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APACHECON



2001

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Santa Clara Convention Center
Santa Clara, CA

Conference: April 4-6, 2001

Exhibition: April 5-6, 2001

EVENT HIGHLIGHTS

- We've doubled the technical program! Select from four tracks with over 70 sessions. Get the latest insights on Apache projects and initiatives, including multiple management topics.
- Focus on Security, PHP XML, SOAP, Mason, Alexandria, Java, Cocoon, Tomcat, Database Management, ASP, mod_perl and more.
- Learn from the masters: Stas Bekman, Ryan Bloom, Eric Cholet, Roy T. Fielding, Tony Finch, Vincent Hardy, Harrie Hazewinkel, Rasmus Lerdorf, Doug MacEachern, Craig McClanahan, Daniel Lopez Rodriguez, Theo Schlosser, Dirk-Willem van Gulik - and many others.
- Designed for Apache and Open-Source Enthusiasts of all levels.
- The only Apache event to be designed and fully supported by the members of the Apache Software Foundation.
- Keynote presentations by John "Maddog" Hall and David Brin. Check the schedule for more details!

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APACHECON



2001

Santa Clara, California USA
April 4-6, 2001

We're gathering the entire Apache community to share the most relevant and emerging developments.

As Apache gains unprecedented adoption within the open source developer community, new projects and initiatives will play an ever-increasing role in how web application technologies are deployed.

Come Meet With Fellow Open Source Enthusiasts.

Come immerse yourself in 3 days of Apache intelligence. ApacheCon 2001 is the only Apache event to be fully supported by the Apache Software Foundation. Apache founders and leading contributors have designed the technical program consisting of 40 sessions with over 70+ hours of instruction.

The Standard of Excellence

ApacheCon 2001 is recognized for its on-going commitment to unbiased, up to the minute technical presentations that are always led by industry leaders. Our exceptional line-up of speakers and topics draws the most enthusiastic, qualified audience. It's the one event you can't afford to miss.

Interface with a Most Distinguished Faculty

- Stas Bekman - Author of the `mod_perl` guide
 - Ryan Bloom - Member of the Apache Software Foundation
 - Eric Cholet - Member of the Apache Software Foundation.
 - Roy T. Fielding - Chairman of the Apache Software Foundation
 - Tony Finch - An Apache http developer and is a member of the ASF
 - Vincent Hardy - One of the founders of the SVG Batik project
 - Harrie Hazewinkel - Author of the SNMP module,
 - Rasmus Lerdorf - Creator of the PHP scripting language, Member of Board of Directors of the Apache Software Foundation and the Apache-core team
 - Doug MacEachern - Lead developer of the `mod_perl` Apache module, an Apache Software Foundation board member
 - Craig McClanahan - Sun's Tomcat Technical Lead
 - Daniel Lopez Ridruejo - Member of the Apache Software Foundation
 - Theo Schlossnagle - Author and maintainer of the load balancing module for Apache and the initiator of the Backhand Project.
 - Dirk-Willem van Gulik - Director of the Apache Software Foundation
- And Many Others*

Who Should Attend?

Anyone seeking to better understand Open Source and Apache software features and benefits. It is designed for:

- Open source software developers
- Apache software developers
- Web site administrators
- Technical managers responsible for running
- Web sites

**Santa Clara Convention Center
Santa Clara, CA**

Conference: April 4-6, 2001

Exhibition: April 5-6, 2001

Two-Day Exhibition April 5-6, 2001

Come explore the exhibit floor packed with leading Apache supporters. Meet the experts and walk away with free information and giveaways. Free special events listed at www.apachecon.com.

SPECIAL EVENTS - ALL ARE WELCOME

Wednesday,

April 4 1:30 - 2:15 - Keynote

John 'Maddog' Hall widely-known and respected Linux advocate, executive director of Linux International, and Linux evangelist extraordinaire. Title to follow.

Thursday,

April 5 5:30 - 6:30 - Welcome Reception

Join fellow Apache enthusiasts for an informal, relaxed gathering.

Friday,

April 6 3:00 - 3:45 - Keynote

David Brin, well-known futurist and science fiction author of *Startide Rising*, *Sundiver*, *The Postman* and *the Transparent Society*, will give a keynote entitled, "Probing for Quicksand: How We Peer a Bit Ahead, Into Tomorrow's World."

The Apache Software Foundation

The Apache Software Foundation exists to provide organization, legal, and financial support to the Apache Open-Source software projects. You're invited to participate. For more details, visit www.apache.org.

About Camelot Communications Corp.

Camelot Communications Corp. produces IT conferences focusing on emerging technologies including open-source, XML, Java, and Wireless. Strategic partnerships with leading IT and software organizations such as the Apache Software Foundation, Oasis and the OMG as well as alliances with industry media and analyst groups have allowed us to embrace the IT community in the United States and Europe. For a list of upcoming events, visit www.camelot-com.com.

Media Partners



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WEDNESDAY, APRIL 4, 2001

9:00-9:30	OPENING PLENARY WITH THE APACHE SOFTWARE FOUNDATION			
9:30-11:20	W1 Apache Projects Overview (Daniel Lopez Ridruejo)	W2 Rub-a-dub-dub-dub: SOAP and the Web (Doug Tidwell)	W3 Writing Multilingual Sites with mod_perl and Template Toolkit (Eric Cholet)	W4 Slashcode, the Bender Release (Brian Aker)
11:30-12:20	W5 State of Apache (Roy Fielding)	W6 An Introduction to Alexandria (Jeff Martin)	W7 Web Application Technologies- Surveying the Landscape (Gunther Birznieks)	W8 Managing the Apache HTTP server with SNMP (Harrie Hazewinkel)
1:30-2:15	KEYNOTE: John Maddog Hall			
2:30-4:20	W9 Introduction to Apache Server (Rich Bowen)	W10 WebDAV and Apache (Greg Stein)	W11 Getting Started with mod_perl (Stas Beckman)	W12 Apache Cocoon 2- What's New (Giacomo Patti)
4:30-5:50	W13 Apache 2.0 (Ryan Bloom)	W14 Introduction to the Batik Project (Vincent Hardy & Thomas De Weese)	W15 Embedperl- Building Dynamic websites with Perl (Gerald Richter)	W16 Recommendations for Java-Based Web Application Architectures (Craig McClanahan)
6:15-7:05	W17 A Look at Apache 2.0 APR (Christian Gross)	W18 Apache Distributed Authoring Environments (Stipe Tolf)	W19 Introduction to Mason (David Rolsky)	W20 PKI Processing with OpenSSL (Rodney Thayer)
7:15-9:05	W21 Building Web Services with Apache (Doug Tidwell)	W22 PHP Hacker's Paradise Revisited (Nathan Wallace)	W23 Improving Script and Handler Performance under mod_perl (Stas Beckman)	W24 Security Solutions with SSL (Ralf S. Engelschall)

THURSDAY, APRIL 5, 2001

9:00-10:50	TH1 Apache and FrontPage Extensions (Suso Banderas)	TH2 All About Virtual Hosting (Tony Finch)	TH3 Intro to PHP (Rasmus Lerdorf)	TH4 AxKit- an XML Application Server for Apache (Matt Sergeant)
11:00-11:50	TH5 Writing Apache Filters (Ryan Bloom)	TH6 mod_backhand: Internals Explained	TH7 The PHP Extension and Application Repository	TH8 Java API for XML Processing (JAXP) version 1.1
12:00-12:45	KEYNOTE			
12:30-6:30	EXHIBITION OPEN			
2:00-3:30	TH9 Migrating Apache JServ Applications to Tomcat (Craig McClanahan)	TH10 Taming Deamons- Scaling Your Site (Dirk-Willem van Gulik)	TH11 Building an Enterprise Information Portal with Jetspeed (Raphaël Luta)	TH12 mod_perl-2.0 (Doug MacEachern)
3:45-4:35	TH13 The Tomcat Servlet Container (Craig McClanahan)	TH14 Performance-tuning Apache (Thomas Wouters)	TH15 PHP 4 Internals (Zeev Suraski + Andi Gutmans)	TH16 Building a Large-scale E-Commerce Site with Apache and mod_perl (Bill Hill & Perrin Harkins)
4:45-5:30	KEYNOTE			
5:30-6:30	WELCOME RECEPTION - SPONSORED BY THE APACHE SOFTWARE FOUNDATION			
6:30-7:20	TH17 Apache and Tomcat: Backbone of a Successful Application Service (Ashutosh Aman)	TH18 Measuring and Enhancing Apache Performance (Sander Temme)	TH19 Making Efficient Use of Oracle8i Thru Apache and PHP 4 (Thies Arntzen)	TH20 Apache as WAP Server (Stipe Tolf)
7:30-8:20	TH21 MySQL and Java Servlets-The Perfect Combination (Benjamin Pharr)	TH22 QoS Management of Internet Services (Harrie Hazewinkel)	TH23 The PXP Project, Using Reusable PHP Components and XML to Develop Websites (Luis Argerich)	TH24 Using Cocoon to Build Web Sites for Wireless Devices (Ovidiu Predescu)

FRIDAY, APRIL 6, 2001

9:00-10:20	F1 Ten Tough Questions To Ask Your Application Developers About Security on the Web (Phillip Wherry)	F2 Apache and LDAP (Mark Wilcox)	F3 Tomcat Server and Application Security (Glenn Nielsen)	F4 Servlets? In Perl? Are You Mad? (Brian Moseley)
10:30-11:10	F5 An Architecture for Apache Install Management (Christopher Manly)	F6 mod_autoindex Meets XML (John Tighe)	F7 Why Logging is a Complete Nightmare (Tony Finch)	F8 mod_snake: Boosting Productivity With Python (Jon Travis)
11:15-12:00	KEYNOTE			
12:00-5:00	EXHIBITION OPEN			
1:00-1:50	F9 Caching Dynamic Web Content To Increase Dependability and Performance (Brian Moon + Daniel Beckham)	F10 Planning and Programming for Cross-Platform (Peter Moulding)	F11 log4j, a Logging Package for Java (Ceki Gülcü)	F12 Open Source Database Rises to the Challenge (Britt Johnston)
2:00-2:50	F13 Web Application Security: Tying the Past and Present Together (Gunther Birznieks)	F14 Apache Upon Win32 in the Round (William A. Rowe Jr.)	F15 Apache (by itself) Does Not a Web Site Make (Rich Roth)	F16 Licensing Issues in Commercial OSS Products (Matt Lueders)
3:00-3:45	KEYNOTE: DAVID BRIN "PROBING FOR QUICKSAND: HOW WE PEER A BIT AHEAD, INTO TOMORROW'S WORLD"			
4:00-4:50	F17 Audio and Apache (Sander van Zoest)	F18 Designing High-Performance Web Applications with FastCGI (Peter Simons)	F19 Using Ant to Build Java Code (James Duncan Davidson)	F20 Running a Profitable Open-Source Company: A Case Study (Gunther Birznieks)
5:00-5:50	F21 Architecting an ASP on mod_perl (Ian Kallen)	F22 Building a Web Development Environment with Apache, mod_perl, CVS and Friends (Philippe M. Chassin)	F23 Running ASP and ASPnet with Apache (Don Hsi)	F24 High Profile, High Speed: Case study in Using PHP to Build AI Gore (Tony Byrne)
6:00-6:30	WPAP-UP PLENARY WITH THE APACHE SOFTWARE FOUNDATION			

WEDNESDAY, APRIL 4, 2001**9:30 A.M.-11:20 A.M.****W1****TECHNICAL****Apache Projects Overview**

This session will introduce the different projects under the ASF umbrella, such as Jakarta, XML, and PHP and how everything fits together. We will cover project goals, functionality provided, project history and future directions and explain common ways in which these technologies can be used together to provide powerful Web development frameworks.



Daniel Lopez Ridruejo is a senior software engineer at Covalent Technologies, Inc., and the author of Comanche and a member of the ASF.

W2

Orientation: Technical

TECHNICAL**Rub-a-dub-dub-dubya: SOAP and the Web**

This session will review all the basics of SOAP, including many sample programs. Setting up an Apache-based SOAP server to test and deploy your SOAP applications is also covered. All of the code samples can be run on other SOAP implementations as well.



Doug Tidwell is a Senior Programmer at IBM. His job as a Cyber Evangelist is to help people evaluate new technologies.

W3**TECHNICAL****Writing Multilingual Sites with mod_perl and Template Toolkit**

This session presents an overview of the issues involved in writing a multilingual site including: using multilingual templates; correct handling of language-dependent data; sorting; character sets; dealing with accented characters. The power of mod_perl is used to implement a user interface that allows users to switch languages easily at any time. A specialized parser for Template Toolkit is presented that allows compile-time parsing and caching of multilingual templates, as well as a database schema for storing multilingual data.



Eric Cholet is CTO of Logilune and a member of the ASF.

W4**TECHNICAL****Slashcode, the Bender Release**

The architecture of Bender gives you insight into how you can use mod_perl and Apache to scale a website to handle millions of page views a day. This session will review the architecture of the system, show how basic administration is done, and how to extend the system through the API to create custom themes and plug-ins.

Brian Aker is a Senior Developer for VALinux/OSDN. He is currently working on the redesign of slashcode (the publishing engine for the Open Source site Slashdot.)

WEDNESDAY, APRIL 4, 2001**11:30 A.M.-12:20 P.M.****W5****TECHNICAL****State of Apache**

This talk will provide a comprehensive overview of the Apache Software Foundation and its current projects.



Roy T. Fielding is Chairman of the Apache Software Foundation and Chief Scientist at eBuilt, Inc.

W6**TECHNICAL****An Introduction to Alexandria**

The session will look at the features provided by Alexandria including an explanation of the configuration and the key roll it can play in monitoring and testing changes to source code in a continuous integration environment. We'll also examine the way it utilizes XSL transformations to produce a series of build files that are then used by the Ant build tool.

Jeff Martin is a member of the Architecture & Processes Group at Sila Communication where he builds processes and uses of XML in documentation.

W7**TECHNICAL****Web Application Technologies - Surveying The Landscape**

ASPs, Java Servlets/JSP, Perl, ColdFusion, PHP. The landscape is filled with languages and technologies to make dynamic web applications. This talk contains a survey of the pros and cons of each technology as well as where to get good examples of key applications most every website needs on each platform.

Gunther Birznies spent the majority of his web engineering/programming experience working for the Human Genome Project. He has recently been producing software for application service providers in Asia.

W8**TECHNICAL****Managing the Apache HTTP server with SNMP**

The session will provide a basic knowledge of how to read and use the MIB modules. We will demonstrate what it takes to implement SNMP management, how you use it, and actual examples of configurations, scripts and management applications. We will introduce the various relevant protocol mechanisms which enables you to manage your network and the MIB modules which define your management information.

Harrie Hazewinkel is the author of the SNMP module. He is part of the Engineering team of Covalent Technologies.

WEDNESDAY, APRIL 4, 2001**2:30 P.M.-4:20 P.M.****W9****TECHNICAL****An introduction to Apache server, from acquiring Apache, through installing it and getting it configured.**

We'll talk about authentication, CGI, and a variety of other topics. The target audience is folks just starting out with Apache server.



Rich Bowen writes a weekly column for ApacheToday.com. He's contributed some to the Apache documentation project, and is the author of Apache Server Unleashed.

W10

TECHNICAL

WebDAV and Apache

This talk will present an overview of WebDAV, its benefits for users, and scenarios for deployment. We will detail how to set up the mod_dav Apache module, and the available tools and applications to use with your new WebDAV-enabled server.



Greg Stein is an independent software developer spending much of his time with open-source projects, such as WebDAV for Apache and Python.

W11

TECHNICAL

Getting Started with mod_perl

In this session, we will talk about porting and developing CGI scripts and modules under mod_perl, diving deeply into peculiarities of Perl code running under mod_perl, and possible run-time errors. Afterwards we will see how mod_perl speeds up applications working with relational databases.



Stas Bekman is an author of the mod_perl guide and a Monthly columnist at PerlMonth and ApacheToday.

W12

TECHNICAL

Apache Cocoon 2 - What's New?

On the move from Apache Cocoon version 1 to version 2 different technologies and design issues have been implemented to overcome some deficiencies that showed up during the broader use of Apache Cocoon 1. This presentation gives an overview to Apache Cocoon 2 and shows some details on the new features implemented in this release.

Orientation: Technical

Giacomo Pati has more than 20 years of IT experience in the financial and software industries. He is a member of the Apache Cocoon project and a member of the board of Otego Inc.

WEDNESDAY, APRIL 4, 2001**4:30 P.M.-5:50 P.M.****W13**

TECHNICAL

Apache 2.0

This session presents an overview of the next version of Apache. We will discuss the new MPM models, the new module structures, and the Apache Portable Run-Time. This presentation will be a good starting point for any other Apache 2.0 talks during the conference.



Ryan Bloom is a senior software engineer for Covalent Technologies and a member of the Apache Software Foundation. He also writes monthly columns for ApacheToday and CNet.

W14

TECHNICAL

Introduction to the Batik Project

The session introduces the Batik project, its current status and its mid-term goal. The session focuses on the various ways developers can integrate Batik components in their applications, both server side and client side and demonstrate several such applications. Specifically, the session will show how to use Batik components to view SVG content, generate SVG content and convert SVG files into other formats.

Thomas DeWeese is a Senior Software Engineer at Eastman Kodak Company where he has worked for the image application development group. He is also a member of Kodak's SVG Working Group team.

Vincent Hardy is a member of Sun's XML Technology Center and one of the founders of the SVG Batik project at Apache. He represents Sun in the W3C's SVG Working Group.

W15

TECHNICAL

Embperl - Building dynamic Websites with Perl

This session will review Embperl basics like syntax, session handling, form field processing etc. We will then focus on the more advanced topics and show how Embperl helps you to create a Website out of small reusable objects, how to use different syntaxes and how to create a pipeline out of multiple processing steps. We will conclude with a review of performance issues like caching and gives a preview what's coming next.



Gerald Richter is the author of Embperl and actively involved in the mod_perl project.

W16

TECHNICAL

Recommendations for Java-Based Web Application Architectures

This session will discuss alternative approaches to architecting Java-based web applications. We will briefly discuss overall design patterns and alternative presentation technologies. We will focus on the Struts Framework which supports a Model-View-Controller (MVC) organization for web applications.

Craig McClanahan is the Technical Lead for the team at Sun that is working on the Tomcat servlet container and JSP engine. He was an active developer in the Apache JServ project.

WEDNESDAY, APRIL 4, 2001**6:15 P.M.-7:05 P.M.****W17**

TECHNICAL

A Look at the Apache 2.0 APR (Apache Runtime)

So you want to write a piece of server software that is not using HTTP. And that piece of server software needs to be scalable, cross-platform and all of the other good things. Not an easy task, but with the new Apache 2.0 APR it is much easier. The purpose of this session is to show how to use the APR for server development purposes. Demonstrated is a simple server application programmed using the APR.

Christian Gross is a CTO for Tredix AG, an Internet company.

W18

TECHNICAL

Apache Distributed Authoring Environments

This sessions will describe an effective concept for implementing an Distributed Authoring Environment using Apache+mod_dav+mod_ssl as direct operational interface of the environment and mod_ssl+mod_auth_mysql+MySQL as authorization mechanism and permission handling for manipulating the stored data inside the distributed environment.



Stipe Tolj is the Department Manager of the Technology Center and Research Lab at Wapme Systems AG, where he focuses on conceptual client/server WAP application design and implementation.

W19

TECHNICAL

Introduction to Mason

This session will introduce attendees to the basic concepts behind Mason, including: what Mason is; basic Mason syntax for templating markup and Mason's special features.

David Rolsky is a member of the Mason core development team.

PKI Processing with OpenSSL

This session will discuss the current standards-track PKI formats and protocols that can be processed using OpenSSL. IETF standards, including PKIX, OCSP will be discussed. Applications of OpenSSL using certificates, including creating your own certificate authority, client authentication using certificates, and hardware-enhanced SSL processing will be presented.

Rodney Thayer has spent the last 25 years working in such areas as protocol design, cryptographic system implementation, network deployment, and real-time systems development.

WEDNESDAY, APRIL 4, 2001**7:15 P.M.-9:05 P.M.****W21**

TECHNICAL

Building Web Services with Apache

This session will teach you everything you need to know to start building Web Services. We'll discuss the publish, find, and bind functions, and cover the Web Services Description Language and the UDDI standards. We'll conclude with a discussion of how to set up a development environment for Web services, including your very own UDDI registry.



Doug Tidwell is a Senior Programmer at IBM. His job as a Cyber Evangelist is to help people evaluate new technologies.

W22

TECHNICAL

PHP: Hackers Paradise Revisited

This session is designed to help you take PHP programming to the next level. You will learn PHP and database optimizations, code layout and include file structures, debugging and development techniques and effective PHP scripting tricks. Come armed with your hardest PHP problems, they'll be a roomful of experts to answer them.

Nathan Wallace runs Synop, a PHP development company. He built and maintains the PHP Knowledge Base.

W23

TECHNICAL

Improving Script and Handler Performance Under mod_perl

This tutorial will explain performance improvement tips: persistent DB connections, cached DBI statements, reducing memory usage by deploying shared memory, module preloading techniques, avoiding importing of variables and global variables in general, forking and subprocess overhead, memory leakage detection and prevention, tuning Apache configuration directives for best performance by benchmarking the scripts, object method calls vs. functions, sending compressed HTML, performance of print calls and buffer flushing.



Stas Bekman is an author of the mod_perl guide and a Monthly columnist at PerlMonth and ApacheToday.

W24

TECHNICAL

Security Solutions with SSL

In this session we will discuss /TLS possibilities with an Apache + mod_ssl + OpenSSL server combination. We will review selected SSL/TLS-based security solutions such as establishing HTTP/HTTPS gateways, using per-directory SSL/TLS parameters, doing per-directory based client authentication, using Server Gated Cryptography, speeding up processing with high-speed shared memory based SSL/TLS session caches, fine-tuning client authentication through arbitrarily complex Boolean expressions and using Certificate Revocation Lists.



Ralf S. Engelschall is a Unix and free software enthusiast for over 10 years. His major Apache contributions are mod_rewrite, reverse proxy, mod_so/DSO, APACI, apxs, apache-contrib and mod_ssl.

THURSDAY, APRIL 5, 2001**9:00 A.M.-10:50 P.M.****TH1**

TECHNICAL

Apache and Frontpage Extensions

This talk will review the basics of what the Frontpage extensions are, mod_frontpage and the client. We will focus on technical details as well as provide solutions to common problems in more complicated web setups than most Frontpage documentation expects.

Suso Banderas works at Kiva Networking where he is involved in defining methods to allow Frontpage extensions on customer servers.

TH2

TECHNICAL

All About Virtual Hosting

This talk covers virtual hosting from its fundamental principles to advanced configuration. We will describe what virtual hosting is, how HTTP supports it, how HTTP compares with other Internet protocols, how to configure your operating system and DNS server to support it, and a broad selection of examples for how to configure Apache from the most basic setups to the most arcane. We will also review some of the problems you may encounter and how you can solve or at least mitigate them.



Tony Finch is one of the Apache http developers and is a member of the ASF. He is a software engineer for Covalent Technologies, Inc.

TH3

TECHNICAL

Introduction to PHP

This session will give you a whirlwind tour of the popular PHP scripting language by its author. We will cover the early days of PHP and the motivating forces behind the language followed by a language overview. Dynamic and illustrative examples will show you how PHP can be used to generate a wide variety of dynamic web content.



Rasmus Lerdorf is the creator of the PHP scripting language. He sits on the Board of Directors of the Apache Software Foundation, is a member of the Apache-core team, and has contributed to a number of Apache-related projects.

TH4

TECHNICAL

AxKit - An XML Application Server for Apache

AxKit is an XML publishing framework built as an Apache modul using mod_perl. The toolkit provides all the basic needs for non-developers to deliver XML using W3C standardized techniques, and at the same time allows for developers to build dynamic content using XML. This talk will cover why it is useful, and the technical architecture of AxKit. We will also detail ways in which to use AxKit to build XML based web sites.



Matt Sergeant works for AxKit.com who specialize in building open source content management solutions for companies wishing to have ultimate control over the tools they use.

THURSDAY, APRIL 5, 2001**11:00 A.M.-11:50 A.M.****TH5****TECHNICAL****Writing Apache Filters**

This talk will discuss the pitfalls that developers encounter when trying to write Apache filters. We will walk through writing a simple input and output filter.



Ryan Bloom is a senior software engineer for Covalent Technologies and a member of the Apache Software Foundation. He also writes monthly columns for ApacheToday and CNet.

TH6**TECHNICAL****mod_backhand: Internals Explained**

This session will provide a technical explanation of the inner workings and implementation of mod_backhand. We will illustrate the various extents to which it can be configured and used. Details on optimizing Apache in conjunction with mod_backhand will also be discussed. Some out-of-the-box content distribution methods and examples will be presented.



Theo Schlossnagle is the author and maintainer of the load balancing module for Apache and the initiator of the Backhand Project.

TH7**TECHNICAL****The PHP Extension and Application Repository**

PEAR (the PHP Extension and Application Repository) is a code sharing system and library for PHP. Among other things, it features DB, a database abstraction layer, and PHPDoc, the JavaDoc processor for PHP. In this session, we will explain what PEAR is, its design, coding standards, and future plans for PEAR.

Stig Bakken works for Fast Search & Transfer. He has been contributing to PHP development since late 1996, and has been a member of the PHP Group from its inception.

TH8**TECHNICAL****Java API for XML Processing (JAXP) Version 1.1**

This session will describe the Java API for XML Processing or JAXP. We will review the parsing API first introduced in JAXP version 1.0 and then move on to describe the new XSLT transformation APIs introduced in the latest version of JAXP, version 1.1. Example code fragments of typical usage patterns will be presented.



Edwin Goei is an engineer with Sun Microsystems where he currently works on Java and XML technologies and in particular on the JAXP reference implementation.

THURSDAY, APRIL 5, 2001**2:00 P.M.-3:30 P.M.****TH9****TECHNICAL****Migrating Apache JServ Applications to Tomcat**

Porting an Apache JServ application to Tomcat requires an understanding of the key differences between the two environments. This session will focus on the changes in the underlying servlet API specification, as well as the differences in the configuration and deployment of servlet-based applications in the two environments.



Craig McClanahan is the Technical Lead for the team at Sun that is working on the Tomcat servlet container and JSP engine. He was an active developer in the Apache JServ project.

TH10**TECHNICAL****Taming Deamons - Scaling Your Site**

In this session you will learn how to grow from an initial proof of concept site to a true Apache 'supersite' using (mostly) open source tools and tricks. We'll review covering up front design, practical considerations, daily operations, robustness, short time to market tradeoffs, as well as fire fighting hints and tips.



Dirk-Willem Van Gulik is a director of the Apache Software Foundation and a longtime contributor to the Apache projects.

TH11**BUSINESS****Building an Enterprise Information Portal with Jetspeed**

This presentation will show you, based on a real world user case, how to use Jetspeed and other Apache software components to build and deploy your own EIP, syndicating both internal and Internet content and accessible from a wide range of media devices, from desktop PCs to WAP phones.

Raphaël Luta works for Vivendi Universal where he is responsible for managing part of the corporate worldwide internal shared services. He is project leader for Apache Jetspeed.

TH12**TECHNICAL****mod_perl-2.0**

This session will provide an overview of what's new in mod_perl version 2.0-dev and what else is planned for the future. You will learn how mod_perl-2.0 has adjusted to Apache 2.0's threaded architecture using new features of Perl version 5.6.0 to provide significant performance and memory-sharing improvements over 1.xx versions. Apache 2.0 has also introduced a number of new APIs and module hooks. This session will discuss where and how mod_perl fits into these new areas of the server.



Doug MacEachern is the lead developer of the mod_perl Apache module, an Apache Software Foundation board member and co-author of the book "Writing Apache Modules with Perl and C".

THURSDAY, APRIL 5, 2001**3:45 P.M.-4:35 P.M.****TH13****TECHNICAL****The Tomcat Servlet Container**

This session describes the Tomcat 4.0 servlet container. We will highlight the new functionality, including the new web connector mechanism that is substantially easier to configure than older versions. A brief review of the architecture of Tomcat will be followed by plans for future versions.



Craig McClanahan is the Technical Lead for the team at Sun that is working on the Tomcat servlet container and JSP engine. He was an active developer in the Apache JServ project.

TH14**TECHNICAL****Performance-tuning Apache**

This session covers the various aspects of performance tuning Apache. What bottlenecks and limitations you might expect, how to diagnose them properly, and how to tackle them: using the full effect of apache's configurability to get rid of them, work around them, or reduce their impact. Among the specifics covered are optimizing Apache for NFS, using a front-proxy for static data, working around Operating System limitations, and a case study of the high-availability, high-performance servers at XS4ALL.

Thomas Wouters is a System Administrator at Dutch ISP XS4ALL where he is responsible for maintaining and developing the Apache-running web servers.

TH15**TECHNICAL****PHP 4 Internals**

This session will review PHP 4.0's internals including: the motivations for writing PHP 4.0 and its major design goals; a brief layout of how PHP 4.0 is built and the new extensibility options in PHP 4.0 and finally, something that would link to the application level - the new output buffering mechanism and how people can take advantage of it.

Zeev Suraski & Andi Gutmans have been working together on the PHP project for over four years

TH16**TECHNICAL****Building a Large-Scale E-Commerce Site with Apache and mod_perl**

This session will focus on the lessons learned while building the web systems that power on-line toy seller eToys.com. We will discuss architecture decisions, performance bottlenecks and how we solved them, techniques used for load-balancing and high availability, designing maintainable code, and the role that Open Source software played in all of this. We will present a multi-layered approach to developing with mod_perl that allows for separation of development tasks according to skill sets and brings many of the benefits normally associated with commercial application servers to Apache.

Bill Hilf is Senior Director of Architecture at eToys.

Perrin Harkins is a Senior Engineer at eToys

THURSDAY, APRIL 5, 2001**6:30 P.M.-7:20 P.M.****TH17****TECHNICAL****Apache and Tomcat: Backbone of a Successful ASP**

This talk will demonstrate the architecture and implementation of a Servlets(tm) based ASP running with Apache and Tomcat on Linux. We will cover important aspects such as Apache-Tomcat integration on Linux, performance tuning, scalability and practical troubleshooting tips. You will leave the room equipped with the expertise to provide a solution, which will have a nil impact on the software budget of the client without compromising on performance.

Ashutosh Aman is an E-Solutions Consultant with KSoft Systems Inc., a Sun Certified Programmer for Java 2 platform and has several years of experience in administering and managing Java technology enabled solutions.

TH18**TECHNICAL****Measuring and Enhancing Apache Performance**

This presentation will describe a facility for testing web server performance and will present some test results for various system- and Apache configuration options. Suggestions on performance tuning will be presented.

Sander Temme obtained a Masters degree in Experimental Physics.

TH19**TECHNICAL****Using Oracle with Apache/PHP - a Dreamteam?**

This session will get you beyond the normal use of an Oracle RDBMS thru PHP. A technical overview of the OCI 8 interface will be presented as well as how to use it efficiently. We will cover advanced bind and define techniques as well as using BLOBs, CLOBs, Reference-Cursors and external files with Oracle.

Thies Arntzen is an independent consultant and a member of the PHP-Group and has written various PHP modules.

TH20**TECHNICAL****Apache as WAP Server**

This session will describe the possibilities you have to integrate static WAP content using WML decks or high-complex personalized WAP applications with user identification features for mobile devices like WAP-enabled phones. We'll present complete configuration setups and easy to understand examples using dynamical programming components like JServ/Tomcat and PHP on the server side.



Stipe Tolj is Department Manager of the Technology Center and Research Lab where he focuses on conceptual client/server WAP application design and implementation.

THURSDAY, APRIL 5, 2001**7:30 P.M.-8:20 P.M.****TH21****TECHNICAL****Using JCE to Secure Your Servlets**

Java Cryptography Extensions allows you to integrate any sort of modern encryption into your Java applications and servlets. This session will show you how to use JCE to add all types of security to the Java Servlets running on your Apache Web Server.

Benjamin Pharr is a Computer Science student at the University of Mississippi. He has been programming in Java for over five years.

TH22**BUSINESS****QoS Management of Internet Services**

QoS management is becoming an essential ingredient for web services; to ensure you deliver a verifiable quality. With SNMP - the standard Internet Management framework - an organization can measure, manage and improve their QoS. This talk will show you, using practical real live examples, how SNMP can be of assistance in your organization and will show how a web administrator would SNMP for management of the Apache HTTP server.

Harrie Hazewinkel is the author of the SNMP module. He is part of the Engineering team of Covalent Technologies.

TH23**TECHNICAL****The PXP Project - Using Reusable PHP Components and XML to Develop Dynamic Web Sites**

The PXP project is an open-source framework to develop dynamic web sites based in reusable PHP components called portlets, XML and XSLT to render the presentation layer to different access devices such as browsers, WAP devices, handhelds, etc. This session will review the project's software reusability and the use of XML to develop dynamic web sites.



Luis Argerich is a Developer Manager leading a team of 17 programmers for a large health-care portal in South America, Mexico and Spain.

TH24**TECHNICAL****Using Cocoon to build Web sites for Wireless Devices**

This presentation focuses on an open-source pure Java/XML publishing framework from the Apache Group. You will learn about a toolkit written for Cocoon that helps writing dynamic content pages for wireless devices.



Ovidiu Predescu is a Senior Software Engineer working for Hewlett Packard in the E-speak Operations.

F1

BUSINESS

Ten Tough Questions to Ask Your Application Developers About Security and the Web

This presentation is designed to help business and technical managers look beyond simple security measures such as firewall deployment and host hardening. Special attention will be given to the security advantages (and challenges) faced by organizations embracing open source development platforms.

Phillip Wherry has been responsible for Web application security architecture and implementation for a number of high-visibility, high-value projects including the first online equity trading system deployed in Europe and several home banking systems.

F2

TECHNICAL

Apache and LDAP

This talk will provide you with the knowledge on how to use LDAP to authenticate, authorize and configure your LDAP server.



Mark Wilcox is the Web and LDAP Administrator for the University of North Texas. He developed the original LDAP backend for Jabber for SourceExchange and Jabber.com.

F3

TECHNICAL

Tomcat Server and Application Security

This presentation will address the ways insecurities can occur and methods which can be used to increase security. Topics include why security is required at many points, and not just at the firewall and secure installation and configuration of Tomcat. Also discussed is the use of the Java SecurityManager and Application security, including secure use of a SQL database.

Glenn Nielsen is the Unix Programming Coordinator for the Missouri Research and Education Network, University of Missouri System.

F4

TECHNICAL

Servlets? In Perl? Are you mad?

Rao is a servlet engine for Perl. It provides an environment in which web applications can take advantage of standard infrastructure services and a web server abstraction layer that allows applications to be portably deployed across varying web architectures. The session will explore the motivation behind Rao, its architecture, how to develop and deploy a Rao application, and how to extend the functionality of the engine itself.

Brian Moseley is a Web Applications Architect at Critical Path and one of the original authors of CP Web Mail.

F5

TECHNICAL

An Architecture for Apache Install Management

This presentation will cover a method of installing apache and related software on the web server. This method was designed to enhance the manageability of the server, and to maximize flexibility. When deployed across multiple web servers, it can provide an economy of scale to further increase the efficiency of managing the farm of servers, as well as providing for portability of web sites among the servers.

Christopher Manly works as a web developer for Cornell University where he is responsible for managing several mission-critical web servers.

F6

TECHNICAL

mod_autoindex Meets XML

This session will discuss "collection indexing" - HTTP server directory listings with XML added in. Patches to mod_autoindex are presented. We will also call for a standardization of collection indices (that is, the auto-generated page which responds to a GET on a collection).

John Tigue is the main author of the WebBroker Note, the first XML based distributed computing service on the Web.

F7

TECHNICAL

Why Logging Is A Complete Nightmare

In this thoroughly pessimistic talk we will describe the problems presented by logging. We will look at some of the software that claims to solve various logging problems and explain how it doesn't in fact solve them. We will also describe a few war stories to illustrate the topic.



Tony Finch is one of the Apache httpd developers and is a member of the ASF. He is a software engineer for Covalent Technologies, Inc.

F8

TECHNICAL

mod_snake: Boosting Productivity with Python

This session will provide an overview of mod_snake, outline a number of third party Python modules which can be integrated, and provide examples of how to use these modules for authentication, content filtering, and content generation.



Jon Travis is a software engineer for Covalent Technologies. He is the author of the Open Source Projects, Camserv and mod_snake

F9

TECHNICAL

Caching Dynamic Web Content to Increase Dependability and Performance

This session will focus on how caching data and web pages can alleviate the need for constant database access. The code examples in this session will use PHP and Perl with a MySQL database, but the concepts can be applied to most languages.

Brian Moon is the founder and lead developer for Phorum, an Open Source message board written in PHP.

Daniel Beckham is the head systems administrator and developer for dealnews.com, Inc.

F10

TECHNICAL

Planning and Programming for Cross Platform

In this session we will review how to plan and program a web site or web based application to run across NT, UNIX and other platforms. For the beginner or a developer experienced on one platform we will provide examples and code based on PHP, NT 4.0, Solaris and RH 7.0



Peter Moulding was technical manager on projects utilizing bleeding edge technology.

F11

TECHNICAL

log4j, a Logging Package for Java

log4j is a widely used open source logging library for Java. In this session, will present the rationale behind the design of log4j and some usage examples. Topics include: logging as a development tool; the category hierarchy; appenders and layouts; a short example using configuration files and logging on large servers



Ceki Gulcu was part of the group that initiated the log4j project at IBM Zurich Research Lab.

F12

TECHNICAL

Open Source Database Rises to the Challenge

This talk provides information about the newest features of the most widely used open source database, MySQL, and the exciting developments being delivered in MySQL V4 that expand the core capabilities of the open source web platform. If you build demanding web sites, this session will provide valuable information that will help you plan your next major database project.

Britt Johnston is NuSphere's CTO where he is responsible for overall product design and strategic planning.

FRIDAY, APRIL 6, 2001**2:00 P.M.-2:50 P.M.****F13**

TECHNICAL

Web Application Security: Tying the Past and the Present Together

Based on our experiences as an open source web application archive for the last seven years, we'll highlight some of the big web application security bloopers of the last year. We'll also discuss the multi-faceted nature of recent security problems.

Gunther Birznies spent the majority of his web engineering/programming experience working for the Human Genome Project. He has recently been producing software for application service providers in Asia.

F14

TECHNICAL

Apache Upon Win32 In The Round

This panel discussion gathers the key Apache/Windows coders from the Apache httpd project together for one hour of discussion about questions on your mind, and will provide insights on where Apache on Windows is going from here. The panel will address your Apache 1.3 and 2.0 questions, the historical issues in Apache 1.3 and how Apache 2.0 solves them.



William A. Rowe Jr. has numerous contributions to Apache including enhancements to the Win32 port.

F15

TECHNICAL

Apache (by itself) Does Not a Web Site Make

Apache is the start of building a good web site, but it takes a variety of tools and skills to create and grow a good web site. This is not a discussion of how to do graphic design but of the other facets of what it takes to make a viable site, and how to grow it over time. The presentation will discuss the various types of adjuncts to Apache that exist, how to find them and stay current with the changes and new technology.

Rich Roth, CEO of On-the-Net, has been involved in development and marketing software products for personal and larger computers since 1976.

F16

BUSINESS

Licensing Issues in Commercial OSS Products

Open source software licensing can be very confusing for developers and business people. This presentation provides a short overview of the major open source licenses, and their perceived market issues. We will also discuss issues of integrating licenses of multiple types into a single, unified End User License Agreement for a commercialized open source package.

Matthew Lueders is Vice President of Corporate Affairs for GlueCode as where he is responsible for managing all legal aspects of corporate and contract development.

FRIDAY, APRIL 6, 2001**4:00 P.M.-4:50 P.M.****F17**

TECHNICAL

Audio and Apache

Time to explore the world of serving audio using the Apache http server. In this session will discuss streaming, on-demand audio, configuration of modules, mime types, audio formats, etc.



Sander van Zoest is a Developer with Covalent Technologies, Inc. working in the Perl, XML and online audio space.

F18

TECHNICAL

Designing High-Performance Web Applications with FastCGI

In this session we will introduce a framework for high-performance web applications. Topics include: advantages and disadvantages of the proposed approach; discussion of an actual CD / DVD shop system, implemented in this framework; analysis of the shop systems performance properties; comparing the proposed implementation to the usual PHP-based approach and conclusions and recommendations to web developers.

Peter Simons has been working as a free-lance software engineer for various international companies.

F19

TECHNICAL

Using Ant to Build Java Code

This presentation will cover the original motivations behind Ant as well as where Ant is going with version 2.0. Also presented will be a "how-to" guide for solving some specific issues using Ant.

James Duncan Davidson is a Senior Staff Engineer at Sun Microsystems and is the original author of Ant.

Running a Profitable Open-Source Company: A Case Study

In this session we will discuss the ideas behind how the "new economy" plays a large part of how we became profitable with such an innovative model. We'll also look at some of the "old economy" practices to make sure we were also following tested business practices. We'll talk about some of the tension between old and new economy and how a balance helped us reach a happy medium. Simplified real-world spreadsheet calculations (e.g. cashflow) and graphs will be included show risk analysis and where things could have gone wrong in our business model will also be discussed.

Gunther Birznies spent the majority of his web engineering/programming experience working for the Human Genome Project. He has recently been producing software for application service providers in Asia.

FRIDAY, APRIL 6, 2001**5:00 P.M.-5:50 P.M.****F21****TECHNICAL****Architecting an ASP on mod_perl**

This session will discuss the architecture of a scalable, high availability ASP application. The mix of network hardware along with Apache builds at the proxy, application and other tiers of a working system will be examined. Finally, coverage of the new possibilities and challenges presented by the forthcoming Apache 2.0/mod_perl 2.0 releases will be discussed.

Ian Kallen is CTO of Creation Engines. He is also an instructor of web administration at San Francisco State University

F22

Orientation: Technical

TECHNICAL**Building a Web Development Environment with Apache, mod_perl, CVS and Friends**

This presentation will demonstrate how it's possible to build a good system to manage it all. Sysadmin friendly and easily customizable and expandable, providing everyone working on a project with the ability to work in an environment that replicate exactly the deployed product.

Philippe M. Chiasson has been developing a web development environment for HBESoftware that currently supports more than 20 concurrent projects and over 40 developers.

F23**TECHNICAL****Running ASP & ASP.NET With Apache**

In this session we will discuss running Microsoft Active Server Pages (ASP) and ASP+/.NET applications with Apache on various Java platforms including Linux. Overview of relevant products, Open Source projects, and emerging standards will be presented.

Don Hsi is Founder & President of Halcyon Software. He has more than 20 years experience in software engineering.

F24**BUSINESS****High-Profile, High Speed: Case study in using PHP to build Alcore.com**

Re-engineering Al Gore's campaign website brought challenging requirements. The site was high profile, needed high performance, and required high reliability, all with unique applications for which there were no off-the-shelf solutions. And the timeframe was aggressive. So IDEV turned to PHP and Apache to develop a robust solution, drawing on experience using LAMP (Linux/Apache/MySQL/PHP) on high-traffic e-commerce sites.

Tony Byrne is an Internet veteran with more than 11 years experience building online networks, communities, and services.

REGISTRATION AND TRAVEL**Hotel Information****Westin Santa Clara (Headquarters Hotel)****5101 Great America Parkway****Santa Clara, CA 95054****Reservations: 1.408.986.0700 or at 1-800-Westin****Facsimile: 1.408.980.3990**

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Please call the American Airlines Group and Meetings Desk at 1.800.433.1790, or call your local American Airlines office. Please refer to AN# A9141AD. You can also call Rosenbluth Travel at 1.800.704.6490 and mention you are attending ApacheCon 2001.

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