

## *New Pre-Conference Workshops!*

# Building Object-Oriented Applications in ColdFusion®

April 30 - May 1, 2008  
Crowne Plaza Hotel, St. Paul, MN

### Overview

Team Mach-II™ is offering new pre-conference workshops that help developers learn how to apply object-oriented programming fundamentals by using the Mach-II framework. Participants may choose one of the following workshop options:

- **2-Day Workshop** (April 30 - May 1) for developers who want to enhance their knowledge about object-oriented programming and learn how to build applications with Mach-II (total of 14 hours of training time)
- **1-Day Workshop** (May 1) for developers who already understand object-oriented programming techniques but want to build better applications with Mach-II (total of 7 hours of training time)

### Workshop Facilitators

We don't offer traditional "training" but "facilitate" people's learning so they can become more effective and efficient developers. The following workshop facilitators, who actually wrote the Mach-II code, not only can explain the fundamental design principles behind Mach-II but can also show you practical ways to help you get the most out of your ColdFusion applications:

#### **Peter J. Farrell**

- Lead Developer for Team Mach-II (since the 1.1.0 release)
- Has worked with ColdFusion since 2001
- Chief Information Officer for GreatBizTools, LLC
- Member of the ColdSpring open source project

#### **Kurt Wiersma**

- Resident Geek for Team Mach-II
- Advanced Certified ColdFusion developer
- Developer for American Academy of Neurology
- Member of the ColdSpring open source project

#### **Matt Woodward**

- Release Coordinator for Team Mach-II
- Has worked with ColdFusion since 1996
- Principal IT Specialist for the Office of the Sergeant at Arms at the U.S. Senate
- Master of Science degree in Computer Information Systems, University of Phoenix

## Objectives of April 30 Workshop – Object-Oriented Programming with Mach-II

- Enhance knowledge about object-oriented (OO) programming.
- Learn CFC best practices.
- Explore common design patterns (e.g., beans, data access objects, services, facades).
- Apply OO concepts and design patterns in ColdFusion constructs.
- Discover how the model-view-controller pattern (MVC) is implemented in Mach-II.
- Understand how applications break into events.

## April 30, 2008 Workshop – Object-Oriented Programming with Mach-II

Workshop Modules	Start	End	Time
<b>REGISTRATION / BREAKFAST / NETWORKING</b>	7:30 am	8:30 am	1 hour
Introduction to OO Programming and Mach-II	8:30 am	8:45 am	15 min.
Anatomy of a CFC <ul style="list-style-type: none"> <li>▪ &lt;cfcomponent&gt;, &lt;cffunction&gt;, &lt;cfargument&gt;</li> <li>▪ Passing in arguments</li> <li>▪ Returning data</li> </ul>	8:45 am	9:15 am	30 min.
Introduction to Object Oriented Concepts <ul style="list-style-type: none"> <li>▪ Problems solved by OO programming</li> <li>▪ Definition of objects</li> <li>▪ Polymorphism, inheritance, and encapsulation</li> </ul>	9:15 am	10:45 am	1.5 hours
<b>BREAK</b>	10:45 am	11:00 am	15 min.
CFC Best Practices [Hands-on Lab] <ul style="list-style-type: none"> <li>▪ Pseudo constructor and constructor</li> <li>▪ Variable scopes</li> <li>▪ Var scoping</li> <li>▪ Instantiating</li> </ul>	11:00 am	12:00 pm	1 hour
<b>LUNCH</b>	12:00 pm	1:00 pm	1 hour
Design Pattern Safari <ul style="list-style-type: none"> <li>▪ Beans</li> <li>▪ DAOs</li> <li>▪ Gateways</li> <li>▪ Services / Managers</li> <li>▪ Facades</li> <li>▪ Singletons</li> </ul>	1:00 pm	2:45 pm	1.75 hours
<b>BREAK</b>	2:45 pm	3:00 pm	15 min.
Head First Mach-II <ul style="list-style-type: none"> <li>▪ Basic principles pertaining to Mach-II</li> <li>▪ Model-view-controller pattern (MVC)</li> <li>▪ Implicit invocation (the "II" of Mach-II)</li> <li>▪ Request life cycle</li> </ul>	3:00 pm	4:00 pm	1 hour
Building a Mach-II Application [Hands-on Lab] <ul style="list-style-type: none"> <li>▪ Mach-II skeleton</li> <li>▪ Bootstrappers – application.cfm/cfc</li> <li>▪ Configuration file</li> <li>▪ Mach-II commands</li> </ul>	4:00 pm	5:00 pm	1 hour

## Objectives of May 1 Workshop – Building Enterprise-Level Applications with Mach-II

- Build flexible applications by using filters, plugins, properties, and subroutines.
- Discover the art of using object-orient analysis and design (OOAD).
- Implement ColdSpring into Mach-II applications and modules.
- Build enterprise-level applications by using Mach-II modules, includes, and caching.
- Learn strategies for migrating legacy applications to OO and Mach-II.
- Find out where technologies like AJAX, Flex, ORMs, and web services fit into your applications.

## May 1, 2008 Workshop – Building Enterprise-Level Applications with Mach-II

Workshop Modules	Start	End	Time
<b>REGISTRATION / BREAKFAST / NETWORKING</b>	7:30 am	8:30 am	1 hour
Digging Deeper into Mach-II <ul style="list-style-type: none"> <li>▪ Extended components (listeners, filters, plugins, properties)</li> <li>▪ Bindable property placeholders</li> <li>▪ Subroutines</li> </ul>	8:30 am	10:15 am	1.75 hours
<b>BREAK</b>	10:15 am	10:30 am	15 min.
Object-Oriented Analysis and Design (OOAD) [Hands-on Lab] <ul style="list-style-type: none"> <li>▪ Domain modeling</li> <li>▪ Basic unified modeling language (UML)</li> </ul>	10:30 am	12:00 pm	1.5 hours
<b>LUNCH</b>	12:00 pm	1:00 pm	1 hour
Introduction to ColdSpring [Hands-on Lab] <ul style="list-style-type: none"> <li>▪ Problems solved by ColdSpring</li> <li>▪ The bean factory</li> <li>▪ Inversion of control (IoC) – "The Hollywood Principle"</li> <li>▪ Setter injection vs. constructor arguments</li> <li>▪ Using ColdSpring with Mach-II</li> <li>▪ Refactoring applications to use ColdSpring</li> </ul>	1:00 pm	2:30 pm	1.5 hours
<b>BREAK</b>	2:30 pm	2:45 pm	15 min.
Enterprise Features of Mach-II <ul style="list-style-type: none"> <li>▪ Using &lt;includes&gt; and &lt;modules&gt;</li> <li>▪ Integrating third-party modules and integrating them with override XML</li> <li>▪ Caching (new feature in Mach-II 1.6)</li> <li>▪ Hierarchical ColdSpring bean factories</li> </ul>	2:45 pm	3:45 pm	1 hour
Strategies for Migrating Legacy Applications <ul style="list-style-type: none"> <li>▪ Tips for migrating legacy applications to OO and Mach-II</li> </ul>	3:45 pm	4:15 pm	30 min.
Integrating Other Technologies <ul style="list-style-type: none"> <li>▪ Where technologies like AJAX, Flex, ORMs, and web services fit into applications</li> </ul>	4:15 pm	4:45 pm	30 min.
Wrap-Up <ul style="list-style-type: none"> <li>▪ Next steps</li> <li>▪ Workshop awards</li> </ul>	4:45 pm	5:00 pm	15 min.

## Workshop Requirements

- The workshops, which are not an introduction to ColdFusion, were designed for developers who are able to build complete procedural applications in ColdFusion.
- Basic knowledge of CFCs is helpful, but not required, for these workshops. About 2-3 weeks before the workshops, we will be emailing participants information about CFCs to help them prepare for the workshops.
- Participants are expected to bring a laptop/notebook computer with Adobe ColdFusion 7 or 8 installed. Computers are not available at the workshop location.

## Price of Workshops and Discounts

<b>Workshop</b>	<b><i>Early Bird Special! Register by 01/20/08 and get these discounts!</i></b>	<b><i>Regular price if you register after 01/20/08</i></b>
<b>2-Day Workshop</b> April 30 - May 1, 2008	\$760 (15% discount – save \$135)	\$895
<b>1-Day Workshop</b> May 1, 2008	\$445 (10% discount – save \$50)	\$495

Interested in on-site training for 10+ developers in your organization? We will customize our workshops to meet your specific business needs. Please call 651-747-1250 (press "1" for Sales) for more information.

## 2-Day or 1-Day Workshop Package

- Total of 14 hours (2-day workshop) or 7 hours (1-day workshop) of training time
- Wireless Internet
- Power for laptop/notebook computers
- Booklet containing presentation slides and workshop materials
- Continental breakfast, lunch, and morning and afternoon refreshments
- Mach-II t-shirt
- Mach-II quick reference poster

## Registration Cancellations and Refunds

- Cancellations made by March 30, 2008 will result in a full refund, less a \$70 service fee.
- Cancellations made from April 1 through April 15, 2008 will result in a 50% refund.
- After April 15, 2008 no refunds will be given.
- All workshop cancellation requests must be made by email.
- If you cannot attend a workshop for which you have registered, you may transfer your registration to another person at any time.
- Please email us at [cathy@bestmeetings.com](mailto:cathy@bestmeetings.com) if you wish to cancel or transfer your registration.

## **Additional Information**

- The workshops will be conducted at the Crowne Plaza Hotel where cf.Objective () 2008 is being held. The same discounted room rate for the hotel will apply for April 29 and April 30.
- We reserve the right to cancel the workshops no later than March 15, 2008.
- The above details about the workshops may change, including facilitators involved.

## **GBT's Approach to Learning**

GreatBizTools, LLC (GBT) has recently become the commercial entity supporting the Mach-II framework. GBT, who is sponsoring the workshops, is a consulting firm that specializes in designing, developing, and implementing human resource management systems, including technical training programs. GBT is supporting the efforts of Team Mach-II to enhance the overall effectiveness of the Mach-II framework, to improve documentation, and to create technical resource materials.

GBT uses training and development activities that not only reduce training time but also make learning more interesting. We will be incorporating the following accelerated learning techniques in the pre-conference workshops to make it easier for individuals to learn what they need to know:

- Creating a proper learning environment that speeds up the learning process
- Communicating high expectations throughout the training program
- Making presentations that involve colorful, graphic slides
- Providing a "big picture" framework to improve retention of information
- Using activity-based, collaborative learning techniques
- Using hands-on exercises and posing real-life problems
- Encouraging questions and providing feedback to learners
- Recognizing and rewarding successful performance in training

***Seating is limited . . . so register early to reserve your seat!***