety of other LINQ providers) and ADO.NET Data Services. Now .NET 4.0 sports a revamped EF 4.0 with N-tier support and adds on WCF RIA Services.

How do you sort out this chaos? Is conventional ADO.NET dead? Is it possible to bridge the DataSet with Silverlight? How do you build an n-tier Silverlight app using domain services and EF 4.0? Lenni will answer these questions (and more) to help demystify the Microsoft data access juggernaut. We'll compare the real advantages and disadvantages across this set of technologies so that you can choose the best architecture for your application. Attend this session and develop a clear perspective of .NET data access in to-day's world.

You will learn:

- The evolution of .NET data access
- How to clarify the role of conventional ADO.NET and DataSets

- About the Entity Framework
- How to leverage WCF Data Services and WCF RIA Services

TH24 Using Code First (Code Only) Approach with Entity Framework *Introductory*

Sergey Barskiy

Thursday, October 20

3:45pm – 5:00pm

Sessions will include high level overview of Entity Framework and how various approaches to use it fit into application development lifecycle. Then I will build POCO classes that entity framework can use to create database as well as perform CRUD operations against the database. Various attributes that are included out of the box will be covered. This will include columns constraints, relationships, etc. I will show you how ASP.NET MVC 3 can utilize entity framework code first metadata to build automatic validation of user input.

You will learn:

- How to build data access layer with Entity Framework Code First
- About validation approaches using POCO classes
- Fluent API and attribute based configuration option

MOBILE DEVELOPMENT

The rapid adoption of portable computing devices, both phones and pads/slates/tablets) is having an amazing impact on how people think about interacting with computers and applications. The portability, multi-touch, high-resolution screens, voice recognition and other features that are the hallmarks of these devices define a new way of thinking about application interface design. This track will familiarize you with technologies you can use to build applications for Windows Phone 7 (WP7), Android and iOS (iPhone/iPad/iPod Touch) devices.

W2 Handling Offline Data in Silverlight and Windows Phone 7 *Introductory to Intermediate*

John Papa

Wednesday, October 19

9:50pm – 11:05pm

This session walks through creating offline data in Windows Phone using isolated storage and the new database options. We'll go through how to create, manage, and access local structured data.

You will learn:

- Managing local structured data

W7 Building Great Windows Applications with XAML and C# (LINQ)

Pete Brown

Wednesday, October 19

11:25am - 12:40pm

WPF has been a mainstay of desktop application development for some time. Silverlight has also evolved to be an excellent desktop application development platform. In this advanced code and demo-oriented session, we'll take a real Windows application, and cover the XAML-based UI, as well as the calls to the native operating system APIs and integration with various parts of Windows 7.

You will learn:

- How to create great Windows applications using Silverlight, C#, and XAML
- How to call Windows APIs from Silverlight

W8 Building Native Mobile Apps with HTML5 & jQuery *Advanced*

Jon Flanders

Wednesday, October 19

11:25am - 12:40pm

HTML5 and JQuery are the cool new kids on the block for building Web Applications. People generally prefer native mobile apps over bookmarks in mobile browsers. Why not do both?

In this session you'll see how you can use a native mobile shell on the popular mobile platforms (iOS, Android, and Windows Phone 7) to host an HTML5 application and how to interact with native APIs, handle offline mode, and deal with devices with different resolutions.

W13 Getting Started with Windows Phone 7 *Introductory to Intermediate*

Scott Golightly

Wednesday, October 19

2:00pm - 3:15pm

In this session we will look at how you can start developing for Windows Phone 7 for free. This demo heavy session will walk through the basics of creating a Silverlight or XNA application for the phone. We will end our discussion with a brief overview of the steps needed to get your application into the marketplace.

You will learn:

- Understand how to download tools and begin creating applications for Windows Phone
- See how to create applications using either Silverlight or XNA
- Understand unique issues with developing for the phone including application activation and requirements for placing the application in the marketplace

W18 Windows Azure and Windows Phone - Creating Great Apps *Intermediate*

Scott Golightly

Wednesday, October 19

3:35pm - 4:50pm

By using the strengths of Windows Phone and Windows Azure you can create great applications. By backing Windows Phone with a scalable cloud service you can do more than you could with just the phone. This session will demonstrate how to create Windows Azure services and Windows Phone applications that work together.

You will learn:

- Using the Windows Azure emulator and Windows Phone emulator you can use your existing skills to create and debug your applications
- Windows Azure provides storage and other services to enable new application scenarios
- We will discuss best practices and patterns for understanding how to integrate the cloud into your phone application

TH3 CSLA 4 for Windows Phone and Silverlight *Intermediate*

Rockford Lhotka

Thursday, October 20

8:30am - 9:45am

Developing code that can be reused across .NET, Silverlight, and the Windows Phone is important for any business application. The widely used CSLA .NET development framework helps developers design and implement business code that can be reused across these platforms. In this session you will learn how to build reusable business code, and you'll see how Silverlight and Windows Phone interfaces can be created to use this common business logic.

You will learn:

- Learn how to build business logic that can be reused across the .NET, Silverlight, and Windows Phone platforms
- Learn how to build a Silverlight UI using rich business objects
- Learn how to build a Windows Phone UI using rich business objects

TH8 Working with Data on Windows Phone 7 *Intermediate*

Sergey Barskiy

Thursday, October 20

10:05am - 11:20am

I will talk about various approaches to work with data on Windows Phone 7. I will cover all major concepts, such as local storage, OData/WCF Data Services and custom WCF services. I will demonstrate how

to retrieve data and save changes locally or to a remote web server. I will build demos for all technologies step-by-step.

You will learn:

- About options to persist the data on Windows Phone 7
- About pros and cons of each technologies
- Knowledge to build a Windows Phone application that publishes and/or consumes data

TH13 Advanced Patterns with MVVM in Silverlight and Windows Phone 7

Intermediate

John Papa

Thursday, October 20

11:40am - 12:55pm

Ever wonder what the MVVM pattern is, why it exists, when it works well, and what parts you may want to use or not use? In this session I'll discuss all of these topics and go through important scenarios including messaging, child windows, testing with design time data, tombstoning, dialogs, and how to apply these principals to both Silverlight desktop and Windows Phone 7 applications.

- You will learn:
- MVVM fundamentals and binding techniques
- Tombstoning
- Design Time data
- Development time data
- Commanding and Behaviors
- Messaging

TH18 Windows Phone 7 Instrumentation - How to Learn from your App

Tony Champion

Thursday, October 20

2:10pm - 3:25pm

As a mobile developer, how the user experiences and interacts with your application should always be your primary focus. By properly instrumenting your application, you can answer questions like how much time the user is spending in your application, which features they are using, and how the user navigates within your application. Discover how to instrument your application using the latest tools and how to use that information to improve the user's experience.

You will learn:

- Demonstrate how to instrument a WP7 application using popular solutions, as well as how to create an instrumentation solution on your own
- Examine tips and tricks on what data to collect, how often to collect it, and how to learn

SILVERLIGHT/WPF

Windows Presentation Foundation (WPF) and Silverlight are rapidly becoming the dominant UI technologies for Windows clients and Windows Phone devices. This track has sessions to get you up to speed on these technologies and help you transition from previous UI technologies. If you are already familiar with the technologies, we have sessions that'll build your skills and help you reach the next level of productivity.

T2 Intense Intro to Silverlight

Introductory to Intermediate

Billy Hollis

Tuesday, October 18

9:50am - 11:05am

Haven't gotten into XAML/Silverlight yet? Or poked at it for a few hours and came away without much understanding? This is the session you need for a ground-zero explanation of the most important basic concepts, including the ones that are radically different from UI technologies you've used before. You'll see basic structure of XAML and how you use it to compose elements together instead of simply dragging controls onto a surface. You'll see an overview of data binding, templating, control "content", styling, and animation, and how all these combine to give you radically more flexibility for your apps. Plus, you'll see some of the main potholes to avoid as you get started. Put your running shoes on and come prepared for a fast-paced, intense introduction to Silverlight.

You will learn:

- Basic understanding of how XAML-based UI differs from other UI technologies
- How to leverage the flexibility in Silverlight for better line of business applications
- How to avoid some of the common pitfalls encountered by beginning Silverlight developers

T7 XAML: Achieving Your Moment of Clarity

Introductory

Miguel Castro

Tuesday, October 18

11:25am - 12:40pm

Still find XAML intimidating? Well, throw in MVVM and certain design practices and it can get worse. But the truth is that it isn't as complicated as it appears to be. In this short session, I'll give you the basics of how XAML works. I'll cover its syntax, control usage, the visual tree, and the scariest animal of all, binding. I'll give you your moment of clarity, I promise.

You will learn:

- Understanding of XAML controls
- XAML layout techniques
- XAML data binding

T12 Fundamental Design Principles for UI Developers

Billy Hollis

Tuesday October 18

2:30pm – 3:45pm

New UI technologies increase user expectations, and developers need to ramp up better design sensibilities to help meet that challenge. Billy Hollis distills out the most important concepts and ideas for developers to learn and understand when they take on a more design oriented role. Design concepts covered include use of color and animation, progressive disclosure, prototyping processes, aesthetic-usability effect, feedback loops, recognition vs. recall, and several others. If you expect to design XAML-based user interfaces, or work with a professional designer on a project, this session is a great starting point.

T17 Bind Anything to Anything in XAML *Introductory*

Rockford Lhotka

Tuesday, October 18

4:30pm – 5:45pm

The XAML markup language was designed around the idea of binding. Not just data binding, but binding between UI controls, data objects and other resources. In fact you can almost bind anything to anything else. The result is the ability to build amazing user interfaces and experiences with little or no code outside the XAML. Learn how to use binding in WPF, Silverlight and WP7.

You will learn:

- Binding between UI controls, data objects and other resources
- How to build amazing user interfaces and experiences with little or no code outside the XAML
- how to use binding in WPF, Silverlight and WP7

W12 What's New and Cool in Silverlight 5 *Introductory to Intermediate*

Pete Brown

Wednesday, October 19

2:25pm – 3:15pm

Come see what's new and exciting with Silverlight 5. Learn about features for business application development, visualization, graphics, and casual gaming. In this demo- and code-focused developer session, we hit the major new features in Silverlight 5 from 3d to templates to binding improvements, sound effects, and more, and get you well on your way to being productive with the latest release of Silverlight.

You will learn:

- How to use the new features in Silverlight 5

W17 Silverlight, WCF RIA Services and Your Business Objects

Introductory to Intermediate

Deborah Kurata

Wednesday, October 19

3:35pm – 4:50pm

Many of the Silverlight demos show how to use Entity Framework with WCF RIA Services. But what if you already have an extensive investment in your own business objects? This talk focuses on communication between your Silverlight application and your own existing business objects using WCF RIA Services.

You will learn:

- What WCF RIA Services can do for you when you are building a Silverlight application
- How to communicate between your Silverlight client application and the server containing your business objects

TH2 Bringing the Silverlight PivotViewer to Your Applications

Tony Champion

Thursday, October 20

3:35pm - 4:50pm

The Silverlight team has made significant improvements to the latest version of the PivotViewer. With the addition of dynamic client-side XAML collections, the PivotViewer can provide a unique and powerful experience to your users. Explore the fundamentals of PivotViewer, how to create dynamic collections, and discover how to incorporate PivotViewer into your applications.

You will learn:

- An exploration of the Silverlight PivotViewer to include a tour of the control, defining the concept of collections, and describing how the user interacts with these collections
- Demonstration of how to create applications that contain the PivotViewer control, which will also include how to develop and use collections within the control
- Discuss and show examples of how to incorporate PivotViewer into applications, highlighting the unique experience that it can bring to your application

TH7 MVVM in Practice aka "Code Behind" – Free WPF *Intermediate to Advanced*

Tiberiu Covaci

Thursday, October 20

10:05am – 11:20am

One pattern that emerged with WPF is the Model-View-ViewModel . In

this session we will explore the MVVM pattern the MVVM Light toolkit and I will show you how you can write a WPF application 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
- MVVM Light

TH12 Radically Advanced Templates for WPF and Silverlight

Billy Hollis

Thursday, October 20

11:40am – 12:55pm

Data templates and controls templates allow user interfaces in XAML unlike anything available in most other technologies. However, most XAML applications look like colorized versions of older applications, with too many data grids and lists with no feedback. This session challenges you to do better. Both technical and design techniques are discussed for creation list interfaces that make the user more productive and effective. You'll first learn the basic technologies needed for templating, and then see how to use Expression Blend to create data and control templates that open up completely new ways to provide the user with information and feedback.

VISUAL STUDIO 2010 / .NET

Everything rests on .NET, and .NET 4 has exciting capabilities that apply to any type of .NET application. Of course your gateway to all .NET development is Visual Studio 2010, which enhances many existing Visual Studio features and adds others. Perhaps most exciting are the new features around debugging, architecture and application lifecycle management (ALM). We'll give you the information you need to understand and leverage the power of .NET 4 and Visual Studio 2010.

T5 Best Kept Secrets in Visual Studio 2010 and .Net 4 *Introductory/Intermediate*

Deborah Kurata

Tuesday, October 18

9:50am – 11:05am

This talk covers those really cool but lesser known features in Visual Studio 2010 and .NET 4.0 that can make you more productive every day.

For example, did you know that you can block edit code in Visual Studio? How about all of those new search features? Have you tried out the generate from usage feature? This talk covers these topics and much more.

You will learn:

- How to use Visual Studio more effectively.
- How to be more productive with your Visual Studio tools.
- You will be able to say "I didn't know you could do that!"

W5 Application Lifecycle Management and Visual Studio: What's Next *Introductory/Intermediate*

Brian Randell

Wednesday, October 19

9:50am – 11:05am

Visual Studio 2010 and Team Foundation Server 2010 delivered great tools and technologies to help you build better applications.

But what's next? Microsoft has slowly been revealing what's next and in this session, Brian will provide a show & tell of what you can expect in Microsoft's next big release.

You will learn:

- What is ALM
- Learn about key deliverables in Visual Studio 2010 ALM
- Learn what Microsoft has in store for the next release

W10 Visual Studio v.Next *Introductory/Intermediate*

Brian Randell

Wednesday, October 19

11:25am – 12:40pm

With Visual Studio 2010, Microsoft delivered great tools for building rich client and server applications. Whether it was for the web or a rich client application using the multiple cores, Visual Studio continued to be home base for developers who wanted to build the best solutions.

But what's next? Microsoft has slowly been revealing what's next and in this session, Brian will provide a show & tell of what you can expect in Microsoft's next big release for the Visual Studio for Professional developers.. What will you be able to build? Come to this session to find out what the tools look like and what you can expect in 2012 and beyond.

You will learn:

- About key deliverables in Visual Studio 2010
- What Microsoft has in store for the next release
- What technologies and trends will be important for developers in 2012 and beyond.

TH5 Design for Testability: Mocks, Stubs, Refactoring and UI's

Ben Day

Thursday, October 20

8:30am – 9:45am

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? In this session, Ben will start by clarifying the difference between unit and integration tests. 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:

- How to design and implement a testable application
- Design patterns that help with testability
- How to test a UI using stubs

TH10 Team Foundation Server 2010 Builds: Understand, Configure and Customize

Ben Day

Thursday, October 20

10:05am – 11:20am

The new Build system in TFS2010 could be the best new feature in the product. Actually, it's almost definitely the best new feature in the product. It's been completely re-written to use Windows Workflow and has done away with the old-style, clunky TFS2008 Team Build scripts. (Buh-bye, MSBuild.) It's better integrated with Source Control through the new Gated Checkin feature that requires a build to pass before code can be checked in. (Buh-bye, broken builds.) There's even integration with Lab Management. Let's just say that there have been a lot of changes. In this talk, Ben will start by giving you a tour of the new 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:

- The features of TFS 2010 builds and why to use them
- Customizing the default build scripts by re-arranging and addition additional out-of-the-box functionality
- Creating custom Windows Workflow activities

DEVELOPING SERVICES

The Internet is shifting from a provider of HTML content to a provider of data and behavior through services. The .NET platform provides support for REST, SOAP and OData through WCF (Windows Communication Foundation), Windows Server AppFabric, and other key technologies.

T3 AppFabric, Workflow and WCF - the Next-Generation Middleware *Introductory*

Ron Jacobs

Tuesday, October 18

9:50am – 11:05am

Imagine a future where you can write a composite (N-Tier) app and quickly deploy it to a server, public or private cloud.

Where the platform supports elastic scale, stateless and partitioned stateful services. In this session you will learn how you can take advantage of this powerful new platform.

You will learn:

- What AppFabric is and where it is going in the future
- How you can create services and workflows using this new platform
- How to publish, manage and monitor apps using AppFabric

T8 What's New in WCF4 *Advanced*

Ido Flatow

Tuesday, October 18

11:25am – 12:40pm

Windows Communication Foundation (WCF) is one of the leading technologies for building distributed applications. WCF 4 introduces many enhancements and new features such as simplified configuration, discovery, routing services, better integration with IIS, and improved support for building RESTful services. In this session we will examine these improvements of WCF 4 and how they affect the way we create and consume WCF services.

You will learn:

- New features of WCF 4 for developers
- New Discovery and Routing services in WCF 4
- How WCF 4 exposes RESTful services

T13 Creating Scalable State Full Services Using WCF and WF *Intermediate*

Marcel de Vries

Tuesday, October 18

2:30pm – 3:45pm

Most people know today that a stateless programming model is one that

scales the best. But how can you build services that act upon message exchange patterns without managing all the state yourself. How can you build a system that recovers from system reboots without even bothering about it? In this session I will show how you can build stateless WCF services that appear to be state full by leveraging Windows Workflow Foundation. We will use the concept of Workflow Services to implement a SOA based architecture that is resilient to system reboots while implementing state full message exchange patterns.

You will learn:

- Core concepts that provide scalability
- To leverage Windows Workflow foundation as an architectural building block
- To leverage Workflow Services
- To handle message correlation
- To implement long running work without blocking the call

T18 AppFabric Caching: How it Works and When You Should Use It

Intermediate to Advanced

Jon Flanders

Tuesday, October 18

4:30pm – 5:45pm

Caching is a key technology to improving application performance and scale by taking the load off your database and moving into distributed memory, frequently used data that is very close to the application components accessing it. This session focuses on AppFabric Caching technology from Microsoft and provides a technical view of how developers can take advantage of it. The AppFabric Cache has both a cloud service on Windows Azure AppFabric as well as an on-premise version that is part of Windows Server AppFabric - we examine the key differences between the two. Finally, the session covers the key scenarios that the Cache is being used in and the value gained.

CLOUD COMPUTING

Many people believe the future of application development is in the cloud. Cloud computing offers flexible scalability and may provide a less expensive way to host many applications. Microsoft has introduced Azure as its platform for cloud computing, and has many other technologies that also work well in a cloud computing environment. Even if you aren't ready for Azure today, you owe it to yourself to become familiar with cloud computing!

T4 If Not IaaS, When Should I use Windows Azure VM Role?

Eric D. Boyd

Tuesday, October 18

9:50am – 11:05am

The Windows Azure Platform is a great cloud platform for scalable, on-demand computing power. However, there are scenarios that are not supported by Azure's web and worker role abstractions. In this session, we will explore the traditional Azure web and worker compute roles and walkthrough the common challenges encountered using these. We will explore the architecture and internals of Windows Azure, and then explore the new VM Role and the scenarios that are enabled having access to OS. Finally, we will explore the tradeoffs to consider when using the Azure VM Role.

You will learn:

- Traditional challenges aided through cloud computing
- How to explain the value of cloud computing to the business
- How to identify great opportunities to leverage the value of cloud computing

T9 What Is Microsoft Marketplace DataMarket?

Michael Stiefel

Tuesday, October 18

11:25am – 12:40pm

Dallas is a data information service built on Microsoft Azure. Dallas accesses a variety of data from government, news, financial, traffic, and other sources. By providing a uniform method and format for retrieving and offering data, Microsoft has created a data marketplace.

Both large and small data providers can provide access to data to large and small development organizations in an environment where otherwise it would be highly unlikely or impossible for these groups to partner. Potentially this could lead to the democratization of data, where data can be combined with other data, in ways that could not be foreseen by the original providers. Since this data is available through a REST API, the applications that consume the data do not have to run on any particular platform.

You will learn:

- To use data provided by Microsoft Dallas in an application

“The wide array of topics and technologies covered gave me the flexibility to choose the topics I can learn & apply as soon as I get back to work.”

- To integrate Microsoft Dallas data into an Excel spreadsheet for data analysis
- To make data available to others in Microsoft Dallas

T14 Deciding Between Relational Databases and Tables in the Cloud

Michael Stiefel

Tuesday, October 18

2:30pm – 3:45pm

When you put data in a computing cloud, the requirements of consistency, availability and partitioning can conflict. This means when building highly available and scalable applications, you may have to give up classic ACID database transactions and relational database features such as foreign keys, joins, and stored procedures. How do you then handle data versioning, and latency? The Microsoft cloud platform gives you two data technologies: Tables and Blobs, and SQL Azure. When do you use one or the other? This talk will talk about how to architect, design, and implement data storage in this new world.

You will learn:

- An understanding of how to use the two different persistence mechanisms in Azure: SQL Azure and Azure tables.
- How to use Azure tables, and relational databases when appropriate. If architects and developers do not understand how to use the appropriate means for data storage, their applications will not perform appropriately and will be unusable.
- Know how and when to use transactions and how to partition data in cloud computing.

W4 Windows Azure Platform Overview

Intermediate

Vishwas Lele

Wednesday, October 19

9:50am – 11:05am

The Windows Azure platform provides a comprehensive set of services for building and running scalable applications targeted at the cloud. In this introductory session, we'll explore these new concepts and show the basics of how to get started today with the Windows Azure platform. During the course of the session, we will also see how web applications can use the scalable compute and storage services with Windows Azure, secure connectivity with Service Bus and Access Control Service, and a relational database with Microsoft SQL Azure.

W9 Building Windows Azure Applications

Introductory to Intermediate

Vishwas Lele

Wednesday, October 19

11:25am – 12:40pm

Cloud based computing offers serious financial savings for companies

who want a flexible approach to building applications. Microsoft Azure provides a very compelling platform for building cloud based services. Since Azure applications can be built with .NET, you can reuse your existing skills. Nonetheless, building a distributed cloud application is not the same as building a desktop app or even a conventional hosted application. Latency and bandwidth considerations alone change the way you structure data and pose design constraints on the relational database model. Asynchronous processing is often needed to build applications that are scalable. Since messages can be lost, or retransmitted by the sender, services have to handle redundant messaging. Data security in a public cloud is different from privately hosted applications. This session will introduce the basic tools of Azure and will illustrate the architectural and design tradeoffs that must be made with cloud applications.

W14 Building Compute-Intensive Apps in Windows Azure

Intermediate

Vishwas Lele

Wednesday, October 19

2:00pm – 3:15pm

Monte Carlo is a computation method that relies on repeated random sampling. It is essentially a non-recursive divide and conquer algorithm that can take advantage of the massive amount of parallelism, offered by the Windows Azure Platform. In this session, we will build a Monte Carlo Simulator from scratch. This will include the following functions: Submit - Ability to submit calculation jobs Monitor - Ability to monitor the progress of calculation jobs queued for execution. Analyze - Using a Silverlight based UI, visualize the results of the calculation stored in Azure Tables.

You will learn:

- Elasticity offered by Azure worker roles. Scalability offered by Azure Table. Guaranteed delivery offered by Azure Queues
- Silverlight based application for rich visualization of calculation results stored in Azure Tables
- MVC2 application hosted inside Azure Worker Role

W15 Bringing Your Data and Maps Together with Esri Cloud Services

Arthur J. Haddad

Wednesday, October 19

2:00pm - 3:15pm

You will learn:

- The session will demonstrate and show you how you can create a custom mapping application with your data with a Cloud services
- Add enhanced spatial capabilities to your application to solve common problems
- Easily share your work with others

W19 Building and Running the Windows Azure Developer Portal

Chris Mullins

Wednesday, October 19

3:35pm – 4:50pm

This session focuses on designing, building, and running an Enterprise class application on Windows Azure. The Windows Azure Portal will be used as the case study, highlighting:

1. What technologies were chosen, and why. (Silverlight, ASP.Net, WCF, RIA Services, MEF, Azure, Azure Storage, etc)
2. What our software lifecycle looks like and how it interacts with Azure
3. Different strategies that we experimented with
4. How we monitor and service the livesite

The focus of each of the above topics will be how Azure impacts the design and execution of an Enterprise app during each phase of the application life cycle.

You will learn:

- Overview of Windows Azure and the major benefits it brings.
- How a team can deliver an Internet Scale application using Azure.
- Azure is ready for prime-time, and applications built on Azure have many advantages over classic applications.

PROGRAMMING PRACTICES

While individual technologies are important, project success is as much about the intangibles as the technology. This track focuses on the things we all know we need to do for success. These include building and maintaining healthy teams; supporting those teams by leveraging methodologies such as SCRUM and Kanban; and tools such as Visual Studio testing and Team Foundation Server (TFS).

TH17 Using MEF to Develop Composable Applications *Advanced*

Ben Hoelting

Thursday, October 20

2:10pm – 3:25pm

There are multiple frameworks out there for building composable applications, such as Prism from the Patterns & Practices group at Microsoft. In addition there are tons of Content Management Systems (CMS) that allow you to easily compose/build web based applications. Most of these frameworks and CMS tools come with a hefty learning curve and rarely come with all the features you need forcing you to write custom code anyway. Sometimes it's easier to write a simple and extendable framework yourself. The Microsoft Extensibility Framework (MEF) is a tool that allows applications to load assemblies without recompilation. This session will go in depth on how to create a simple framework that

loads and composes functionality using MEF. Building a framework allows organizations to create applications quickly by reusing the core of that framework. Many organizations struggle with the open source vs. buy vs. build question. This session will provide some guidelines to help you make this decision.

You will learn:

- The ins and outs of Microsoft Extensibility Framework (MEF)
- The benefits of building your own composability framework
- Some guidelines to answer the open source vs. buy vs. build question

TH20 Static Analysis in .NET *Intermediate*

Jason Bock

Thursday, October 20

2:10pm – 3:25pm

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

TH22 Patterns for Parallel Programming *Intermediate to Advanced*

Tiberiu Covaci

Thursday, October 20

3:45pm – 5:00pm

We are witnessing right now a new paradigm shift in computer programming, the shift to parallel/many-core programming. In order to be able to deliver value to the business, we have to adopt new ways of programming. With .NET 4.0 Microsoft introduced new technologies, like TPL and PLINQ, that will help us transition to this new way of programming. In C# vNext we will have language support for asynchronous programming. This workshop will help you understand those new technologies.

You will learn:

- Threading
- TPL
- PLinq
- Async

TH25 Modern .NET Development Practices and Principles *Intermediate*

Jason Bock

Thursday, October 20

3:45pm – 5:00pm

Terms, acronyms, and phrases like “loose coupling”, “SOLID”, “unit testing” are becoming prevalent in developer’s jargon. No matter what kind of applications you write, these techniques are essential to writing maintainable, resilient pieces of code. However, it’s also quite common that many developers don’t know what these concepts are, yet want to learn about them with clear, concise language. If you’re a developer that wants to understand these ideas but haven’t had the time to focus on them, this presentation is for you. We’ll cover topics like dependency injection, mocking, and testing, just to name a few. At the end of this session, you’ll have a foundational understanding of these ideas that you can use right away in your current (and hopefully future!) projects.

You will learn:

- How to create effective coupling to dependencies
- Understand how to write and maintain unit tests
- See how mocking leads to clean unit tests

LIGHTSWITCH

Through the 1990’s Microsoft built its success by providing tools that enabled rapid software development. Redmond has renewed its focus on such tooling with the new Visual Studio LightSwitch product, which supports the rapid creation of n-tier Silverlight line of business applications.

TH15 Grasping the LightSwitch Paradigm (the Taming of the Tool) *Introductory to Intermediate*

Andrew Brust

Thursday, October 20

11:40am – 12:55pm

Visual Studio LightSwitch is Microsoft’s new toolkit for Line-of-Business (LOB) application development. It’s very powerful and it makes LOB app dev significantly easier.

To get all of LightSwitch’s power and efficiency, though, you have to think about your apps a little differently. If you impose your ideas from .NET, SharePoint, Access, or even classic VB, you might get a bit stuck. But if you work in harmony with LightSwitch’s fresh approach to data-centric apps, you’ll build them without breaking a sweat.

So in this session, we won’t just demo what LightSwitch can do. We’ll explore how to master LightSwitch’s concepts, and then gracefully build the apps you need.

You will learn:

- Learn LightSwitch’s principles of data, screens, security and how they flow together.
- Move beyond mechanical form construction, towards declarative UI design.
- Make LightSwitch’s approach to applications work smoothly and productively for you.

WEB / HTML 5

The Web is undergoing a transitional shift as more parts of HTML 5 emerge in various browsers. At the same time, Microsoft’s embrace of jQuery as a tool for enabling rich behaviors and interactivity in the browser impacts how every ASP.NET developer thinks about building web applications, whether with Web Forms or MVC. Microsoft continues innovating in the web development space with Web tools and technologies such as ASP.NET MVC 3, WebMatrix, and Razor.

T16 HTML5 and Internet Explorer 9: Developer Overview *Introductory to Intermediate*

Ben Hoelting

Tuesday, October 18

4:30pm – 5:45pm

Internet Explorer 9 has been released into the wild. IE9 supports the latest WC3 standards for HTML5. IE9 has many additional features that developers can take advantage of. This session will start by defining HTML5/IE9 and why it is a game changer in the web world. Next we will discuss what HTML5/IE9 brings to the developers toolbox and how it works with Visual Studio 2010 SP1. Finally, we will discuss the timeline for broad adoption of these technologies, what features you can take advantage of today and how you can prepare for the future.

You will learn:

- The power of IE9 and HTML5
- IE9/HTML5 developer features and why they are important
- How Visual Studio 2010 SP1 can build HTML5 enabled websites
- What IE9/HTML5 features are ready today and what the future may bring

W1 HTML5 and Your Web Sites

Robert Boedigheimer

Wednesday, October 19

9:50am – 11:05am

HTML 5 is still a work in progress, but there are parts that are already implemented in browsers. There are many new elements

that will provide much more semantic value for pages than the typical div tag. Learn strategies for introducing these elements on current web sites, and how older browsers will react.

W6 Styling Web Pages with CSS 3

Robert Boedigheimer

Wednesday, October 19 11:25am – 12:40pm

CSS 3 has been broken into “modules” so changes can be made more quickly. Discover what new techniques will be available (opacity, rounded corners, columns, box shadows, etc), and how some of them are possible today using jQuery and other methods.

W11 The Best of jQuery

Robert Boedigheimer

Wednesday, October 19 2:00pm – 3:15pm

Have you been using jQuery for a while and want to learn more? Go beyond the basics and learn how major web sites are using it to their advantage. See how Microsoft has contributed to jQuery via official plug-ins like Templates to simplify client side data binding. Review many popular plug-ins and techniques that greatly simplify development of your site while making it more interactive.

W16 ASP.NET MVC Razor and jQuery – the New Face of ASP.NET

Intermediate to Advanced

Ido Flatow

Wednesday, October 19 3:35pm – 4:50pm

Since .NET 4 came out, we’ve seen many new technologies - new versions for ASP.NET MVC, improved jQuery plug-ins, and the new Razor view engine. In this session we’ll learn how to incorporate all these technologies to build the new generation of ASP.NET web applications.

You will learn:

- Understand the architecture of ASP.NET MVC
- Learn about the Razor view engine for ASP.NET MVC
- Learn how to use jQuery in your ASP.NET MVC applications

TH1 Creating a Data Driven Web Site Using WebMatrix and ASP.NET Razor

Introductory

Rachel Appel

Thursday, October 20 8:30am – 9:45am

The Razor syntax is a new feature of both ASP.NET Web Pages and ASP.NET MVC. In this session you will learn how to use Microsoft’s new tool for web development, WebMatrix for building ASP.NET Web Pages with the Razor syntax. Also during this presentation, you’ll discover how easily you can create fully-featured, database-driven web sites in little time using the built-in WebMatrix templates and tools and SQL CE 4.0.

TH6 How Orchard CMW Works

Introductory

Rachel Appel

Thursday, October 20 10:05am – 11:20am

In this presentation, Rachel will begin with an overall introduction to the Orchard Open Source project on CodePlex, then move on to how the system works by discussing features such as Settings, Modules, Widgets, the Core and others. During the presentation you’ll dive deeper into the architecture and mechanics of Orchard as well and finish by deploying the final product.

TH11 Busy Developer’s Guide to (ECMA/Java) Script

Introductory to Intermediate

Ted Neward

Thursday, October 20 11:40am – 12:55pm

ECMAScript, better known by its original name, Javascript, remains one of the most popular--and misunderstood--programming languages in use today. While most developers see Javascript as a crippled form of its namesake (Java), it turns out that ECMAScript represents a powerful dynamically-typed language, easily equal to the other popular dynamic languages of the day (Python or Ruby). In this presentation, we’ll take a fresh look at the ECMAScript language, examine its basic structure and syntax, and look at how it manages objects internally. Then, with the basics out of the way, we’ll start to examine the more interesting parts of the language, and wrap up with some discussion of how ECMAScript can be integrated into more than just a web browser to provide extension capabilities.

You will learn:

- The power of the ECMAScript language
- How to use ECMAScript outside of a browser
- A deeper understanding of how libraries like jQuery, dojo, or Prototype work internally

TH16 Getting Started with ASP.NET MVC *Intermediate*

Philip Japikse

Thursday, October 20

2:10pm – 3:25pm

There's a lot of talk about ASP.NET MVC. What does it mean for you, the ASP.NET WebForms developer? Do you have to relearn the entire web development stack? Will it even run on IIS? I will show you, the ASP.NET WebForms developer, what you need to know to start using ASP.NET MVC, as well as make an informed decision between ASP.NET MVC and ASP.NET WebForms for your next project.

You will learn:

- The differences between ASP.NET MVC and ASP.NET WebForms
- How to create MVC applications
- The differences between the WebFormsViewEngine and Razor

TH21 Test Driving ASP.NET MVC *Intermediate to Advanced*

Philip Japikse

Thursday, October 20

3:45pm – 5:00pm

There are many benefits to the ASP.NET MVC framework, and one of the biggest is the testability. You will learn to test your routes, controllers, and models BDD style with MSpec and MbUnit, and use the free WebAii framework to certify the user interface.

You will learn:

- How to write testable ASP.NET MVC applications
- How to test ASP.NET applications, including routing, controllers, and models
- How to test the User Interface (all using free/open source tools)



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WoVS is being developed by Clarius Consulting which specializes in developing Visual Studio extensions since 2004. www.wovs.com

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