Application Development Trends presents

XML • WEB SERVICES ONE
CONFERENCE + EXPO

March 3-6, 2003
Santa Clara, CA
Santa Clara Marriot
www.xmlconference.com/santaclara

Development Training and More
for Enterprise Software Professionals

- Serious, in-depth training courses and workshops--not vendor talks

- Sponsored Keynotes by software vendor heavyweights

- Live! Web Services Integration Demonstration

- New! Case Studies give you the inside scoop on third-party solutions

- Special Networking Events and an Exhibit Hall packed with leading vendors

- Access to all your favorite *Application Development Trends Magazine* Writers & Editors

- Reduced registration fees and new group rates!

Look inside for details.

" *I enjoyed the ability to select from multiple session tracks and choices. I also enjoyed being able to network with both other developers interested in Web services and professionals/ experts in the field.*

Justin Webb, SWIFT

The sessions were long enough to go beyond overview & drill down into technical details & issues. The speakers were well prepared & serious about conveying the material they had to share. "

Kathy Zeman, Kemper Insurance

SIGS/101 CONFERENCES

101 communications

wwww.xmlconference.com/santaclara

A Letter From the Technical Chair:

Welcome

Despite a down economy, the pace of change in the world of application development still occurs at astounding speeds. Consequently, corporate IT professionals face the huge task of keeping up with the ever-changing nuances of XML, Web services, Java, .NET, component technologies and on and on. With that in mind, I'd like to personally invite you to our next software development conference.

XML Web Services One, March 3-6 in Santa Clara, brings together the leading visionaries, practitioners and educators in the software development market to deliver a unique program of education, best practices, peer networking and product demos. Each conference is designed specifically to help you make the most of your educational experience.

Experienced, respected technologists chair each track at XML Web Services One. This results in courses that cross technology borders and provide insight and instruction on enterprise architectures, Web services management, .NET and Java programming, client- and server-side Web services development, and significant advances in the development scene expected in the coming months. No vendor talks disguised as educational sessions here.

Application Development Trends keeps software development managers and architects informed. XML Web Services One gives you the opportunity to learn, share, inquire, interact and grow as an IT professional.

We look forward to seeing you in Santa Clara.

Mike Bucken
Editor-in-Chief
Application Development Trends Magazine
Technical Chair
XML Web Services One

Table of Contents

Who Should Attend

- Software Engineers/Architects
- Programmers
- Application Developers
- Application Development Consultants/Specialists
- Systems Analysts
- Internet Application Developers
- Corporate Webmasters
- Web Developers/Designers
- Internet/Intranet Architects
- e-Business Project Leaders
- Team Leaders
- Project Planners
- Program Managers
- Business/Marketing Managers
- Division/Departmental IT/Development Managers
- Standards Managers/Directors
- Corporate Officers involved in Development, Engineering, e-Business Development, and Information Technology

About XML Web Services One

SIGS/101 Conferences, a division of 101communications, is the premier provider of in-depth, high-quality education and training in XML and Web services technologies. Supported by the editors and contributors to *Application Development Trends Magazine*, the XML Web Services One conferences are designed to cover the latest in trends, best practices and newest developments in software and application development for enterprise interoperability and e-commerce. Speakers are chosen for their outstanding knowledge and ability to present effectively. Our commitment to vendor-neutral and hype-free technical conferences for programmers, developers, and their managers ensures that our attendees receive the most value out of their registration package.
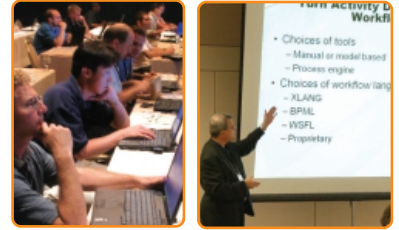
For more information about 101communications and its properties, visit us online at www.101com.com.

Monday, March 3

Luncheon Panel

"WEB SERVICES – TAMING THE MONSTER"
Monday, March 3
11:30am – 1:00pm

Moderated by Tony Baer, President, Demand Strategies and Columnist, *Application Development Trends*

Depending on your viewpoint, Web services represents evolution or revolution for application development. Regardless of your viewpoint, they will present management challenges at multiple levels, including transaction management, business process coordination, and security. Because Web services have been designed to be extremely flexible (consisting of conventional RPCs and more complex, longer-lived transactions, spanning inside or outside the firewall), the answers may not be obvious.

We will convene a panel of industry experts and users who are well versed in the issues of transaction management, business coordination, and security to answer questions such as:

• How to ensure the reliability and authenticity of Web services interactions that may involve multiple players?

• Which business and transaction scenarios will require workflow and choreography solutions?

• Will conventional transaction management protections such as two-phase commit or nonrepudiation be necessary?

• What is the role of standards in the management of Web services? Where will proprietary technology pick up and standards leave off?

Panelists:
Jim Bole - Vice President, Engineering, Infravio
Kevin Dick - President, Kevin Dick Associates
Rod Smith - Vice-President Emerging Technologies, IBM
and more.....

Sponsored Keynote

Monday, March 3

4:30 – 5:15pm

Don Box, Architect, Microsoft
Speaker bio on pg. 23

Tuesday, March 4

OASIS Forum on Web Services Standards
Tuesday, March 4
8:00am – 5:30pm

OASIS Officers – Staff, and Technical Committee Members (TBA)

Successful implementation of Web services is dependent on universally accepted standards. The OASIS consortium is the source of a variety of Web services specifications including UDDI, ebXML, SAML, WSRP, WSIA and WS-Security. This Web Services Standards Forum lets you spend a day with the experts and creators of OASIS standards. Get answers on the issues that affect your enterprise's Web services implementations. Plenary sessions and presentations will be followed by a concluding conference-day keynote presentation by Patrick Gannon, President & CEO of OASIS.

The specific group of standards to be covered and course itinerary will be announced shortly. Check the conference website at www.xmlconference.com/santaclara for more details.

Conference Welcome
Tuesday, March 4
10:45 – 10:55am

Mike Bucken, Editor-in-Chief
Application Development Trends Magazine
Technical Chair, XML Web Services One

Opening Keynote

"THE GRID AS A SINGULARITY"
Tuesday, March 4
10:55am – 12:00pm

Graham Glass, CTO, The Mind Electric
Speaker bio on pg. 23

The most powerful trends in computing - Web services, p2p and grid computing - are on collision courses that will breath new life into the way we view distributed systems. This keynote presents a compelling case for the convergence of these disciplines and describes the effect this will have on enterprise computing.

Those who enjoy challenges to conventional wisdom will particular enjoy this presentation delivered by Graham Glass – innovator, technologist, and XML Web Services One Conferences track chair and staple presenter.

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www.xmlconference.com/santaclara

Keynote

Tuesday, March 4
5:45 – 6:30pm

Patrick Gannon,
President & CEO, OASIS

Exhibit Hall Reception

Tuesday, March 4
6:30 – 7:30pm

This is your chance to relax, eat, drink, socialize and network with attendees, instructors and vendors on Tuesday night after the courses are over. Brought to you by *Application Development Trends Magazine.*

Hospitality Suite

Tuesday, March 4
7:30 – 9:00pm
Software AG

Wednesday, March 5

IBM Developer Day

WEB SERVICES FOR DYNAMIC E-BUSINESS
Wednesday, March 5
8:30am – 5:00pm

Sponsored by IBM In conjunction with the XML Web Services One Conference

Attend this intensive one-day seminar, open to both conference and Exhibit Hall only attendees, to learn about the latest developments surrounding some of the hottest Web services topics today, including the newest Web services tools and technologies, their future roadmap, and real-world implementations.

In this seminar, you will:

• Learn to develop and deploy Web services using the latest tools offered by IBM developerWorks and alphaWorks including the Web services Toolkit 3.2 and WebSphere SDK for Web Services.

• Get your questions answered about Web services security and interoperability.

• Use IBM WebSphere Studio Application Developer to extend Java components as Web services using WSDL.

• Gain insight into how Web services are being used today and how emerging technologies like Grid computing and wireless devices leverage these technologies.

Participants should have basic skills in Java technology and HTML, and experience in core XML technology.

Sponsored Keynote

Wednesday, March 5
10:45 – 11:45am

(TBA, Speaker updates at www.xmlconference.com/santaclara)

IBM

Sponsored Keynote

Wednesday, March 5
3:30 – 4:15pm

SOFTWARE AG
THE XML COMPANY

William Ruh, Sr. Vice President,
Professional Services,
Software AG

Thursday, March 6

Luncheon Panel

"THE FUTURE OF THE WEB"
Thursday, March 6
11:00am – 12:15pm

Moderator: Uche Ogbuji -
Co-Founder & CEO, FourThought Consulting

XML technology was born as a way to reap the benefits of the Web for general data processing. Now it promises to change the Web itself. XHTML 2.0, XLink, SVG, Web services, and the Semantic Web are all technologies that will have a profound effect on the future of on-line computing. This panel discussion brings together the experts in these areas to discuss the ambitious and sometimes competing visions for the Web, and how they are already affecting you today.

Panelists:

Paul Freeman, Principal Consultant, Architek, Ltd.

Eve Maler, XML Standards Architect, Sun's XML Web Services Group

Anne Thomas Manes, CEO & Founder, Bowlight

Mark Seamans, CTO, Cardiff Software

Web Services in Action! - Web Services Integration Demonstration

Tuesday 12:00pm - 7:30pm
Wednesday 11:45am - 3:30pm

The Web Services Integration Demonstration (WSID) is a multi-vendor demonstration of web services interoperability, incorporating the use of SOAP, WSDL, and UDDI. It utilizes a simple business scenario involving the processing of a purchase order.

The goal of the demonstration is two-fold:
• To show that basic message-passing using SOAP is easily achieved today in a multi-vendor environment.
• To show that the use of standardized interfaces definitions, documented using WSDL, can facilitate the integration process.

Basic Scenario Description
The demonstration defines four separate business roles – customer, supplier, warehouse, and bank. Each role exposes a set of pre-defined interfaces that act as the exchange points for messages from other participants. A demo participant chooses one or more roles to play.

The diagram to the right details the scenario used for this demonstration. Please note that while the diagram shows only one instance of each role for simplicity, in reality there are multiple players for each.

Infrastructure Services
In addition to the basic roles, the following infrastructure services are provided to all participants.

Private UDDI Registry
The UDDI registry holds registrations for both the standard interface descriptions used in this demonstration, as well as the endpoint URLs of the participants. While the demonstration provides this registry for the benefit of any participants that wish to use it, it does not require its use.

Logging System
A generic reliable logging system accepts events from each of the participants and publishes them to subscribed logging event viewers.

For More Information
For more information about this demonstration, please visit the demo homepage at http://www.xmethods.net/wsid.

get catalog
send PO
get PO Status
get Invoice

check Availability
ship Request
ship Confirm

charge
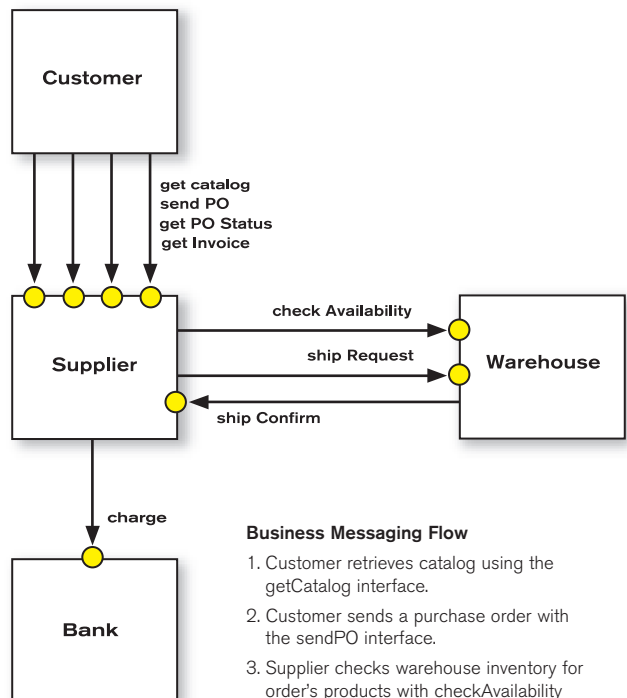
Business Messaging Flow

1. Customer retrieves catalog using the getCatalog interface.

2. Customer sends a purchase order with the sendPO interface.

3. Supplier checks warehouse inventory for order's products with checkAvailability interface.

4. Supplier charges customer's account at the bank with the charge interface.

5. Supplier issues ship request to warehouse for order using the shipRequest interface.

6. Warehouse confirms shipment using the shipConfirm interface.

7. Customer checks status of order at any point with the getPOStatus interface.

8. Customer retrieves invoice once order has shipped with the getInvoice interface.

TEN REASONS TO ATTEND

1 Trusted Source.
Application Development Trends Magazine is a trusted source of information on development solutions for software managers, programmers and their colleagues in the enterprise. The content of this conference is guided by many of the same application development and integration experts who write and edit the magazine. So you know that people like Mike Bucken and Jack Vaughan are going to tap into the industry's brightest stars for program development and presentations at XML Web Services One.

2 Real World Development & Integration Strategies.
You need solutions, not theories. And you don't have time for information you can't apply on the job. Our courses are designed to give you real-world details on both the work you're doing today and the work you'll be doing tomorrow.

3 Tracks Chairs Above Reproach.
We invite you to compare our conference track chairs with any software development conference advisory panel or board. We've enlisted the services of the best of the best, ensuring that you receive the very finest education and practical training available today.

4 Hype-free and Vendor-neutral.
Because we're independent and not beholden to anybody, you get to hear the other side of the technology you're working to develop, implement and manage - the hidden gotchas, the standards, and the strategies.

5 Concentrated Learning.
Attendees don't come to XML Web Services One looking to mix with thousands of attendees on a junket from work. You can expect to be among serious, dedicated IT professionals looking to expand their knowledge base,

further their careers and add value to their organizations. Think of it like a collegiate experience that promotes learning. It's a big reason 90% of our attendees say they'd attend another XML Web Services One conference.

6 One-on-One Consulting.
Know of an expert you'd like to spend some time with? No prima donnas here! Our expert presenters make themselves available between courses, at lunch, and during the receptions - your chance to get answers to specific questions.

7 Peer Networking.
Often the best insight comes from conversations with peers from other companies. Through receptions and special events, XML Web Services One provides time and space for you to learn from each other.

8 Product Access.
Featuring the top Web services development tools from all the top vendors, the XML Web Services One exhibit hall will be an interactive playground for you to find solutions to your development challenges.

9 Affordable Value.
You can benefit from the full XML Web Services One experience for less than $350* per day. That's a price your manager or training department will respond favorably to.

10 Free Stuff!
Attendees at XML Web Services One not only walk away better equipped to do their job, they also walk away with a conference tote bag, course notes for all sessions attended, a conference T-shirt, plus a chance to win books, T-shirts, and more during the Exhibit Hall raffle.

*Based on purchase of the early bird Gold package with an alumni, co-sponsor or readership discount.

FAQ's

In an effort to answer your questions about the conference, we have developed a comprehensive FAQ section on the XML Web Services One Web site at www.xmlconference.com/santaclara. The following FAQs will answer some of your key questions as you navigate this brochure.

1. How can I network with peers who have similar interests?
Be a part of pre-conference networking with paid delegates by checking the "Networking" box when you register. It's a great, new way to meet other delegates and make networking plans before you get to Santa Clara. We'll send out an e-mail with contact information about a week before the conference.

2. What meals are included with registration?
A selection of danish or a light pastry will be available before courses begin in the morning. Additionally, the hotel has a Starbucks Coffee bar in the lobby area for your convenience. For all paid delegates, lunch is provided each day.

3. Where can I find things to do in Santa Clara?
Visit this Santa Clara Web site: http://www.santaclara.org/. There are links to local attractions and restaurants.

4. Will there be Internet access in my hotel room?
Yes, all rooms feature a telephone with message light, voice mail, and data ports. Additionally, an e-Mail Café is available for all delegates.

5. Do you accept Purchase Orders?
If you would like to use a Purchase Order to register, please contact Dena Fisher, Conference Services Coordinator at 1-800-280-6218 or 1-541-346-3537 to make arrangements.

6. Where can I request a receipt?
You will receive an official receipt on your badge when you check in onsite at the conference. However, If you need a receipt before you arrive onsite, you may request one by writing to xmlreg@oregon.uoregon.edu or by calling the registration office at 1-800-280-6218. Receipts are processed weekly.

CONFERENCE-AT-A-GLANCE

Monday, March 3

	Practical XML Standards	Component-Based Enterprise Architectures	Web Services Implementation Issues	.NET Programming and Development	Programming for the Front End
8:30 - 11:30am	**M1** Fundamental XML for Developers p.10 *Tim Chester*	**M2** Let the Data Be Free – Building Blocks for XML Middleware p.10 *Frank Coyle*	**M3** An Introduction to Web Services p.10 *Anne Thomas Manes*	**8:30 - 4:15pm** **M4** A Day of .NET Web Services - Hands-on p.10 *Aaron Skonnard*	**8:30 - 4:15pm** **M5** Practical Transformations Using XSLT & XPath - Hands-on p.11 *G. Ken Holman*
11:30am - 1:00pm	Luncheon Panel: "Web Services – Taming the Monster" – Moderated by Tony Baer, President, Demand Strategies and Columnist, *Application Development Trends Magazine*				
1:15 - 4:15pm	**M6** XML Standards - A Management Overview p.11 *JP Morgenthal*	**M7** Orchestration - The Killer Application for the Enterprise p.11 *Kevin Dick*	**M8** A Practical Guide to Web Services p.11 *Anne Thomas Manes*		
4:30 - 5:15pm	Sponsored Keynote: Don Box, Architect, Microsoft				
6:00 - 7:30pm **Night School**	**M9** Web Services Integration Realities - Lessons Learned p.12 *David Orchard*		**M10** Understanding SOAP & WSDL p.12 *Tim Ewald*		**M11** Dynamic Web Interfaces Using SVG p.12 *Paul Freeman*

Tuesday, March 4

	Practical XML Standards	.NET Programming & Development	Web Services Implementation Issues	Component-Based Enterprise Architectures	Programming for the Front End	OASIS Special Program
8:30 - 10:30am	**T1** Synchronous and Asynchronous Messaging Standards for Web Services p.12 *David Orchard*	**T2** XML Programming with System.Xml p.12 *Martin Gudgin*	**T3** Web Services Security Standards Overview p.13 *Maryann Hondo*	**T4** Practical Uses for RDF in the Enterprise p.13 *J.P. Morgenthal*	**T5** XForms – The Next Generation of Web Forms p.13 *Mark Seamans*	**8:00 - 10:30am** **T6a** OASIS One-Day Forum on Web Services Standards, Part 1 p.13
10:45am - 12:00pm	Conference Welcome: Mike Bucken, Editor-in-Chief, *Application Development Trends Magazine* & Technical Chair, XML Web Services One Opening Keynote: "The Grid as a Singularity" – Graham Glass, CTO, The Mind Electric					
2:30 - 3:15pm **CASE STUDIES**	**T7** XBRL Implementations p.13 *Liv Watson*	**T8** Programming with the Microsoft WSDK p.14 *Martin Gudgin*	**T9** Web Services-based Integration in the Healthcare Industry p.14 *Jim Bole & Mike Reagin*	**T10** Moving from Legacy to a Service Oriented Architecture p.14 *Tim Chester*	**T11** One Solution Fits All: Building Web Services to Last p.14 *Robert Groat*	**2:00 - 5:30pm** **T6b** OASIS One-Day Forum on Web Services Standards, Part 2 p.13
3:30 - 5:30pm	**T12** XML Standards for Privacy and Personal Information p.15 *Ron Schmelzer*	**T13** ASMX Drill Down p.15 *Tim Ewald*	**T14** Java, .NET, and PERL - Web Services Interoperability p.15 *Tim Chester*	**T15** Leveraging Reuse with XML Schemas p.15 *James Bean*	**T16** Web Services Reanimated - Bringing Web Services to Life with XML GUIs p.16 *Paul Freeman*	
5:45 - 6:30pm	Keynote: Patrick Gannon, President & CEO, OASIS					

Events		
12:00 - 7:30pm	Exhibit Hall Open
12:30pm	Delegate Lunch in Exhibit Hall
6:30 - 7:30pm	Exhibit Hall Reception

Wednesday, March 5

	Practical XML Standards	Java Programming & Development	.NET Programming and Development	Web Services Implementation Issues	Distributed Computing & Web Services Future
8:30 - 10:30am	**W1** XQuery Language & Usage p.16 *Dragan Sretenovic*	**W2** Java Meets XML and Web Services – Exploring the APIs of the Java XML Pack p.16 *Frank Coyle*	**W3** Web Services Beyond ASMX p.16 *Tim Ewald*	**W4** Effective SOAP – Leveraging the SOAP Messaging Model p.17 *Don Box*	**W5** Metadata in XML and Web Services p.17 *Uche Ogbuji*
10:45 - 11:45am	**Sponsored Keynote: IBM**				
2:00 - 2:45pm **CASE STUDIES**	**W6** XML in Life Sciences p.17 *Tim Matthews*	**W7** A Java-Based Web Sphere Implementation of the Web Services Integration Demonstration p.17 *Andre Tost & Tony Hong*	**W8** .NET Web Services Implementation in the Enterprise p.17 *TBD*	**W9** SymetryPro: Secure, Always-on Email for Wireless PDAs Using Web Services p.18 *K. Scott Morrison*	**W10** Building a Web Services Management Infrastructure p.18 *Ed Horst*
	Sponsored Keynote: William Ruh, Sr. Vice President, Professional Services, Software AG				
3:30 - 4:15pm					
4:30 - 6:30pm	**W11** Overview of Security Assertion Markup Language (SAML) and Liberty p.18 *Eve Maler*	**W12** Creating Web Services for Java Developers p.18 *Anne Thomas Manes*	**W13** .NET Futures – What's Next? p.18 *Don Box*	**W14** Web & Grid Services – LIVE! p.19 *Graham Glass*	**W15** P2P and Web Services with JXTA p.19 *Dwight Deugo*
7:30 - 9:00pm Night School	**W16** Web Services Management & Reliability Standards p.19 *Mukund Balasubramanian*	**W17** Performance and Scalability Bottlenecks in J2EE Applications p.19 *Ed Lycklama*		**W18** Building Secure Web Services Today p.20 *K. Scott Morrison*	
	Events	8:30 -5:00pm IBM Developer Day (times subject to change) 11:45am – 3:30pm Exhibit Hall Open 12:00pm Delegate Lunch in Exhibit Hall			

Thursday, March 6

	Java Programming & Development	Component-Based Enterprise Architectures	Web Services Implementation Issues	Distributed Computing & Web Services Future	Programming for the Front End
8:00 - 11:00am	**Th1** Using and Extending Eclipse – Building Tools for Web Services and Other Development Support p.20 *Dwight Deugo*	**Th2** Service Oriented Architectures for the Enterprise p.20 *Peter Herzum*	**Th3** Web Services Discovery Mechanisms p.20 *Toufic Boubez*	**Th4** XML Magic with Semantic Web Services and Agents p.21 *Dragan Sretenovic*	**8:00am – 3:30pm** **Th5** Practical Formatting Using XSL-FO – Hands-on p.21 *G. Ken Holman*
11:30am - 12:15pm	**Luncheon Panel: "The Future of the Web" – Moderated by Uche Ogbuji, Co-Founder & CEO, FourThought Consulting**				
12:30 - 3:30pm	**Th6** J2EE, Sun, & Web Services p.21 *Peter Herzum*	**Th7** XML and Web Services – Getting Value from Stuff You Don't Own p.21 *Brian Travis & Mae Ozkan*		**Th8** Service Oriented Integration p.22 *David Chappell*	**Th9** Service Oriented Grid Computing p.22 *Graham Glass*

SIGS/101 reserves the right to make changes in the program and speakers, or to cancel sessions if enrollment criteria are not met or when conditions beyond our control prevail.

WEB SERVICES IMPLEMENTATION ISSUES

**Toufic Boubez, CTO, Layer 7 Technologies
Track Chair**

Web services technologies have moved quickly through the usual new technology stages. Though the hype phase continues, companies are already starting to use and deploy Web services inside and outside the firewall. As the technology goes mainstream, two ingredients are critical to survival – interoperability standards and development and deployment tools. Fortunately, tools companies large and small are rushing to produce new tools and IDEs for Web services or modify their existing tools and IDEs to support Web services. Unfortunately, these developers also have to keep up with constantly changing and multiplying interoperability standards, and a lack of expertise on best practices. This track explores Web services implementation issues for developers, architects or managers. Sessions will look at a variety of standards and tools that can be used to implement real world Web services.

Monday	Tuesday	Wednesday	Thursday
An Introduction to Web Services –p.10	Web Services Security Standards Overview –p.13	Effective SOAP – Leveraging the SOAP Messaging Model –p.17	Web Services Discovery Mechanisms –p.20
A Practical Guide to Web Services –p.11	Web Services-based Integration in the Healthcare Industry –p.14	SymetryPro: Secure, Always-on Email for Wireless PDAs Using Web Services –p.18	Service Oriented Integration –p.22
Understanding SOAP & WSDL –p.12	Java, .NET, and PERL – Web Services Interoperability –p.15	Web & Grid Services - LIVE! –p.19	
		Building Secure Web Services Today –p.20	

JAVA PROGRAMMING & DEVELOPMENT

**Dwight Deugo, Associate Professor,
Carleton University
Track Chair**

The need to access information from anywhere at anytime on any device has created new demands and problems for Java developers. Since its 1995 unveiling, Java has broadened to offer more options and API's. This track examines key technologies that can be used to build Web services using the Java platform, and the issues those technologies pose for programmers. Courses examine Web services architectures, frameworks, performance issues, discussion of technologies like J2EE, the use of Java and XML, the best use of protocols, APIs, tools, specialized projects such as JXTA, and a look at the future of Java.

Wednesday	Thursday
Java Meets XML and Web Services – Exploring the APIs of the Java XML Pack –p.16	Using and Extending Eclipse – Building Tools for Web Services and Other Development Support –p.20
A Java-based Web Sphere Implementation of the Web Services Integration Demonstration –p.17	J2EE, Sun, & Web Services –p.21
Creating Web Services for Java Developers –p.18	
Performance and Scalability Bottlenecks in J2EE Applications –p.19	

COMPONENT-BASED ENTERPRISE ARCHITECTURES

**Kevin Dick, President, Kevin Dick Associates
Track Chair**

Enterprises can reduce costs and increase capabilities by more easily leveraging existing software assets and more quickly creating new ones. The first steps call for making existing systems available as components and building new ones within a component framework. This track examines options for planning, designing, and implementing successful component architectures using XML and Web services. Topics include: using Web services for application integration; how standards facilitate reuse; and how to leverage components managed by other organizations. Advanced topics include designing service-oriented architectures, and orchestrating Web services components.

Monday	Tuesday	Thursday
Let the Data Be Free – Building Blocks for XML Middleware –p.10	Practical Uses for RDF in the Enterprise –p.13	Service Oriented Architecture for the Enterprise –p.20
Orchestration – The Killer Applications for the Enterprise –p.11	Moving from Legacy to a Service Oriented Architecture –p.14	XML and Web Services – Getting Value From Stuff You Don't Own –p.21
Web Services Integration Realities – Lessons Learned –p.12	Leveraging Reuse with XML Schemas –p.15	

.NET PROGRAMMING & DEVELOPMENT

**Don Box, Architect, Microsoft
Track Chair**

This track takes a behind the scenes at Microsoft's .NET framework with an insider's look at state of the art XML Web service-related infrastructure. Sessions examine .NET support for mainstream XML specifications (XML 1.0, XPath, XSLT, XML Schema), ASMX, as well as the evolving Web service-related technologies (SOAP, WSDL, UDDI, etc.). The track focuses on practical approaches for building Web services in .NET today through transparent mappings (such as objects/proxies) and through pure XML messaging techniques.

Monday	Tuesday	Wednesday
A Day of .NET Web Services – Hands-on –p.10	XML Programming with System.Xml –p.12	Web Services Beyond ASMX –p.16
	Programming with the Microsoft WSDK –p.14	.NET Web Services Implementation in the Enterprise –p.17
	ASMX Drill Down –p.15	.NET Futures – What's Next –p.18

PROGRAMMING FOR THE FRONT-END

**Uche Ogbuji, Co-Founder & CEO ,
FourThought Consulting
Track Chair**

With the spread of XML and Web services through corporate development operations, development teams need systems and interfaces that let developers and non-technical users manipulate and manage the resulting material. Sessions in this track will examine tools and technologies for building front-end tiers of XML systems and Web services, and will focus on practicality and open standards. Topics include forms, XSLT for rendering content into multiple formats, XML formatting objects for print-ready rendering; XML support in browsers; and XML-based graphics.

Monday	Tuesday	Thursday
Practical Transformations Using XSLT & XPath – Hands-on –p.11	XForms – The Next Generation of Web Forms –p.13	Practical Formatting Using XSLFO – Hands-on –p.21
Dynamic Web Interfaces Using SVG –p.12	One Solution Fits All: Building Web Services to Last –p.14	
	Web Services Reanimated – Bringing Web Services to Life with XML GUIs –p.16	

PRACTICAL XML STANDARDS

**Ron Schmelzer, Founder,
CEO & Chief Architect, ZapThink
Track Chair**

XML and Web services are rapidly maturing from conceptual, pilot implementations to real-world, mission-critical applications. The standards that power the various implementations will also evolve. Courses in this track, aimed at developers and managers involved in technology integration, examine the status of key horizontal and vertical XML and Web services standards in major industry sectors such as Financial Services and Life Sciences and explore key enabling standards being developed by established bodies like the OMG, OASIS, and the W3C. Speakers will provide insight into how various XML specifications are making Web services a secure, manageable, and reliable technology. Future directions of existing key standards and other standards that may develop in the very near future will also be identified.

Monday	Tuesday	Wednesday
Fundamental XML for Developers –p.10	Synchronous and Asynchronous Messaging Standards Web Services –p.12	XQuery Language & Usage –p.16
XML Standards – A Management Overview –p.11	XBRL Implementations –p.13	XML in Life Sciences –p.17
	XML Standards for Privacy and Personal Information –p.15	Overview of Security Assertion Markup Language (SAML) and Liberty –p.18
		Web Services Management & Reliability Standards –p.19

DISTRIBUTED COMPUTING AND WEB SERVICES FUTURE

**Graham Glass, Founder & CEO,
The Mind Electric
Track Chair**

Will computing soon be viewed as a utility, similar to the electric and cable TV industries? Though today's Web is designed for humans, technology is slowly adding the ability to facilitate machine-to-machine (M2M) interactions. The next generation Web can be envisioned as a seamless aggregation of various technologies, where the main binding element (or framework) is the concept of Web services. If the eventual goal is to facilitate integration between human and machine tasks via the Web, it's clear that even fundamental issues such as service discovery, orchestration and interoperability, identity and security, must be re-examined. Thus, this track will analyze the semantic Web, software agents, peer-to-peer technologies, grid computing and embedded Web services.

Wednesday	Thursday
Metadata in XML and Web Services –p.17	XML Magic with Semantic Web Services Agents –p.21
Building a Web Services Management Infrastructure –p.18	Service Oriented Grid Computing –p.22
P2P and Web Services with JXTA –p.19	

Early Bird Registration Ends February 7, 2003. Don't miss your change to save $200 off the Gold, Silver or Bronze packages.

" I really like having key movers & shakers in XML & WS here - lends a lot of credibility to the conference.

Tom Heinz, Minnesota Life Insurance Co.

COURSE DESCRIPTIONS

FUNDAMENTAL XML FOR DEVELOPERS

8:30 – 11:30am
M1
*Tim Chester – Senior IT Manager,
Texas A&M University*

The eXtensible Markup Language (XML) has become a defacto global standard for exchanging information. Why all the hoopla? Developers, as well as software vendors, have adopted XML for its inherent open, platform-independent, and vendor neutral aspects. By providing the preparation necessary to fully understand the various XML based standards, this course is for developers new to XML who want to get up to speed quickly or as a refresher course for experienced developers.

The course will cover the basics of XML syntax, and then focus on creating and manipulating XML data using the Document Object Model (DOM) and parsing XML using the Simple API for XML (SAX). We'll also talk about how you can use the power of XSL Transformations (XSLT) to convert XML data between various formats as well as generate HTML representations of data. When you leave this course, you'll have the background knowledge required to appreciate the significance of XML for your enterprise, as well as have the preparation necessary to get the most out of the remaining conference courses on Web services.

Intended Audience: Programmers and managers interested in learning XML basicsand the litany of XML based standards that exist currently.
Prerequisite Knowledge: This course requires an intermediate knowledge of computer programming.

LET THE DATA BE FREE: BUILDING BLOCKS FOR XML MIDDLEWARE

Monday, March 3

8:30 – 11:30am
M2
*Frank Coyle –
Professor, SMU*

In just a short time, XML has changed the face of enterprise computing. From its beginnings as a meta-language for describing data, XML has evolved as a standard not only for creating vocabularies for vertical and horizontal industry wide applications, but as the basis for creating protocols such as XML-RPC and SOAP, that open up new possibilities for building distributed computing and building Web services.

In this course we'll establish a context for understanding the impact of XML in the changing world of enterprise computing. We'll look at how XML and its associated technology family have created new options for doing distributed computing based on the primacy of data over code. We'll also explore the pros and cons of SOAP as a messaging infrastructure for building XML-based middleware and examine how Microsoft's .NET stacks up against J2EE as middleware options for building Web services aware applications.

Intended Audience: Developers and programmers.
Prerequisite Knowledge: Basic understanding of XML.

AN INTRODUCTION TO WEB SERVICES

Monday, March 3

8:30 – 11:30am
M3
*Anne Thomas Manes –
Founder & CEO, Bowlight*

This half-day course provides a high-level, business-oriented introduction to Web services. We start the morning with a definition of Web services and a high-level overview of the core Web services technologies: XML, SOAP, WSDL, and UDDI. Next we explore their uses and benefits. Why have Web services attracted so much attention?

What's so special about this technology? How can Web services help you deliver better applications in less time at significantly lower cost? We explore a number of possible business models that support Web services. We illustrate these discussions using a number of successful case studies. We end the course with a non-partisan discussion of the types of products that you can use to implement Web services.

Intended Audience: Business and technical managers, developers, architects, and programmers – anybody needing an in-depth introduction to Web services technology.

A DAY OF .NET WEB SERVICES – HANDS-ON

Monday, March 3

8:30 – 11:30am & 1:15 – 4:15pm
M4
*Aaron Skonnard – Instructor/Researcher,
DevelopMentor*

.NET provides state-of-the-art tools for building Web services today. This hands-on workshop will walk you through the process of designing and implementing Web services using Visual Studio.NET, ASP.NET, and some of the additional XML and HTTP infrastructure. We'll cover not only how to build Web services but also how to consume them from other .NET applications. In addition, we'll take a peak at Microsoft's Web Services Development Kit (WSDK) and see how it can be used to take advantage of the latest GXA specs.

As a hands-on workshop we'll periodically break for short 30-minute labs to experiment with the current topic. Small exercises and solutions will be provided.

Intended Audience: Programmers and developers.
Prerequisite Knowledge: Familiarity with .NET and basic XML programming.

Bring Your Own Laptop!

You must bring your own laptop with IIS, the .NET framework 1.0, and preferably Visual Studio.NET (not required) installed.

PRACTICAL TRANSFORMATIONS USING XSLT & XPATH – HANDS-ON

Monday, March 3

8:30 – 11:30am & 1:15 – 4:15pm
M5
G. Ken Holman – CTO,
Crane Softwrights

This course overviews the Extensible Stylesheet Language Transformations (XSLT) and the XML Path Language (XPath) W3C Recommendations, used for transforming structured information (e.g. XML to XML, XML to HTML, XML to WML, XML to text, etc.). The objectives of the course are to understand the role and utility of the Recommendations, to overview constructs of the Recommendations, and to design and develop XSLT scripts.

This hands-on course combines the use of lectures and exercises to convey the material.

Please consider also attending the following companion tutorial "Practical Formatting Using XSL-FO" for hands-on experience with all of XSL.

Intended Audience: Markup technology practitioners and their managers.
Prerequisite Knowledge: Markup concepts (eg. HTML, XML) and XML syntax to do the exercises.

Bring Your Own Laptop!

For the practical exercises, attendees are required to bring a personal computer (with a floppy or CD-ROM drive); to prepare ahead of time, see
www.CraneSoftwrights.com/training/ptux/ptuxsyl.htm
for details on how to prepare your machine.

XML STANDARDS – A MANAGEMENT OVERVIEW

Monday, March 3

1:15 – 4:15pm
M6
JP Morgenthal – Chief Services Architect,
Software AG

The family of XML standards are constantly evolving and growing. If you are an IT or line-of-business manager, the impact these standards have on your systems and business will be extensive over the coming years. This 3-hour course intended for managers will be broken up into 3 sections focusing on the following:

• The Impact of XML on the Enterprise: This section will focus on what XML is and what impact it has had on the information community. We will discuss issues for and related to identifying uses for XML, initiating XML projects, and requirements for skills to use XML.

• XML for Integration: This section will focus on the use of XML standards for EAI and B2B, such as SOAP, UDDI, XKMS, XML-DSig, and XML Encryption

• XML for Communications: This section will focus on the use of XML to increase communication of information both internal and external to the Enterprise. This includes XSLT, XQuery, and XML Schema.

Intended Audience: IT managers and line-of-business managers.

ORCHESTRATION – THE KILLER APPLICATION FOR THE ENTERPRISE

Monday, March 3

1:15 – 4:15pm
M7
Kevin Dick – President,
Kevin Dick Associates

By and large, XML messaging and Web services do not enable us to do anything truly new. Rather, they offer lower costs and better flexibility over traditional approaches. However, orchestration technologies may provide the killer application that takes enterprise computing to the next level. Orchestration may enable us to dynamically drive message exchanges so we can directly execute business agreements and integrate Web services without programming. This course will introduce the concept of orchestration, examine the different scenarios for XML messaging, analyze how orchestration improves these scenarios, look at emerging orchestration technologies, and discuss potential issues with successful deployment.

Intended Audience: Intermediate to advanced programmers and architects.
Prerequisite Knowledge: Understanding of XML messaging and Web services architectures.

A PRACTICAL GUIDE TO WEB SERVICES

Monday, March 3

1:15 – 4:15pm
M8
Anne Thomas Manes –
Founder & CEO, Bowlight

This half-day course provides a practical introduction to Web services. It explains how an application works with XML, SOAP, WSDL, and UDDI. The course will start with basic application design issues, focusing on best practices for interface design and service granularity. Then, we discuss advanced topics, such as interoperability, complex datatypes, security, and header processing. We then examine the various Web services APIs available, such as .NET, MS SOAP, and the JAX APIs. The mechanisms used to deploy services, advertise services, discover services, and bind to services will be covered and the course will finish by digging into some code showing both Visual Basic and Java.

Intended Audience: Developers, programmers, and architects.
Prerequisite Knowledge: The preceding course, "An Introduction to Web Services", or familiarity with the basics of Web services.

WEB SERVICE INTEGRATION REALITIES – LESSONS LEARNED

Monday, March 3
6:00 – 7:30pm
M9

David Orchard – Technical Director, Architecture and Standards Group, BEA

The hype about integrating Web services is reaching feverish pitch, exemplified by a mythical headline, "swarms of re-usable self-healing components will fulfill users' every needs". The reality is much different and this talk will explore where and how Web services will and are being used, what the barriers to Web service adoption are, and some key pre-requisites for Web services marketplaces. This course draws on the presenter's experience building a Web services ecosystem, where users and companies are securely provisioned and billed for services as well as customer experiences that have lead to features and standards in Web services products.

Intended Audience: Senior developers and architects.
Prerequisite Knowledge: Programming in XML, Web services, SOAP and WSDL experience.

UNDERSTANDING SOAP & WSDL

Monday, March 3
6:00 – 7:30pm
M10

Tim Ewald – Program Manager, XML & Web Services, Microsoft Developer Network

SOAP is an XML-based messaging protocol. WSDL is an XML-based language for describing the endpoint behavior in terms of XML Schema. Together, SOAP and WSDL are the basis for Web services. This course explores the current state and role of each of these specifications, focusing on their relationship to XML and XSD. It also covers the major theoretical and practical issues that exist with these technologies and how they impact the design and development of interoperable Web services.

Intended Audience: Programmers and developers.
Prerequisite Knowledge: Basic knowledge of XML is helpful.

DYNAMIC WEB INTERFACES USING SVG

Monday, March 3
6:00 – 7:30pm
M11

Paul Freeman – Principal Consultant, Architek, Ltd.

This course introduces Scalable Vector Graphics (SVG), the XML technology for building dynamic visual user interfaces. The vocabulary of SVG is introduced along with the major features of the W3C recommendation, including the 2D vector graphics, text and interactive capabilities. An explanation is given of how SVG relates to other XML and user facing technologies. Tools for generating and browsing SVG are reviewed and demonstrated.

Intended Audience: XML and Java developers.
Prerequisite Knowledge: Basic XML and Java programming.

Tuesday, March 4

SYNCHRONOUS AND ASYNCHRONOUS MESSAGING STANDARDS FOR WEB SERVICES

Tuesday, March 4
8:30 – 10:30am
T1

David Orchard – Technical Director, Architecture and Standards Group, BEA

This course will cover the gamut of current and proposed Web services messaging specifications and standards. The talk starts with a brief (!) overview of the more refined specifications, SOAP and WSDL. Beyond SOAP and WSDL, it's clear that more is needed for Web services. Features like reliable messaging, security, asynchrony, routing, packaging, sessions and quality of service measures are receiving considerable treatment from standards bodies and vendors. This course examines a variety of efforts in extending SOAP to meet these features. Included will be a close examination of the technical aspects, and a comparison where there are overlaps. Some of the efforts related to these topics include W3C Web Services Architecture Working Group, WS-Security, Web Services Routing Protocol, ebXML Messaging Service, SOAP-Conversation and others. Given time constraints, this talk does not address UDDI or workflow descriptions.

XML PROGRAMMING WITH SYSTEM.XML

Tuesday, March 4
8:30 – 10:30am
T2

Martin Gudgin – Web Services Architect, Microsoft

The Microsoft .NET Framework provides support for various XML related W3C specifications, including XML 1.0, Namespaces in XML, XPath 1.0, XSLT 1.0 and XML Schema 1.0. All these specifications are exposed via a host of XML related classes in the System.Xml namespace including tree-based and stream-based parsers, validating and non-validating parsers, serializers, XPath and XSLT support, classes for performing schema processing, and various constructs related to serialization of objects. This course looks at the specifications and the related classes, their functionality, their programming models, their strengths and weaknesses. Where different classes provide similar functionality they will be compared and contrasted. Guidelines will be given as to when to use particular approaches to building XML-based applications.

Intended audience: .NET or XML developers involved in building XML-base application using the Microsoft .NET Framework.
Prerequisite Knowledge: Knowledge of XML and XML name-spaces required.

WEB SERVICES SECURITY STANDARDS OVERVIEW

Tuesday, March 4
8:30 – 10:30am
T3

Maryann Hondo - Web Services Security Standards Lead, IBM

"Security" is a technical term. "Trust" is a business concept based on the correct implementation of security technology. Today's security mechanisms include technology like Kerberos Authentication, SSL/TLS and PKI. What may be the hardest part, creating Trusted Web Services, is yet to come. If Web services are to cross the chasm, they will need to take advantage of XML polices and XML based security mechanisms to provide the appropriate level of security and reliable messaging for a range of services. There is quite a bit of traction for these concepts in the standards bodies, and even some additional complexity with the emergence of competitive efforts like XACML and XRML. This course will give an overview of some of the current efforts and raise some challenges that lie ahead for the mere mortal.

PRACTICAL USES FOR RDF IN THE ENTERPRISE

Tuesday, March 4
8:30 – 10:30am
T4

JP Morgenthal – Chief Services Architect, Software AG

RDF provides a common framework for expressing meta-information in such a way that it can be exchanged between applications. Being a common framework, applications can leverage the consistent design and structure for the expression of metadata and the relationships between this metainformation. Typically, the value of this design is undervalued and misunderstood because of the lack of real-world examples surrounding its use. Attendees to this course will gain insight into RDF and see examples for how it can be used to provide solutions to real business problems.

Intended Audience: Developers and technical managers.
Prerequisite Knowledge: An understanding of XML.

XFORMS - THE NEXT GENERATION OF WEB FORMS

Tuesday, March 4
8:30 – 10:30am
T5

Mark Seamans – CTO, Cardiff Technologies

The World Wide Web Consortium (W3C) recognized the limitations of HTML forms when launching the XForms Working Group with a charter to develop "The Next Generation of Web Forms." The XForms specification is a from-the-ground-up rewrite of familiar HTML forms, with a focus on device independence, accessibility and XML. A key design factor in XForms is strict separation of the form's purpose (embodied in the "XForms Model"), and the presentation (expressed as "XForms User Interface"). Will XForms usher in a new era in dynamic distributed applications for anybody, anywhere on any device? When should your organization start developing with XForms? What tools are available today to get started? For answers to these questions and more, be sure to attend this course.

OASIS ONE-DAY FORUM ON WEB SERVICES STANDARDS

Tuesday, March 4
8:00 – 10:30am   **2:00 – 5:30pm**
T6a   **T6b**

OASIS Officers – Staff, and Technical Committee Members (TBA)

Successful implementation of Web services is dependent on universally accepted standards. The OASIS consortium is the source of a variety of Web services specifications including UDDI, ebXML, SAML, WSRP, WSIA and WS-Security. This Web Services Standards Forum lets you spend a day with the experts and creators of OASIS standards. Get answers on the issues that affect your enterprise's Web services implementations. Plenary sessions and presentations will be followed by a concluding conference-day keynote presentation by Patrick Gannon, President & CEO of OASIS.

The specific group of standards to be covered and course itinerary will be announced shortly. Check the conference website at www.xmlconference.com/santaclara for more details.

Intended Audience: All conference delegates interested in the latest Web Services Standards information

XBRL IMPLEMENTATIONS

Tuesday, March 4
2:30 – 3:15pm   **CASE STUDY**
T7

Liv Watson – Director of XBRL, Edgar Online Inc.

XBRL (eXtensible Business Reporting Language) is one of the most successful XML standards consortiums - helping companies, analysts, investors and other audiences make better informed financial and management decisions. XBRL enables straight through reporting: reducing manual intervention in the movement and aggregation of company financial information to be delivered immediately and without distortion to the desktop of the decision maker who needs it, either within the institution, the capital market, or the regulatory agency.

Learn how XBRL is being adopted and implemented around the world. The objective of this case study is to provide the audience with an overview or XBRL implementations such as FDIC, APRA, and others.

Intended Audience: Business and technical.

> *This conference session [by Peter Herzum] has clarified some open issues within my company in reference to Web services and with further research, will allow Exedem.com Consulting to be better strategically aligned.*
>
> Brendon Urban, CEO, Exedem.com.

COURSE DESCRIPTIONS

PROGRAMMING WITH THE MICROSOFT WSDK

Tuesday, March 4
2:30 – 3:15pm
T8

CASE STUDY

Martin Gudgin – Web Services Architect, Microsoft

The Microsoft Web Services Development Kit provides a .NET-based implementation of various Web service protocols including SOAP, WSDL and WS-Security. In addition it supports routing of SOAP messages via WS-Routing and encapsulation of message payloads via DIME. This course looks at a case study based on the Microsoft WSDK including processing and security considerations.

Intended Audience: Developers and programmers.
Prerequisite Knowledge: XML and XML namespaces required, knowledge of ASMX useful but not required.

WEB SERVICES-BASED INTEGRATION IN THE HEALTHCARE INDUSTRY

Tuesday, March 4
2:30 – 3:15pm
T9

CASE STUDY

Jim Bole – VP Engineering, Infravio
Mike Reagin - Director of Research & Development, Providence Health System

Companies have progressed beyond the experimental stage with Web services and are now using them to tackle critical IT challenges. One of the main areas where Web services are finding success is in application and data integration.

Executives from Infravio and Providence Health System will discuss the implementation of Web services at Providence. Providence, which has more than 32,000 employees and handles more than 1.3 million primary care and 4.2 million outpatient visits per year, has implemented an enterprise-wide Web services strategy for integrating disparate legacy systems and providing real-time access to critical data. Providence's plans include the establishment of a Service-Oriented Architecture (SOA) that can share data among all of its backend systems through Web services standards. These systems include the company's application for managing patient records, its enterprise resource planning (ERP) system, and the Providence Web site.

The case study will discuss the issues Providence faced during the implementation of its Web services architecture, including security, interoperability of services across platforms, logging and the ongoing management of an SOA.

Intended Audience: CIOs, IT directors, architects and developers.
Prerequisite Knowledge: A basic knowledge of the major Web services standards (SOAP, XML, UDDI, WSDL).

MOVING FROM LEGACY TO A SERVICE ORIENTED ARCHITECTURE

Tuesday, March 4
2:30 – 3:15pm
T10

CASE STUDY

Tim Chester – Senior IT Manager, Texas A&M University

The term legacy system typically used to denote aging software applications that are still crucial to an organizations' ability to do business. This case study is about extending legacy systems, and how previous IT investments can be extended to embrace new technologies such as the Internet, the Web, and Web services.

Texas A&M University is a good example of an institution with tremendous investments in aging mainframe based information systems. The task given by management is to extend these systems to the Web, while maximizing the value of previous investments. This case study will focus on the strategy and tools chosen by the project team. The team took a back to the basics approach to software development: n-Tier design and object-based programming. By leveraging XML based messaging & Web services, the project team continues to shift the basic architecture from one based on 3270 Green screens, to one that is oriented around software services, that are used in a plug-n-play fashion across the enterprise.

Intended Audience: Programmers and managers interested in learning how existing legacy systems can be enhanced and extended using Web services.

ONE SOLUTION FITS ALL: BUILDING WEB SERVICES TO LAST

Tuesday, March 4
2:30 – 3:15pm
T11

CASE STUDY

Robert Groat – Chief Products Officer, netDecide

Building a Web service isn't as complicated as it sounds, especially when one realizes that a Web Service is simply a new access channel to enterprise data. netDecide wanted to offer their desktop Wealth Management System, which provides decision making information and advice to financial service firms, as a customized portal across multiple communication channels in order to move beyond the desktop to incorporate field workers. Come to this case study for an opportunity to learn about a real-life implementation of a Web service. Attendees will hear:

- A description of netDecide's personal challenge regarding delivering business-critical data to remote/mobile workers
- About an emerging technology called an interaction server, which netDecide employed to enable them to easily and rapidly build a web services application
- Implementation processes, challenges and end-results
- First-hand reaction to the interaction server, including end-user benefits

Intended Audiences: IT decision makers, software designers, and C-level executives.
Prerequisite Knowledge: A basic knowledge of IT infrastructure and emerging technologies. A basic understanding of industry standards including XML, Java and Web Services standards (ie. SOAP, UDDI) would be helpful.

XML STANDARDS AND FOR PRIVACY AND PERSONAL INFORMATION

Tuesday, March 4
3:30 – 5:30pm
T12

Ron Schmelzer – Founder & Senior Analyst, ZapThink

As XML is increasingly being used for storage and tracking of customer and personal information, a number of key issues rise to the surface: What standards are there for tracking personal and customer information? What standards and specifications are in place for insuring security and privacy of that information? How is that information being shared with other organizations and groups in a secure method? This course explores these topics and dives into some major initiatives and standards in the space including the Platform for Privacy Preferences (P3P), Microsoft Passport, and the Liberty Alliance.

Intended Audience: Business management.
Prerequisite Knowledge: Understanding of XML.

ASMX DRILL DOWN

Tuesday, March 4
3:30 – 5:30pm
T13

Tim Ewald – Program Manager, XML & Web Services, Microsoft Developer Network

ASP.NET provides an infrastructure for building Web services by mapping SOAP messages to method calls. Commonly called ASMX or WebMethods, this technology is central to the .NET distributed application story. This course drills into the ASMX plumbing, showing you how it really works and the things you need to know to use it effectively. Covering topics ranging from how parameters are marshaled to how WSDL generation can be extended, this is a must attend course for anyone working with this technology!

Intended Audience: Programmers and developers working with Microsoft .NET
Prerequisite Knowledge: Basic knowledge of Web services and ASMX is assumed.

For complete course descriptions please visit: www.xmlconference.com/santaclara

JAVA, .NET, AND PERL – WEB SERVICES INTEROPERABILITY

Tuesday, March 4
3:30 – 5:30pm
T14

Tim Chester - Senior IT Manager, Texas A&M University

For too long software developers have been given a false choice: Java, Microsoft, and the open standard tool of choice: PERL. With the widespread adoption of the W3C SOAP and WSDL standards developers can choose to leverage Sun's J2EE and Microsoft's .NET Framework, as well as the PERL language within diverse computing environments. While this type of cross-platform interoperability has been promised many times in the past, Web services actually delivers.

In this course you will learn how these three environments can work together by building several Java, PERL, and C# Web Services that provide access to a backend data source and then consuming these services from different client platforms. From Microsoft we'll use Internet Information Server (IIS), and Microsoft's new programming language: C#. On the Java and PERL sides, we'll use the Apache Web Server, the Tomcat Java Servlet Engine, and the SOAP:Lite PERL module. Delegates will see how a Java Server Page (JSP) uses a .NET Web Service to access database logic, discover how a traditional Windows Application can make calls directly against java classes, and see how PERL CGI scripts can do both. The course will conclude by looking at how diverse computing environments can benefit from the interoperability and extensibility of Web services.

Intended Audience: Programmers interested in learning how Java and Microsoft's .NET platform can be used together to create cross-platform software applications.
Prerequisite Knowledge: Requires intermediate programming skills, familiarity with object oriented programming with C#, PERL, or Java.

LEVERAGING REUSE WITH XML SCHEMAS

Tuesday, March 4
3:30 – 5:30pm
T15

James Bean – President & CEO, The Relational Logistics Group

The W3C XML Schemas Recommendation has opened to door for rigorous application of XML as a metadata form for transactions, messages, and documents. XML Schemas also present tremendous potential to incorporate formalized reuse techniques and methods. Reuse can be as simple as defining global simpleTypes, that can be reused and referenced by other containers within the schema. Reuse can also be as complex as engineering component XML Schemas that are reused by external reference (include, import, redefine). This course will guide the audience through different approaches to reuse with XML, and will include discussion of several data standards examples.

Intended Audience: Web architect, Web site designer, database analyst, data administrator, any technologist interested in transaction and data oriented XML schemas with a focus on reuse.
Prerequisite Knowledge: Novice to intermediate experience with constructing XML Schemas.

WEB SERVICES REANIMATED - BRINGING WEB SERVICES TO LIFE WITH XML GUIS

Tuesday, March 4
3:30 – 5:30pm
T16

Paul Freeman – Principal Consultant, Architek, LTD

The Web services domain is largely about providing services to middleware integration layers. This course takes a slightly different tack and considers the value that may lie in allowing front-end applications to talk directly to Web services. Possible simple applications are testing, demonstrating and selling Web services.

The course introduces the Web service "stack" looking at SOAP, WSDL and UDDI. It then goes on to show how XML GUI approaches such as XSLT, Xforms and XUL could be used rapidly enable clients to access Web services.

Intended Audience: Web service developers and architects.
Prerequisite Knowledge: Basic XML and Java programming.

Wednesday, March 5

XQUERY LANGUAGE & USAGE

Wednesday, March 5
8:30 – 10:30am
W1

Dragan Sretenovic - Senior Software Engineer, Okidata

XQuery is a clear winner! It is a new functional language from W3C for querying XML data and documents from any source, including files, databases or Web pages. It has a simple SQL-like syntax, uses XPath 2.0 that is shared with XSLT 2.0, and, above all, it is already supported by many tools - from major database and XML vendors to open-source projects.

This course will systematically describe features of the language, and demonstrate some of them on working examples. Attendees will learn syntax and semantics of XPath 2.0, operators and functions, and famous XQuery "FLoWeR" expressions. We will explore current XQuery implementations, and compare with other options for querying XML.

Intended Audience: Developers.
Prerequisite Knowledge: Intermediate XML and SQL.

JAVA MEETS XML AND WEB SERVICES - EXPLORING THE APIS OF THE JAVA XML PACK

Wednesday, March 5
8:30 – 10:30am
W2

Frank Coyle - Professor, SMU

Java and XML are a natural match for creating applications that leverage the new world of data-centric, XML-based, Web services applications.

In this course we'll explore the Java XML Pack – a collection of Java APIs for working with XML and Web services. At the heart of the Java XML Pack is JAXP, the Java API for XML Processing. The JAXP explorations will include a look at processing XML documents using DOM, SAX, and XSLT. We'll examine code examples that point up the differences between the SAX and DOM APIs and look at how JAXP supports the transformation of XML documents using XSLT.

The exploration of the Java XML Pack will continue as we look at several APIs that have found their way into the latest J2EE 1.4 release. These include: JAXM, the Java API for XML Messaging, a critical protocol for sending and receiving XML-based SOAP message; JAXR, the Java API for Registries, for working with either UDDI or ebXML registries, and JAX-RPC which enables Java developers to build applications and services that incorporate remote procedure calls (RPCs) which are fundamental to the heterogeneity inherent in Web services.

Attendees will come away with an overview of how Java can be used to work with XML and Web services and how the Java XML Pack may be used to in building a new breed of applications that leverage Java's portable code with XML's portable data.

Intended Audience: Developers and programmers.
Prerequisite Knowledge: Basic understanding of XML

WEB SERVICES BEYOND ASMX

Wednesday, March 5
8:30 – 10:30am
W3

Tim Ewald - Program Manager, XML & Web Services, Microsoft Developer Network

While ASP.NET's ASMX-based infrastructure is the norm for people building Web services in .NET, it is not the only solution. This course presents alternative possibilities, including .NET Remoting, the WSDK, and various "roll your own" techniques. Special attention is given to approaches that preserve the XML-ness inherent in SOAP and expose it as part of the Web service programming model.

Intended Audience: Programmers and developers working with Microsoft .NET.
Prerequisite Knowledge: Basic knowledge of Web services and the ASMX infrastructure is assumed.

EFFECTIVE SOAP – LEVERAGING THE SOAP MESSAGING MODEL

Wednesday, March 5
8:30 – 10:30am
W4

Don Box – Architect, Microsoft

This course provides an overview of the design issues that influence SOAP-based applications. It will begin by looking at individual message design issues and rapidly segue towards the impact of message exchange patterns and transport. Topics to be addressed include designing for intermediaries, header vs. body choices, modularity/granularity in message schema, the impact of security on message design, schema extensibility and evolution, and judicious use of the SOAP encoding model. This course will drill into the deeper issues in SOAP-based designs. To that end, attendees are expected to know that round-trips are bad and that course-grained message exchange patterns are the norm.

METADATA IN XML AND WEB SERVICES

Wednesday, March 5
8:30 – 10:30am
W5

Uche Ogbuji – Co-Founder & CEO, FourThought Consulting

Metadata is the information that connects data to processing. As XML has revolutionized data, a quiet revolution is emerging in metadata. RDF is a rich description mechanism for metadata that is especially useful for XML and Web services technologies. By standardizing a means for formal descriptions, it allows tools to operate across a wide variety of XML and Web services systems. This course uses numerous examples to demonstrate the actual and potential role of RDF in XML and Web services.

Intended Audience: Intermediate to advanced XML and Web services developers.
Prerequisite Knowledge: SOAP and WSDL.

XML IN LIFE SCIENCES

Wednesday, March 5
2:00 – 2:45pm
W6

CASE STUDY

Tim Matthews - President & Co-Founder, Ipedo

The importance of XML-based information in healthcare and the Biotech industries has grown tremendously over the last two years, from R&D to clinical trials to manufacturing. Life science companies today, are required to transfer and share huge quantities of information among the myriad of researchers and partners involved in the product development life cycle. The future of the life sciences market will be influenced by how well companies acquire, share, and apply knowledge to exploit the wealth of new opportunities while minimizing the deluge of new risks and costs.

This session will provide a case study of how one life sciences company is implementing XML for competitive advantage. It will also discuss how XML Management technology was used to provides scientists and analytic applications with the ability to efficiently search and analyze the data using sophisticated queries.

A JAVA-BASED WEB SPHERE IMPLEMENTATION OF THE WEB SERVICES INTEGRATION DEMONSTRATION

Wednesday, March 5
2:00 – 2:45pm
W7

CASE STUDY

Andre Tost – Advisory Software Engineer, IBM Software Group & Tony Hong – Founder, XMethods

In this case study, we will have a look at the Web Services Integration Demo (WSID) that will be presented in the XML Web Services One exhibit hall and has been seen at the conference for the past year. It was created through coordination and efforts of Xmethods and some of the major Web services vendors in order to demonstrate interoperability in a Web services scenario that includes all of their implementations. More specific information about the WSID at the conference can be found on page 4 of this brochure.

The course will describe:

- How the IBM part of this scenario was implemented, including lessons learned when interoperating with other web services platforms.

- How the WS-I.org Basic Profile work makes it easier to build scenarios that span heterogeneous systems, by defining the base rules that should be followed by each Web service provider.

- What this WebSphere implementation means to the J2EE developer including the tools and standards within J2EE that will make interoperability work.

The course will conclude with a demonstration of the live system, followed by a Q&A session.

Intended Audience: Developers and managers interested in interoperability and/or achieving interoperability with J2EE.
Prerequisite Knowledge: Some familiarity with Web services standards and Java programming is helpful, but not required.

.NET WEB SERVICES IMPLEMENTATION IN THE ENTERPRISE

Wednesday, March 5
2:00 – 2:45pm
W8

CASE STUDY

Course Abstract and Speaker – TBA

Please visit the XML Web Services One conference website at www.XMLConference.com/SantaClara for more information on this course.

COURSE DESCRIPTIONS

SYMETRYPRO: SECURE, ALWAYS-ON EMAIL FOR WIRELESS PDAS USING WEB SERVICES

Wednesday, March 5
2:00 – 2:45pm
W9

CASE STUDY

K. Scott Morrison – Director of Architecture,
Layer7 Technologies

Although Web services first showed promise in the B2B space, the technology is now beginning to appear in a much broader range of applications. One of these is the wireless consumer space. In this case study, you will see how Infowave Software used Web services to build SymmetryPro, its always-on, wireless email system for PocketPC and Palm OS devices. This solution faced some interesting challenges. It had to provide effective, end-to-end security between a corporate mail server and a wireless device. It also needed an intermediate relay server to provide message caching for devices that are turned off, or are out of wireless coverage. And of course, implementing Web services on a resource-constrained PDA is always a challenge. Scott Morrison, former Director of Architecture at Infowave Software goes through what worked and what did not as the company developed this product.

Intended Audience: Developers, architects,
and development managers.

BUILDING A WEB SERVICES MANAGEMENT INFRASTRUCTURE

Wednesday, March 5
2:00 - 2:45pm
W10

CASE STUDY

Ed Horst - Vice President of Product Strategy, AmberPoint, Inc.

Come to this case study presentation to see an example of a prominent North American energy company's use of Web services management. In evolving from early use of XML to adoption of a Web services-based system, the company designed an integrated set of core Web services that its IT departments could use to build business-specific Web services. Critical to this infrastructure are a number of key management services, including reporting, notification, security, measurement, monitoring and logging. This presentation will cover the company's evolution to Web services, the business and technology challenges it discovered as it moved from proof of concept to pilot to production systems, and how it uses a management infrastructure to streamline the development and deployment of trustworthy Web services applications.

Intended Audience: Developers, architects, managers,
and IT professionals.
Prerequisite Knowledge: A basic understanding
of Web services concepts.

OVERVIEW OF SECURITY ASSERTION MARKUP LANGUAGE (SAML) AND LIBERTY

Wednesday, March 5
4:30 – 6:30pm
W11

Eve Maler - XML Standards Architect, XML Web
Services Group, Sun Microsystems

This course will provide a technical overview of SAML 1.0, the XML-based Security Assertion Markup Language standard from OASIS. It will discuss how SAML enables security scenarios such as Single Sign-On and the securing of Web service message traffic. This course will also provide an overview of Liberty 1.0, a set of specifications built on top of SAML for the federated management and use of online identities.

Intended Audience: Technically knowledgeable IT professionals
and managers.
Prerequisite Knowledge: Doesn't assume any special security
knowledge, but the audience should be able to read XML and have
some familiarity with authentication and authorization concepts.

CREATING WEB SERVICES FOR JAVA DEVELOPERS

Wednesday, March 5
4:30 – 6:00pm
W12

Anne Thomas Manes – CEO & Founder, Bowlight

Using live demonstrations and real-world examples, we'll show how to create a simple Web services in 30 minutes. Attendees will leave having an introductory understanding of the technologies and standards that underpin Web services, and a practical grasp of how to create, deploy and manage Web services in the Java environment.

Intended Audience: Java developers who want a quick but
thorough introduction to Web service creation.
Prerequisite Knowledge: Familiarity with Java/J2EE and XML.
No understanding of Web services is assumed.

.NET FUTURES – WHAT'S NEXT?

Wednesday, March 5
4:30 – 6:30pm
W13

Don Box – Architect, Microsoft

.NET has its essential foundation in SOAP, UDDI and WSDL. The next step in the development of the platform is to extend it to secure, reliable transacted messaging. When the messaging layer has those characteristics, the next wave of applications will take shape. Companies are using Web services – it is a reality today. Come to this course to explore the future of .NET Web Services and application development and programming on the Microsoft .NET platform.

Intended Audience: Developers and IT professionals interested in
the future of development application and software development
with the .NET platform.
Prerequisite Knowledge: Some familiarity in programming with
.NET would be helpful.

WEB & GRID SERVICES – LIVE!

Wednesday, March 5
4:30 – 6:30pm
W14

Graham Glass – CTO, The Mind Electric

This 2-hour Web services course covers all of the information and skills necessary to create your first Web services application and then goes on to provide a live demonstration of Grid services technology in action. After a brief review of the core Web services standards, including SOAP, WSDL, and UDDI, the audience will be led through the creation of a Web services application. The instructor will provide code samples and provide a live demonstration of each step in the creation of the application.

The course ends with a discussion of where Web services are heading and how they will affect the way that future systems are designed, namely Grid Services. A simple distributed application is built using Web services and grid technology, demonstrating state-of-the-art clustering, failover, monitoring, smart message routing, and other Web services management features. This discussion emphasizes the difference between grid architectures and traditional application server configurations, as well as the benefits of the grid approach.

Intended Audience: Developers who are interested in learning how to build a system using Web services.
Prerequisite Knowledge: Basic working knowledge of Java and XML.

P2P AND WEB SERVICES WITH JXTA

Wednesday, March 5
4:30 – 6:30pm
W15

Dwight Deugo – Associate Professor, Carleton University

In this course, we discuss the convergence between Web services and P2P computing using JXTA. We start with a discussion on P2P computing and the important features of a P2P application. We will then look at the convergence between P2P computing and Web services. Finally, we will examine Sun's JXTA technology, which is a set of open protocols that allow any connected device on the network ranging from cell phones and wireless PDAs to PCs and servers to communicate and collaborate in a P2P manner, and how JXTA enables one to build P2P applications and Web services.

Intended Audience: Developers, architects and technical managers.
Prerequisite Knowledge: Java or Object-Oriented concepts.

Early Bird Registration ends February 7, 2003. Don't miss your change to save $200 off the Gold, Silver or Bronze packages.

WEB SERVICES MANAGEMENT & RELIABILITY STANDARDS

Wednesday, March 5
7:30 – 9:00pm
W16

Mukund Balasubramanian – CTO & CoFounder, Infravio

As Web services standards have matured, organizations are increasingly employing Web services in business-critical operations. In this course, Balasubramanian will review the standards that are critical to making Web services reliable for enterprise-class applications. Attendees will hear a review of the relevant Web services standards for management, orchestration, workflow, transactions, etc. In particular, the course will explore the standards in terms of how well they help to ensure the reliability of a service oriented architecture.

Balasubramanian will address questions including the following: What are the key challenges in managing and maintaining a service oriented architecture? Beyond adhering to standards, what else needs to be done to ensure service reliability? Do third-party solutions for "Web Services management" add value to a service-oriented architecture?

By reviewing these questions and asking them within their own organization, attendees will be able to implement Web services with confidence in their reliability in business-critical situations.

Intended Audience: CIOs, IT directors, architects and developers.
Prerequisite Knowledge: A basic knowledge of the major Web services standards (SOAP, XML, UDDI, WSDL).

PERFORMANCE AND SCALABILITY BOTTLENECKS IN J2EE APPLICATIONS

Wednesday, March 5
7:30 – 9:00pm
W17

Ed Lycklama – CTO & Co-Founder, Sitraka

The J2EE platform is quickly emerging as a standard for building enterprise applications. Although the platform has been designed to support high-performance applications, many organizations are discovering that their applications are failing to meet agreed upon performance criteria. This course addresses the common causes of performance problems in J2EE applications. Beginning with a discussion of the differences between performance and scalability, this presentation separately discusses both types of problems in J2EE applications, illustrated with some common real-world scenarios. We will also show how these types of problems can be detected and diagnosed in both a load-testing and production environment.

In this course, delegates will see:

• Common causes of performance problems in J2EE applications

• The differences between performance and scalability and how they can be detected

• Real world scenarios

BUILDING SECURE WEB SERVICES TODAY

Wednesday, March 5
7:30 – 9:00pm
W18

K. Scott Morrison – Director of Architecture,
Layer-7 Technologies

Over the last year, we have seen government and the private sector settle on Web services as a strategy for distributed computing. But now it's time to implement, and the missing pieces in the Web services puzzle are becoming glaringly obvious. The most critical of these is security. Despite the progress made by standards committees and tools vendors, building secure Web services remains a great challenge. So what are your options if you have to build secure services using the technology available right now? To answer this, we will first look to the key security standards, including WS-Security, SAML, and XKMS. We will examine where these are today, what each standard is missing, and what the future holds. Then we will explore the best practices for building secure, but standards-compliant services right now, using both open source and commercial tools.

Intended Audience: Developers and architects.
Prerequisite Knowledge: Knowledge of Web services using Java.

Thursday, March 6

USING AND EXTENDING ECLIPSE – BUILDING TOOLS FOR WEB SERVICES AND OTHER DEVELOPMENT SUPPORT

Thursday, March 6
8:00 – 11:00am
TH1
Dwight Deugo – Associate Professor,
Carleton University

Backed by IBM, the Eclipse project has created and delivered The Eclipse Platform, "an IDE for anything, and for nothing in particular", and formed the eclipse.org consortium to deliver new-era application development tools. Over 150 companies, including industry leaders including Borland, IBM, Merant, QNX Software Systems, Rational Software, RedHat, SuSE, TogetherSoft, and WebGain back the project. In this course, we will describe how to use, but more importantly how to extend Eclipse.

We start the course with a discussion of the platform, which defines the set of frameworks and common services that collectively make up "integration-ware" required to support a comprehensive tool integration platform. Next, we will examine the Eclipse SDK (software developer kit), which is the consolidation of the components produced by the three Eclipse Project. Finally, we will discuss and demonstrate how to build a new tool as an Eclipse plug-in.

Intended Audience: Developers and designers.
Prerequisite Knowledge: Java.

SERVICE ORIENTED ARCHITECTURES FOR THE ENTERPRISE

Thursday, March 6
8:00 – 11:00am
TH2
Peter Herzum – CTO & Software Ecologist,
Herzum Software

This course provides an architectural foundation for architecting and developing systems and federation of business systems using Web services and service-oriented architectures. After a brief introduction to the Web services architectural concepts and technologies, the presentation places Web services in the context of component-based development and interoperability between systems and components, briefly discussing the technical and extensively the architectural, methodological, and functional aspects of a solution. Then, the tutorial discusses approaches and architectures for using, providing and requesting Web services, as well as how to build federations of systems based on Web services.

The course addresses principles for run-time scalability and how to improve cost-effectiveness of large developments using Web services, and reports on lesson learned applying these practices to large enterprises around the world. Attendees will come away with a real-world perspective of how Web services can be used within the enterprise, and the kind of issues, and possible solutions, that one can expect from the adoption of Web services for large federations of business systems.

Intended Audience: Professionals charged with architecting, developing or managing large developments using Web services.
Prerequisite Knowledge: Participants should have a general familiarity with distributed system development issues, and preferably with component-based analysis and design. Familiarity with XML related technologies is useful but not required.

WEB SERVICES DISCOVERY MECHANISMS

Thursday, March 6
8:00 – 11:00am
TH3
Toufic Boubez – CTO, Layer 7 Technologies

The Web services model requires some form of discovery mechanism, both for static, design-time, and dynamic, runtime discovery of services. The UDDI registry is by now well established as a cornerstone of service discovery in the various Web services architecture stacks, especially in the design-time phase. But is UDDI sufficient to perform all dynamic discovery tasks? Can we enhance UDDI with some semantic layer to facilitate purely automated dynamic discovery? How does UDDI relate to RDF (Resource Description Framework), WSIL (Web Services Inspection Language), LDAP, DSML (Directory Services Markup Language) or to ebXML? How do other technologies, such as P2P technologies handle discovery? All these questions, and more, much more, will be raised and answered during this course.

Intended Audience: Web services developers and architects.
Prerequisite Knowledge: Some knowledge of Web services architectures, XML, P2P.

XML MAGIC WITH SEMANTIC WEB SERVICES AND AGENTS

Thursday, March 6

8:00 – 11:00am
TH4
Dragan Sretenovic - Senior Software Engineer, OkiData

Arthur C. Clarke observed: "Any sufficiently advanced technology is indistinguishable from magic". XML technologies require advancements in the domain of semantics (meaning of the tags) to achieve its Magic Alchemy - to convert from data to information to knowledge to value. The goal is to enable Web services software and agents to understand each other. We will explore current W3C standards development and research in this area, and its possible applications.

How can you make searches even smarter than Google and catalogs even better than Amazon? This presentation will introduce core concepts of Semantic Web, from metadata, famous (subject, predicate, object) triples, to ontology, and decipher acronyms like: OWL, XSD, WSDL, UDDI, XMI, DC, RDF, RDFS, RSS, OIL, DAML+OIL, DAML-S, XTM, GRAILXML and more. Features of presented languages will be explained and compared with XML, OO systems, and Relational Databases.

Intended Audience: Developers, architects, and product managers. Prerequisite Knowledge: XML, SOAP, OOP/D, and SQL.

PRACTICAL FORMATTING USING XSL-FO – HANDS-ON

Thursday, March 6

8:00am – 3:30pm
TH5
G. Ken Holman – CTO, Cranes Softwrights

This hands-on course overviews the Extensible Stylesheet Language Formatting Objects (XSL-FO) W3C Recommendation, used for the paginated presentation of structured information (e.g. printing XML). The objectives of the course are to understand the role and utility of the Recommendation, to overview basic constructs of the Recommendation, to design and develop XS-LFO scripts by hand (no XSLT experience necessary) or by using XSLT and XPath (both of which are assumed to already be known by the attendee). This hands-on course combines the use of lectures and exercises to convey the material. Please consider also attending the preceding companion tutorial "Practical Transformation Using XSLT and XPath" for hands-on experience with all of XSL.

Intended Audience: Markup technology practitioners and their managers.
Prerequisite Knowledge: Markup concepts (e.g. HTML, XML).

Bring Your Own Laptop!
For the practical exercises, attendees are required to bring a personal computer (with a floppy or CD-ROM drive); to prepare your machine ahead of time, see http://www.CraneSoftwrights.com/training/pfux/pfuxsyl.htm

J2EE, SUN, & WEB SERVICES

Thursday, March 6

12:30 – 3:30pm
TH6
Peter Herzum – CTO & Software Ecologist, Herzum Software

This course introduces the Web services-specific parts of J2EE and the other Sun technologies for Web services. These technologies are placed into the context of Service Oriented Architectures, component-based development and interoperability between systems and components to discuss not only the technical but also the architectural, methodological, and functional aspects of a Web service solution. The tutorial analyzes both the strengths and weaknesses of Sun's Web services-related technologies for using, providing, and requesting Web services. The course also briefly compares Sun's approach to the other main approaches today on the market, including .Net, and discusses the relationship between these technologies and other industry standardization efforts, such as the W3C, ebXML, UDDI, OASIS, and OMG standards. Attendees will come away with a real-world perspective of how Web services can be used for component-based development and e-business.

Intended Audience: Professionals charged with architecting, developing or managing large developments using Web services. Prerequisite Knowledge: General familiarity with distributed system development issues, preferably with component-based analysis and design. Familiarity with J2EE and XML related technologies is useful but not required.

XML & WEB SERVICES – GETTING VALUE FROM STUFF YOU DON'T OWN

Thursday, March 6

12:30 – 3:30pm
TH7
Brian Travis – CTO, Architag
Mae Ozkan – Chief Architect, Architag

Getting value from stuff you don't own is a compelling idea. Just think, someone else has created something that has value, and has given it or rented it to you so you can leverage that value in ways that makes all parties richer. That's the promise of Web services. In this course, you will learn about the big picture of Web services. We assume that you are already familiar with the syntax, and that you might even have created a Web service yourself using one of the many tools out there for developers. This course will show how all of the pieces fit together so you can start to create a cohesive enterprise solution using Web services.

Intended Audience: Architects and developers, those who design or build systems that depend on sharing data between internal departments or external commerce partners.
Prerequisite Knowledge: Familiarity with Web services standards, including XML, SOAP, and WSDL. Also, experience creating a Web service using one of the many development tools, while it is not necessary to have built a Web services application, you should understand the need for standard syntaxes and protocols to enable Web services transactions.

SERVICE ORIENTED INTEGRATION

Thursday, March 6

12:30 – 3:30pm
TH8
David Chappell - VP & Chief Technology Evangelist, Sonic Software

Integration is a top priority for CIOs today who seek flexible, cost-effective means to connect business systems to support the real-time enterprise. Over the past few years, many companies invested heavily in homegrown applications and business application suites, such as SAP, Oracle, PeopleSoft and Siebel. While linking these "islands of automation" in real-time creates significant efficiencies, application integration solutions have been prohibitively complex and expensive, and thus sparingly implemented.

A new model for integration has emerged, spurred by the success of Web services as a set of universally agreed-upon standards for bridging disparate platforms and applications. However, Web services can't possibly provide the agility organizations seek if the architecture framework is too rigid! The only way for enterprises to achieve agility and efficiency, and realize the potential of Web services for cost-effective integration, is by separating the integration infrastructure from the application platform. To do this requires an infrastructure that combines Web services, messaging, transformation and service orchestration.

Chappell, will examine design patterns for service-oriented integration (SOI) providing efficient management and global scalability of highly-extensible integration environments, how Web services standards can be applied, and where gaps in the current standards stack need to be filled.

You will learn:

• The limitation of current integration technology solutions and the "accidental architecture;"

• The benefits of deploying service-oriented integration (SOI) across your enterprise;

• Key technology components of service-oriented integration;

• Examine the impact and application of Web services, and other standards-based technologies, on application integration.

Intended Audience: Enterprise system/integration architects, developers, technical decision makers and project leaders.
Prerequisite Knowledge: Familiarity with Web services standards, an understanding of J2EE architecture.

SERVICE ORIENTED GRID COMPUTING

Thursday, March 6

12:30 – 3:30pm
TH9
Graham Glass – CTO, The Mind Electric

The benefits of Web services will catalyze a trend towards service-oriented architectures in which enterprises view their systems as an orchestrated Web of services that extend beyond their firewalls into the systems of their partners and customers. Service-oriented architectures require a new kind of distributed computing platform that provides features like clustering, load balancing and fail over in a way that is independent of the services themselves.

Service-oriented grid-computing platforms tackle this challenge by operating in a similar manner to the national electricity grid. Such platforms connect producers and consumers of services and data, while shielding them from details of the underlying infrastructure. This course discusses the technical challenges of implementing service-oriented grid computing platforms, with a focus on P2P architectures.

Intended Audience: Developers interested in hearing about what comes next.
Prerequisite Knowledge: Working knowledge of Web services standards such as SOAP and WSDL.

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INSTRUCTORS

CONFERENCE CHAIR

Mike Bucken is Editorial Director of 101communications Software Development Group which includes *Application Development Trends.* He also worked at *Software Magazine*, *Electronic News, The Observer Patriot,* and the *Patriot Ledger*. In addition, Mike is a charter member of the SIGS/101 International Advisory Board.

Jack Vaughan has joined the Software Development Group as editor-at-large at 101communications. Vaughan writes features and columns for *Application Development Trends Magazine* (ADT). He participates in establishing the agendas for 101 shows covering the software development space.

KEYNOTE & TRACK CHAIR

Graham Glass is founder, CEO, and chief architect of the Mind Electric, focusing on building large-scale distributed computing. Prior to founding The Mind Electric, Graham was the chairman, CTO, and co-founder of ObjectSpace, a Dallas-based company specializing in business-to-business integration. He received an Ernst and Young Entrepreneur of the year award in 1996, as well as several industry awards for the development of the Voyager and JGL product lines while with ObjectSpace. Graham was also the founder of ObjectLesson, a company that provided training in leading edge technologies.

SPONSORED KEYNOTE & TRACK CHAIR

Don Box is an Architect at Microsoft working on next-generation web service infrastructure. Box's research focus is on software integration technologies and techniques. To that end, he was one of the initial authors of the SOAP specification, and was a member of the W3C XML Schemas working group. Box is a contributing editor to *MSDN Magazine* where he has written about component technologies since 1994. Box is also a series editor at Addison Wesley and works on the Microsoft .NET series. His latest book, *Essential .NET*, is the first title in that series.

Register via the Web:
www.xmlconference.com/santaclara or use the form on page 29. Questions? Call 1-800-280-6218 or e-mail xmlreg@oregon.uoregon.edu.

TRACK CHAIRS

Toufic Boubez is the Chief Technology Officer of Layer 7 Technologies, specializing in Web services security. While at IBM, he was the chief architect of IBM's web services initiative and the architect of the first iterations of the IBM Web services Toolkit. He was also IBM's technical representative to UDDI and a co-author of the UDDI V1 API specification. He represented IBM on other standards bodies such as the UN/CEFACT/OASIS ebXML initiative and helped drive IBM's early XML strategy and IBM's Web services strategy. He is the co-author of *Building Web Services with Java*, published by SAMS, and of *Java P2P Unleashed*, about to be published by SAMS.

Dwight Deugo, a charter member of the SIGS/101 International Advisory Board, has been involved with object technology since 1985. He has a Ph.D. in computer science and is an associate professor at Carleton University. He has been an editor for SIGS & 101communications publications as well as editor of the SIGS Book, *Java Gems.*

Kevin Dick is the author of *XML: A Manager's Guide* and a technology consultant as well as a charter member of the SIGS/101 International Advisory Board and was the Technical Chair of the SIGS/101 XML One Conference for over 3 years. He specializes in helping organizations identify business problems where advanced technologies provide an advantage and then architect systems that deliver this advantage. He has authored numerous technical articles and was the editor of *Enterprise Java.*

Uche Ogbuji is a computer engineer, co-founder and CEO of Fourthought, Inc., a software vendor and consultancy specializing in open, standards-based XML solutions, especially as applicable to problems of knowledge management. He has worked with XML for several years, co-developing 4Suite, a pioneering library of open-source tools for XML development and object database management in Python. He also co-develops 4Suite Server, an XML data server using 4Suite to provide a flexible XML processing platform.

Ron Schmelzer, founder and senior analyst of ZapThink, is a well-renowned expert in the field of XML and XML-based standards and initiatives. Prior to ZapThink, Schmelzer was a founder and "ePostle of Partners for ChannelWave", where he was responsible for identifying the needs of channel partners and making sure all partners receive the full benefit of partner relationship management systems. Prior to co-founding ChannelWave, Schmelzer worked on advanced Internet applications for U.S. Robotics and was a founding partner of Dynamic Data Services, a data-processing company.

INSTRUCTORS

INSTRUCTORS

Panel Moderater, Tony Baer, President, Demand Strategies and Columnist, *Application Development Trends*

Mukund Balasubramanian, Co-Founder & CTO, Infravio

James Bean, President & CEO, The Relational Logistics Group

Jim Bole, VP of Engineering, Infravio

David Chappell, Vice President & Chief Technology Evangelist, Sonic Software

Timothy Chester, Senior IT Manager, Texas A&M

Frank Coyle, Professor, SMU

Tim Ewald, Program Manager, XML & Web Services, MSDN, Microsoft

Paul Freeman, Principal Consultant, Architek, LTD

Keynote, Patrick Gannon, President & CEO, OASIS
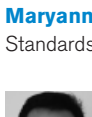
Robert Groat, Chief Products Officer, netDecide

Martin Gudgin, Web Services Architect, Microsoft

Peter Herzum, Chief Technology Officer, Software Ecologist, Herzum Software

G. Ken Holman, CTO, Crane Softwrights, Ltd.

Maryann Hondo, Web Services Security Standards Lead, IBM

Tony Hong, Founder, XMethods

Ed Horst, Vice President of Product Strategy, AmberPoint, Inc.

Ed Lycklama, CTO & Co-Founder, Sitraka

Eve Maler, XML Standards Architect, Sun Microsystems

Tim Matthews, President & Co-Founder, Ipedo, Inc

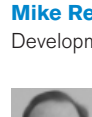**JP Morgenthal,** Chief Services Architect, Software AG

K. Scott Morrison, Director of Architecture, Layer 7 Technologies

David Orchard, Chief Standards Architect, BEA

Mae Ozkan, Chief Architect, Architag

Mike Reagin, Director of Research and Development, Providence Health Systems

Sponsored Keynote, William Ruh, Sr. Vice President, Professional Services, Software AG

Mark Seamans, CTO, Cardiff Software

Aaron Skonnard, Instructor & Researcher, Developmentor

Dragan Sretenovic, Senior Software Engineer, OkiData

Anne Thomas Manes, CEO & Founder, Bowlight

Andre Tost, Technical Enablement – Web Sphere, IBM

Brian Travis, CTO, Architag

Liv Watson, Head of XBRL, Edgar Online

For a complete list of Instructor bios, please visit www.xmlconference.com/santaclara

EXHIBIT HALL/SPONSORS

Special Events

Monday	Tuesday	Wednesday
4:30-5:15pm Sponsored Keynote – Microsoft	**10:45am-12:00pm** Conference Welcome & Opening Keynote – The Mind Electric	**10:45-11:45am** Sponsored Keynote – IBM
	12:00pm-7:30pm Exhibit Hall Open	**11:45am-3:30pm** Exhibit Hall Open
	5:45-6:30pm Keynote – OASIS	**3:30-4:15pm** Sponsored Keynote – Software AG
	6:30-7:30pm Exhibit Hall Reception	

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Vendor Exhibition

Make sure to visit the XML Web Services One exhibit floor. This is your chance to meet with the industry's leading tool and product services vendors in a casual, yet intimate environment. Rich with valuable information, these vendors offer a myriad of answers and solutions for many of your current problems. Put your classroom learning to work - you've learned what the solutions are, now identify the best products and services to get you there!

Plan to spend time at the IBM Developer Workshop on Wednesday, March 5. Check out www.xmlconference.com/santaclara for more information.

Past XML Web Services One exhibitors have included:

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Merant
Microsoft
Neuvis
OASIS
OmniMark Technologies
PrismTech
Radview Software

Rational Software
Rogue Wave Software
Safe Software
Seagull Software
Software AG
Sonic Software
Stellent
Sun Microsystems
Sybase
Sypram Technology
Telera
The Breeze Factor
The Mind Electric
TIBCO Extensibility
Voxeo
XML Cities
XML Global
XYZ Find
Vignette
101communications / *Application Development Trends Magazine*

Visit www.xmlconference.com/santaclara for more information and the latest updates on sponsors, exhibitors and program changes. All photos of the conference taken by Michael J. Maloney.

Hotel Accommodations

Santa Clara Marriott
2700 Mission College Blvd
Santa Clara, CA 95054
Phone: 408-988-1500

Rooms have been reserved at the Santa Clara Marriott Hotel for XML Web Services One Santa Clara attendees at a special discount: $169 single/double and are good from Saturday, March 1 to Saturday, March 8. Reservations must be made by February 7, 2003 in order to take advantage of these discounted rates. Mention XML Web Services One Santa Clara to receive these special rates.

Reservations by Phone: Call the Santa Clara Marriott Hotel Central Reservations at 1-800-228-9290 or 1-408-988-1500 (outside the US). Mention XML Web Services One in order to get the special rate.

Reservations Online: Visit www.marriott.com and use group code: xmlxmla

Parking

Free and ample parking is available at the hotel. If you will need a rental car, see the details on this page for Avis discounts.

Shuttle Service & Directions

The hotel is 3 miles away from the San Jose Airport. Transportation will need to be arranged by shuttle, taxi or rental car. For rental car, see the information on this page on discounts with AVIS. For all other transportation please visit the San Jose Airport's web site at: www.sjc.org/ and click on Ground Transportation.

Directions to the hotel can be found on the Marriott web site at: www.marriott.com/dpp/map.asp?marshacode=SJCGA

Weather and Dress

Temperatures inside the meeting rooms can vary greatly and are often cool so plan your attire accordingly. Dress for the conference is business casual. Santa Clara in March has an average high of 65°F or 18°C and an average low of 45°F and 7°C. Rainfall during this time of year is an average of 2.60 inches or 66 millimeters.

Air Travel Discounts

American Airlines is offering attendees discounts off of the lowest published fares from February 28 - March 9 to the San Jose Airport. Please call the American Airlines travel desk at 1-800-433-1790 and use priority code #A6033AM to receive your discounted fare.

Southwest Airlines offers up to 10 percent off most fares for air travel to and from this event (Oakland or San Jose airports), with the convenience of Ticketless Travel. To qualify, call Southwest Airlines Group and Meetings Reservations at 1-800-433-5368 and reference I.D. Code #J9081. Reservations Sales Agents are available 7:00am - 8:00pm Monday-Friday, or 8:30am - 5:30pm Saturday and Sunday (Central Standard Time).

Book early to receive the best discount!

Rental Car Discounts

AVIS Rent-a-Car is offering a special discount on any size car rental for XML Web Services One attendees. To receive the discounted daily and weekly rates, simply call Avis at 1-800-331-1600 and use Avis Worldwide Discount number D005872.

Delegate Networking

Interested in networking with other paid delegates? Then be sure to check the delegate networking box when you register. We will then provide you and other registrants with the names, titles, companies, and email addresses of fellow attendees so that you can communicate before and after the conference.

Santa Clara is home to the eighth of the 21 historic California missions. Founded in 1777 by the Franciscans, Mission Santa Clara was dedicated by Father Junipero Serra. In 1851, the Jesuits opened a school on the mission site. That school is now Santa Clara University, the oldest institution of higher learning in California.

XML · WEB SERVICES ONE
CONFERENCE + EXPO

GOLD

Best Buy!

All 4 conference days

- Courses of your choice
- Post-Conference Online Access to Course Notes
- Keynotes & Panels
- Access to the Exhibit Hall
- Exhibit Hall Reception
- Printed Conference Course Notes*
- Lunch on All 4 Days

All for only $1,495 *(through February 7)!*

SILVER

Any 3 conference days

- Courses of your choice
- Keynotes & Panels
- Access to the Exhibit Hall
- Exhibit Hall Reception
- Printed Conference Course Notes*
- Lunch on Selected Conference Days

All for only $1,295 *(through February 7)!*

BRONZE

Any 2 conference days

- Courses of your choice
- Keynotes & Panels
- Access to the Exhibit Hall
- Exhibit Hall Reception
- Printed Conference Course Notes*
- Lunch on Selected Conference Days

All for only $1,195 *(through February 7)!*

Register Today at: **www.xmlconference.com/santaclara**

OASIS

Tuesday Only

- All-day OASIS Forum on Web Services Standards
- Keynotes & Panels
- Access to the Exhibit Hall
- Exhibit Hall Reception
- Lunch on Tuesday

All for only $299

NEW GROUP PRICING PLANS!

- Gold Registration Package
- All 4 Conference Days
- Courses of your choice
- Post-Conference Online Access to Course Notes
- Keynotes & Panels
- Access to the Exhibit Hall
- Exhibit Hall Reception
- Printed Conference Course Notes*
- Lunch on All 4 Days

5 Pack
Up to 5 delegates
Only $5,000!

10 Pack
Up to 10 delegates
Only $7,500!

To register your group please call Sara Seely at 949-265-1560.

*For registered classes only.

Registration Deadlines

Early Registration Discount Deadline………..February 7, 2003
Regular Registration Deadline………………. February 28, 2003

After February 28, please register on-site. Registration will be limited to space available.

Individual Discounts

Save $100 off your registration package with one of the following three discount offers (offers my not be combined). You can save a total of $300 when you combine this discount with the purchase of a Gold, Silver or Bronze package on or before, February 7, the early bird deadline.

SIGS/101 Alumni

We value our alumni! Attendees of any SIGS/101 Conference from qualify for a $100 discount off the main Conference fees. To qualify for the discount please include which conference you attended. This discount may not be combined with any other offer.

Application Development Trends Magazine Subscriber Discount

Anyone holding a current subscription to ADT will receive a $100 discount off the main Conference fees. To qualify for the discount please check the "I subscribe to *Application Development Trends Magazine*" box. This discount may not be combined with any other offer.

Organization Discount

If you are a member of OASIS, OMG, or Web Services.org you qualify for a $100 discount off the main Conference fees. To qualify for the discount please include the code your organization gave you (contact your organization if you have not received this information). This discount may not be combined with any other offer.

New – Group Discount

When five or more people from a single company or organization register at the same time, you can now realize great savings. Up to 5 people can register for a total of $5,000 (5 pak) and up to 10 people can register for a total of $7,500 (10 pak). Details can be found on page 27.

To register your group please call Sara Seely at 949-265-1560.

Refund & Cancellation Policy

Registration is transferable with written authorization. Cancellations must be in writing and post marked before the cancellation deadline. Cancellations must be made by February 7, 2003 and will be subject to a $250 cancellation fee. Cancellations made after February 7, 2003 as well as "no shows" are liable for the full registration fee.

Transfer of Registration

Registration transfer to another person is allowed, with the written permission of the original registrant. The attendee is responsible for sending a copy of the letter of transfer to the conference registrar prior to the conference and for bringing a copy of the letter to the Registration Desk on-site.

How to Register

Online: www.xmlconference.com/santaclara
Phone: 800-280-6218 (8:00am – 5:00pm PST)
Fax: 541-346-3545 (credit card payment only)
Mail: XML Web Services One Registration
1277 University of Oregon
Eugene, OR 97403-1277
On-site: You may register for the conference on-site. However, space is limited and admission cannot be guaranteed.

Registration Questions?

Phone: 800-280-6218 (8:00am – 5:00pm PST)
Email: xmlreg@oregon.uoregon.edu
Web: www.xmlconference.com/santaclara

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Secure Web Registration

Rest easy – online registration at:
www.xmlconference.com/santaclara is secure.
Our secured server environment keeps your information private.

Registration Includes:

• Classes of your choice for all days registered on a first-served basis
• Printed course notes for all registered classes
• Keynotes & Panels
• Access to Exhibit Hall & Vendor Presentations
• Tuesday evening Exhibit Hall Reception
• Daily lunch & morning pastry
• Conference tote bag
• Alumni discounts to future XML Web Services One Conferences
• Free samples of 101communications publications

Register Today at:
www.xmlconference.com/santaclara

I was particularly pleased with the amount of technical content and plentiful examples. This seminar was definitely not padded with a lot of fluff."

Narine Bridgemohan, Consultant Analyst
Programmer, Boston University

REGISTRATION FORM

XML · WEB SERVICES ONE
CONFERENCE + EXPO
March 3-6, 2003
Santa Clara, CA
Santa Clara Marriot
www.xmlconference.com/santaclara

→ 1 Select your courses for each day that you will be attending XML Web Services One.

Monday, March 3 (Select one from each time only)
8:30 – 11:30am
- ☐ M1 Fundamental XML for Developers
- ☐ M2 Let the Data Be Free – Building Blocks for XML Middleware
- ☐ M3 An Introduction to Web Services

and
1:15 – 4:15pm
- ☐ M6 XML Standards – A Management Overview
- ☐ M7 Orchestration – The Killer Application for the Enterprise
- ☐ M8 A Practical Guide to Web Services

or
8:30am – 4:15pm
- ☐ M4 A Day of .NET Web Services – Hands-on
- ☐ M5 Practical Transformations Using XSLT & XPath – Hands-on

plus
6:00 – 7:30pm
- ☐ M9 Web Services Integration Realities – Lessons Learned
- ☐ M10 Understanding SOAP & WSDL
- ☐ M11 Dynamic Web Interfaces Using SVG

Tuesday, March 4 (Select one from each time only)
8:00 – 10:30am
- ☐ T6a OASIS Forum on Web Services Standards, Part 1

or
8:30 – 10:30am
- ☐ T1 Synchronous and Asynchronous Messaging Standards for Web Services
- ☐ T2 XML Programming with System.Xml
- ☐ T3 Web Services Security Standards Overview
- ☐ T4 Practical Uses for RDF in the Enterprise
- ☐ T5 XForms – The Next Generation of Web Forms

2:00 – 5:30pm
- ☐ T6b OASIS Forum on Web Services Standards, Part 2

or
2:30 – 3:15pm (Case Studies)
- ☐ T7 XBRL Implementations
- ☐ T8 Programming with the Microsoft WSDK
- ☐ T9 Web Services-based Integration in the Healthcare Industry
- ☐ T10 Moving From Legacy to a Service Oriented Architecture
- ☐ T11 One Solution Fits All: Building Web Services to Last

and
3:30 – 5:30pm
- ☐ T12 XML Standards for Privacy and Personal Information
- ☐ T13 ASMX Drill Down
- ☐ T14 Java, .NET, and PERL – Web Services Interoperability
- ☐ T15 Leveraging Reuse with XML Schemas
- ☐ T16 Web Services Reanimated – Bringing Web Services to Life with XML GUIs

Wednesday, March 5 (Select one from each time only)
8:30 – 10:30am
- ☐ W1 XQuery Language & Usage
- ☐ W2 Java Meets XML and Web Services – Exploring the APIs of the Java XML Pack
- ☐ W3 Web Services Beyond ASMX
- ☐ W4 Effective SOAP – Leveraging the SOAP Messaging Model
- ☐ W5 Metadata in XML and Web Services

2:00 – 2:45pm (Case Studies)
- ☐ W6 XML in Life Sciences
- ☐ W7 A Java-based Web Sphere Implementation of the Web Services Integration Demonstration
- ☐ W8 .NET Web Services Implementation in the Enterprise
- ☐ W9 SymetryPro: Secure, Always-on Email for Wireless PDAs Using Web Services
- ☐ W10 Building a Web Services Management Infrastructure

4:30 – 6:30
- ☐ W11 Overview of Security Assertion Markup Language (SAML) and Liberty
- ☐ W12 Creating Web Services for Java Developers
- ☐ W13 .NET Futures – What's Next
- ☐ W14 Web & Grid Services – LIVE!
- ☐ W15 P2P and Web Services with JXTA

7:30 – 9:00pm
- ☐ W16 Web Services Management & Reliability Standards
- ☐ W17 Performance and Scalability Bottlenecks in J2EE Applications
- ☐ W18 Building Secure Web Services Today

Thursday, March 6 (Select one from each time only)
8:00 – 11:00am
- ☐ Th1 Using and Extending Eclipse – Building Tools for Web Services and Other Development Support
- ☐ Th2 Service Oriented Architectures for the Enterprise
- ☐ Th3 Web Services Discovery Mechanisms
- ☐ Th4 XML Magic with Semantic Web Services and Agents

and
12:30 – 3:30pm
- ☐ Th6 J2EE, Sun, & Web Services
- ☐ Th7 XML and Web Services – Getting Value From Stuff You Don't Own
- ☐ Th8 Service Oriented Integration
- ☐ Th9 Service Oriented Grid Computing

or
8:00am – 3:30pm
- ☐ Th5 Practical Formatting Using XSL-FO – Hands-on

→ 2 Type or print your personal information.

(Photocopy this form for additional registrations)

First Name for Badge

Last Name

Title

Company or Institution   Department

Address

City   State/Province   Zip/Postal Code

Country

Day Phone   2nd Phone

Fax   E-mail*

Discounts:
- ☐ **Alumni**: Previous SIGS/101 event(s) attended_____ Date_____
- ☐ *Application Development Trends* Subscriber: Yes, I am an ADT Subscriber.
- ☐ **Organization Member:** Enter code: _____
- ☐ **Delegate Networking, check here**

*By providing your email address you are granting SIGS/101 Conferences permission to contact you regarding your registration, as well as other products and services of SIGS/101 Conferences and/or selected IT companies. Please indicate those you do not wish to contact you.

- ☐ XML Web Services One future events   ☐ Selected outside IT companies
- ☐ Other 101communications products

→ 3 Select your package & calculate your payment

See page 27 for package descriptions

Registration Packages	① Early Bird Through Feb. 7, 2003	② Regular After Feb. 7, 2003	③ Discounts Alumni, ADT Subscriber, or Org.
GOLD (All 4 days)	$1,495	$1,695	Less $100
SILVER (Any 3 days)	$1,295	$1,495	Less $100
BRONZE (Any 2 days)	$1,195	$1,395	Less $100
OASIS Forum (Tues)	$299	$299	NA
5 Pak (4 days)	For group registration please call Sara Seely 949-265-1560. See page 27 for details		
10 Pak (4 days)			

→ **Total Fee $**

To confirm your registration, a guarantee of payment is required.
Remit with a check or credit card. If you need an invoice, please call 800-280-6218 or email xmlreg@oregon.uoregon.edu.

☐ Charge my ☐ VISA ☐ MasterCard ☐ American Express ☐ Discover

Card Number

Expiration Date

Name on Card

Signature

Cardholder Address (if different from above)

State/Province   Zip/Postal Code

☐ Check enclosed (payable to SIGS/101Conferences, in US dollars drawn on a U.S. bank)

If you would like to use a Purchase Order to register, please contact Dena Fisher, Conference Services Coordinator at 1-800-280-6218 or 541-346-3537 to make arrangements.

→ 4 Send in Your Registration

Mail registration with full payment to: XML Web Services Registration, 1277 University of Oregon, Eugene, OR 97403-1277. **Fax** your registration (Credit card payment only) to: 1-541-346-3545. Lock in your course schedule by registering **Online** through our secure Web site at www.xmlconference.com/santaclara

Register Today for Maximum Savings. Visit www.xmlconference.com/santaclara

Providing

Development

Solutions

for the

Enterprise

XML Web Services One's conference program is divided into seven practical tracks designed to provide attendees with real-world solutions for enterprise development. Designed by our team of experts under the direction of Mike Bucken, technical chair for the conference and editor-in-chief of *Application Development Trends Magazine*, each track will provide expert training in the leading developments in XML and Web services. For complete track descriptions and track chair bios, visit

www.XMLConference.com/SantaClara

ConferenceTracks

Web Services Implementation Issues

Component-Based Enterprise Architectures

Java Programming and Development

Programming for the Front End

Practical XML Standards

Distributed Computing & Web Services Future

.NET Programming and Development

Track Chairs

Toufic Boubez, CTO, Layer 7 Technologies

Kevin Dick, President, Kevin Dick Associates

Dwight Duego, Associate Professor, Carleton University

Uche Ogbuji, Co-Founder & CEO, FourThought Consulting

Ron Schmlezer, Founder, CEO & Chief Architect, Zapthink

Graham Glass, CTO, The Mind Electric

Don Box, Architect, Microsoft

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