Introducing a whole new way for you to build Web applications

Struts Studio 5.2 Significantly Extends Eclipse

- Unique Web Flow feature
- Define and visualize Struts configuration files using a drag-and-connect metaphor
- Manage the overall Struts application and its components using visual editing technology
- Automatically update all of the various links between resources in a Struts project

Struts Studio Features

- Eclipse 2.1.x, Eclipse 3.0, and WSAD 5.1 support
- JSP page preview in design-time
- JSP code prompting covering JSP tag libraries, Struts tag libraries, and HTML tags
- XML code prompting for all Struts-related XML files or any other XML files with a DTD
- Embedded Project Verification Framework
- Tiles support
- Visual Validation Framework editor
- Multi-modular application support
- Running and debugging of Web applications under a Tomcat engine
- Advanced wizard for importing existing projects into Struts Studio
- Recognition of customized (user-defined) tags
- Allows importing of pre-existing Struts projects
- Support for the use of arbitrary tag libraries
- A TLD file GUI editor
Welcome...

Welcome to EclipseCon 2004, the first technical conference to focus on the power of Eclipse, a multi-vendor platform for tool integration and interoperability. Since its introduction more than two years ago, the Eclipse open source platform has attracted a large, vibrant community of developers, tool providers and consumers that are using, leveraging and extending the platform in a myriad of productive and innovative ways. The rapid adoption of Eclipse over the past year (currently with more than 10,000 download requests per day for the Eclipse Platform) demonstrates Eclipse’s viability as a universal platform for tools integration. We are pleased to present this inaugural EclipseCon, which brings together users, developers, educators, researchers and other members of the Eclipse community to exchange experiences and chart the future of this key open technology.

We believe our program will provide you with a wealth of information and opportunities to interact first hand with Eclipse experts and developers. Get the big picture from industry luminaries delivering five **Keynotes**, and then drill down into the details at our **Tutorials**, **Technical Talks**, **Sponsor Exhibits**, **Technology Exchanges**, **Posters** and **Birds-of-a-Feather** sessions. Bring your laptop loaded with your plug-ins to the **Plug-in Clinics** on Monday or Wednesday and program together with members of the Eclipse development team. Don’t miss the **Conference Reception** on Tuesday night, where you can relax with food and drink, mingle and check out a host of **Sponsor Exhibits** and **Posters**. Finally, EclipseCon is intended to be a highly interactive event. Don’t be shy! We’re all looking forward to making new acquaintances, meeting new and long standing collaborators, and meeting in person, the people behind the emails and newsgroup postings!

Our thanks go to the Program and Conference Committee members, the Object Management Group (the conference organizer), and members of the Eclipse community who helped to make this event a huge success. Have a great EclipseCon!

Erich Gamma  
EclipseCon Program  
Committee Chair

Philip Ma  
EclipseCon Conference  
Committee Chair

Skip McLaughhey  
Eclipse Chair
**BoF Sessions (BoF)**

BoF sessions are casual meetings of individuals and teams who share an interest in a particular topic. We'll provide a room, a flipchart for some notes, and a scheduled time to meet. Be sure to check out the BoF sign up board! If you’d like to host a BoF, you’ll find instructions on the sign-up board and in your conference package.

**Demos**

Demos will be scheduled throughout Tuesday and Wednesday where you'll see Eclipse technologies in action! You'll find details about the demos and schedule in your conference package.

**Exhibits**

EclipseCon exhibitors will showcase their Eclipse based products and projects that are established in the marketplace and the enterprise. The exhibits are open throughout the day on Tuesday and Wednesday.

**Keynotes**

Five keynotes lead the program at EclipseCon. You’ll have the opportunity to hear messages from key opinion makers and community leaders: Erich Gamma, John Wiegand, Michael Tieman, Gregor Kiczales, Simon Phipps and Grady Booch.

**Panels**

You’ll hear lively discussions on Eclipse's potential in a variety of organizations and problem fields. And there is a special format panel to bring together the entire week for you.

Open Q&A with the Eclipse Development Team: The Q&A session will be designed by you, the EclipseCon attendees! We'll provide cards in advance for you to jot down your Q&A questions or topic suggestions. You’ll find a card in your conference package and at strategic spots around the conference. Before the session, we’ll try to structure the topics in a way that we can create a “custom” discussion for the audience with members of the Eclipse development team.

**Poster Gallery**

The Poster Reception is planned for Tuesday evening as the opening evening event of the conference. Posters are hosted by their authors in the poster gallery, where you’ll find a great environment to learn more about what’s in the Eclipse community and the people behind it.

**Podium Talks**

Podium talks are another way to participate at EclipseCon! We've created two 45 minute slots parallel with the technical sessions where speakers present their favorite, but very short, Eclipse related topic. Tips/tricks, kudos, criticisms, announcements—all in five minute snippets! Our podium chair will organize these best of snippets right up to the day before the sessions so if you have a just-in-time message, be sure to contact us!

**Technical Talks**

The technical talks are organized by themes, in pairs of 45 minute talks. As you’re selecting the talks you’d like to attend, please consider that on Tuesday and Wednesday afternoons, there are no official breaks between many of the talks within a session. The themes you’ll find covered are: Eclipse at Work, SWT, Extending Eclipse, Rich Client Platform, Agile and Eclipse, Open Source, Language Implementors, Tools and Frameworks, and Web Development and Eclipse.

**Technology Exchanges**

If you are looking for a challenging discussion on one of the topics listed in our technology exchanges, these are the events for you. The exchanges are lead by key players in the topic areas and promise to be both lively and informative. We’ll have a variety of introductory presentations as organized by the moderators and then open the discussion to all participants.

**Walk-in, Plug-In Clinic**

Bring your laptop on Monday and Wednesday evening, loaded with your plug-in! The Eclipse development team is looking forward to sharing great solutions, impossible problems and pointed questions with members of the community.

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**About the Organizers:**

**Presented by:**

eclipse.org

**Produced by:**

The Object Management Group

**Organizing Committee:**

Philip Ma, HP, Organizing Committee Chair

Sandy Smith, SlickEdit

John Kellerman, IBM

Patrick Egan, Catalyst

**Program Committee:**

Erich Gamma, IBM,
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John Wiegand, IBM

Bjorn Freeman-Benson,
University of Washington

Michael Bechauf, SAP AG

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HP is a leading global provider of products, technologies, solutions and services to consumers and businesses. The company’s offerings span IT infrastructure, personal computing and access devices, global services and imaging and printing. Currently the 5th largest software provider in the world, HP offers HP OpenView and HP OpenCall software suites and our $4 billion annual R&D investment fuels the invention of products, solutions and new technologies so we can better serve customers and enter new markets. We invent, engineer and deliver technology solutions that drive business value, create social value and improve the lives of our customers. More information about HP is available at www.hp.com.

SAP is the world’s leading provider of business software solutions. Through mySAP™ Business Suite, people in businesses around the globe are improving relationships with customers and partners, streamlining operations, and achieving significant efficiencies throughout their supply chains. The unique core processes of various industries, from Aerospace to Utilities, are supported effectively by SAP’s 23 industry solution portfolios. Today, more than 20,000 companies in over 120 countries run more than 64,500 installations of SAP® software. With subsidiaries in over 50 countries, the company is listed on several exchanges including the Frankfurt stock exchange and NYSE under the symbol “SAP.” Additional information at http://www.sap.com

Rational software from IBM helps organizations create business value by improving their software development capability. The Rational software development platform integrates software engineering best practices, tools, and services. With it, organizations thrive in an on demand world by being more responsive, resilient, and focused. Rational’s standards-based, cross-platform solution helps software development teams create and extend business applications, embedded systems and software products.

Wind River is the worldwide leader in embedded software and services. It provides market-specific embedded platforms that integrate real-time operating systems, development tools and technologies. Wind River’s products and professional services are used in multiple markets including aerospace and defense, automotive, digital consumer, industrial, and network infrastructure. Wind River provides high-integrity technology and expertise that enables its customers to create superior products more efficiently. Companies from around the world turn to Wind River to create the most reliable products and to accelerate their time to market.
Advanced Systems Concepts (ASC) is an Eclipse board steward and an established developer of programmer productivity tools. Its latest activity has been in contributing to and leading the open source GUI builder project for Eclipse. Visit www.swtworkbench to learn the latest about ASC's Eclipse-based developer tools.

Candle's PathWAI™ solutions cover the entire build, deploy, manage life cycle for IBM Corp.'s industry-leading WebSphere e-business application infrastructure. PathWAI Performance Analyzer will take an IBM WebSphere Application Server log file and import it into your WSAD (WebSphere Studio Application Developer) or Eclipse framework and correlate trace entries with the actual source code. So, for example if a production problem occurs, a Candle monitor can dynamically turn on trace, capture the trace and turn off the trace, allowing operations and programming staff to identify problems and relate them to method calls directly within source code. For more information, go to www.candle.com/websphere.

Catalyst Systems Corporation, the leader in application build management technology, is a provider of software and consulting services designed to manage the risks associated with building software applications. Catalyst Systems is the creator of Openmake, a build management tool designed to automate the creation of reliable applications using a repeatable software build process that eliminates the need for manual scripting.

Established in 1976, ETRI is a non-profit government-funded research organization that has been at the forefront of technological excellence for more than 25 years. Our research institute has successfully developed information technologies such as TDX-Exchange, High Density Semiconductor Microchips, Mini-Super Computer (Ticom), and Digital Mobile Telecommunication System (CDMA). As a recognized leader in the information and telecommunication research institute in Korea, we will strive to be the best in the fields of information and telecommunications. Learn more about ETRI at http://www.etri.re.kr/e_etri/intro/msg.html

ILOG is a leading, worldwide provider of enterprise software and services. We make, market and sell business rule management systems (BRMS) as well as optimization and visualization software components that help organizations optimize resources and automate their business policies, procedures and best practices. A benefit unique to our BRMS products is that they create software architectures that allow portions of software code, the business rules or business logic, to be maintained by business users instead of software professionals. By implementing ILOG BRMS across an enterprise, organizations can quickly address specific business process changes and be proactive in response to changing business, regulatory and environmental conditions.

INNOOPRACT offers tools and technology as well as consulting services to increase productivity and quality in Web development. The focus of INNOOPRACT's technology is visual development of Web-enabled user interfaces for integrated business processes in Internet or Intranet. With its Java Web component library (W4T) and its Eclipse-based visual development tool, INNOOPRACT allows any application developer to develop user-friendly and functional Web front-ends. W4T Eclipse is the only WSIWYG development tool for HTML-based Web development in Java. It enables the simple visual development of user-friendly Web GUIs through drag and drop. W4T is fully integrated with the Eclipse development environment. INNOOPRACT is a member of the Eclipse Consortium. More information can be found at www.innoopract.com.

MontaVista Software is a leading global supplier of systems software for intelligent connected devices and associated infrastructure. MontaVista powers the embedded revolution by providing GNU/Linux-based open-source software solutions. Founded in 1999 by real-time operating system (RTOS) pioneer James Ready, MontaVista offers a family of products under the MontaVista Linux umbrella that address broad-based software developer needs encompassing applications ranging from communications infrastructure to consumer electronics. Multiple Editions of MontaVista Linux are available including—Professional, Consumer Electronics and Carrier Grade—along with complementary technology products providing powerful Java and graphics development capabilities.

Ontometrix was founded on the belief that there is a crucial missing layer in software management. The majority of projects are conducted in a manner in which very few of the critical success factors are being measured or used to optimize performance. Our mission is to provide that perspective not only to management, but to all the members of the team, so that performance can be self-regulating and scalable to larger and more complex projects. Integrated with Eclipse, our suite of tools is focused on optimizing the most expensive and volatile resource in software: people.

Intel Corporation is a supporting member of Eclipse and plans to integrate its development tools, such as Intel® Compilers and Intel® VTune™ Performance Analysts, into the Eclipse development environment to help developers optimize applications for Intel® Pentium® 4, Intel® Xeon®, and Intel® Itanium® processor-based systems. Intel, the world's largest chip maker, is also a leading manufacturer of computer, networking, and communications products. Additional information about Intel is available at www.intel.com/pressroom.
Parasoft provides Automated Error Prevention solutions that combine advanced products, services and expertise to help companies automatically prevent errors throughout the software lifecycle, to improve software quality and reliability. Based on Parasoft AEP Methodology, the company's solutions and products automate practices such as coding standards, static analysis, unit testing, regression testing, load & stress testing, functional testing, integration testing, application testing and monitoring. The solutions enable software development and IT organizations to significantly reduce costs by shortening production cycles, improving overall quality and reducing time-to-market. Parasoft has been granted nine patents and numerous awards for the technology behind its innovative line of solutions and products. In September 2003, Parasoft was positioned as a visionary in Gartner’s Distributed Testing Magic Quadrant. Founded in 1987, Parasoft is a privately held company whose clients include IBM, HP, Daimler Chrysler and over 10,000 companies worldwide.

QNX Software Systems is the industry leader in real-time, microkernel OS technology. The inherently reliable and scalable QNX* Neutrino® RTOS and powerful QNX® Momentics® development suite together provide the most trusted foundation for embedded systems in the networking, automotive, medical and industrial markets. Global leaders such as Cisco, Delphi, Siemens, Texaco, and Ford depend on QNX technology for network routers, medical devices, intelligent transportation systems, safety and security systems, next-generation robotics, and other mission- or life-critical applications. Founded in 1980, QNX Software Systems is headquartered in Ottawa, Canada, and distributes its products in more than 100 countries worldwide. For more information, visit www.qnx.com

Scapa Technologies develops specialist load and stress testing solutions which shorten implementation cycles, ensure effective delivery of projects, and monitor system performance post-implementation. Using Scapa StressTest’s simple and effective test development and execution facilities it is possible to implement cost-effective load-testing programs which deliver real value. Scapa StressTest offers a refreshing alternative to established, expensive and difficult-to-use load testing technology, and its industry position is reflected in Scapa Technologies’ leading role in the Eclipse Hyades project www.eclipse.org/hyades, which is implementing an industry-wide test integration framework around open standards.

Serena is a member of the Eclipse Board and contributes its extensive knowledge and experience in Enterprise Change Management toward the creation of a robust, cross-platform development tool framework for leading-edge application development. Serena has been an early adopter of the Eclipse Platform, developing interfaces to the framework to provide integrated development solutions and extensions to the latest Eclipse technology. With over 20 years experience in mainframe development tools, as well as experience in UNIX, Linux® and Windows®, Serena brings a unique perspective to the Eclipse community to help manage and solve the complexities involved with managing the enterprise. This enterprise view will become increasingly critical as each of these individual environments plays a larger interdependent role in IT organizations.

SlickEdit® Inc. provides software developers with the most comprehensive and flexible code editors available. SlickEdit's fully-supported code editing products enable Eclipse developers to code faster and meet increasingly aggressive deadlines. SlickEdit's Eclipse products are proven across a wide range of programming languages and on Windows and Linux platforms. SlickEdit Plug-In for WebSphere Studio & Eclipse is IBM Ready For WebSphere Studio Software validated. Formed in 1988, SlickEdit is a privately held company located in the center of North Carolina’s Research Triangle area. Additional information and free trial downloads are available at www.slickedit.com. SlickEdit is a registered trademark of SlickEdit Inc. All other trademarks are the property of their respective organizations.

SoftLanding Systems specializes in Software Management solutions that streamline your entire development process, resulting in enhanced productivity, higher quality software, and improved application availability. Its flagship product, TurnOver, provides integrated change/version management, project management, automated deployment and helpdesk for applications built within any Eclipse-based IDE. Validated “Ready for WebSphere Studio” by IBM, TurnOver establishes a unified Software Management process for all Web, iSeries, and multi-platform applications. TurnOver also gives RPG developers direct access to unparalleled (Series-specific) development support from within WDSC.

SourceBeat is a new publishing company focused entirely on open source technologies, including Eclipse. Our publishing model is very different than the traditional model in that users subscribe to our digital books, and receive monthly updates to the books using our patent-pending OpenBook™ process. With our model, developers are assured that they are receiving the latest and greatest information about their particular topic. With our expert authors such as James Goodwill, Bill Dudney and Rick Hightower, SourceBeat is the publishing company of the future in open source technologies www.sourcebeat.com

TimeSys is accelerating the adoption of Linux for embedded development by providing Eclipse-powered development tools and embedded Linux software development kits that support the entire embedded Linux development cycle. TimeSys’ TimeStorm Linux Tool Suite is a complete line of Linux development and testing tools, enabling embedded engineers to streamline the development and validation of Linux-based embedded systems. Developers assembling their own Linux operating system and development environment or customizing a commercial Linux platform can use TimeSys’ TimeStorm Linux Tool Suite to build, port and test the Linux kernel, root filesystem, device drivers and application software, reducing the time and cost of Linux development. For more information visit http://www.timesys.com/timestormtools
Application Development Trends

Application Development Trends is written for application development managers who are building, buying and managing the applications that run the world’s businesses. ADT is the one publication that top-tier AD/IS managers go to month after month for a clear strategic overview of the full application development lifecycle and its impact on the enterprise. Each month ADT covers the emerging tools, trends and technologies AD professionals need to successfully complete their development projects. Regular coverage includes: management processes and practices, development tools and technologies, integration/management perspectives. Regular topics include development tools, Internet and web services, data management, application management & deployment.

Dr. Dobb’s Journal

Dr. Dobb’s Journal is the premier language and platform independent monthly magazine for serious developers. Each month we provide powerful programming insights in topics ranging from advanced algorithms to database development to computer security over all languages and platforms, plus evaluations of language implementations and in-depth articles important to today’s developer. As one Dobb’s Journal reader said: “Dr. Dobb’s Journal is one of those MUST-HAVE periodicals on your software development bookshelf.” Click on our web site to subscribe today: www.ddj.com.

Open

Open is the Web magazine that corporate executives turn to for news and views about the tectonic shifts that are going in business modeling and software development due to Open Source/Free Software. Open helps IT planners determine what makes sense and what does not through its independent labs reviews, interviews with industry and government leaders, and technology briefings from leading experts. Sites that link to Open represent prestigious publications whose discerning readers seek richer context. You can also find links to Open on sites of well-known research labs and academic institutions.

OSDN

OSDN (Open Source Development Network, Inc.) is the most dynamic community-driven media network on the Web. OSDN publishes two world-renowned networks of Web sites: the OSDN technology network, and the MediaBuilder network. OSDN delivers more than 225 million page views and reaches 12 million unique visitors per month. OSDN technical sites attract all levels of IT decision maker and technical buyer, from C-level to project managers. Technologists, enterprise architects, developers and system administrators all turn to OSDN to create, debate, and make or break IT news, and learn about the latest tools, technologies and techniques. OSDN sites include Slashdot.org, the award-winning news discussion site; and SourceForge.net, the world’s largest collaborative open source software development site. OSDN also owns ThinkGeek.com, the leading e-commerce site featuring innovative products “for smart masses”. http://www.osdn.com/

CM Crossroads

CM Crossroads, the web’s largest community and resource center for Configuration Management. At CM Crossroads you can join in discussions with experts who use your SCM tool and contribute to the growing Configuration Management Body of Knowledge (CMBoK). Become a member now and enter to win an MP3 player. http://www.cmcrossroads.com/join

Embedded Technology.com

Embedded Technology.com is the Internet’s leading source of cutting-edge technical information about the embedded computer design industry. Embedded Technology.com’s database is structured to serve the needs of designers, engineers, system integrators, product specifiers, technical managers, consultants and others who are involved in the design and manufacturing of embedded systems, computers, software and devices. Reflecting the dynamic and interactive character of the Internet, Embedded Technology.com is the most accurate and convenient source of technical, product and news information available for this rapidly changing industry.

SD Times

SD Times is the Newspaper of Record for the Software Development industry. SD Times provides news, news analysis, specialized features and comprehensive analyses on new products, alliances, and emerging market trends for software and application development managers, IT managers, and ISVs, who manage development projects. Published twice per month, SD Times covers application development from strategic, business objective and management perspectives. Regular topics include development tools, Internet and web development, embedded systems, Java, Linux, .NET, Eclipse, and web services. Subscriptions are FREE at www.sdtimes.com.
Eclipse: State of the Union
The Eclipse journey continues! In this keynote we survey the latest progress on the Eclipse 3.0 platform and look into the evolution of the Eclipse community. We wrap up with a glance into the crystal ball.

The Eclipse.org Tipping Point
Every once and a while, people forget that it is just not possible to create a universal framework for integrating software development tools, and another grand project is announced. These projects inevitably fail for the same reasons they have always failed: the scope is too limited to be interesting, the scope is too large to be implemented, the tools require developers to change certain habits, or the tools do not present enough standardization for integration to be observed. Those, and a thousand other reasons, have frustrated attempts to improve tooling, and therefore developer efficiency, beyond narrow technology and industry segments. Eclipse.org appears to be a tipping point in the making. This talk will address how and why this happened, and what the implications are for developers and the industry.

From IDE to XDE to CDE
Developing software-intensive systems always has been, is, and will remain essentially hard. As such, the entire history of software engineering can be characterized by a rise in level of abstractions, which is manifest in our programming languages, our methods, and our tools. This presentation will examine the role of tools in this spectrum of abstraction, from command line tools to IDEs and beyond. We’ll examine the seminal development along the way, developments that represented a state change in the developer experience, and project out to the developer experience we expect to see over the coming years.

The Business of Open Source
Any successful rebellion has to face the prospect of growth and success, and the open source movement is no different. Initially perceived as being about free stuff for pioneers, the need to scale to market-sized proportions looms large. This keynote will consider Benkler’s view that open source is “commons-based peer production” and explore possible futures for open source adoption.

Aspect-Oriented Programming
Aspect-oriented programming (AOP) is an important new development in programming languages and tools. This keynote will comprise a range of AOP material, from introduction, to advanced implications. And why the most important AOP development are still to come, and what we can expect to see at the programming language, design tool, and process levels. Also, why Java and Eclipse are the leading AOP platforms, and what needs to be done to retain that lead.
## Conference at a Glance

### MONDAY, FEBRUARY 2nd

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<th>Time</th>
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| 8:30 a.m. – 12:30 p.m. | **TUTORIAL** Getting Started with Eclipse  
Dwight Deugo, Espirity, Inc.  
**TUTORIAL** Contributing to Eclipse: Understanding and Writing Plug-ins  
Kai-Uwe Maetzel, Eclipse Platform Text Lead |
| 1:30 p.m. – 5:30 p.m. | **TUTORIAL** J2ME and Eclipse  
Michael van Meekeren, IBM  
**TUTORIAL** Contributing to Eclipse  
Steve Northover, SWT Team Lead; Silvio Quarti, SWT Technical Lead |
| 6:30 p.m. – 9:30 p.m. | DROP-IN PLUG-IN CLINIC |

### TUESDAY, FEBRUARY 3rd

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| 9:00 a.m. – 10:00 a.m. | **KEYNOTE:** Eclipse: State of the Union  
Erich Gamma and John Wiegand |
| 10:00 a.m. – 11:15 a.m. | **ECLIPSE AT WORK** Building Large-Scale Enterprise Applications with Eclipse  
Michael Bechauf, SAP AG  
**ECLIPSE AT WORK** Eclipse APIs: Lines in the Sand  
Jim des Rivieres, Eclipse Platform Committee  
**ECLIPSE AT WORK** Gild: An Environment to Facilitate Collaboration in Teaching and Learning  
Margaret-Anne Storey, University of Victoria |
| 10:15 a.m. – 12:00 p.m. | **EXHIBITS OPEN** |
| 10:45 a.m. – 11:15 a.m. | **BREAK:** 30 MINUTES |
| 11:15 a.m. – 12:00 p.m. | **ECLIPSE AT WORK** Edge-Computing Toolkit for WebSphere Studio  
Jay Parkhi, Akamai Technologies  
**ECLIPSE AT WORK** Eclipse Rich Client Applications—Overview of the Generic Workbench  
Nick Edgar, Eclipse Platform UI Technical Lead  
**ECLIPSE AT WORK** Eclipse in the Enterprise...Its Not Just Integrated Land Use, Transportation and Environmental Modeling  
Bjorn Freeman-Benson, University of Washington |
| 12:00 p.m. – 1:00 p.m. | **BREAK:** 60 MINUTES |
| 1:00 p.m. – 1:45 p.m. | **ECLIPSE AT WORK** The Intel VTune Performance Analyzer: Insights into Converting A GUI from Windows to Eclipse  
Aaron Levinson, Intel  
**ECLIPSE AT WORK** Extending Eclipse Share This Plug-in with the Ones You Love: Using PDE to Create an Eclipse Plug-in and Publish It on the Update Site  
Dejan Glogovac, Eclipse Update/Install Lead  
**ECLIPSE AT WORK** Subversion and Eclipse Essentials  
Greg Stein, CollabNet |
| 1:45 p.m. – 2:30 p.m. | **ECLIPSE AT WORK** UrbanSim: An Open-Source Tool for Integrated Land Use, Transportation and Environmental Modeling  
Bjorn Freeman-Benson, University of Washington  
**RICH CLIENT PLATFORM** Eclipse Rich Client Applications—Overview of the Generic Workbench  
Nick Edgar, Eclipse Platform UI Technical Lead  
**ECLIPSE AT WORK** Eclipse and Education: Insights into Converting A GUI from Windows to Eclipse  
Aaron Levinson, Intel  
**RICH CLIENT PLATFORM** Eclipse-based Applications—Java on the Desktop Revisited  
Todd Williams, Genuitec  
**ECLIPSE AT WORK** Using UML Views of J2EE Platform Elements to Improve Developer Productivity  
Emeka Nwafur, IBM Rational  
**RICH CLIENT PLATFORM** Eclipse Equinox Project Lead  
Jeff McAffee, Eclipse Equinox Project Lead  
**RICH CLIENT PLATFORM** Eclipse-based Applications—Overview of the Generic Workbench  
Nick Edgar, Eclipse Platform UI Technical Lead  
**ECLIPSE AT WORK** Being Extreme with Eclipse  
Joshua Kerievsky, Somik Raha, Industrial Logic  
**ECLIPSE AT WORK** Using UML Views of J2EE Platform Elements to Improve Developer Productivity  
Emeka Nwafur, IBM Rational  
**RICH CLIENT PLATFORM** Eclipse-based Applications—Java on the Desktop Revisited  
Todd Williams, Genuitec  
**RICH CLIENT PLATFORM** Eclipse Equinox Project Lead  
Jeff McAffee, Eclipse Equinox Project Lead  
**RICH CLIENT PLATFORM** Eclipse-based Applications—Overview of the Generic Workbench  
Nick Edgar, Eclipse Platform UI Technical Lead |
| 2:30 p.m. – 3:00 p.m. | **BREAK:** 30 MINUTES |
| 3:00 p.m. – 3:45 p.m. | **ECLIPSE AT WORK** Esto: An Eclipse based Embedded Software Development Tool  
Heung-Nam Kim, ETRI  
**RICH CLIENT PLATFORM** Inside the RCP Runtime: Dynamic Plug-ins and Beyond  
Jeff McAffee, Eclipse Equinox Project Lead  
**AGILE DEVELOPMENT IN ECLIPSE** Supporting Refactoring in Eclipse—Needs and Experiences from an XP-teaching Setting  
Boris Magnusson, Lund University |
| 3:45 p.m. – 4:30 p.m. | **ECLIPSE AT WORK** Using UML Views of J2EE Platform Elements to Improve Developer Productivity  
Emeka Nwafur, IBM Rational  
**RICH CLIENT PLATFORM** Eclipse-based Applications—Java on the Desktop Revisited  
Todd Williams, Genuitec  
**AGILE DEVELOPMENT IN ECLIPSE** Supporting Refactoring in Eclipse—Needs and Experiences from an XP-teaching Setting  
Boris Magnusson, Lund University  
**ECLIPSE AT WORK** Being Extreme with Eclipse  
Joshua Kerievsky, Somik Raha, Industrial Logic |
| 4:30 p.m. – 5:00 p.m. | **BREAK:** 30 MINUTES |
| 5:00 p.m. – 6:00 p.m. | **TECHNOLOGY EXCHANGE** IDE Implementors  
John Dumovich, Eclipse Tools Project Lead  
**TECHNOLOGY EXCHANGE** Eclipse and Education: Insights into Converting A GUI from Windows to Eclipse  
Aaron Levinson, Intel  
**TECHNOLOGY EXCHANGE** Eclipse and Education: Insights into Converting A GUI from Windows to Eclipse  
Aaron Levinson, Intel  
**TECHNOLOGY EXCHANGE** Eclipse XSD Project Lead; Ed Merks, Eclipse XSD Project Lead; Jim D’Anjou, IBM; Eric Chaland, IBM  
**TECHNOLOGY EXCHANGE** Eclipse and Education: Insights into Converting A GUI from Windows to Eclipse  
Aaron Levinson, Intel  
**TECHNOLOGY EXCHANGE** Eclipse and Education: Insights into Converting A GUI from Windows to Eclipse  
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**TECHNOLOGY EXCHANGE** Eclipse and Education: Insights into Converting A GUI from Windows to Eclipse  
Aaron Levinson, Intel |
| 6:00 p.m. – 6:30 p.m. | **BREAK:** 30 MINUTES |
| 6:30 p.m. – 8:30 p.m. | CONFERENCE RECEPTION AND POSTER GALLERY |
| 8:30 p.m. – 10:30 p.m. | BIRDS-OF-A-FEATHER |
## Conference at a Glance

### Wednesday, February 4th

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>9:00 a.m. – 10:00 a.m.</td>
<td><strong>KEYNOTE:</strong> The Eclipse.org Tipping Point</td>
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<tr>
<td>10:00 a.m. – 10:45 a.m.</td>
<td>ECLIPSE AT WORK</td>
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<tr>
<td>10:45 a.m. – 11:15 a.m.</td>
<td>B R E A K : 3 0 M I N U T E S</td>
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<tr>
<td>11:15 a.m. – 12:00 p.m.</td>
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<td>12:00 p.m. – 1:00 p.m.</td>
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<td>1:00 p.m. – 2:00 p.m.</td>
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<td>2:00 p.m. – 2:45 p.m.</td>
<td>DEMOS &amp; PODIUM TALKS</td>
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<td>2:45 p.m. – 3:15 p.m.</td>
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<td>3:15 p.m. – 4:00 p.m.</td>
<td>EXTENDING ECLIPSE</td>
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<td>4:45 p.m. – 5:00 p.m.</td>
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<td>5:00 p.m. – 6:00 p.m.</td>
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<td>7:00 p.m. – 10:00 p.m.</td>
<td>DROP-IN PLUG-IN CLINIC</td>
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### Thursday, February 5th

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<tr>
<th>Time</th>
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<tr>
<td>9:00 a.m. – 10:00 a.m.</td>
<td><strong>KEYNOTE:</strong> The Business of Open Source</td>
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<tr>
<td>10:00 a.m. – 10:45 a.m.</td>
<td>ECLIPSE AT WORK</td>
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<tr>
<td>10:45 a.m. – 11:15 a.m.</td>
<td>B R E A K : 3 0 M I N U T E S</td>
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<tr>
<td>11:15 a.m. – 12:00 p.m.</td>
<td>EXTENDING ECLIPSE</td>
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<td>12:00 p.m. – 1:00 p.m.</td>
<td>B R E A K : 6 0 M I N U T E S</td>
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<tr>
<td>1:00 p.m. – 2:00 p.m.</td>
<td><strong>KEYNOTE:</strong> Aspect-Oriented Programming</td>
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<td>2:00 p.m. – 2:45 p.m.</td>
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<td>2:45 p.m. – 3:15 p.m.</td>
<td>B R E A K : 3 0 M I N U T E S</td>
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<tr>
<td>3:15 p.m. – 4:00 p.m.</td>
<td>ECLIPSE AT WORK</td>
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<tr>
<td>4:00 p.m. – 5:00 p.m.</td>
<td>PANEL: Open Q&amp;A with the Eclipse Development Team</td>
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### Getting Started with Eclipse

**Dwight Deugo, Espirity Inc**

This tutorial is for people that have not yet worked with Eclipse. You'll explore Eclipse's architecture and become familiar with the plug-in mechanism. We will start with an overview of Eclipse and how to install and run it. Next, we will describe Eclipse's Workbench and its resources, views and perspectives. Next we will examine Eclipse's Java Development Tools that implement a Java IDE supporting the development of Java applications and plug-ins. We will then focus on how testing and debugging is done in Eclipse. Finally, we will introduce Eclipse's architecture and how it supports plug-ins. With this knowledge, you will be able to navigate through Eclipse, be able to create your own Java projects, packages and classes, and be ready to learn how to write plug-ins.

**Tutorial participants are invited to bring their laptops to get started with Eclipse by working on hands-on exercises.**

**Who should attend:** Java programmers interested in a tour of the Eclipse platform and IDE, its features and architecture.

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### Contributing to Eclipse: Understanding and Writing Plug-ins

**Kai-Uwe Maetzel, Eclipse Platform Text Lead**

Eclipse was designed from the ground-up with extensibility in mind. A scalable plug-in mechanism and a rich set of APIs enables developers to develop and explore new tools quickly, without having to start from scratch. This tutorial illustrates the full plug-in development cycle by way of an example. You'll explore Eclipse architecture and become familiar with the basic plug-in mechanism. With this knowledge, you will write and debug your first plug-in using Eclipse's Plug-in and Java Development Environments. You'll also add extension points to your plug-in to enable others to extend it. You will then package your extensible plug-in as a Feature and publish it with the built-in Eclipse Update Mechanism. Finally, you will set up and manage an Eclipse Update Site, a place for other Eclipse users to explore new features as well as finding upgrades.

During all these steps, you will learn the underlying Eclipse concepts and design ideas. You'll learn the rules you need to know to make your plug-ins good Eclipse citizens. In addition, you will receive many interesting insights on design challenges in large scale plug-in architectures.

**Tutorial participants are invited to bring their laptops and deepen their understanding by implementing practical exercises.**

**Who should attend:** Java programmers and experienced Eclipse users interested in learning to write plug-ins. Developers with an interest in large-scale plug-in architectures will also benefit from the insights into Eclipse.

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### SWT in Depth

**Steve Northover, SWT Team Lead**

This tutorial is aimed at experienced Java programmers who want to use the Standard Widget Toolkit to build graphical user-interface (GUI) based, applications.

The Standard Widget Toolkit is a Java class library for creating graphical user-interfaces. It was created, as part of the Eclipse project, to make it possible to build efficient, portable applications that directly access the user-interface facilities of the operating system. Using SWT it is possible to create applications in Java that are indistinguishable from native applications on the desktop. By breaking the task of building a graphical user-interface based application into component parts, and by showing how these are modeled in SWT and then providing a series of examples, we will provide a guided tour through the toolkit, focusing on what application programmers need to know.

**Requirements:** You’ll need to bring a laptop running at least version 3.0M6 of Eclipse, which you can download from http://download.eclipse.org/downloads/drops/R-3.0M6-200312182000/index.php. Your laptop can be running either Windows (98, NT, 2000, ME, or XP), Mac OS X (v10.2 Jaguar or v10.3 Panther), Linux (RedHat 9 or SuSE 8.2), or any of the other operating systems listed at http://www.eclipse.org/eclipse/development/eclipse_project_plan_3_0.html#TargetOperatingEnvironment. You need to have JDK 1.4.1 or higher.

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### J2ME and Eclipse

**Michael van Meekeren, IBM**

While Eclipse provides support for Java program development, such as editing, compiling and debugging, and it is readily extensible through its plug-in mechanism. We have been involved in the development of a set of plug-ins that support the building and launching of embedded applications (with support for various platforms, such as J2ME/MIDP, PocketPC and PalmOS). We will show how applications can be developed, compiled, analyzed and compressed to fit on really small devices. We will demonstrate how to debug applications running in either an emulator or on a real device.

We will also discuss how these Eclipse plug-ins were developed, what trade-offs we encountered, and what lessons we learned, and we will offer suggestions that will benefit future Eclipse plug-in writers.

This technical tutorial will include lots of actual code and reports on practical experience. We will provide background information on developing Java applications for resource-constrained environments, such as PalmOS, and explain what Java standardization processes are under way in this area.

**Prerequisites:** Attendees must have basic experience with Java and any integrated development environment (IDE).

**Format:** Lecture and demonstrations
experiences, ideas and enthusiasm as we attempt technical aspects of this trend and brainstorm about will consider both the technical and socio-tech-vant context while having access to a set of inte-students and educators can learn within a rele-vatory context is to facilitate data integration between tools in the debug perspective. Those who are building integrated debuggers should attend.

Tuesday, February 3, 5:00 p.m. – 6:00 p.m.

**IDE Implementors**

**John Duimovich, Eclipse Tools Project Lead**

The IDE implementors Technology Exchange is intended for people who are writing programming language IDEs on top of the Eclipse platform—in Java, C/C++, Smalltalk, Python, Ruby, Scheme, Pascal or any other language! Come to this working session to discuss the common issues in writing language IDEs. If you have written an Eclipse plug-in for your favorite language or even if you plan to write one and want to talk to others who have done it, this session is for you.

Tuesday, February 3, 5:00 p.m. – 6:00 p.m.

**EMF Technology in Practice**

**Frank Budinsky, Eclipse EMF Project Lead**

The Eclipse Modeling Framework (EMF) has been available for more than a year now, and its use as a rapid development tool and data integration framework for Eclipse plug-in de velopers is steadily increasing. The goal of this Technology Exchange is to share experiences and techniques between plug-in developers that are currently using EMF, and to get a sense of the range of applications that are being developed using EMF. Identification of shortcomings of the framework or generator, suggestions for future enhancements, effective techniques for working with EMF, are all welcome topics of discussion. Since one of the main purposes of EMF is to facilitate data integration between tools in Eclipse, experiences that either support or refute this goal would be particularly welcome. Experiences using the underlying EMF template-based generator framework (JET) are also welcome.

Tuesday, February 3, 5:00 p.m. – 6:00 p.m.

**Eclipse and Education**

**Margaret-Anne Storey, University of Victoria**

The goal of this technology exchange is to explore how Eclipse is currently being used and how it can be further leveraged as a platform for educational tools in computer science and software engineering. Currently, Eclipse is seeing some use in the classroom and workplace for introductory programming and software engineering courses, as well as for more advanced courses on testing, software design and evolution. One hypothesized advantage of this approach is that students and educators can learn within a relevant context while having access to a set of integrated and powerful tools. In this exchange, we will consider both the technical and socio-technical aspects of this trend and brainstorm about new possibilities. We invite people to share their experiences, ideas and enthusiasm as we attempt to improve education in computer science.
Eclipse APIs: Lines in the Sand
Jim des Rivieres, Eclipse Platform Committer
Useful and stable APIs are an important aspect of open systems like Eclipse. Designing good APIs and maintaining them is an interesting and ongoing challenge. Like the proverbial drawing of a line in the sand, the process of putting in an API starts in a wide open space of possibilities, and abruptly transitions into something quite constrained that must be held and defended. Drawing on our experience with the Eclipse APIs, this talk will discuss effective ways to draw the line, to make the line visible to all, and to move the line in response to a changing environment.

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Building Large-Scale Enterprise Applications with Eclipse
Michael Bechauf, SAP AG
Eclipse and its unique open platform extensibility has enabled dramatic improvements in the Java development process used by large-scale enterprise solution providers and has propelled Java application development productivity to unprecedented levels. The key to these breakthroughs has been tightly-integrated tools created on top of the Eclipse framework that have supported developers in all phases of the software development life-cycle essential for production of fully integrated solutions. These tools have employed declarative, model-driven development techniques that have allowed developers to focus on the essential domain-specific problems thereby improving efficiency of development and the quality of solutions. The future of the Eclipse platform will rely on the real-world feedback about advanced tools concepts that can best be provided by application solution developers. Their critical role and tight integration into the fabric of the Eclipse open source eco-system will lead to adoption by a wide range of industry sectors and drive continued technology innovation.

Making Eclipse Technology Accessible to People of All Abilities
Kip Harris, IBM
Successful access to information and use of information technology by people who have disabilities is known as “accessibility”. Accessibility is an important feature, not only because it enables people with disabilities to work with IT, but also because of US federal regulations which place accessibility requirements in procurement policies. Similar regulatory requirements are expected from local, state, and national governments in the US and other geographies. Furthermore, we expect accessibility requirements will cascade from the public sector into private industries, starting with the large companies. For example, IBM currently includes accessibility requirements in its purchasing specifications.

Eclipse has provided important Accessibility features in each of the 2.0, 2.1, and 3.0 releases. Developers using Eclipse technology need to be aware of these features in order to ensure that their applications are enabled for accessibility and meet the requirements just referenced. In this session, we will discuss what the developer needs to know about accessibility in the Eclipse framework. We will also demonstrate Eclipse working with an assistive technology.

Scaling Large Eclipse Applications Progressively
Todd Creasey, Eclipse Platform UI Committer
Many Eclipse based products have a huge amount of functionality making them very complete but intimidating and cluttered. Through progressive disclosure an Eclipse application can show functionality as the user discovers it and filter content until the user is ready to use it. In this talk we explore how to make a less cluttered initial user experience, tailoring an Eclipse product for different users and gradually making functionality available as the user learns the product.

Subversion and Eclipse
Greg Stein, CollabNet, Inc
Subversion is a brand new version control system, intended to replace CVS. It provides an easy, fast, and capable version control system for your every-day needs. No longer do you need to suffer with CVS’ foibles—switching from CVS to Subversion is quite easy to do. This talk will describe Subversion, compare and contrast it against CVS, and discuss and demonstrate Subclipse, a plug-in that provides Subversion integration into Eclipse.
Share This Plug-in with the Ones You Love: Using PDE to Create an Eclipse Plug-in and Publish It on the Update Site
Dejan Glozic, Eclipse Update/Install Lead
During this presentation, you will be taken through the process of using the Plug-in Development Environment to create a lowly “Hello, World” plug-in, creating an installable feature for it, creating an Eclipse update site to share it with others, and using Eclipse Update to find it and install it into another Eclipse application. We will then create an update for it, and let automatic background update search find it. Finally, we will show how local administrators can mirror the site behind the firewall to conserve bandwidth and minimize download failures.

The Intel VTune Performance Analyzer: Insights into Converting a GUI from Windows to Eclipse
Aaron Levinson, Intel
Intels VTune Performance Analyzer tool is currently available on Microsoft Windows platforms with both a GUI and command line user interface and on Linux with a command line interface. This presentation provides details and insights gathered by the VTune analyzer engineering team as it converted the VTune analyzer to the Eclipse 2.1 framework. Previously, the team had undertaken the task of implementing a command line interface for a formerly GUI-only Windows product and making this interface available on both Windows and Linux, thereby providing the industry with the first native version of the VTune analyzer running on Linux. The next step was to provide a GUI for the product on Linux while continuing to support existing Windows GUI code, code that includes the ability to plug-in to Visual Studio .NET.
Eclipse was eventually chosen as the GUI framework for Linux, requiring the conversion of code written predominantly in MFC to Eclipse-centric Java. High-level source code organization, translation of existing Windows GUI behavior to Eclipse, and the use of undocumented Eclipse features are just some of the insights presented in this talk.

UrbanSim: An Open-Source Tool for Integrated Land Use, Transportation and Environmental Modeling
Bjorn Freeman-Benson, University of Washington
UrbanSim is “SimCity done for real”—an open source simulation model for integrated planning and analysis of urban development, incorporating the interactions between land use, transportation, the environment, and policy. Our agent-based model is behavioral and thus the operation of UrbanSim is fairly simple to understand, yet is still able to capture complex interactions in the markets for land, development, and transportation. It is a valuable tool for improving the level of understanding of how a metropolitan region is developing and how various combinations of land use and transportation policies and investments are likely to shape these trends. Some of the issues of interest, such as affordable housing, are easily within the scope of the model, since it deals with predicting housing prices, and aggregates households by income as well as other characteristics, and can capture the affordability impacts of alternative scenarios.
UrbanSim is interesting to the EclipseCon audience because UrbanSim is one of the first non-code IDE uses of Eclipse; UrbanSim uses Eclipse as an integrated development environment for urban simulations and simulation scenarios. Urban simulations consists of four major phases: base year data preparation, scenario design, simulation, and results analysis. The base year database contains a description of the municipal areas land parcels, households, employment, zoning, transportation links, etc. A scenario is a delta on that base year—for example, “what if we build a new freeway?” or “what if we change the zoning in these neighborhoods to allow mixed use development?” Once the simulation run is complete, UrbanSim provides an extensible mechanism for evaluating the “goodness” of the results—in the planning community, these evaluations are known as “indicators” as in “an indicator of housing affordability” or “an indicator of employment density”. UrbanSim uses the Eclipse resource navigator along with UrbanSim-specific resources, editors, views, buttons, wizards (and all the rest of the Eclipse stuff) to provide the user with an IDE for urban simulation. We have user tested our IDE and have found generally good acceptance of the Eclipse user model amongst our urban planning user community—computer savvy, but not Java knowledgeable, senior planners at regional planning agencies.
In this talk, I will start by describing UrbanSim, the political issues arising from our customer’s uses of UrbanSim and how open source helps mitigate those issues. I will continue with our mostly positive experiences creating a non-code IDE on top of the code-IDE-centric Eclipse platform. I will conclude with gracious acknowledgment of our sponsors and perhaps finish with a witty quip.

Inside the RCP Runtime: Dynamic Plug-ins and Beyond
Jeff McAffer, Eclipse Equinox Project Lead
The Eclipse community is increasingly interested in using Eclipse in non-tooling scenarios—as a so-called “Rich Client Platform”. These scenarios challenge the Eclipse runtime to support dynamic plug-ins, increased configurability and security without undue changes in API and level of function. This talk details how the Eclipse 3.0 runtime addresses these challenges.

Esto: An Eclipse-based Embedded Software Development Tool
Heung-Nam Kim, ETRI
In this talk we will introduce the activities of ETRI, the national research institute of Korea. We’ll focus on the work of the Embedded Software Research Center which includes digital home solutions such as home server set-top PDAs and embedded media players. One of the center’s primary projects has been the development of Esto (Embedded Systems Tool), an Eclipse based IDE that features a Remote Debugger, Project Manager, Tracer, and the first Power Monitor and DDK (Device Driver Development Kit) plug-in tools for Eclipse.
**Supporting Refactoring in Eclipse—Needs and Experiences from an XP-teaching Setting**  
**Boris Magnusson, Lund University**

Eclipse supports performing basic refactorings, but merging parallel development including refactorings still frequently go wrong. Our experience from using Eclipse for teaching XP in projects show that refactorings still are best done when nobody else changes the system in parallel. This is contrary to how we want the students to practice XP with tight interactions and short development cycles. The situation can, however, be much improved by using advanced Configuration Management techniques. We demonstrate how storing information on which refactorings have actually been applied, can support merging refactorings with other edits and provide a consistent result. This also when the refactorings and edits interfere with each other. There is thus a potential to make refactorings a lightweight operation rather than a pre-planned activity also in a multi developer environment.

The talk will also describe how we teach XP in very intense projects with 10 students working concurrently using Eclipse. It will also discuss how the CM support for refactorings may improve the situation for changing published interfaces, a problem today with grave consequences for long-lived systems.

**Using UML Views of J2EE Platform Elements to Improve Developer Productivity**  
**Emeka Nwafor, IBM Rational**

This presentation discusses how UML can be used to provide an alternate view of code that facilitates the developer in gaining and communicating important aspects of a J2EE application—aspects that aren't easily surfaced by a developer when working with the standard Java editors and Deployment Descriptor editors. The presentation will focus on technology being developed jointly by the Rational and WebSphere teams for the Studio tools for the Java platform. The presentation will include a technical overview of how the Eclipse JDT, EMF, and GEF technologies have been leveraged together with UML 2.0 to provide the developer with tools that facilitate the navigation, understanding, analysis, and communication of enterprise applications built on the J2EE platform. A demo of these capabilities will also be provided.
Lotus Workplace: Rich Client Platform
Richard Wilson, IBM Lotus
Come learn how IBM is using the Eclipse platform as part of the Lotus Workplace offerings. A major goal of Workplace is to support a variety of client access points such as browser, mobile and rich client. This session will showcase how Lotus is using the Eclipse platform as the basis for the Lotus Workplace Rich Client Platform and will include demonstrations of some of the offerings using this platform. Finally, we will cover how we are working closely with the Equinox and Eclipse teams on the development of the RCP theme in Eclipse 3.0.

Eclipse for PHP Developers
Christopher Judd, Judd Solutions
Learn how the open source Eclipse IDE and PHP plug-ins can increase PHP developer productivity. This session will explain installation and configuration of the PHP plug-ins as well as specific PHP wizards, editors and debugger.

JIT Software Development: Inside the Eclipse Development Process
Kevin Haaland, Eclipse Project PMC
Shipping releases on time for a large, geographically distributed software team with a complex, established codebase, defies the natural rules of people, geography and software development. While we haven’t changed any natural laws, the Eclipse development process has found ways to help mitigate the problems working in this environment. In this talk we’ll describe the Eclipse release process, some of the basic principles of how our teams work together and the important elements of the planning process.

Experiences with Rich Client Application Development
Frank Gerhardt, SENS
Chris Wege, DaimlerChrysler AG
We share our experiences in developing the GDFSUITE rich client application for processing geographic data. GDFSUITE is designed for extensibility and uses the Eclipse plug-in mechanism itself for extending the suite. Currently we use Eclipse 2.1 as basis for our application. We discuss issues related to the migration to the Rich Client Platform of Eclipse 3.0.

Using Eclipse CDT for C/C++ Development
Sebastian Marineau, Eclipse CDT Project Lead, QNX
The open-source CDT project provides a cross-platform C/C++ tooling environment for multiple development hosts and target systems, allowing even large development teams to standardize on one IDE. Moreover, its widely supported plug-in architecture makes it possible to integrate tools from multiple vendors; developers can, in effect, take a best of breed approach to their tool selection. This presentation provides an introduction to the CDT architecture and components, and uses many live examples to show how to best take advantage of its features. Participants will also get an overview on how to integrate other tools with the CDT.

Manipulating Java Programs
Dirk Baeumer, Eclipse JDT UI Lead
Philippe Mulet, Eclipse JDT Core Lead
The Java Development Tooling (JDT) adds Java program development capabilities to the Eclipse platform. In addition to the environment itself a set of APIs are provided to further extend the JDT. In particular, it offers services to introspect and manipulate Java source code.

 text Editors and How to Implement Your Own
Kai-Uwe Maetzol, Eclipse Platform Text Lead
This talk introduces the world of Eclipse text editors to you. It will start with a brief architectural and conceptual overview helping you to understand the functionality provided by the Eclipse Platform and where it is implemented. It will then dive into the details such as syntax highlighting, content assist, rulers, annotations, hovering, and quick diff thereby pointing out differences between the current development stream and previous versions.

Eclipse Integration Lessons from the Trenches
Tan Phan, SlickEdit Inc
The Eclipse framework provides many opportunities for developers to create plug-ins and make modifications to further integrate advanced functionality into the Eclipse workbench. In this session, Tan Phan will demonstrate specific integration challenges and solutions, along with sharing experiences so that others may accelerate their own development. Examples that are applicable across many types of integrations will be covered, such as overriding the Eclipse workbench key bindings, addressing logging errors, and removing or fitting duplicated functionality. Any developer writing plug-ins or using the Eclipse framework to develop other Eclipse-based products will want to integrate with the workbench help system. Tan will demonstrate how far SlickEdit was able to go with the online help system, including help content, searching, indexing, tutorials, and product documentation. Finally, branding considerations will be discussed, focusing on providing a cohesive user experience for all integrated products.

Developing Web Services with Open Source and Eclipse
Claire Rogers, HP
Over the past year, Web services have been positioned as a key enabler to application integration and B2B integration. Companies such as Amazon.com and Google have already deployed web services, with real, demonstrated business value. Many software development vendors have made large investments in supporting the web services development process. However, for some companies just beginning to investigate the value of web services, the cost required to begin might pose a huge barrier. How then can development shops begin to explore this new and emerging technology? If cost is an issue during the investigation stage, high-priced development tools may not be an option, and teams may often have to look to Open Source to get started. This session takes an in-depth look at the web services development process, and the tools that can be used to get started quickly. Tools such as Apache Axis, Ant, and Tomcat will be integrated with the Eclipse programming environment, demonstrating how a Java-based component can be exposed and accessed as a web service.
Technical Talks

Wednesday, February 4, 3:15 p.m. – 4:00 p.m.

Getting Started with Aspect-oriented Programming in Eclipse
Andy Clement, Eclipse AJDT Project Committer

Mik Kersten, Eclipse AJDT and AspectJ Project Committer

AspectJ is a seamless aspect-oriented programming (AOP) extension to Java. It can be used to cleanly modularize the crosscutting structure of concerns such as exception handling, multi-object protocols, synchronization, performance optimizations, and resource sharing. When implemented in a non-aspect-oriented fashion, the code for these concerns typically becomes spread out across entire programs. AspectJ controls such code-tangling and makes the underlying concerns more apparent, making programs easier to develop and maintain.

The AspectJ Development Tools Plug-in for Eclipse (AJDT) fully integrates the AspectJ language into Eclipse. This session will provide an introduction to using AJDT, demonstrating how it is easy to progress from traditional Java development to a situation where you can exploit AspectJ. During the session we’ll look at mining crosscutting concerns from some existing Java code base, debugging aspects, using aspects to enforce rules, and extending the core function of programs using unplugable aspects. The latest AJDT provides tighter integration with the JDT features that Java programmers are accustomed to, along with new capabilities that surface the aspect-oriented structure of a system.

Web Development with the Eclipse Platform
Jochen Krause, Innoopract

Eclipse and Web development have not been a natural fit in the past. This session gives an overview of the variety of open source and commercial tools available for J2EE development, Web development frameworks and app server infrastructure support. Future developments of the Platform and resulting opportunities for web development will be explored.

Wednesday, February 4, 4:00 p.m. – 4:45 p.m.

Integrating Team Tools into Eclipse
Michael Valenta, Eclipse Platform Team Committer

The Eclipse platform provides API that allows repository vendors to integrate richly into Eclipse. This allows repository providers a means to surface their functionality to users in a way that makes sense for each repository type. This API is successful in that it provides repository vendors a level of integration that is not possible in other IDEs. However, the cost of entry is high in the sense that each repository vendor must implement all of their own GUI components and workflows. Also, although the API provides mechanisms for surfaced repository operations in the workbench GUI, there is no API defined for programmatically invoking repository functionality. This talk will discuss integrating support for repositories into Eclipse including plans in Eclipse 3.0 for lowering the bar of entry for implementing repository providers. In addition, the possibility of promoting a generic Team API for use by 3rd party tools will also be discussed.

Java Application Lifecycle Management—Development Through to Deployment
Brad Van Horne, MKS Inc.

Organizations running mission critical Java applications have a growing need for a managed, repeatable process to reliably develop, build and deploy these applications. This presentation, targeted at development managers and production deployment specialists will address the following concerns:

• How can development teams work on multiple versions of their application, while guaranteeing no unplanned changes are introduced into production when fixes are required?
• How can an Eclipse development team reduce the time spent on destabilizing manual source code merging and unproductive ANT scripting?
• How can an engineer clearly see the status of every file in their Java project allowing them to make informed development decisions?
• How do you deploy what was tested while taking into account that different environment variables are likely needed for test and production?

The attendee will learn how to implement a repeatable software development process that provides control over costs and quality without inhibiting their developer’s creative talents.

Wednesday, February 4, 4:00 p.m. – 4:45 p.m.

Rapid Plug-in Development and Integration Using EMF
Sridhar Iyengar, IBM
Ed Merks, Eclipse XSD Project Lead

Many programmers, especially the experienced ones, often have little or no use for modeling. Maybe a class diagram or two to fill out the documentation, but other than that, it simply doesn’t seem to help. Well, what if there was a framework/toolkit that brought you the benefits of modeling with a very low cost of entry? Enter the Eclipse Modeling Framework (EMF). EMF is a framework and code generation facility for building robust applications based on surprisingly simple models. Models can be defined in several different ways—Java interfaces, XML Schemas, UML/EMOF—from which EMF will generate a large part of the application. The generated code is clean, efficient, and easily hand modified. You can even regenerate the model after changing the code, without wiping out your changes. This talk will describe and demonstrate EMF, showing how it brings the benefits of modeling to the mainstream Java programmer and how EMF and modeling facilitate tool/application integration. The talk will also give a brief overview of MDA (Model Driven Architecture) and explain how EMF forms the foundation of an Eclipse MDA tools platform.
**Technical Talks**

**THURSDAY, FEBRUARY 5**

**Inside SWT**
Steve Northover, SWT Team Lead

This session will provide the definitive overview of SWT from the point of view of its original designer and the current leader of the development team.

**Integrating Software Development Kits into the Eclipse Platform**
Steve Forsyth, HP

Do you want to provide Eclipse integration for a different library? Most Java code libraries, for example Jakarta’s Log4J, are not integrated into a development environment. Many libraries come with only an ant script and/or a bat file to help the end-user explore code samples that utilize the library’s API. After manually building library integration plug-ins several times, we decided to leverage Eclipse to provide a more productive environment for working with these libraries.

We constructed an integration tool which produces plug-ins that expose the library’s sample code as Eclipse projects. The plug-ins integrate with the Eclipse help system to provide library documentation (e.g. its javadoc) as well as plug-in usage instructions. The generated plug-ins can be utilized as is or may act as the starting point of a more full-featured plug-in.

**Why Integrate Test, Trace, Log and Performance Tools Via Hyades?**
Michael G. Norman, Scapa Technologies

Hyades is an Eclipse Tools Sub-project providing an infrastructure for integrating test, trace, log and performance tools at both the user interface and the data level. Hyades applies across the lifecycle from development through test and into production and is also applicable to systems integration in environments where no source code is present. Hyades provides a range of tools and tool components which operate inside that infrastructure, and extension points where vendors can add higher-value commercial plug-ins from profiling, testing, through log analysis, to systems performance and autonomic management. This talk explains the benefit that the unprecedented level of tools integration provides to the user of the tool, to the tools vendor seeking to provide high-value innovative tooling to customers, and to the vendor or integrator of the system to which the tools interface.

**Writing Responsive UIs Using the Eclipse 3.0 Concurrency Architecture**
John Arthorne, Eclipse Platform Core Committer
Jean-Michel Lemieux, Eclipse Team Component Lead

One of the goals of Eclipse 3.0 is to make the UI appear more responsive. One approach to addressing this involves moving time-intensive operations into background threads to allow the user to continue working. This required the creation of a concurrency infrastructure to manage interactions between background and foreground operations. New UI facilities were also needed for reporting progress on things happening in the background, adding indicators to views containing information in flux, and resolving situations where user activity collided with ongoing background operations. This talk will introduce the new concurrency architecture and UI facilities, giving examples of how to apply them in your own plug-ins. You should attend this talk if you are an intermediate to advanced Eclipse developer looking to write new plug-ins or adapt old plug-ins to play well in a more concurrent environment.

**The Eclipse Modeling Framework and MDA: Status and Opportunities**
David Frankel, David Frankel Consulting

The Eclipse Modeling Framework (EMF) and the OMG’s Model Driven Architecture (MDA) are pushing model-oriented strategies and techniques forward in the industry. This session will examine the relationship between these two initiatives. It will also explore the potential for this relationship to work synergistically with other model-centric movements including Generative Programming, Domain-Specific Languages, Product Line Practices, and Model-Integrated Computing.

**Keep on Swinging—Productivity Layers on Top of SWT**
Karsten Schmidt, SAP AG

We introduce some concepts that aim at increasing the productivity of tool development and at supporting the development of homogeneous UIs across an Eclipse based application—in our case SAP NetWeaver Developer Studio.

For Swing programmers, SWT/JFace is a low-level UI approach lacking many of the higher-level Swing concepts. Integrating Swing UIs into Eclipse is not an option if you want to achieve a consistent Look and Feel. We introduced a software layer on top of SWT / JFace that caries some Swing concepts to the SWT world. It supports the container/control approach based on add methods. Instead of directly assigning Windows style bits to public member attributes, you use swing-style methods to configure your UI parts. Different Look &Feels are possible by delegating the creation of widgets to a Widget Factory. Finally, Swing table and tree models can be used to create JFace tables/trees. This keeps the strict model/view separation and allows the reuse of existing models. All of this sits on top of SWT instead of replacing it. Thus native SWT programming is still possible. We also introduce ways how to ensure simple, well-designed usage patterns for a consistent UI approach across any application. Reusable UI components are the building blocks of such patterns. The predefined set of components includes: a Method editor, a Tree Selector, and several standard dialogs like a Message Dialog. Finally, we explain advanced techniques for image handling. We distinguish between globally available images and those belonging to one plug-in but also meant to be used by others. The reuse of both sorts is supported through a central access and administration layer.

**The Visual Editor Project—Flexible GUI Building for Eclipse**
David Orme, Eclipse Visual Editor Project Lead, ASC

You’ve likely spent time working with or looking at Swing-based UI applications. Perhaps you’ve heard about the Standard Widget Toolkit (SWT), and the fact that it’s a cross-platform, open source GUI toolkit for the Java programming language. But the most recent news is that Eclipse has just added a GUI builder project for Eclipse! In this session, David Orme, the leader of the new Eclipse Visual Editor project will take you through the ins and outs of the GUI builder being created for Eclipse, and how it will impact graphical user interface developers.
It is unimaginable how many times software development organizations find and fix the same errors over and over again. Our industry must mature the software development process. It is no longer reasonable to address software quality issues by simply “testing” applications, “chasing” errors one by one, and providing “bug fixes.” The cost of this process and the resulting faulty software is too high.

However, the concept of Automated Error Prevention (AEP) can help break this cycle. AEP is a concept that advocates finding an error once and implementing practices to prevent the entire class of errors from ever happening again. The ultimate goal of AEP is to reduce the cost of software development and increase overall product quality and reliability. This concept, with automation, introduced into each phase of the software development lifecycle will prevent entire classes of errors from ever entering the source code.

The availability of tools that help developers perform unit testing within Eclipse makes it easier than ever before for users to enjoy the benefits of implementing AEP into this phase of the software lifecycle. Developers can simultaneously improve software reliability and reduce development time by performing thorough unit testing as soon as they complete each application component. When unit testing is performed immediately after every unit is compiled, developers not only detect errors that would evade other levels of testing, but also prevent errors from occurring in the first place.

This presentation describes the concept of Automated Error Prevention (AEP) within Eclipse. It begins by explaining how AEP can be implemented into the development lifecycle and then proceeds to show how developers can perform thorough, immediate unit testing within Eclipse.
**Eclipse in the Enterprise…Its Not Just for Development Tools Anymore!**

**CHAIR: Mike Taylor, Instantiations**

This panel will explore the use of Eclipse as an application building platform. An increasing number of organizations are using Eclipse not as a software tools platform, but as a general application construction environment. Panel members from a wide range of industries will share their technical and political experiences as they brought Eclipse into their organizations and used it to build applications for their internal or external customers.

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**Tools Interoperability—Benefit or Burden?**

**CHAIR: Michael Bechauf, SAP AG**

Even though Eclipse has grown to be a strong force in the developer tools market, today it is still a reality for add-in providers that they need to implement their plug-ins multiple times to fit other IDEs as well. Since most add-in providers target their products for multiple IDEs, this results in significant additional development costs. Recently, standardization activities such as JSR 198 are attempting to define cross-IDE APIs which will reduce the effort or even completely eliminate porting plug-in code from one platform to another. However, there are many points to consider to determine whether or not standardization is truly beneficial to the Java tools community. For example:

- Does the current platform diversity foster innovation? Would this benefit be lost or reduced with standardization?
- While tools interoperability would be a benefit for add-in providers who target multiple IDEs, will the lack of a unified API will be more of a burden for the Java tools market?
- Can we really create a complete set of cross-IDE APIs? If so, will the resulting implementation simply be another universal tool integration platform?

This discussion is important for the industry overall and the expert panel will summarize the essential positions. The goal of the panel is to inform conference attendees of recent trends and to increase understanding of the various viewpoints. The panel will not attempt to draw a final conclusion, but will present facts and findings. The jury is still out there: it is up to the audience to make their decision.

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**Open Q&A with the Eclipse Development Team**

**CHAIR: John Wiegand, Eclipse Platform Lead**

The Q&A session will be designed by you, the EclipseCon attendees! We’ll provide cards in advance throughout the conference for you to jot down your Q&A questions or topic suggestions. Before the session, we’ll try to structure the topics in a way that we can create a “custom” discussion for the audience with members of the Eclipse development team. This will be your chance to ask questions or raise topics that we haven’t covered in the sessions, that may have arisen from a session or simply something you heard in a discussion that would be interesting to all participants!
**JOHN ARTHORNE**

**Eclipse Platform Core Committer**

John Arthorne has been a committer on the Eclipse project since its inception, and has been working on the underlying technology in Eclipse since 1998. He has been a key contributor to many areas of the platform, including the core runtime, resource model, JFace, the platform UI, CVS/Team integration, and the incremental Java builder. Before starting with Eclipse, John worked for Object Technology International where he helped develop the VisualAge Micro Edition Java IDE. He now works at the IBM software lab in Ottawa, Ontario.

**TECHNICAL TALK: Writing Responsive UIs Using the Eclipse 3.0 Concurrency Architecture**

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**DIRK BAEUMER**

**Eclipse JDT UI Lead**

Dirk Baumer leads the Eclipse JDT/UI team and is a member of the Eclipse architecture team. He has been a committer on the Eclipse project since it began, working as a senior developer on JFace, the generic workbench and the Java development tooling. His interests are in the areas of user interfaces, source code transformation (refactoring in particular), development environments and object oriented software architectures. Before joining IBM OTI Labs Dirk was working on SNiFF+ an award winning development environment for C/C++ and other programming languages.

**TECHNICAL TALK: Manipulating Java Programs**

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**BRIAN BARRY**

**Bedarra**

Brian Barry is currently CEO of Bedarra Research Labs. From 1991-2002 he served variously as Chief Scientist, CEO, President and CTO at Object Technology International, Inc. Under his leadership OTI developed the Eclipse IDE Platform, IBM VisualAge for Java, and IBM VisualAge MicroEdition for embedded systems. Brian has over 20 years of experience in the design and implementation of object-oriented and component-based systems, including distributed, client/server, embedded and real-time applications. He has published a number of research papers and articles on a wide variety of subjects, including simulation, OO applications, systems integration, embedded systems and software engineering, and is a frequent speaker on object technology. Brian is a founding member of eclipse.org and holds several Board level positions with that organization. He has served on the Program Committees for software conferences such as OOPSLA, ECOOP, AOSD and Agile Development. Brian was a charter member of the ANSI Smalltalk committee and a co-author of the Smalltalk standard. He remains active in research review boards and committees. He holds a Ph.D. from Queen’s University.

**TECHNOLOGY EXCHANGE: eTx: Eclipse and Research**

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**GRADY BOOCH**

**IBM Rational**

One of the original developers of the Unified Modeling Language (UML), Grady Boocho is recognized internationally for his innovative work on software architecture, modeling, and software engineering processes. A renowned visionary, he has devoted his life’s work to improving the effectiveness of software developers worldwide. Grady served as Chief Scientist of Rational Software Corporation from 1980-2003, and continues to serve as principal architect and mentor of software development solutions within IBM Software Group.

One of the co-creators of Rational Rose and other products, Grady has served as architect and architectural mentor for numerous complex software systems around the world. Author of 13 highly informative technology-based books, Grady is a member of the Association for Computing Machinery (ACM), the Institute of Electrical and Electronics Engineers (IEEE), the American Association for the Advancement of Science (AAAS), and Computer Professionals for Social Responsibility (CPSR). He is also an ACM Fellow and a Rational Fellow. Grady received his BS in engineering from the United States Air Force Academy in 1977 and his MSEE from the University of California at Santa Barbara in 1979.

**Keynote: From IDE to XDE to CDE**

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**GARY BRUNELL**

**Parasoft**

Gary Brunell, Vice President of Professional Services, joined Parasoft in the Fall of 2001 to develop and head the company’s Professional Services division. Brunell is responsible for spearheading delivery services, technical support and training initiatives as well as establishing process-improvement infrastructure. Brunell brings over twenty years of sales and marketing experience in the high tech industry. He has been responsible for business development, professional services and organizational growth at Hewlett Packard, Texas Instruments and Sybase Inc. Most recently as Director of Professional Service at Kabira and New Era of Networks, Brunell managed and supported sales force efforts by designing and executing proof of concepts, pilot projects, sales campaigns and marketing events, and development of standardized presentations and demonstrations. A member of the Software Engineering Institute, the American Management Association and the American Association of Advancement of Science, Brunell received his engineering degrees in Computer Science from the University of Illinois.

**TECHNICAL TALK: Stop Chasing Errors—Prevent Them by Performing Unit Testing in Eclipse**

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**FRANK BUDINSKY**

**Eclipse EMF Project Lead**

Frank Budinsky, leader of the Eclipse EMF project, is co-architect and an implementer of the EMF framework and code generator. He is a software engineer in IBM’s Software Group and lead author of the book Eclipse Modeling Framework.

**TECHNOLOGY EXCHANGE: EMF Technology in Practice**

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**MICHAEL BURKE**

**IBM Research**

Michael G. Burke is a Research Staff Member with the Programming Technologies Department of the IBM Thomas J. Watson Research Center. His current research interests include integration of Java and XML programming, program analysis, and optimizing object-oriented languages. Since July 1, 2003, Michael has been Chair of the ACM SIGPLAN Executive Committee.

He received his Ph.D. in 1983 in computer science from the Courant Institute of New York University. He has been a Research Staff Member at IBM Research since March 1983, where he has managed numerous projects. Michael has authored numerous journal and conference publications and numerous patents issued by the U.S. Patent Office.

**TECHNOLOGY EXCHANGE: eTx: Eclipse and Research**
ERI CHALAND
IBM
Eric Chaland, an Advisory Software Developer, works for the WebSphere Studio Jumpstart ISV Enablement team at the IBM Toronto Software Lab. He engages with key WebSphere Studio tools partners, providing technical guidance and support as they integrate into the WebSphere Studio set of products. His focus is on enabling partners to the WebSphere Studio Application Developer J2EE component and EMF framework.

TECHNOLOGY EXCHANGE: EMF Technology in Practice

ERIC CLAYBERG
Instantiations
Eric Clayberg is Senior Vice President of Product Development at Instantiations, Inc. Eric is a seasoned software technologist, product developer, entrepreneur, and manager with more than 15 years of commercial software development experience, including six years of experience with Java and three years with Eclipse. He is the primary author and architect of more than a dozen commercial Java and Smalltalk add-on products, including WindowBuilder Pro, CodePro Studio, and the award winning VA Assist Enterprise product line. He holds a Bachelor of Science degree from MIT and an MBA from Harvard, and has co-founded two successful software companies. He is also co-authoring a book entitled Eclipse: Building Commercial Quality Plug-ins, due in 2Q2004 (Addison Wesley).

TECHNICAL TALK: Battlefied Experiences with Eclipse: Supporting Multiple Eclipse Versions Simultaneously

ANDY CLEMENT
Eclipse AJDT Project Commiter
Andy Clement is a senior software developer at IBM Hursley Park in the UK. He has almost ten years of experience in transaction processing and enterprise middleware development. He is one of the founders of the AspectJ Development Tools for Eclipse project and is currently involved in the use of aspects in J2EE middleware—to make life easier for middleware developers and end users.

TECHNICAL TALK: Getting Started with Aspect-Oriented Programming in Eclipse

TOD CREASEY
Eclipse Platform UI Committer
Tod Creasey has been working with the OTI labs team since 1993 on a variety of IDEs starting with Envry/Developer and progressing through the Visual Age family of Smalltalk and Java IDEs. Tod joined the Eclipse team during the tech preview and has been a member of the Workbench team since the tech preview shipped.

TECHNICAL TALK: Scaling Large Eclipse Applications Progressively

JIM DES RIVIERES
Eclipse Platform Commiter
Jim des Rivieres has been involved with architecture of the Eclipse Platform and JDT infrastructure and the design of the Eclipse APIs. Jim is also the Eclipse articles editor, and co-author of the book The Art of the Metaobject Protocol. His interests include API design and evolution, programming languages, and digital photography. Jim is a committer on the Eclipse Platform in the IBM OTI Lab in Ottawa.

TECHNICAL TALK: Eclipse APIs: Lines in the Sand

JIM D’ANJOU
IBM
Jim D’Anjou is a Senior Software Engineer at the IBM Silicon Valley Lab in San Jose, California. He has a degree in Computer Science from the University of California at Berkeley. Jim has over 25 years of industry experience at IBM and elsewhere. He has held a variety of technical and management positions developing products for relational databases, database tools, application repositories, and application development tools. He holds two U.S. patents for work in software process automation. In March 2001 he joined the Eclipse Jumpstart team and consults with business partners enabling to the Eclipse Platform. He is a contributing author to the book The Java Developer’s Guide to Eclipse.

TECHNOLOGY EXCHANGE: EMF Technology in Practice

RICHARD DUGGAN
IBM
Richard is a committer for Hyades, an Eclipse tools project. Located at the IBM Toronto Lab, Richard has worked on several IBM product offerings that are based upon Eclipse. Richard leads a small team of developers focused on problem determination. Many parts of Hyades are based upon this work.

TECHNOLOGY EXCHANGE: Tracing, Logging and Monitoring Performance in Eclipse

JOHN DUIMOVICH
Eclipse Tools Project Lead
John Duimovich, IBM distinguished engineer, has been the lead designer and implementor for OTI/IBMs virtual machine technology for the past ten years. He has designed virtual machines for a wide range of platforms, from the implementations for embedded and real time systems to those for IBM mainframe systems. John has played a key role in the development of ENVY/Smalltalk, VA/Smalltalk, and VA/Java. John is currently serving as lead of the Eclipse Tools PMC.

TECHNICAL TALK: How to Build Your Favorite Language IDE

TECHNOLOGY EXCHANGE: IDE Implementors
NICK EDGAR
Eclipse Platform UI Technical Lead
Nick Edgar has been a member of the Eclipse team since its inception, contributing to the workspace model, the Java model, builder, and indexing mechanism, and to JFace and the Platform UI. His current focus is on broadening Eclipse’s mandate from “an open extensible IDE for anything and nothing in particular” to “an open extensible application platform for anything and nothing in particular”.

TECHNICAL TALK: Eclipse Rich Client Applications—Overview of the Generic Workbench
TECHNOLOGY EXCHANGE: Implementing Rich Client Applications

STEVE FORSYTH
HP
Steve Forsyth is a senior software engineer with Hewlett Packard’s Management Software Organization, supporting solutions for managing applications in an IT data center. Steve has 15 years of software development experience, with a focus on object-oriented programming, software development tools, and distributed systems technology. He has been building plug-ins for Eclipse since November 2001.

TECHNICAL TALK: Integrating Software Development Kits into the Eclipse Platform

DAVID FRANKEL
David Frankel Consulting
David Frankel’s career in the software industry spans 23 years, during which he has had experience in all phases of software development including requirements gathering, writing of specifications, formal design, coding, testing, internal and user documentation, design and teaching of training courses, deployment, and long-term maintenance. He specializes in the architecture of distributed enterprise computing systems. He is the author of many published articles and sole author of the book Model-Driven Architecture: Applying MDA to Enterprise Computing, published by John Wiley & Sons in January, 2003. He served several terms as an elected member of OMG Architecture Board, and was intimately involved in the launch of MDA. He is the co-author of several industry standards, including COM-CORBA Interworking, the UML Profile for CORBA, and the UML Profile for EJB. He is the owner of David Frankel Consulting.

TECHNICAL TALK: The Eclipse Modeling Framework and MDA: Status and Opportunities

BJORN FREEMAN-BENSON
University of Washington
Bjorn Freeman-Benson, Ph.D., is a Research Scientist on the UrbanSim project at the Center for Urban Simulation and Policy Analysis as well as a Fellow at Bellagio Research Labs. He earned his B.Sc., M.Sc., and Ph.D. in Computer Science from the University of Washington. Bjorn is known for his expertise and experience in practical and effective software development, and has had a life-long interest in programming languages, development environments, and engineering productivity tools. He has worked for a variety of companies, large and small, including Amazon, Gemstone, Impulse, OTI, and Rational. He enjoys teaching and mentoring, and has published dozens of articles about his work.

TECHNICAL TALK: UrbanSim: An Open-Source Tool for Integrated Land Use, Transportation and Environmental Modeling

ERICH GAMMA
Eclipse JDT Lead
Erich Gamma leads the Eclipse Java Development Tools project and is a member of the Eclipse and the Eclipse Tools project management committees. He is also a member of the Gang of Four, which is known for their book Design Patterns—Elements of Reusable Object-Oriented Software. Erich has paired with Kent Beck to develop JUnit, a popular testing tool for Java. Erich also paired with Kent Beck to write the book Contributing to Eclipse: Principles, Patterns, and Plug-ins. Before joining OTI he was working at Taligent on a never shipped C++ development environment. Erich started with object-oriented programming over 20 years ago as the co-author of E++ one of the first large scale C++ application frameworks.

KEYNOTE: Eclipse: State of the Union

FRANK GERHARDT
SENS
Frank Gerhardt is an independent consultant focusing on tools, processes, and the soft aspects of project management. He holds a Ph.D. in Computer Science from the University of Tuebingen, Germany.

TECHNICAL TALK: Experiences with Rich Client Application Development

DEJAN GLOZIC
Eclipse Update/Install Lead
Dr Dejan Glozic was one of the first members of the Eclipse UI team. He currently works at the IBM Toronto Laboratory, Ontario, where he leads an Eclipse team responsible for Install/Update, Help and PDE components. Before Eclipse, Dejan was widely known as “the JFace guy”, being responsible for the creation of the widely used JFace user interface framework that was later incorporated into the Eclipse platform. He is also known as “the pixel freak” possibly due to his obsessive-compulsive insistence that all the pixels in the UI must align “just so”. One of his more recent pixel fixations was the flat UI support for the PDE multi-page editors.

TECHNICAL TALK: Share This Plug-in with the Ones You Love: Using PDE to Create an Eclipse Plug-in and Publish It on the Update Site

KEVIN HAALAND
Eclipse Project PMC
Kevin Haaland has been a key contributor to the design and implementation of the Platform UI. He was previously component lead for the Platform UI, and has a long history of building user interface technology at OTI. In a past life he was the lead for the SWT team. Kevin also played a key role in the VA/Java project. Kevin is a member of the Eclipse Project PMC.

TECHNICAL TALK: JIT Software Development: Inside the Eclipse Development Process

KIP HARRIS
IBM
Kip Harris is a member of the IBM world wide Accessibility Center in Austin, Texas. His most recent projects include a role in the development of IBM’s Home Page Reader product, which is a self-voicing web browser targeted for people who are blind or vision impaired. Prior to this, Kip worked with a large variety of software technologies during his career with IBM, including both system and application product development and a deep study in robotics. Kip holds a BScs from Tufts University and an MScs from the University of Texas at Austin.

TECHNICAL TALK: Making Eclipse Technology Accessible to People of All Abilities
pioneered Industrial XP, a version of XP for large organizations. Joshua is author of the forthcoming book, Refactoring to Patterns, and he recently pioneered Industrial XP, a version of XP for large organizations.

**TECHNICAL TALK: Being Extreme with Eclipse**

**MIK KERSTEN**

Eclipse AJDT and AspectJ Project Committer

Mik Kersten is an IBM CAS fellow and graduate student at the University of British Columbia, where he is working on making IDEs more Aspect-Oriented. He is a committer on the AspectJ and AJDT Eclipse plug-in projects and is responsible for the AspectJ tools framework. Before going back to school he was a research scientist at Xerox PARC.

**TECHNICAL TALK: Getting Started with Aspect-Oriented Programming in Eclipse**

**KARL KESSLER**

SAP AG

Karl Kessler studied computer science at the Technical University of Munich. After two years in basis modeling Karl joined the product management team of the ABAP Workbench. When SAP entered the J2EE market Karl gained the rollout responsibility for the NetWeaver Developer Studio. Karl is editorial board member of several technical SAP journals and has been a speaker on SAP Teched conferences. He heads now a department that is responsible for the product management and rollout of the NetWeaver Foundation including Enterprise Portal, Web Dynpro, Developer Studio, J2EE and ABAP.

**TECHNICAL TALK: Overview of SAP NetWeaver Developer Studio and Java Development Infrastructure**

**GREGOR KICZALES**

University of British Columbia

Gregor Kiczales is the NSERC/Xerox/Sierra Systems Professor of Software Design at the University of British Columbia. Prior to 1999 he was a Principal Scientist at the Palo Alto Research Center where he led the team that developed aspect-oriented programming and AspectJ. AspectJ is the de facto standard for AOP in Java, and is the subject of three books and numerous articles.

Prior to aspect-oriented programming he worked extensively in reflection and object-oriented programming. He is a co-author, with Danny Bobrow and Jim des Rivieres of *The Art of the Metaobject Protocol*, a key work in reflection and metaobject protocols.

**KEYNOTE: Aspect-Oriented Programming**
JEAN-MICHEL LEMIEUX
Eclipse Team Component Lead
Jean-Michel Lemieux has been a committer on the Eclipse Team/CVS component since its inception. Before starting with Eclipse, Jean-Michel worked for Rational Software and ObjectTime developing Team integration support for their modeling tools and advanced instructional material. He was previously employed by Hewlett-Packard developing SS7 real-time call monitoring software. He now works at the IBM software lab in Ottawa, Ontario.
TECHNICAL TALK: Writing Responsive UIs Using the Eclipse 3.0 Concurrency Architecture
TECHNOLOGY EXCHANGE: Implementing Repository Adaptors

BORIS MAGNUSSON
Lund University
Boris Magnusson is a full professor of Computer Science at Lund University, Sweden. He was one of the early users and developers of object technology and has been involved in organizing the main conferences, ECOOP, OOPSLA and TOOLS since the start in the late 80s. He has also been active in other research areas such as programming environments and configuration management.
TECHNICAL TALK: Supporting Refactoring in Eclipse—Needs and Experiences from an XP-teaching Setting

SEBASTIAN MARINEAU
Eclipse CDT Project Lead, QNX
Sebastien Marineau-Mes is project leader for the Eclipse C/C++ Development Tools (CDT) project and development manager for the Operating Systems Group at QNX Software Systems. A popular speaker at embedded technology conferences, Mr. Marineau possesses a wide range of expertise, including realtime operating systems, integrated development environment, protocol stacks, high availability systems, and symmetric multiprocessor applications. Mr. Marineau is also the networking architect at QNX Software Systems, in charge of all RTOS decisions relating to the networking market. In 2002, he spearheaded the development of the QNX Momentics development suite, which features an IDE based on Eclipse.
TECHNICAL TALK: Using Eclipse CDT for C/C++ Development

JEFF MCAFERR
Eclipse Equinox Project Lead
Jeff McAller is the lead of the Equinox project. He is one of the architects of the Eclipse platform and has been involved in the project from the beginning. His current interests lie in helping realize Eclipse's original vision as a platform for composing general sets of application function—in particular, areas such as dynamic plug-ins and alternate runtime models. Previous lives included work in distributed/parallel OO computing (Server Smalltalk, massively parallel Smalltalk, etc) as well as expert systems, meta-level architectures and a Ph.D. at the University of Tokyo.
TECHNICAL TALK: Inside the RCP Runtime: Dynamic Plug-ins and Beyond
TECHNOLOGY EXCHANGE: Implementing Rich Client Applications

ED MERKS
Eclipse XSD Project Lead
Ed Merks is the lead architect for the EMF and XSD projects, both at Eclipse.org. He has many years of in-depth experience in the design and implementation of languages, frameworks, and application development environments, including several patents on the subject. Ed is a member of the JAXB expert group, representing IBM. He holds a Ph.D in computer science and is co-author of the authoritative EMF book: Eclipse Modeling Framework, A Developer’s Guide.
TECHNICAL TALK: Rapid Plug-in Development and Integration Using EMF
TECHNOLOGY EXCHANGE: EMF Technology in Practice

ANTONY MIGUEL
Scapa Technologies
Antony Miguel is a Product Development Manager for Scapa Technologies and an Eclipse Developer. He built the Hyades statistical console and led the team that built the agent layer for statistical performance data collection (including interfacing to Microsoft PerfMon). Both of these became available in Hyades 1.2. He has extensive experience in extending the Hyades data collection infrastructure at both ends, building data collection agents to pass data upstream, building loaders to populate the Hyades Statistical and Test Execution History models, and extending the UI framework to introduce new tools which in turn provide new extension points.
TECHNOLOGY EXCHANGE: Tracing, Logging and Monitoring Performance in Eclipse

PHILIPPE MULET
Eclipse JDT Core Lead
Philippe Mulet is the Eclipse JDT/Core lead and an Eclipse architecture team member. He has been working for IBM/OTI Labs since 1995, and was previously involved in both VisualAge for Java, and VisualAge Micro-Edition (Java compiler and codeassist). His main interests are in Java compilation, language semantics, development tools and meta-level architectures.
TECHNICAL TALK: Manipulating Java Programs

MICHAEL G. NORMAN
Scapa Technologies
Mike Norman is CEO of Scapa Technologies, a vendor of specialist load and stress testing tools for enterprise software systems, based in Edinburgh, Scotland. Mike represents Scapa Technologies on the Eclipse board of stewards and initiated and now leads the Eclipse Hyades Project, which is implementing an industry-wide...
test, trace, and performance tools integration framework around open standards. Scapa Technologies has made significant contributions to the Eclipse/Hyades code base and has recently launched commercial load testing products built using the Eclipse/Hyades infrastructure.

**TECHNICAL TALK: Why Integrate Test, Trace, Log and Performance Tools Via Hyades?**

**TECHNOLOGY EXCHANGE: Tracing, Logging and Monitoring Performance in Eclipse**

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**EMEKA NWAFOR**

**IBM Rational**

Emeka Nwafor currently works for IBM Rational software as a product manager for model driven development solutions. Emeka has over 12 years of experience in software, ranging from developing embedded software for wireless telecommunication systems to developing software tools that automate the generation of applications from executable models. Emeka lives in Ottawa, Ontario, Canada and in his spare time enjoys sports and listening to music.

**TECHNICAL TALK: Using UML Views of J2EE Platform Elements to Improve Developer Productivity**

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**STEVE NORTHOVER**

**SWT Team Lead**

Steve Northover is the principal architect of SWT. He is the SWT team lead for the Eclipse project, and works at the IBM OTI Lab in Ottawa. His areas of expertise include performance, operating system programming and native user interface toolkits. He was one of the principle architects and implementors of the Common Widgets user interface toolkit for IBM Smalltalk.

**TUTORIAL: SWT in Depth**

**TECHNICAL TALK: Inside SWT**

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**DAVID ORME**

**Eclipse Visual Editor Project Lead, ASC**

David Orme is the chief architect of Advanced Systems Concepts’ (ASC) SWT-based tools and project leader of the Visual Code Editor project, the open source GUI builder for Eclipse. David last presented SWT material at the Spring WebServicesEdge conference in Boston. In addition to his Eclipse participation, David created the Eclipse plugins required to deliver ABSTRACT. ASC's award-winning iSeries application documentation tool on the IBM WebSphere Development Studio Client. Prior to his tenure at ASC, David led his own successful consulting practice after achieving his MS from Columbia University.

**TECHNICAL TALK: The Visual Editor Project—Flexible GUI Building for Eclipse**

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**JAY PARikh**

**Akamai Technologies**

Jay Parikh is the Director of Engineering for Akamai’s globally distributed computing service, EdgeComputing. With responsibility for managing the development and support of the EdgeComputing service, Mr. Parikh drives product direction and provides coordination and continuity in engineering and across other organizations at Akamai. In addition to EdgeComputing, Mr. Parikh has supported other Akamai customer-facing services including Akamai’s flagship content delivery service, EdgeSuite, Edge Side Includes (ESI), a markup language for dynamic assembly and delivery of Web applications at the edge, and FirstPoint, Akamai’s global load balancing service. Since joining Akamai in 1999, his previous roles have included serving as Akamai’s Manager of Network Strategy, where he played a key role in establishing strategic partnerships with several of Akamai’s network providers, as well as Akamai’s Partner Program Manager, where he was responsible for building and managing Akamai’s ecosystem of partners, which today includes hundreds of business partners. Prior to Akamai, Mr. Parikh built a foundation of experience in professional services and software engineering working for such companies as Andersen Consulting (now Accenture) and NetGravity (now DoubleClick). Mr. Parikh has spoken at several industry conferences, including IBM’s WebSphere Technical Exchange conference and IBM’s Advanced eBusiness Council.

**TECHNICAL TALK: Edge-Computing Toolkit for WebSphere Studio**

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**TAN PHAN**

**Senior Software Engineer, SlickEdit Inc.**

Tan Phan is Senior Software Engineer at SlickEdit and is the lead Eclipse developer. In his 8 years at SlickEdit he has been at the center of evolving Visual SlickEdit, releasing the SlickEdit Plug-In for WebSphere Studio & Eclipse, leading the Ready for IBM WebSphere Studio Software validation project, and directing other Eclipse integration efforts. Prior to SlickEdit, Tan was a software engineer at Alphatronics Inc. He earned his Master of Science and Bachelor of Science in Computer Engineering from North Carolina State University.

**TECHNICAL TALK: Eclipse Integration Lessons from the Trenches**

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**SIMON PHIPPS**

**Sun Microsystems**

Simon Phipps speaks frequently at industry events on technology trends and futures. At various times he has programmed mainframes, Windows and on the Web. Currently the Chief Technology Evangelist at Sun Microsystems, Inc., he was previously involved in OSI standards in the 80s, in the earliest commercial collaborative conferencing software in the early 90s and in introducing Java and XML to IBM. He lives in the UK, is based at Sun’s Menlo Park campus in California and can be contacted via http://www.webmink.net

**KEYNOTE: The Business of Open Source**

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**SILENIO QUARTI**

**SWT Technical Lead**

Silenio Quarti is the technical lead for SWT. His areas of expertise include graphics, widgets, threading, optimization and operating system programming. He was a core developer for VisualAge for Java and has been intimately involved with both the design and implementation of SWT for many years.

**TUTORIAL: SWT in Depth**

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**SOMIK RAHA**

**Industrial Logic**

Somik Raha is an Extreme Programmer & Coach with Industrial Logic. Before joining Industrial Logic, Somik was lead programmer and manager with Kizna Corporation, in Tokyo, Japan. Somik succeeded in helping Kizna adopt XP on several projects. He started the Calculcuta Java User Group in India and the first Java User Group and Design Patterns Study Group in Japan. He’s the author of a popular open-source streaming HTML parser and a pair-programming plug-in for Eclipse. Somik teaches all of Industrial Logic’s workshops.

**TECHNICAL TALK: Being Extreme with Eclipse**

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**CLAIRe ROGERS**

**HP**

As a software engineering consultant in HP’s Application Development Advanced Technology Center, Claire is involved in educating and supporting the field and their customers, through research, on-site enablement, and on-site consulting. She has several years of experience in software development in C++, Java, and J2EE.

**TECHNICAL TALK: Developing Web Services with Open Source and Eclipse**

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**Speaker Biographies**

**DAN RUBEL**

**Instantiations**

Dan Rubel is the Chief Technology Officer at Instantiations, Inc. Dan is an entrepreneur and an expert in the design and application of object-oriented technologies with more than 15 years of commercial software development experience, including seven years of experience with Java and three years with Eclipse. He's the primary architect and product manager for several commercial products including JFactor, jKit/GO, and jKit/Grid, and has played key design and leadership roles in other products such as WindowBuilder Pro, VA Assist, and CodePro Studio. He has a B.S. from Bucknell and has co-founded a successful company. He is also co-authoring a book entitled *Eclipse: Building Commercial Quality Plug-ins*, due in 2Q2004 (Addison Wesley).

**TECHNICAL TALK: Battlefield Experiences with Eclipse: Supporting Multiple Eclipse Versions Simultaneously**

**MARGARET-ANNE STOREY**

**University of Victoria**

Dr. Margaret-Anne Storey is an associate professor of computer science at the University of Victoria, a fellow of the British Columbia Advanced Systems Institute (ASI) and a Visiting Scientist at the IBM Centre for Advanced Studies in Toronto. Her research passion is to understand how technology can help people explore, understand and share complex information and knowledge. She applies and evaluates techniques from knowledge engineering and advanced visual interface design to applications such as reverse engineering of legacy software, medical ontology development, navigation of a virtual observatory, digital image management and learning in web-based environments. She is also an educator and enjoys the challenges of teaching programming to novice programmers.

**TECHNICAL TALK: Subversion and Eclipse**

**GREG STEIN**

**CollabNet, Inc.**

Greg Stein is a Director at CollabNet, Inc, where he manages their version control initiatives. In particular, CollabNet is developing a new, open source version control system called Subversion. He also spends a lot of time with WebDAV, Apache, and Python projects. Previously, Greg worked as a Development Manager at Microsoft on the Site Server product, and was a co-founder and Corporate Technologist at eShop, one of the first electronic commerce companies.

**TECHNICAL TALK: Subversion and Eclipse**

**KARSTEN SCHMIDT**

**SAP AG**

Karsten Schmidt is the Development Manager of the Java IDE Core development group at SAP. The group is responsible for providing the framework functionality needed by the tools that make up SAP's new Eclipse based IDE, SAP NetWeaver Developer Studio. In addition, the group's responsibilities include the J2EE toolset and IDE support for SAP's NetWeaver Development Infrastructure.

**TECHNICAL TALK: Keep on Swinging—Productivity Layers on Top of SWT**

**MIKE TAYLOR**

**IBM**

Mike Taylor is President, CEO, and co-founder of Instantiations, Inc. Mr. Taylor has extensive senior management experience in the enterprise software development arena. During his 25-year career in the software industry Mr. Taylor has been a founder in several successful high-technology software companies, and a key participant in several successful mergers and acquisitions. Mr. Taylor is a member of the Eclipse.org Board of Stewards and chairs the Marketing Committee for the Eclipse Consortium. Prior to his current position Mr. Taylor was Vice President of Digitalk and ParcPlace Digitalk, both leading companies in the Smalltalk arena. Mr. Taylor holds a BA and MBA from the University of Washington.

In addition to his software-related business activities he is a private pilot and President of the Oregon Archaeological Society.

**PANEL: Eclipse in the Enterprise…Is Not Just for Development Tools Anymore!**

**HARM SLUIMAN**

**IBM**

Harm Sluiman is a senior technical staff member at the IBM Toronto software lab. He manages a team of developers working on diagnostic tools for Java developers which are all Eclipse based. These tools cover a major part of the initial contribution to the Eclipse Hyades project. Harm is one of the originating members of the Hyades project. Harm is also responsible for the future technical architecture of IBM’s tools in the area of test, trace and analysis runtime and tooling.

**TECHNOLOGY EXCHANGE: Tracing, Logging and Monitoring Performance in Eclipse**

**STEVE TAYLOR**

**Catalyst Systems Corp**

Steve Taylor is Chief Technical Officer and co-founder of Catalyst Systems Corp. Mr. Taylor is an experienced senior developer, bringing over 15 years of expertise with Client/Server and mainframe application development and system integration. Prior to founding Catalyst Systems Corporation, Mr. Taylor served as the Lead Technical Consultant responsible for the successful introduction of new applications at Continental Bank (Chicago), Discover Financial Services, ISSC and M&I Data Services (Metavante). In this capacity, Mr. Taylor became expert in the use of various configuration management tools and recognized the need to build large applications using a nightly process. At this time he began developing the standardized versioning and build procedures which have since become Openmake. Mr. Taylor received his Bachelor's of Science Degree in Computer Science/Mathematics from the University of Illinois-CU.

**TECHNICAL TALK: Lessons Learned in Plug-in Development**

**DAVE THOMSON**

**IBM**

Dave Thomson was one of the founding employees of Object Technology International (OTI), a company IBM acquired in 1996 and which has become the foundation for IBM’s Ottawa Lab and many of the technologies underlying IBM’s tools products. Prior to OTI’s integration with IBM Dave served as VP Development at OTI.

Dave led the teams that delivered the underlying IDE technology in many of IBM’s award-winning products including VisualAge for Smalltalk, VisualAge for Java, and the Eclipse platform. Dave was the principal architect behind the transition of IBM’s internal workbench development effort into the open source project we now know as Eclipse.

Dave is an IBM Distinguished Engineer and Manager of IBM’s Eclipse Development team, and also serves on the board of Eclipse.org.

**TECHNICAL TALK: A Different Shade of Blue: Moving Eclipse from Closed to Open Source**
**Michael Tiemann**

RedHat

Michael Tiemann is a true open source software pioneer. He made his first major open source contribution over a decade ago by writing the GNU C++ compiler, the first native-code C++ compiler and debugger. His early work led to the creation of leading open source technologies and the first open source business model. In 1989, Tiemann’s technical expertise and entrepreneurial spirit led him to co-found Cygnus Solutions, the first company to provide commercial support for open source software. During his ten years at Cygnus, Tiemann contributed in a number of roles from President to hacker, helping lead the company from fledgling start-up to an admired open source leader.

Tiemann serves on a number of boards, including the Open Source Initiative and the GNOME Foundation. Tiemann also provides financial support to organizations that further the goals of software and programmer freedom, including the Free Software Foundation and the Electronic Frontier Foundation.

**Michael Van Meekeren**

IBM

Michael Van Meekeren obtained his BCS from Acadia in 1994. He is a senior developer with IBM Ottawa labs (formerly known as Object Technology International), and has played an active role in the development of IBM Smalltalk, VisualAge for Java and WebSphere Studio Device Developer. Michael currently is the IBM Eclipse Platform UI Team Lead at IBM Ottawa Labs.

**Chris Wege**

DaimlerChrysler AG

Chris Wege is a portal and application architect at DaimlerChrysler. He also is an expert in agile methodologies and co-organized with Frank the first CampEclipse in Stuttgart, Germany. Chris has presented at various conferences including OOPSLA, JavaOne and XP. He received a diploma in computer science from the University of Tuebingen, Germany.

**Technological Talk: Experiences with Rich Client Application Development**

**John Wiegand**

Eclipse Platform Lead, IBM, Portland

John is the principal architect for the platform infrastructure. John played a central role in the development of VA/Java, VA/Micro Edition, and now Eclipse. His interests are in the area of software, scalability, compilers, and just about anything that’s hard. John is serving as leader of the Platform subproject and PDE subproject, and is a member of the Eclipse Project PMC.

**Technological Talk: Lotus Workplace: Rich Client Platform**

**Todd Williams**

Genuitec

Todd Williams is Genuitec’s Vice President of Technology and is responsible for the organization’s technology direction, infrastructure, and best practices. His primary interest is working with Genuitec’s consulting clients to accelerate Eclipse-based application delivery and mentoring the MyEclipse Enterprise Workbench development team.

**Technological Talk: Eclipse-based Applications—Java on the Desktop Revisited**

**RICHARD WILSON**

IBM Lotus

Richard Wilson is the lead architect for the Lotus Workplace Rich Client Platform. He has been developing software in startups and large companies for over fifteen years and received BS and MS degrees in computer science from the University of New Hampshire. Prior taking on this new role at IBM, Rick was the lead architect for the Bowstreet Factory Designer. In addition to building software, Rick enjoys reading nonfiction, photography, and spending time with his family.

**Technological Talk: Lotus Workplace: Rich Client Platform**

**Darin Wright**

Eclipse Debug Lead

Darin Wright is the lead for the Debug Platform—a framework for building debuggers and launching applications within the Eclipse IDE. As well, Darin is responsible for the Java Debugger and Ant integration in Eclipse. Previously, he contributed to VA/Micro Edition, and ENVY/Smalltalk. His interests are in the area of application development tools, including abstract interpretation which has been applied to type inferencing, optimizing, and more recently, the evaluation support in the Eclipse Java Debugger.

**Technological Exchange: Debugger Implementors**

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**Speaker Biographies**

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Be sure to visit the HP booth here at EclipseCon 2004 and see developer demos of how HP is extending and enhancing Eclipse.

Also, don’t forget to register at our booth for the daily drawing of an HP iPAQ® Pocket PC!

Check-out our informative Technical Talks:

• Developing Web Services with Open Source and Eclipse
  **Wednesday, Feb. 4 @ 3:15 PM**

• Integrating Software Development Kits into the Eclipse Platform
  **Thursday, Feb. 5 @ 10:00 AM**

…and attend our Birds-of-a-Feather Sessions:

• **Tuesday, Feb. 3 @ 8:30 PM**
• **Wednesday, Feb. 4 @ 7:00 PM** (with complimentary beer and pizza)

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