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Visual Studio Developer Conference

DEVELOP NEXT GENERATION APPLICATIONS



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for the Launch of
Visual Studio .NET**

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- C# and Visual C++ .NET
- ASP.NET
- Visual Basic .NET

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As a Gold Passport holder you'll have no boundaries at VSLive! Move freely between all three conferences, pre- and post-event workshops and the bonus day dedicated to putting Visual Studio .NET to work. Enjoy special premiums, discounts and VIP treatment. **The Gold Passport saves you over \$1,840!**

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FREE VSLive!
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Dear IT Professional,



You're invited to a special celebration when the most anticipated development tool launch takes place at VSLive! San Francisco. Visual Studio .NET promises to change development more dramatically than any tool since VB or C++. You can be part of the excitement by joining us during the official launch of Visual Studio .NET.

You'll hear Bill Gates, Microsoft Founder and Chief Software Architect and Anders Hejlsberg, Microsoft distinguished engineer and Chief Architect of C#, lead a team from Microsoft in unveiling Visual Studio .NET. You'll see what's new, and get a peek at the future. Plus, everyone is invited to a gala celebration at Sony Metreon entertainment center.

Fun, community and new technologies are important components of every VSLive! But the meat is learning how to get the most out of these tools. We continue building on close to a decade of tradition of delivering the best technical sessions for professional developers. You can choose from breakout sessions on topics such as data access, building XML Web services, and SQL Server optimization. New this year are two in-depth days of Black Belt C# for the seasoned developer, and two days of Enterprise Software covering tools and techniques for large-scale distributed applications.

An event of this importance comes once a decade. Don't miss this one. I look forward to seeing you in San Francisco!

Jim Fawcette,
Founder of FTP, Inc.

FTP FAWCETTE
TECHNICAL
PUBLICATIONS

P.S. For your best value, sign up for the Gold Passport that gets you in to every workshop, session and event by the Early Bird deadline of January 9th. Go to www.vslive.com/sf or call 800-848-5523 today.

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Register by January 9th **Save \$200**

Visual Studio .NET LAUNCH

Join Bill Gates and the Visual Studio .NET Development Team

Come witness the launch of Visual Studio .NET at VSLive! San Francisco.

- Learn how to build the next generation of XML Web services, Windows and Web solutions
- Find out exactly what's new in Visual Studio .NET, and what's around the corner
- Follow up with a full day of ground-breaking news and information-packed sessions from the Visual Studio .NET Development Team!
- Celebrate into the night with an outrageous party at Sony Metreon... just steps from the launch!



Microsoft **VSLive!**
Visual Studio Developer Conference

Visual Studio .NET is set to ship; time to have some fun! Celebrate from sunrise to sundown—and beyond—at VSLive! San Francisco, and join us at Microsoft's Visual Studio .NET Launch Party at Metreon. With an abundant amount of festive music and challenging games, cocktails and San Francisco's finest hors d'oeuvres, the Visual Studio .NET Launch Party is sure to be an adventure you don't want to miss!

THE CONFERENCE AT A GLANCE

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Get a FREE DAY on Visual Studio .NET!

Join us for an exclusive keynote by Bill Gates and Anders Hejlsberg! When you register for VBITS, VCDC, SQL2TheMax, or the complete VS Live! Gold Passport, you'll receive a full bonus day dedicated to Visual Studio .NET. Hear straight talk from the Visual Studio .NET Development Team and get never before disclosed information from respected industry leaders on the .NET Framework and architecture, Visual Basic .NET advancements, data access with ADO .NET, Web services and ASP.NET, C#, XML, and SOAP.

FEBRUARY 13, 2002

8 AM	Visual Studio .NET Launch	
	<i>Join Bill Gates in a celebration of the availability of Visual Studio .NET</i>	
12 NOON	Lunch and Grand Opening of Exhibit Hall	
2 PM	Putting .NET to Work: Architecture and Best Practices Rockford Lhotka, Magenit Technologies	
3:10 PM	.NET and Data: What You Need to Know Bill Vaughn, BetaV Corporation	
4:20 PM	Web Services Applications Yasser Shohoud, Deep Training	
	VISUAL BASIC .NET	C#
5:30 PM	Visual Basic .NET at Your Fingertips Dan Appleman, Desaware	Intro to C# Brent Rector, Wise Owl Consulting
6:30 PM	Exhibition Open	
8 PM	Party at Metreon!	



THE NEXT GENERATION DEVELOPER TOOL



Visual Studio .NET Launch

8 a.m. - 12 noon

Visual Studio .NET is the next generation of the world's most popular developer tool. And now the best part... it's shipping! Join Bill Gates and Anders Hejlsberg in a celebration of the availability of Visual Studio .NET. You'll see how it can be used to build the next generation of XML Web services and Windows and Web solutions, learn what's new in the .NET world and get a peek at what's coming. And you'll have some fun.



Bill Gates,
Chairman and Chief
Software Architect,
Microsoft



Anders Hejlsberg,
Distinguished Engineer,
Developer Division,
Microsoft



Putting .NET to Work: Architecture and Best Practices

Rockford Lhotka, Magenic Technologies

2 p.m.

Get ready for an exciting tour of the large and powerful .NET Framework. We'll discuss when to use Web Forms vs. Windows Forms, when to use Web services vs. Remoting, and how to minimize deployment costs while maximizing scalability to achieve high levels of code reuse. We'll focus specifically on practical issues related to architecting, designing and building applications with the .NET Framework.



.NET and Data: What You Need to Know

Bill Vaughn, BetaV Corporation

3:10 p.m.

Come and find out how .NET can help a COM-based ADO developer. We'll discuss the new ADO .NET Managed Providers included in the System.Data namespace provided with .NET—and one that's not. We'll show you how ADO .NET helps create procedures to fetch and modify your data—with or without parameters. We'll demonstrate the construction of hierarchical result sets and how ADO .NET makes it easy to populate, navigate and update these data structures. We'll also discuss how Visual Studio can enable development of .NET applications—both Windows Forms-based and Web-based. If you are a developer working with COM-based ADO and want an in-depth look at ADO .NET—how it's different, how it's the same and how to get the best performance from it—then this talk is for you.



Web Services Applications

Yasser Shohoud, Deep Training

4:20 p.m.

We'll go beyond the hype surrounding Web services and show you how to leverage them with practical applications. Assuming you already know the basics of Web services, we'll start by examining types of applications that could benefit from using Web services. We'll then examine an example application of each type including application integration, business-to-business integration, and content delivery. We'll spend a greater part of the hour examining working code to understand the techniques and challenges of applying Web services.



Visual Basic .NET at Your Fingertips

Dan Appleman, Desaware

5:30 p.m.

Visual Basic .NET and C# (and most .NET languages) are virtual equals—to learn to program in one is to learn to program in all. But Visual Basic .NET differs from the other languages in two important areas: its ability to migrate VB 6 code using the migration wizard, and its tight integration with the Microsoft VisualBasic namespace and traditional Basic keywords. Together we'll explore porting issues and answer your questions about the migration wizard and the code it produces. We'll discuss whether you should use the traditional VB keywords or .NET object methods; the traditional VB error handling or the new exception syntax; and decide what, if anything, needs to be done about Option Strict.

Intro to C#

Brent Rector, Wise Owl Consulting

5:30 p.m.

To introduce you to C#, we'll first concentrate on the differences between the different programming languages and demonstrate the new .NET features. For example, interface inheritance in the .NET world means something quite different than it does in COM. Memory and other resource management operate quite differently here than in C/C++ . The .NET runtime treats types that represent values quite differently than types that represent classes. We'll dive into all these issues and others to get you up to speed in C# as quickly as possible.

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Conference Schedule

FEBRUARY 11-12, 2002

FIVE Pre-Conference Workshops

Add-on to your VBITS registration for the low daily rate of \$325. See page 20 for details.

FEBRUARY 13, 2002

BONUS Visual Studio .NET Day!

FREE with your VBITS registration. See page 4 for details.

FEBRUARY 14, 2002

8 AM	KEYNOTE: Build Production Apps with Visual Basic .NET Now Microsoft		
9:15 AM	Exclusive Keynote by Intel Corporation		
	MIGRATION	ASP.NET	DATA ACCESS
10:30 AM	Upgrade Your VB 6 Apps to Visual Basic .NET Microsoft	Make the Jump from ASP to ASP.NET Jay Schmelzer, Clarity Consulting	From ADO to ADO .NET: Migration Made Easy Bill Vaughn, BetaV Corporation
11:45 AM	Free Threading in Visual Basic .NET Microsoft	Build Custom Server Controls with ASP.NET Avonelle Lovhaug, SRM, Inc.	ADO .NET and Exception Handling Bill Vaughn, BetaV Corporation
12:45 PM	Special Lunchtime Presentation: Real-World Migration to Visual Basic .NET Kieth Pleas, Deep Training		
	MIGRATION	ASP.NET	DATA ACCESS
1:45 PM	From COM to the Common Language Runtime: Making the Migration Brian Randell, MCW Technologies, LLC	ASP.NET and Mobile Computing Andrew Brust, Progressive Systems Consulting, Inc.	Serialize Your Data in Visual Basic .NET Doug Turnure, Aggelos, Inc.
3 PM	RAD Server Applications in Visual Basic .NET Microsoft	Tracing and Debugging in ASP.NET Dave Bost, Solution Partners, Inc.	ADO .NET and XML Yasser Shohoud, Deep Training
4:15 PM	Your Top Ten Gotchas for Visual Basic .NET Todd Kimble, Clarity Consulting	Reuse in ASP.NET via Compositional and Custom Server Controls G. Andrew Duthie, Graymad Enterprises	Data in a Dog Collar Kathleen Dollard, Independent Consultant
5:30 PM	Exception Handling in Visual Basic .NET Ken Getz, MCW Technologies, LLC	ASP.NET Security Techniques Avonelle Lovhaug, SRM, Inc.	Implement a Web-Based Reporting System with XSLT Yasser Shohoud, Deep Training
6:30 PM	Exhibition Evening Reception		
8 PM	.NET Madness Jeff Hadfield, Group Publisher, <i>Visual Studio Magazine</i>		

Bonus Track

See page 19
for a detailed description

ENTERPRISE DEV

Get a Grip on the Big Projects
Dave Kapelansky, Compuware

Modeling for .NET Applications
Jan Popkin, Popkin

Lunch

ENTERPRISE DEV

Develop Fast, Reliable Microsoft .NET Code
Ken Vodicka, Rational Software

Business Intelligence
Dan Ortolani, IBI

Reporting in .NET
Donald MacCormick, Crystal Decisions

SQL Development Process Improvement
Neil Davidson, Red Gate

FEBRUARY 15, 2002

9 AM	KEYNOTE: The Truth about Visual Studio .NET Scott Stanfield, CEO, Vertigo Software, Inc.		
	OOP	WEB SERVICES	XML
10:15 AM	OOP in .NET Deborah Kurata, InStep Technologies	Microsoft Web Services for Developers and Music Lovers John Alexander, G.A. Sullivan	XML in Distributed Visual Basic Apps Peter Vogel, PH&V Information Services
11:15 AM	Lunch		
	VISUAL BASIC .NET	WEB SERVICES	XML
12:15 PM	Leverage the .NET Framework Using Visual Basic .NET Keith Pleas, Deep Training	HailStorm Unleashed Jon Rauschenberger, Clarity Consulting	SOAP and .NET Michael Amundsen, Independent Consultant
1:30 PM	Understanding Delegates and Events in Visual Basic .NET Doug Turnure, Aggelos, Inc.	Web Services Security Jay Schmelzer, Clarity Consulting	Build a Database Web App Paul Sheriff, PDSA, Inc.
2:45 PM	Implement Rich IE Apps with Visual Basic .NET Rockford Lhotka, Magenics Technologies	DISCO & UDDI Aaron Skonnard, Skonnard Consulting	Scalable Server-Side XML Processing Jon Rauschenberger, Clarity Consulting
	.NET LANGUAGE	BLACK BELT	WINDOWS
4 PM	Debugging .NET John Robbins, Wintellect	.NET Remoting Dan Appleman, Desaware	New Paths to Security for Windows and Passport Michael Amundsen, Independent Consultant
5:15 PM	.NET Profiling John Robbins, Wintellect	What Happened to Class Terminate? Francesco Balena, Wintellect	Make Win32 Calls from .NET Dan Appleman, Desaware

ENTERPRISE DEV

Change Management Strategies
Andrew Weiss, Merant

Lunch

ENTERPRISE DEV

Load Testing
Mark Tomlinson, Mercury Interactive

Integrate Multi-Language Apps Using .NET's CLR
Don Wagner, AppsChannel

Optimize Your Database Connectivity with .NET
John Goodson, DataDirect

ENTERPRISE DEV

Create Cross-Platform Solutions with Visual Studio .NET
Ron Johnson, Mainsoft Corporation

Mainframe Integration
Jake Freivald, iWay

FEBRUARY 16, 2002

FIVE Post-Conference Workshops

Add-on to your VBITS registration for the low daily rate of \$325. See page 20 for details.

The Best of Tomorrow and Today



As a professional developer, you're faced with a thorny challenge: how do you deliver solutions based on today's technology with an eye to tomorrow's tools?

VBITS—and VSLive!—can show you how. With the solid performance and proven power of the Visual Basic 6/Win32 platform, you know you can deliver fast, multi-tier applications. But Visual Studio .NET and Visual Basic .NET promise new performance gains and a flock of new features.

VBITS San Francisco 2002—besides hosting the official launch of Visual Studio .NET—delivers scores of technical sessions showing you how to put these new tools to work. You'll hear from experts, learn from your peers and see the latest and greatest products to make your job easier. See you in San Francisco!

Sincerely,

Jeff Hadfield
Group Publisher, *Visual Studio Magazine*



KEYNOTE

Build Production Apps with Visual Basic .NET Now

Microsoft

Thursday, February 14, 8 a.m.

Visual Basic .NET contains fundamental language enhancements that maintain VB's productivity while extending its power and flexibility. The VB development team will guide you through these new enhancements, showing how you can increase your VB productivity while harnessing the power of C++.



From ADO to ADO .NET: Migration Made Easy

Bill Vaughn, BetaV Corporation

Thursday, February 14, 10:30 a.m.

DATA ACCESS

Learn before you do. This walk through of a typical conversion process, showing what ADO code can port, what needs rewriting, and what needs to go, will arm you with the techniques that can enable the smoothest possible transition. We'll discuss what current VB 6 coding practices are easiest to convert without hurting your current app's performance and address both the benefits and potential gotchas of the ADO .NET paradigm and .NET data access technology.

Upgrade Your VB 6 Apps to Visual Basic .NET

Microsoft

Thursday, February 14, 10:30 a.m.

MIGRATION

Before you start porting your VB 6 apps to Visual Basic .NET, let us give you architectural recommendations and best practices for doing so. This is your hour to learn the ins and outs of the new Visual Basic .NET Upgrade Tool, a utility that automatically updates VB 6 projects for syntax changes and converts VB 6 forms to Windows Forms. Porting your code will be no sweat. We'll show you how.

Free Threading in Visual Basic .NET

Microsoft

Thursday, February 14, 11:45 a.m.

MIGRATION

Among one of the best features of Visual Basic .NET is Free Threading. We'll show you how you can use threading and Windows Forms to handle call methods. You learn how to thread marshal calls to control and use a Windows Forms timer to check status.



Make the Jump from ASP to ASP.NET

Jay Schmelzer, Clarity Consulting

Thursday, February 14, 10:30 a.m.

ASP.NET

The Visual Studio .NET Beta Web site was originally developed using VS 6, following a Windows DNA design pattern. Join us for an examination of three real-world upgrade scenarios implemented while moving the site to Visual Studio .NET and the .NET Framework. We'll review the successful techniques we used to minimize impact on the existing production component, while still taking advantage of new .NET-era features.

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**Build Custom Server Controls with ASP.NET**

Avonelle Lovhau, SRM, Inc.

Thursday, February 14, 11:45 a.m.

ASP.NET

ASP.NET's new server controls simplify building sophisticated browser-based apps. We'll examine how to build your own ASP.NET custom server controls, discussing the approaches required for building composite and non-composite server controls. We'll look at handling events within custom server controls, as well as raising events to the calling page. Finally, we'll incorporate data binding into our custom server control.

**ADO .NET and Exception Handling**

Bill Vaughn, BetaV Corporation

Thursday, February 14, 11:45 a.m.

DATA ACCESS

Few existing ADO objects, properties, or methods are exposed in ADO .NET, and you must re-tool existing COM-based ADO code to accommodate the new .NET language constraints. Get ready to get your hands dirty creating bread-and-butter ADO .NET code. Even better, you'll get a comprehensive tour through creating new (to VB) "Try Catch" exception handlers. This session is guaranteed to trim hours from your first ADO .NET project.

**Special Lunchtime Presentation: Real-World Migration to Visual Basic .NET**

Keith Pleas, Deep Training

Thursday, February 14, 12:45 p.m.

Come hear the real-world details of moving your various VB 6 apps and components into the .NET Framework by a fellow developer who's been working closely with the product for more than 2 years. You won't want to miss these tales from the trenches, including how to migrate from ADO to ADO .NET and from VB 6 "Ruby" forms to Windows Forms; dealing with orphaned project types; DLL calls to Framework objects; and Interop with classic COM where necessary.

**From COM to the Common Language Runtime: Making the Migration**

Brian Randell, MCW Technologies, LLC

Thursday, February 14, 1:45 p.m.

MIGRATION

For VB developers, productivity has come through writing client/server COM components. Using services such as MTS and COM+ has made for better, more robust systems. And the new Common Language Runtime (CLR) promises to make this even better—or does it? We will show you how to make migration from COM programming simple, using the CLR's GUID-less model.

**ASP.NET and Mobile Computing**

Andrew Brust, Progressive Systems Consulting, Inc.

Thursday, February 14, 1:45 p.m.

ASP.NET

Want to extend your Web applications' reach to mobile phone and PDA users? The .NET Mobile Internet Toolkit lets ASP.NET developers do this in Visual Studio .NET, using a singular code base and familiar ASP.NET tags. We'll also look at the WML (wireless markup language) and HTML generated by the Toolkit to understand the transformations going on behind the scenes.

Serialize Your Data in Visual Basic .NET

Doug Turnure, Aggelos, Inc.

Thursday, February 14, 1:45 p.m.

DATA ACCESS

The CLR library gives VB developers a new paradigm for moving data between files, memory, and serial ports. The Core Library uses a stream abstraction to decouple data requests from the destination. We'll acquaint you with serialization in the CLR, and illustrate examples of how to move data to and from files and memory, using both Binary and SOAP formatters.

RAD Server Apps in Visual Basic .NET

Microsoft

Thursday, February 14, 3 p.m.

MIGRATION

With RAD distribution of .NET applications, you'll have no more of "DLL Hell." Enabled by .NET, and without needing to restart IIS, you'll be able to enjoy hassle free development with Visual Basic .NET. Come, let us show you how.

**Tracing and Debugging ASP.NET**

Dave Bost, Solution Partners, Inc.

Thursday, February 14, 3 p.m.

ASP.NET

You won't want to miss this guided tour of the new tracing facilities in ASP.NET. We will show you how to track the execution path of an ASP.NET application and interpret the results. We'll highlight the usage of Page-level tracing and Application-level tracing and interpreting the output of the tracing logs. Finally, we'll tie it all together with a demonstration of the debugging tool included in the .NET Framework SDK.

**ADO .NET and XML**

Yasser Shohoud, Deep Training

Thursday, February 14, 3 p.m.

DATA ACCESS

ADO 2.1 introduced XML as a record set persistence format. Then ADO 2.5 let you persist hierarchical record sets in XML. Now ADO .NET actually uses XML as the native format for representing multi-table Datasets. We'll examine how ADO .NET objects map to various elements in the Dataset's XML schema and how to use XML from any platform to create, read, and modify ADO .NET Datasets.



Your Top Ten Gotchas for Visual Basic .NET

Todd Kimble, Clarity Consulting

Thursday, February 14, 4:15 p.m.

MIGRATION

Visual Basic .NET is the biggest upgrade since VB 4 was introduced—maybe the biggest ever. With it, developers have a new tool that makes it easier than ever to build great applications. But not everything in Visual Basic .NET is simple to use. Come join us for a thorough examination of the ten most common stumbling blocks developers encounter when moving to Visual Basic .NET, and make your migration easy.



Reuse in ASP.NET via Compositional and Custom Server Controls

G. Andrew Duthie, Graymad Enterprises

Thursday, February 14, 4:15 p.m.

ASP.NET

Want to reuse your code in .NET apps? Start with the ASP.NET Server Control model and Visual Basic .NET's full support for inheritance. These help you reuse not only your own code, but also existing ASP.NET Server Control code. Learn the intimate details of how to take advantage of both Compositional Server Controls and Custom Server controls—plus, you'll get a thorough illustration of how to use attributes with the .NET Framework.



Data in a Dog Collar

Kathleen Dollard, Independent Consultant

Thursday, February 14, 4:15 p.m.

DATA ACCESS

Another version of Visual Basic and another incarnation of Data Binding! Are we there yet? Learn the ins and outs and ups and downs of the new data binding model and find out how to leash up at least some of your data so you can get on with more interesting parts of your application. Here's your chance to learn once and for all how to do Data Binding the right way!



Exception Handling in Visual Basic .NET

Ken Getz, MCW Technologies, LLC

Thursday, February 14, 5:30 p.m.

MIGRATION

Goto is gone! Now VB developers can handle errors in a safe, sane way, using Visual Basic .NET's structured exception handling. We will introduce Try, Catch, Fail, and all the other keywords and concepts involved in effective, modern error handling. In addition, we'll tackle the new debugging features, including .NET Framework classes that allow you to redirect debugging output.



ASP.NET Security Techniques

Avonelle Lovhaug, SRM, Inc.

Thursday, February 14, 5:30 p.m.

ASP.NET

All of us have struggled with authentication and authorization issues using previous versions of ASP. With ASP.NET, new techniques are available to developers trying to build secure applications. Together we'll review several of these techniques in detail, ranging from the simplistic (for the quick and dirty application you may need to provide in a few hours), to the sophisticated.

KEYNOTE



The Truth about Visual Studio .NET

Scott Stanfield, CEO, Vertigo Software, Inc.

Friday, February 15, 9 a.m.

Can you handle the truth? We dared the creators of IBuySpy.com to tell us the truth about Visual Studio .NET. Microsoft challenged Vertigo to build the first ASP.NET/C#/Visual Basic .NET Web application to demonstrate the power and productivity of .NET. We'll dive right in and explore the rough edges and share our tips and tricks to get the most out of .NET.



Implement a Web-Based Reporting System with XSLT

Yasser Shohoud, Deep Training

Thursday, February 14, 5:30 p.m.

DATA ACCESS

Reporting is an important piece of any Web application, yet most of us dread dealing with it. We'll show you how to implement an innovative reporting system using XML and XSLT. Get ready to discuss the options for retrieving relational data as XML, formatting the data using XSLT and letting users choose report columns, sort order and other options.



OOP in .NET

Deborah Kurata, InStep Technologies

Friday, February 15, 10:15 a.m.

OOP

OOP in .NET means more than a new syntax. With Visual Basic .NET, VB becomes a true object-oriented language. We'll present the key new object-oriented concepts, including parameterized constructors, function overloading, static class data, and inheritance-based polymorphism. Learn how to take advantage of these techniques so you can leverage the benefits of true OOP in your apps.



Microsoft Web Services for Developers and Music Lovers

John Alexander, G.A. Sullivan

Friday, February 15, 10:15 a.m.

WEB SERVICES

Join us for a practical review of building Web services using an actual multi-tier online ticket sales application. See how to use the .NET Framework and ASP.NET to publish and consume SOAP-based Web services. Learn how Web services impact site design and provide application building blocks. Get a good look at how this site offers Web services that related vendors can use independently.

Save \$200

Register by January 9th



XML in Distributed Visual Basic Apps

Peter Vogel, PH&V Information Services

Friday, February 15, 10:15 a.m.

XML

XML is the essential tool for building distributed applications. Learn how to use XML in client-server and Web-based apps to pass data between components, maintain state in Web apps, and move data across the Internet. You can exploit these solutions in both VB 6 and Visual Basic .NET. You'll walk away knowing how to use XML in the line of business applications you're building right now.



Leverage the .NET Framework Using Visual Basic .NET

Keith Pleas, Deep Training

Friday, February 15, 12:15 p.m.

VISUAL BASIC .NET

Learn how to leverage the .NET Framework to build robust applications that couldn't be written in VB 6 alone. We'll start with an overview of the .NET Framework, then take a closer look at some of the powerful things you can do with it such as multi-threading, Windows services, diagnostics (performance counters and event logs), inheritance, delegates, attributes, and structured exception handling. We'll discuss how you can utilize each of these framework features while demonstrating code. You'll walk away with a clear understanding of the capabilities of the .NET Framework and how to exploit its features using Visual Basic .NET.



HailStorm Unleashed

Jon Rauschenberger, Clarity Consulting

Friday, February 15, 12:15 p.m.

WEB SERVICES

Hailstorm is a new initiative for providing many Web services to developers. These services let you build apps with a rich user experience on a variety of platforms/devices. Don't miss our detailed discussion of the initial set of Hailstorm services and how to integrate them in your applications. And we'll wrap it up with a detailed review of relevant privacy and data ownership issues.



SOAP and .NET

Michael Amundsen, Independent consultant

Friday, February 15, 12:15 p.m.

XML

Get ready to SOAP up .NET and delve into SOAP's underlying principles. The .NET Framework (among others) incorporates SOAP as a standard for implementing distributed objects via HTTP. You'll learn how the .NET Framework uses SOAP to enable Web services reaching across platforms and languages. You'll also see working examples of SOAP-enabled objects written with Visual Basic .NET and C#.

Understanding Delegates and Events in Visual Basic .NET

Doug Turnure, Aggelos, Inc.

Friday, February 15, 1:30 p.m.

VISUAL BASIC .NET

VB developers have been using events and callbacks for some time. COM+ introduced the loosely coupled event (LCE) as well. .NET builds on both of these concepts, but with a completely new set of plumbing. Delegates and multicast delegates offer a new solution for dynamic invocation and asynchronous callbacks. You will learn the new way to call functions by address, and see how it maps into the Visual Basic .NET event model.



Web Services Security

Jay Schmelzer, Clarity Consulting

Friday, February 15, 1:30 p.m.

WEB SERVICES

Get beyond the superficial descriptions of Web services. We'll use practical examples drawn from production code to show you techniques to address common issues when building real world Web services. We will specifically look at techniques for handling authentication, authorization and transactions.



Building a Database Web App

Paul Sheriff, PDSA, Inc.

Friday, February 15, 1:30 p.m.

XML

The new WebForms DataGrid control lets you develop database apps in a fraction of the time you'd need with ASP. Take a tour through building a complete add/edit/delete form step by step, showing the most efficient methods of using this DataGrid control and ADO .NET. You'll also experience a demonstration how to use the formatting features to create great-looking HTML tables.



Implement Rich IE Apps with Visual Basic .NET

Rockford Lhotka, Magenic Technologies

Friday, February 15, 2:45 p.m.

VISUAL BASIC .NET

Browser-based applications provide powerful deployment capabilities when compared to traditional intelligent clients. Often however, users want more functionality on the client than can easily be provided via DHTML. We'll discover how we can leverage Visual Basic .NET to build auto-deployed .NET components that run in the browser—giving us the best of both worlds.



DISCO & UDDI

Aaron Skonnard, Skonnard Consulting

Friday, February 15, 2:45 p.m.

WEB SERVICES

Since Web services are based on open industry standards, the process for describing, publishing, and discovering Web services should be based on the same principles. DISCO is a Microsoft-specific discovery protocol while UDDI is emerging as an industry standard. Join us for an introduction and comparison of both technologies and get ready to discuss the future of each.



Scalable Server-Side XML Processing

Jon Rauschenberger, Clarity Consulting

Friday, February 15, 2:45 p.m.

XML

How do you integrate XML into your applications? Parsing XML on a server supporting multiple users can quickly become a problem. Together, we'll examine your options for processing XML on a server with an eye to both scalability and performance. We'll also review DOM versus SAX parsers and much, much, more.



Debugging .NET

John Robbins, Wintellect

Friday, February 15, 4 p.m.

.NET LANGUAGE

With .NET's advent the rules for debugging have completely changed. We'll help you get up to speed on the core concepts you need to understand in order to debug effectively with .NET, taking you through the transitioning to .NET debugging and taking advantage of the new debuggers and debugging techniques such as the new diagnostic code.



.NET Remoting

Dan Appleman, Desaware

Friday, February 15, 4 p.m.

BLACK BELT

Visual Studio makes it easy to create and use Web services, but there is a lot more to .NET remoting than Web services. Together we'll take look under the hood at how remoting works in .NET, how it is completely different from DCOM, and how you can use it to customize your distributed solutions.



New Paths to Security for Windows and Passport

Michael Amundsen, Independent Consultant

Friday, February 15, 4 p.m.

WINDOWS

Learn the basics of the .NET security model and how you can use it to create and support secure Web applications on the .NET platform. You'll discover how to define security schemes that use forms-based authorization; how to use Windows security for your Web applications; and how to incorporate Microsoft Passport as the authentication service for your sites.



.NET Profiling

John Robbins, Wintellect

Friday, February 15, 5:15 p.m.

.NET LANGUAGE

Unlike other environments, .NET offers native support for profiling tools. The Profiling APIs let you write sophisticated analysis tools you never thought possible in the past. Together we'll look at these APIs and show you how to use them in real world scenarios. With .NET, you now have better support for writing great code and tools than ever before.



What Happened to Class_Terminate?

Francesco Balena, Wintellect

Friday, February 15, 5:15 p.m.

BLACK BELT

Deterministic object destruction has gone—enter .NET garbage collection and its non-deterministic finalization issues. But even though .NET garbage collection will be there, silently working for you, you still should have a firm understanding of how it works in order to avoid serious programming mistakes and performance hits. Come learn about the Finalize method, the IDisposable interface and the GC class, including some esoteric techniques such as object resurrection and pooling.

Make Win32 Calls from .NET

Dan Appleman, Desaware

Friday, February 15, 5:15 p.m.

WINDOWS

Every VB developer worth his or her salt knows how to make Win32 calls in VB 6. But as with so many areas this is changing in significant ways with Visual Basic .NET. Join one of the acknowledged masters of black belt VB programming as he takes you through the ins and outs you need to navigate this new territory.

Photo by Chris Holmes



At VBITS San Francisco 2000 Steve Ballmer, Microsoft President, introduced the .NET Framework and Visual Basic .NET, then referred to as Next Generation Windows Services and Visual Basic 7. Join us at VSLive! this year to close the circle and be a part of the official launch of the next generation toolset for developers, Visual Studio .NET.

Conference Schedule

FEBRUARY 11-12, 2002

FIVE Pre-Conference Workshops

Add-on to your SQL2TheMax registration for the low daily rate of \$325. See page 20 for details.

FEBRUARY 13, 2002

BONUS Visual Studio .NET Day!

FREE with your SQL2TheMax registration. See page 4 for details.

FEBRUARY 14, 2002

8 AM	KEYNOTE: Build Petabyte Databases with SQL Server Jim Gray, Microsoft Research Group, Microsoft	
9:15 AM	Exclusive Keynote by Intel Corporation	
10:30 AM	Tune Up Your SQL Server Databases with Better Indexing Kimberly L. Tripp-Simonnet, SYSolutions, Inc.	
11:30 AM	Lunch	
	DATA	FUNDAMENTALS
12:30 PM	Integrate SQL Server 2000 XML with ADO .NET Laura Barker, Empowered Software Solutions	Index Maintenance: Why & Automation Kimberly L. Tripp-Simonnet SYSolutions, Inc.
1:45 PM	Data Mining with MS Analysis Services Andrew Brust, Progressive Systems Consulting	Working Better with Linked Servers Michel Ulens, United Solutions bvba
3 PM	Distributed Partitioned Views Ken Henderson, Author	SQL Server Security Michel Ulens, United Solutions bvba
4:15 PM	Multidimensional Expression Queries for ADO Programmers Don Kiely, Third Sector Technologies	Error Handling in Transact SQL Josef Finsel, G.A. Sullivan
5:30 PM	Manage Slowly Changing Dimensions with DTS and T-SQL Trey Johnson, Encore Development	SQL Dialects: Using Multiple RDBMSs Judy Bowman, Author
6:30 PM	Exhibition Evening Reception	
8 PM	.NET Madness Jeff Hadfield, Group Publisher, <i>Visual Studio Magazine</i>	

FEBRUARY 15, 2002

9 AM	KEYNOTE: Architect Analytical Applications with SQL Server and .NET Dave King, Senior Vice President, Product Development and CTO, Comshare	
	OLAP	REPLICATION
10:15 AM	OLAP with Microsoft Analysis Services, Part I Andrew Brust, Progressive Systems Consulting	Intro to Replication Michael Hotek, Independent Consultant
11:30 AM	OLAP with Microsoft Analysis Services, Part II Andrew Brust, Progressive Systems Consulting	Create Generic Replication Scripts Ron Talmage, Prospice, LLC
12:30 PM	Special Lunchtime Presentation: SQL Server 2000: Tips & Tricks and Otherwise Coolstuff Kimberly Tripp-Simonnet, SYSolutions, Inc.	
	XML	SCALABILITY
1:30 PM	XML Templates and SQL Server 2000 Jay Schmelzer, Clarity Consulting	Optimize Stored Procedure Performance Ken Henderson, Author
2:45 PM	Use SQLXML on SQL Server 2000, Part I Brian Matsik, Author	The Need for Speed Robert Patton, PurchasingFirst
4 PM	ASP.NET Using XML Data Directly from SQL Server Don Kiely, Third Sector Technologies	Tales From the Trenches: Real World Performance Tuning Micheal Hotek, Independent Consultant
5:15 PM	Use SQLXML on SQL Server 2000, Part II Brian Matsik, Author	Resolve Deadlocks Ron Talmage, Prospice, LLC

FEBRUARY 16, 2002

FIVE Post-Conference Workshops

Add-on to your SQL2TheMax registration for the low daily rate of \$325. See page 20 for details.

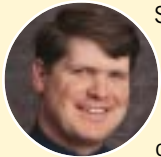
Bonus Track

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for a detailed description

ENTERPRISE DEV	
10:30 AM	Get a Grip on the Big Projects Dave Kapelansky, Compuware
11:45 PM	Modeling for .NET Applications Jan Popkin, Popkin
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2:45 PM	Optimize Your Database Connectivity with .NET John Goodson, DataDirect
4 PM	Create Cross-Platform Solutions with Visual Studio .NET Ron Johnson, Mainsoft Corporation
5:15 PM	Mainframe Integration Jake Freivald, iWay

SQL Server Developers: Maximize Development Effort at SQL2TheMax



SQL2TheMax is the only conference conceived from start-to-finish with the expert SQL Server developer in mind. The conference organizers consulted with the leading gurus of SQL Server development as well as talking to corporate developers like you, to come up with a series of sessions that address and solve the real-world problems of SQL Server developers. The result: A conference chock full of in-depth instruction on everything from hardcore T-SQL to design/architectural development topics such as replication and building petabyte databases with SQL Server, delivered by such luminaries as Keynote Speaker, Jim Gray. Every session speaks directly to the tasks you, as a SQL developer, must tackle every day.

Sincerely,

Patrick Meader
Editor-In-Chief, *Visual Studio Magazine*



Tune Up Your SQL Server 2000 Databases with Better Indexing

Kimberly L. Tripp-Simonnet, SYSolutions, Inc.

Thursday, February 14, 10:30 a.m.

There is no other area in the product where you can get better performance gains than with indexes. Ironically, this is also the most misunderstood and improperly maintained area as well. We will define and demonstrate the amazing performance gains that can be recognized with the right indexes, in the right places, at the right time. We will focus on improving performance for SARGs, Joins and Aggregates. We'll discuss what types of indexes can give performance gains in each of these areas but for consistent, long-lasting performance gains you must maintain them.



Integrate SQL Server 2000 XML with ADO .NET

Laura Barker, Empowered Software Solutions

Thursday, February 14, 12:30 p.m.

DATA

Learn the fundamentals of SQL Server XML features and how to use the "FOR XML clause" for maximum effect. We'll show you how to create stored procedures to return the XML and what the XML DOM is and how to use it. Plus, you'll find out how to code the ADO .NET to access the data in SQL Server 2000 and the use of strongly typed datasets using XSD and SQL Server 2000 stored procedures. We'll tie up all this to a Web Form application using a treeview control.

KEYNOTE



Build Petabyte Databases with SQL Server

Jim Gray, Microsoft Research Group, Microsoft

Thursday, February 14, 8 a.m.

Emerging applications need to store billions of megabytes (petabytes). We'll begin by sketching some of these apps and their requirements. We'll then focus on two large databases: the TerraServer which has morphed into the TerraService Web service. We'll explain that evolution and the current efforts on geo-spatial data. We'll then look at the SkyServer and the Virtual Observatory presented: its goal is to put all astronomical data online and accessible as Web services. The SkyServer has a demanding data mining component. Database technology can revolutionize the way computational science is done: moving it from a script+files metaphor to a visual data miner metaphor.

Index Maintenance: Why & Automation

Kimberly L. Tripp-Simonnet SYSolutions, Inc.

Thursday, February 14, 12:30 p.m.

FUNDAMENTALS

If you want to keep a database compact and keep the performance optimal, you must de-fragment your indexes. Understanding the structures of indexes and why indexes can become fragmented is half the battle, but knowing the right way to rebuild and how to automate the process is the other half. We'll look at critical index rebuild options such as FILLFACTOR as well as compare the different options available for rebuilding the indexes.



Data Mining with MS Analysis Services

Andrew Brust, Progressive Systems Consulting

Thursday, February 14, 1:45 p.m.

DATA

SQL Server's Analysis Services technology discovers patterns and correlations in data and makes predictions about new data that you can use for targeted marketing and mailing. We'll illustrate how to maximize SQL Server 2000's data mining power through demos that build a mining model on a relational database. We'll then show you how to write code to run predictions on new data sets yourself. Finally, we'll also look at how Microsoft's XML for Analysis spec, ADO and ADO .NET tie in to the picture.

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		VCDC page 16	

**Working with Linked Servers****Michel Ulens, United Solutions bvba**

Thursday, February 14, 1:45 p.m.

FUNDAMENTALS

MS SQL Server has been enjoying increasing popularity as a database platform. But of course, many organizations have other RDB platforms installed. Linked servers provide an elegant solution for organizations wanting to integrate MS SQL server apps with other (legacy) RDB platforms. We'll demonstrate how to accomplish this by linking to an Oracle database, and giving a clear example of how to extend the power and flexibility of your database needs.

SQL Server Security**Michel Ulens, United Solutions bvba**

Thursday, February 14, 3 p.m.

DATA

This is your chance to learn about security from the developer of one of the largest-scale secure SQL Server applications in Europe. You'll see how to set up security in SQL Server, and then keep it secure. Knowing how to set up users, assign them rights, create user roles, use security information in your own applications, and audit granted rights is just a few detailed steps away.

**Distributed Partitioned Views****Ken Henderson, Author**

Thursday, February 14, 3 p.m.

FUNDAMENTALS

We will show you what works and what doesn't with DPVs, what to watch out for, how to tune DPVs for maximum performance, and how to avoid common mistakes. We'll discuss the basics of settings up DPVs in the first place, along with advanced topics such as troubleshooting problems with DPVs and speeding up DPVs that perform poorly.

**Multidimensional Expression Queries for ADO Programmers****Don Kiely, Third Sector Technologies**

Thursday, February 14, 4:15 p.m.

DATA

Together we'll cover the most important MDX language features and look at many queries to solve common data access tasks. We'll also demonstrate how the data structures returned by MDX relates to the structures in an OLAP cube, as well as discuss the SQL Server PivotTable Services, part of Analysis Services, that allow an application to interact with multidimensional data.

**Error Handling in Transact SQL****Josef Finsel, G.A. Sullivan**

Thursday, February 14, 4:15 p.m.

FUNDAMENTALS

We'll walk you through how error handling in SQL Server is different from error handling in other programming languages and teach you different ways to implement error handling in stored procedures. We'll include how ADO .NET handles the errors that get raised.

**Manage Slowly Changing Dimensions with DTS and T-SQL****Trey Johnson, Encore Development**

Thursday, February 14, 5:30 p.m.

DATA

We'll start with an overview of the three Slowly Changing Dimension types and practical examples of each. We'll then explore these practical examples further through demonstrations of techniques for managing the dimension loading process in both Data Transformation Services and Transact SQL from relational and non-relational data staging environments. Finally, it will all be tied together with a benchmark comparison of the techniques that show when each technique is appropriate.

SQL Dialects: Using Multiple RDBMSs**Judy Bowman, Author**

Thursday, February 14, 5:30 p.m.

FUNDAMENTALS

More and more database users are working with multiple RDBMSs. The transition is often difficult, until you figure out how to apply what you know about system A to system B. Areas with a lot of overlap despite differences are system tables (and using them to generate SQL), most SQL commands, and SQL functions. Areas with bigger hurdles in understanding include generating sequential numbers, and using stored procedures and cursors. Our goal is to get you comfortable with a selection of SQL dialects: you'll leave knowing how and where to look for variations from what you've already learned.

**OLAP with Microsoft Analysis Services, Part I and II****Andrew Brust, Progressive Systems Consulting**

Friday, February 15, 10:15 a.m. & 11:30 a.m.

OLAP

We'll explore the OLAP functionality of SQL Server 2000, including Drillthrough, Custom Rollups, Parent-Child Dimensions, and program-mable extensibility. We'll tie it all together with a special live demo, in which we'll apply these features to a cube built on the SQL Server Northwind demonstration database.

**Transactional Replication****Michael Hotek, Independent Consultant**

Friday, February 15, 10:15 a.m.

REPLICATION

We'll show you how to become an expert in the main replication methods, including the trade offs between methods, and how you evaluate replication as a solution in your environment. You'll leave with an understanding of replication and be able to intelligently evaluate and select a replication method to fit a business problem.

Create Generic Replication Scripts**Ron Talmage, Prospice, LLC**

Friday, February 15, 11:30 a.m.

REPLICATION

The replication scripts produced by Enterprise Manager are not applicable to general situations. Together we'll produce replication scripts that are more structured and general purpose. You'll walk away with a better grasp of replication than ever before and leave with plenty of code to make replication easier when you go back home.



Special Lunchtime Presentation: SQL Server 2000: Tips & Tricks and Otherwise Cool Stuff

Kimberly Tripp-Simonnet, SYSolutions, Inc.

Friday, February 15, 12:30 p.m.

SQL Server 2000 offers options to Developers and Admins unlike any other version, but there are still areas that seem to get overlooked. We'll look at some of the lesser-known features of SQL Server to make sure that you've turned over every leaf. Topics will include Case Sensitive Searching in a Case-Insensitive Database, Minimizing Transactional Code by Setting Variables within an Update statement, Parameterized Messages including setting their State, Creating Cool Constraints, VLDB Best Practices for Backup (using File/Filegroup Backups) and Saving Production Tables from Production dBAs. Plus, we will give you lots of excellent code examples to make your job easier.



XML Templates and SQL Server 2000

Jay Schmelzer, Clarity Consulting

Friday, February 15, 1:30 p.m.

XML

XML templates provide a more secure manner to leverage SQL Server's XML/HTTP capabilities. We'll show you how to maximize XML templates to build a reporting infrastructure that can be accessed from both browser and Windows based clients.

Optimize Stored Procedure Performance

Ken Henderson, Author

Friday, February 15, 1:30 p.m.

SCALABILITY

We will discuss SQL Server performance tuning from the perspective of stored procedures. We'll talk about how to maximize the procedure cache, how to achieve maximum plan reuse, avoid recompiles, and troubleshoot stored procedures that don't perform very well.



Use SQLXML on SQL Server 2000, Part I

Brian Matsik, Author

Friday, February 15, 2:45 p.m.

XML

Learn how to install and configuring SQLXML on IIS and SQL Server 2000 with ease. We'll cover security configuration and typical "do" and "don't" issues with the add-in. We'll also further explore the use of templates for generating XML results from SQL Server and finish up with a look at the schema and analysis of the SQL to XML conversion.



The Need for Speed

Robert Patton, PurchasingFirst

Friday, February 15, 2:45 p.m.

SCALABILITY

No query can run fast enough. Often developers use the execution plan as a clutch to tune specific queries. Instead of relying on tuning specific queries, make your data access perform better by writing your queries better. Learn when and how you should use the various data transfer methods available to you to make your queries lightning-fast.

KEYNOTE



Architect Analytical Applications with SQL Server and .NET

Dave King, Senior Vice President of Product Development and CTO, Comshare

Friday, February 15, 9 a.m.

Analytical applications are packaged software that focuses on the optimization of business operations and opportunities. This keynote will explore and demonstrate how Microsoft's Analysis Services can be used in concert with .NET technologies—including SOAP and XML for Analysis—to deliver analytical information to decision makers in real time, anywhere on any device.

ASP.NET Using XML Data Directly from SQL Server

Don Kiely, Third Sector Technologies

Friday, February 15, 4 p.m.

XML

SQL Server 2000 introduced some powerful techniques built on XML for accessing data in a cross-platform format. We'll explore the extensions to Transact SQL, HTTP features, and ASP extensions built into SQL Server that can provide all these benefits to your ASP application and much more.



Tales from the Trenches: Real World Performance Tuning

Michael Hotek, Independent Consultant

Friday, February 15, 4 p.m.

SCALABILITY

Learn how to avoid severe problems after deployment by following a few important tips. We'll dig into some of the basic coding and design constructs that work well and those that don't. You'll see what techniques have been developed over the years to quickly evaluate an environment, target major bottlenecks, document the problems, break those problems down, and how to patch or fix them. You'll get nothing but pragmatic advice derived from real experiences and environments at real clients.

Use SQLXML on SQL Server 2000, Part II

Brian Matsik, Author

Friday, February 15, 5:15 p.m.

XML

Join us and take the existing installation of SQLXML and extend the functionality to allow for database mapping and auto-generation of the SQL statements. We will once again look at the SQL to XML layer and what is occurring on the server. Finally, we will look at updatagrams as an interface to send data back to the server for inserts, updates, and deletes.



Resolve Deadlocks

Ron Talmage, Prospice, LLC

Friday, February 15, 5:15 p.m.

SCALABILITY

Finding and resolving SQL Server 2000 deadlocks can be a very difficult task. Together we'll use Profiler and the -T1204 trace flag to find and resolve various kinds of deadlocks. This session will give you every tip and trick available for tackling these nasty problems with ease.

Conference Schedule

*All VCDC sessions have been lengthened to 2 hours each!
Double the time for deeper content.*

Bonus Track
See page 19
for a detailed description

FEBRUARY 11-12, 2002	
FIVE Pre-Conference Workshops	
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FEBRUARY 13, 2002	
BONUS Visual Studio .NET Day!	
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NEW! Two-Hour Sessions

FEBRUARY 14, 2002		
8 AM	KEYNOTE: C# and .NET Drew Fletcher, C# Product Mgr., Microsoft	KEYNOTE: Visual C++ and .NET Nick Hodapp, VC++ Product Mgr., Microsoft
9:15 AM	Exclusive Keynote by Intel Corporation	
	BLACK BELT C#	BLACK BELT C++ .NET
10:30 AM	Advanced .NET Remoting Peter Drayton, Author	Under the Hood with C++ .NET Ronald Laeramans, Microsoft
12:30 PM	Lunch	
1:45 PM	.NET Serialization and XML Aaron Skonnard, Skonnard Consulting	Advanced Development Techniques Terry Leeper, Microsoft
4 PM	Multithreading with .NET Juval Lowy, IDesign	.NET My Services & Real World Enterprise Applications with ATL Server Microsoft
6 PM	Exhibition Evening Reception	
8 PM	.NET Madness Jeff Hadfield, Group Publisher, Visual Studio Magazine	

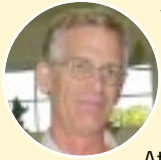
ENTERPRISE DEV	
10:30 AM	Get a Grip on the Big Projects Dave Kapelansky, Compuware
11:45 PM	Modeling for .NET Applications Jan Popkin, Popkin
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1:45 PM	Develop Fast, Reliable Microsoft .NET Code Ken Vodicka, Rational Software
3 PM	Business Intelligence Dan Ortolani, IBI
4:15 PM	Reporting in .NET Donald MacCormick, Crystal Decisions
5:30 PM	SQL Development Process Improvement Neil Davidson, Red Gate

FEBRUARY 15, 2002	
9 AM	KEYNOTE: Agile Software Development: Where Design and Code Meet Michael T. Devlin, Founder and Chief Executive Officer, Rational
	BLACK BELT C#
10:30 AM	Advanced C# Techniques: Custom Attributes & Reflection Richard Grimes, Author
12:30 PM	Lunch
1:45 PM	Build Distributed .NET Components Richard Hale Shaw, richardhaleshaw.com
4 PM	Metadata and Building Applications Jeffrey Richter, Wintellect

ENTERPRISE DEV	
10:15 AM	Change Management Strategies Andrew Weiss, Merant
11:15 AM	Lunch
12:15 PM	Load Testing Mark Tomlinson, Mercury Interactive
1:30 PM	Integrate Multi-Language Apps Using .NET's CLR Don Wagner, AppsChannel
2:45 PM	Optimize Your Database Connectivity with .NET John Goodson, DataDirect
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5:15 PM	Mainframe Integration Jake Freivald, iWay

FEBRUARY 16, 2002	
FIVE Post-Conference Workshops	
Add-on to your VCDC registration for the low daily rate of \$325. See page 20 for details.	

For Black Belt Developers Only



VCDC San Francisco 2002 offers two full days of Black Belt C# sessions, with topics like Advanced .NET Remoting, .NET Serialization and XML, Multithreading with .NET, Custom Attributes and Reflection, and more. These are so deep, each session lasts two full hours. And for the guru's guru, we're also offering a day of Visual C++ .NET, presented by the Microsoft Visual C++ .NET team. They'll show you how to use Visual C++ .NET to tackle corporate development needs so challenging that nothing but Visual C++ will do. With topics like .NET My Services and Real World Enterprise Applications with ATL Server, you're sure to come away with some great new techniques to use in 2002.

Sincerely,

Lee Thé

Senior Editor, *Visual Studio Magazine*

Black Belt Visual C++

KEYNOTE



Visual C++ and .NET

Nick Hodapp, VC++ Product Manager, Microsoft

Thursday, February 14, 8 a.m.

Visual C++ .NET is Microsoft's language for power programming on .NET and Windows. It is the only language to target .NET to generate optimized MSIL, and it is the only compiler capable of generating both managed and unmanaged code and data in a single image. Come to get the answers to all your questions about Visual C++'s role in building powerful .NET and Windows applications.

Under the Hood with C++ .NET

Ronald Laeremans, Microsoft

Thursday, February 14, 10:30 a.m.

BLACKBELT C++ .NET

What's the real story with managed code? What does IL look like? What about metadata? This in-depth session promises a serious look at the .NET platform from the perspective of a C++ developer. Topical bonuses will include JIT optimizations, method dispatching, GC structures, and C++'s unique IJW (It Just Works), too.

Advanced Development Techniques

Terry Leeper, Microsoft

Thursday, February 14, 1:45 p.m.

BLACKBELT C++ .NET

What do all those compiler switches do? How do I optimize my code? How do I more effectively debug the code the last guy wrote? How do I impress the team and go home by 6 p.m.? Get answers to these questions and more in this tour-de-force session covering the advanced features and tools of Visual C++, and the best techniques for putting them to good use.

.NET My Services & Real World Enterprise Applications with ATL Server

Microsoft

Thursday, February 14, 4 p.m.

BLACKBELT C++ .NET

We'll show you how to build high performing, scalable ATL Server Web applications for the real world. Learn how to architect, implement, deploy, and configure these applications. Learn how to build native mode XML Web Services, and how they can integrate with .NET My Services. Review the common pitfalls of enterprise application development, and find out how using ATL Server can help to avoid them.

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Save \$200

**Register by
January 9th**

Black Belt C#

Advanced .NET Remoting

Peter Drayton, Author

Thursday, February 14, 10:30 a.m.

BLACKBELT C#

We'll delve into the world of .NET Remoting and beyond. We'll explore remoting plumbing itself: objects and channels. We'll discuss app domain and contexts. You won't want to miss this .NET Remoting adventure through custom context attributes and serialization!



Multithreading with .NET

Juval Lowy, Idesign

Thursday, February 14, 4 p.m.

BLACKBELT C#

.NET tries to improve on existing technologies by offering a rich set of synchronization objects as well as a modern synchronization option, using synchronized contexts that are not only trivial to use, but formally eliminate synchronization problems and the developer's need to code around them. We'll demonstrate how to create and use .NET threads, how to take advantage of the various synchronization mechanisms, and discuss design and implementation trade offs and best practices. We'll use many conceptual demos for every key point.



Advanced C# Techniques: Custom Attributes & Reflection

Richard Grimes, Author

Friday, February 15, 10:30 a.m.

BLACKBELT C#

Get an in-depth explanation of what metadata is and how it is extended with attributes. We'll take a serious look at the various types of attributes and explain how they relate to the runtime. We'll show you how attribute information is stored in assemblies and describe how that data is read at runtime through the Reflection API. Finally, we'll discuss several examples of using attributes in your own code, as a notation device and as a mechanism to change how other classes use your types.



Build Distributed .NET Components

Richard Hale Shaw, richardhaleshaw.com

Friday, February 15, 1:45 p.m.

BLACKBELT C#

At the heart of the .NET platform, Serviced Components provide all the services you need to create .NET components that are remoteable, distributed, that scale to accept high demand, offer transactional support for state-aware objects, and can handle asynchronous method invocations and events. Together we'll explore the .NET Enterprise Services namespace with a focus on building .NET components that let you build complete, robust distributed applications, and we'll build a small distributed system during the session. When you leave, you'll have example code that you can use to build your own distributed .NET components.

KEYNOTES



C# and .NET

Drew Fletcher, C# Product Manager, Microsoft

Thursday, February 14, 8 a.m.

You've heard all the hype, and now you want to get the straight facts. Come meet the C# language designers as they discuss the design goals for the language, core C# language features, and future language extensions and additions. Microsoft C# product managers will hold nothing back as they take you for a demo-packed tour into the heart of C#.



Agile Software Development: Where Design and Code Meet

Michael T. Devlin, Founder and Chief Executive Officer, Rational

Friday, February 15, 9 a.m.

Extend the power of Visual Studio .NET to help you design and build .NET applications. Rational and Microsoft are providing new unprecedented support for the Microsoft Visual Studio .NET developer by combining code and design into one integrated development experience. Discover how you can extend Visual Studio .NET and leverage .NET's component-rich architecture to simplify and speed software development.



Metadata and Building Applications

Jeffrey Richter, Wintellect

Friday, February 15, 4 p.m.

BLACKBELT C#

Come for an detailed illustration of how compilers produce metadata and how this metadata is used by the CLR to resolve type references. We'll also demonstrate how to build multi-file assemblies and show you the reason why you might want to do so. Finally, we'll tie it all together with a discussion of assembly, versioning, packaging, deployment, and administration.



.NET Serialization and XML

Aaron Skonnard, Skonnard Consulting

Thursday, February 14, 1:45 p.m.

BLACKBELT C#

The .NET architecture provides native support for serializing types and objects as XML. This native support finally makes it possible to transparently map between the worlds of C# and XML. Join us for an insightful look at the various mechanisms in .NET that provide this functionality, specifically the System.Xml.Serialization and System.Runtime.Serialization namespaces.

Bonus for all attendees!

Enterprise Development Track

The Enterprise Development Track gives you two full days of in-depth sessions on building large-scale enterprise applications—a BONUS for all attendees. Register for SQL2TheMax, VCDC, VBITS or the Gold Passport and you can get two full days of content on solving large-scale business application challenges.

Get a Grip on the Big Projects

Dave Kapelansky, N. American Sales Support Manager, Compuware

Throughout an application's lifecycle, advanced planning and automated tools insure that web-to-mainframe applications are successfully accomplished. Join Compuware's Kapelanski for a detailed look at effective team management that coordinates requirements gathering, defect analysis, and configuration management data for development, QA, and production teams.

Modeling for .NET Applications

Jan Popkin, Software CEO, Popkin

Today's fast-paced world calls for smart decisions before you start programming, whether your focus is Web services, E-business, .NET or just plain old IT systems. Popkin Software CEO Jan Popkin will examine the issues around modeling .NET applications.

Business Intelligence

Dan Ortolani, Business Intelligence Group Director, IBI

Robust business intelligence solutions that specialize in real-time information delivery over the Web can be incorporated into your current enterprise-reporting environment. Learn ways to improve mission-critical operation with WebFOCUS.

Reporting in .NET

Decision-makers require high quality, accurate reports to make informed tactical and strategic decisions. In this session, you'll get an in-depth technical look at how developers can use the power of Crystal Reports to create dynamic and highly graphical reports off almost any database, and leverage them in their next generation Web services, Windows applications, and Web applications.

SQL Development Process Improvement

Neil Davidson, Lead SQL Architect, Red Gate

At the end of many development cycles, the development database is often wildly out of synch with the production database. This talk will discuss the technical issues and challenges involved in keeping the structure and contents of development and live databases synchronized, and will offer an alternative to poorly implemented processes.

Change Management Strategies

Andrew Weiss, CTO, Merant

Change accelerates quality in software development and content management processes. We'll discuss how companies can employ an enterprise change management strategy that manages enterprise digital assets. We'll also explain how automating change across development environments enables enterprises to consistently deliver robust apps faster & sustain competitive advantage.

Load Testing

Mark Tomlinson, Technical Alliance Manager, Mercury Interactive

Testing, verifying and managing the performance of .NET Web Services presents a unique set of challenges. Get the "rules of the road" for creating reusable test scripts that help manage functionality and performance, ensuring a smooth roll-out and top performance after deployment.

Integrate Multi-Language Apps Using .NET's CLR

Don Wagner, President and Chief Software Architect, AppsChannel

Visual Studio .NET's Common Language Runtime (CLR) provides common object and data types shared by 30 different programming languages. Join us for a look at how to interrogate CLR and COM objects and then link them visually into business rules imbedded in multi-programming language components.

Optimize Your Database Connectivity with .NET

John Goodson, Vice President of Product Operations, DataDirect

Improve the overall performance of your applications with a few ADO .NET tricks. You'll learn tricks for optimizing database connectivity within Visual Studio, from debugging issues to selecting and using specific ADO .NET functions to improve performance.

Develop Fast, Reliable Microsoft .NET Code

Ken Vodicka, PurifyPlus Product Manager, Rational Software

Build fast, reliable applications within the Visual Studio .NET IDE, by performing three critical steps: memory profiling, performance profiling, and code coverage analysis. We'll show you the tools and techniques involved.

ENTERPRISE DEV

FEBRUARY 14, 2002

10:30 AM	Get a Grip on the Big Projects Dave Kapelansky, Compuware
11:45 PM	Modeling for .NET Applications Jan Popkin, Popkin
12:45 PM	Lunch
1:45 PM	Develop Fast, Reliable Microsoft .NET Code Ken Vodicka, Rational Software
3 PM	Business Intelligence Dan Ortolani, IBI
4:15 PM	Reporting in .NET Donald MacCormick, Crystal Decisions
5:30 PM	SQL Development Process Improvement Neil Davidson, Red Gate

FEBRUARY 15, 2002

10:15 AM	Change Management Strategies Andrew Weiss, Merant
11:15 AM	Lunch
12:15 PM	Load Testing Mark Tomlinson, Mercury Interactive
1:30 PM	Integrate Multi-Language Apps Using .NET's CLR Don Wagner, AppsChannel
2:45 PM	Optimize Your Database Connectivity with .NET John Goodson, DataDirect
4 PM	Create Cross-Platform Solutions with Visual Studio .NET Ron Johnson, Mainsoft Corporation
5:15 PM	Mainframe Integration Jake Freivald, iWay

Create Cross-Platform Solutions with Visual Studio .NET

Ron Johnson, Director of Customer Services, Mainsoft Corporation

Join Mainsoft's Ron Johnson for a focus on the optimum way to use Visual Studio .NET to create mission-critical applications targeted for deployment on both Windows and UNIX.

Mainframe Integration

Jake Freivald, Director of Marketing, iWay

Find out how to use Visual Basic and C++ development skills to create a reusable integration infrastructure that leverages all of your back-end data assets, including legacy and packaged solutions.

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Or, you may add them to your VBITS, VCDC or SQL2TheMax registration for the low daily rate of \$325.

Pre-Conference Workshops

Monday, February 11, 2002
9 a.m. to 6 p.m.



OOP for Today and Tomorrow Deborah Kurata, InStep Technologies

OOP's .NET is here. This workshop will deliver the ultimate crash course on object-oriented programming for Visual Basic .NET developers. You'll learn how to use OO techniques to architect, design and develop great Windows and Web applications. We'll show you how to use parameterized constructors, function overloading, static class data, and inheritance-based polymorphism. We'll also explore how and when to use implementation inheritance and interface inheritance. Eight hours of straight talk and OOP immersion promise to launch your skill set to the next level, guaranteeing you'll be ready for tomorrow's best OO practices.



Create Killer Apps with Microsoft Web Services and ASP.NET

Chris Kinsman and Yasser Shohoud,
Deep Training

Web-based applications are rarely an island unto themselves. They need to communicate with customers, vendors, suppliers, and others to be effective in today's fast-changing environment. We will focus on the new tools in the .NET Framework used to create these applications: ASP.NET, ADO .NET and XML Web services. We will take a fictional company and build an online e-commerce presence for it using ASP.NET. The e-commerce site will use XML Web services that we build to send orders to suppliers and check the status on orders. We will also look at UDDI as a way to publish and dynamically locate services that you need to consume.

Tuesday, February 12, 2002
9 a.m. to 6 p.m.



Become a Master of Web App Design in Visual Basic .NET

Rockford Lhotka, Magen Technologies, and
Mike Amundsen, Independent Consultant

The .NET platform supports the two major architectures used when designing n-tier Web applications: data-centric and object-oriented. Attend this workshop and you'll get more than a solid understanding of these architectures and their fundamental differences. You'll get the tools to decide where each approach is most appropriate, as well as shown how each can be implemented in detail, using .NET technologies such as ASP.NET and Visual Basic .NET. You'll discover how the two architectures can be used to generate different application implementations from the same design specifications, and complete the day as an expert .NET Web developer skilled with decision making power and knowledge.



XML and SOAP Jumpstart Brian Randell and Ken Getz, MCW Technologies

Using the .NET platform, you'll learn how to integrate XML and SOAP into your solutions. We'll start with core XML, including XSD (XML Schemas), followed by the XML DOM—the key API for programming XML. Then we'll explore how to transform XML with XSL, and to query XML with XPath and get our arms around the new XML features in Visual Studio .NET, including XML class libraries and designers. Finally, we will investigate how SOAP delivers the underlying technology for Web services, and how to build and consume XML Web services (and about UDDI) both using VB 6 and Microsoft .NET.



Write Web Apps with C# Jeff Prorise, Wintellect

This demo-laden workshop will get you up to date with the ASP.NET programming model and provide you with detailed instruction in how to write Web apps that leverage the .NET Framework. You'll learn about Web forms, application architectures, ASP.NET session state, Web services, and much more, with every morsel of code written in the world's newest and most talked-about programming language, C#. Don't miss out if you want to see what the future of Web programming looks like!

FEB. 11-12	FEB. 13	FEB. 14-15	FEB. 16
Pre-Conference Workshops page 20	Visual Studio .NET Launch page 4	VBITS page 6	Post-Conference Workshops page 20
		SQL2TheMax page 12	
		VCDC page 16	

Post-Conference Workshops

Saturday, February 16, 2002
9 a.m. to 6 p.m.

Build a Complete App with C# and .NET

Brent Rector, WiseOwl Consulting

In just one day you can gain the skills for building a complete app with C# and .NET. Join us for an analytical look at the .NET platform from bottom to top. In this workshop we'll show you what private and shared assemblies are, how the CLR manages code and data in assemblies, how the new type system supports language interoperability, and how the new code access security model works with demonstrations in C#. We'll get into how the runtime provides support while using existing code via the Platform Invoke and COM Interoperability services. What should you make of the new "APIs" built on top of the .NET Runtime? How about the new data access classes, as they pertain to database access and XML processing? How has the Web changed with .NET, especially regarding ASP.NET functionality and the .NET Framework's support for building Web services? These mysteries and more will be solved, and you'll gain the confidence you need to face this brave new .NET world.



Become a .NET Data Access Guru in One Day

Bill Vaughn, BetaV Corporation

Spend a demo-packed day wading hip-deep into the swamps and bayous of the ADO .NET architecture. We'll start with a discussion about COM-based ADO and how much of this code you can expect to import into the .NET Framework. We'll talk about the available SQL Server (SqlClient), OLE DB (OleDb) and the new ODBC (Odbc) ADO .NET managed providers. We'll open connections and get ADO .NET to open them and manage them for you, too. Low-level operations used to fetch data quickly and high-level methods to construct updatable and bindable DataSet objects will become clear. You'll see what new roles Visual Studio plays in making the process of creating ADO.NET code, stored procedures or ad hoc queries easy. We'll finish up by discussing performance, exception handling, update methodologies and concurrency management.



Take Visual Basic .NET 2TheMax

Francesco Balena, Wintellect

Now that you know the basics of Visual Basic .NET, the real fun can start. Regardless of whether you plan to work with Win32 clients or ASP.NET server-side code, in this full-day workshop you'll see how to create elegant, concise, high performance code that leverages the .NET framework, while using multi-threading, data structures, advanced OOP capabilities, custom attributes, and regular expressions. We'll show you how to precisely control garbage collection, access API functions, use COM Interoperability for a smooth transition to .NET, and so much more.



The VB Insiders View of the Common Language Runtime

Ted Pattison, Subliminal Systems

Wonder what's really happening underneath Visual Studio .NET? This full-day seminar is your chance for that in-depth look at the architecture of the CLR from the perspective of the Visual Basic programmer. How does the Visual Basic .NET language map to the common-type system of the CLR? How is code deployed, configured and versioned in terms of assemblies? We'll get into all this as well as discuss the concepts and syntax involved with advanced language features such as attributes, reflection, delegates and threading.



Build and Maintain Highly Scalable Database Systems with SQL Server 2000

Michael Hotek, Independent Consultant

Get ready for a complete tour—from design through implementation—and learn how to deploy flexible and highly scalable database systems. We will cover all aspects of the development lifecycle—from analysis through database design—to demonstrate the underpinnings necessary to meet scalability objectives. We will discuss performance trade offs and optimizations within your designs. We'll also discuss database coding for applications to achieve rapid development without sacrificing performance and scalability. Together we will move on to high-end optimizations of your code along with how to analyze an application to target performance problems. Finally, we will cover the one area that causes more system failures than any other: management of your system through deployment and the subsequent maintenance of that system.

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The VSLive! Exhibit Hall February 13-15, 2002

See the latest add-on tools for the Visual Studio Community!

Visit the VSLive! Exhibit Hall and get an insider's view of the current and future technologies that will change the way you develop with Visual Studio .NET. You'll experience hands-on learning straight from the companies who are on the cutting edge of every aspect of developing with the Microsoft toolset. Get a special peek at the newly released beta, alpha or R&D versions of innovative products! Sponsor or exhibit at VSLive! and receive unparalleled contact with an influential group of .NET developers!

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Registration Options

Registration includes access to all sessions for the package you choose, plus product demonstrations, lunches, and receptions.

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	Standard	*Early Bird
VSLive! Gold Passport	• \$2,695	• \$2,495

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add on VCDC	• \$1,595	• \$1,395
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add on SQL2TheMax	• \$1,595	• \$1,395
SQL2TheMax	• \$1,295	• \$1,095
add on VBITS	• \$1,595	• \$1,395
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February 11, 2002

- OOP for Today and Tomorrow
- Create Killer Apps with Microsoft Web Services and ASP.NET

February 12, 2002

- Become a Master of Web App Design in Visual Basic .NET
- XML and SOAP Jumpstart
- Write Web Apps with C#

February 16, 2001

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- Become a .NET Data Access Guru in One Day
- Take Visual Basic .NET 2TheMax
- The VB Insiders View of the Common Language Runtime
- Build and Maintain Highly Scalable DB Systems with SQL Server 2000

Registration Confirmation

Registrations received two weeks prior to the conference will be confirmed by mail. Conference materials will not be mailed. Registration will open the morning of Monday, February 11. Exact time and location will be announced with your registration confirmation.

Cancellation Policy

You may transfer your conference registration to another person within your organization at any time. If you must cancel, notify the conference registrar in writing by January 9, 2002 to receive a refund, less a \$150 cancellation fee. Cancellations made after January 9, 2002, as well as "no-shows" are liable for the full registration fee. In the event that VSLive! San Francisco is cancelled by FTP, Inc., registration fees only will be refunded. Cancellations of travel reservations and hotel reservations are the responsibility of the attendee.

Special Requirements

If you foresee any special requirements while attending VSLive! (dietary, access, or otherwise), please contact the VSLive! registrar at least one month in advance, and we'll do our best to accommodate your wishes. Call 800-848-5523 (or 650-833-7100) for details.

Speakers

The speakers listed in this brochure are leading professionals in their respective fields. Should a speaker be unable to attend the conference, all efforts will be made to replace that faculty member with one of comparable experience and qualifications.

Photo Release

From time to time we use photographs of conference participants in our promotional materials. By virtue of your attendance you automatically agree to the use of your likeness in such materials.

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VSLive! San Francisco attendees qualify for 10% off United Airlines unrestricted coach (BUA) fares or 5% off any fare including first class (restrictions apply). Call United's Specialized Meeting Reservations at 800-521-4041 and reference ID number: **501BW**.

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Bring your colleagues and the rest of your developer team and we'll extend even greater savings to the group when you register together. To qualify, all registrations must be paid on the same transaction with a corporate check or corporate credit card. Call 800-848-5523 (or 650-833-7100) for details.

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Members of bona fide user groups active with Visual Studio tools and registered with Microsoft's user group coordinator receive an additional \$25 discount. Call 800-848-5523 (or 650-833-7100) for details.

Tax Deductions

Conference expenses may be tax deductible. Treasury regulation 1.1625 permits an income tax deduction for educational expenses undertaken to (1) maintain or improve skills required in one's employment, or (2) meet express requirements of an employer. For more information, visit www.irs.ustreas.gov/bus_info.

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SQL2TheMax	<input type="checkbox"/> \$1,295	<input type="checkbox"/> \$1,095
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- ☐ The VB Insiders View of the Common Language Runtime
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