

Saturday March 19, 2005 MIT room 34-101

MySQL Technical Overview*Hans Zaunere*

MySQL is the 'M' in LAMP, the popular open source application stack that comprises Linux, Apache, MySQL and either of PHP, Python or Perl. This seminar will focus on MySQL under the hood and its unique storage engine architecture. By utilizing a modular design, MySQL server provides solutions that meet different technical requirements such as those typical of high volume web sites, OLAP/OLTP applications or clustering environments. This seminar will also introduce database users to the enterprise features available in MySQL. Attendees will learn how to use MySQL in their environments. Attendees will also learn about the upcoming release of MySQL 5.0.

Who Should Attend ?

This technical overview will in particular benefit system architects and those who are new to MySQL. Software managers, CTOs, programmers and DBAs will also benefit from learning about some advantages of MySQL.

Seminar Topics

- MySQL Company and Open Source Overview
- Basic MySQL Architecture
- Storage Engine Review
- Conclusion

Lecturer

Hans Zaunere is a sales engineer and consultant at MySQL, Inc. His role in MySQL, Inc. gives him the opportunity to deliver mission critical management and architectural guidance for Fortune 500 companies. He has established several core development communities such as New York PHP and AMP Technology. He is also on the Board of Advisors for the New York City BSD User Group. Mr. Zaunere leverages technology and open source for businesses worldwide.

Session Chair: Jim Byrd byrd@acm.org

Seminar Book Offers:MySQL Certification Study Guide

By Paul DuBois, Stefan Hinz, Carsten Pedersen
 Publisher: SAMS Publishing
 List: \$49.95 PDS Price: \$35

Saturday April 9, 2005 MIT room E51-345

Java Gems: Ant, Tapestry & Lucene*Erik Hatcher*

While the Java language is fun, friendly, and easy to learn, to successfully build sophisticated applications, a Java developer needs to keep up with the alternatives available from the open-source landscape. This tutorial focuses on three open-source Java projects, namely, Ant, Tapestry and Lucene. Ant is the de facto Java build tool, automating steps of the development process such as unit testing, documenting, reporting, packaging and deploying. This tutorial covers the basics, tips and tricks, as well as best practices of building a web application. Tapestry is the premiere Java-based web framework. Tapestry facilitates true component-oriented web development. Those who are familiar with the plumbing behind sophisticated web interfaces will be pleased at the speed at which a web application can be produced using this framework. Lucene is a very fast and scalable search engine that can be embedded into an application.

Who Should Attend ?

Developers with some experience in object-oriented programming. Java developers will be right at home. C# or ASP.NET developers will benefit from seeing the best of breed Java solutions. Development managers will benefit from learning the streamlined development possibilities.

Seminar Topics

- Java development best practices
- Ant - build tool
- Tapestry - web framework
- Lucene - search engine

Lecturer

Erik Hatcher is an Apache Software Foundation member and committer on several projects including Ant, Tapestry, and Lucene. He co-authored two well-received books on Ant and Lucene. Erik has written articles for several publications, including java.net, JavaPro, and IBM developerWorks. He frequently presents at conferences such as JavaOne, O'Reilly Open Source Convention, Open Source Content Management Conference, the No Fluff, Just Stuff symposiums, and Java User Groups. Erik is a developer at the University of Virginia's Applied Research in Patacriticism department.

Session Chair: Lena Lau lenalau@acm.org

Seminar Book Offers:Java Development with Ant

By Erik Hatcher, Steve Loughran
 Publisher: Manning Publications
 List: \$44.95 PDS Price: \$30

Lucene in Action

By Otis Gospodnetiæ, Erik Hatcher
 Publisher: Manning Publications
 List: \$44.95 PDS Price: \$30

Tapestry in Action

By Howard M. Lewis Ship
 Publisher: Manning Publications
 List: \$44.95 PDS Price: \$30

Saturday April 30, 2005 MIT room 34-101

Model-Oriented Architectures and Frameworks for Swing-based User Interfaces*Dan Jacobs*

Building complex, functional, scalable, user-friendly, and robust user interfaces is a difficult task. The two most important jobs of any user interface are maintaining a high level of confidence from the user, and performing the right work in cooperation with the back-end of the application. Good model-oriented approaches to user-interface design and implementation, in conjunction with good supporting frameworks, help to address both of these concerns by providing consistency and reliability in the interface itself, and coordinated separation of front-end and back-end logic.

Swing is based on a variation of the Model-View-Controller (MVC) design pattern, but the models and controllers in Swing's world are not application models and application controllers. Model-oriented architectures expose another level of MVC in which Swing is used to implement the view, while the application models and controllers are expressed in the language of the application. This presentation explores this higher level and examines practical ways to build world-class user-interfaces using Java and Swing.

Who Should Attend ?

Experienced object-oriented software developers who want to learn how to build better desktop-style user-interfaces with a lot less effort. Familiarity with event-driven user-interface development is useful. Familiarity with Java and Swing, while useful, is not essential.

Seminar Topics

- Object-oriented design patterns for structuring model-oriented user-interface designs
- Tips and tricks to use Swing effectively
- Concrete approaches for implementing form-style editors, tree-based and table-based viewers
- Concrete approaches for data validation at multiple levels

Lecturer

Dan Jacobs has an M.S. in Software Engineering and over 20 years of experience as an architect and developer of object-oriented software. Dan started ModelObjects Group in 1995 (originally Tech Tonic Netsystems), as an independent consulting company specializing in providing assistance in all areas of Java architecture and development for the Boston area software community. Dan is also the President of JPlates Inc., which provides commercial software tools for object-oriented development of web applications and code-generation applications. In addition, Dan has served as the chairman of the Boston area ACM WebTech chapter since 1997.

Session Chair: Peter Mager p.mager@computer.org

General Information**Schedule**

8:30am-9:00am	Registration (continental breakfast)
9:00am-12:15pm	Morning session (break ~ 10:30am)
12:15pm-1:30pm	Lunch (provided on site)
1:30pm-4:30pm	Afternoon session (breakfast ~ 2:30pm)
5:30pm-7:30pm	Opt dinner with speaker (self-pay)

Registration Fees

Seminar materials, lunch, and refreshments are included in the \$80 fee. Registrants not current members of the GBC/ACM are charged an additional \$10, and become members of the chapter for a year. This is distinct from ACM membership. Surcharge for on-site registration is \$10. Purchase orders, faxes and e-mail cannot be accepted. Early registration must be made by mail with a check or money order, or on-line with a credit card at:

<http://www.gbcaacm.org/registration>

Payment for on-site registration can only be made by cash or check. Enrollment is limited and on a first-come, first-served basis. To receive confirmation from GBC/ACM, register at least three weeks in advance of the seminar.

Cancellation & Refund Policy

Cancellations must be received in writing. The full seminar fee will be refunded if the PDS Registrar receives written notification before the start of the seminar, addressed to:

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 PO Box 465
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Refund requests received after the seminar date will be subject to a \$15 administrative fee. The \$10 membership fee will not be refunded.

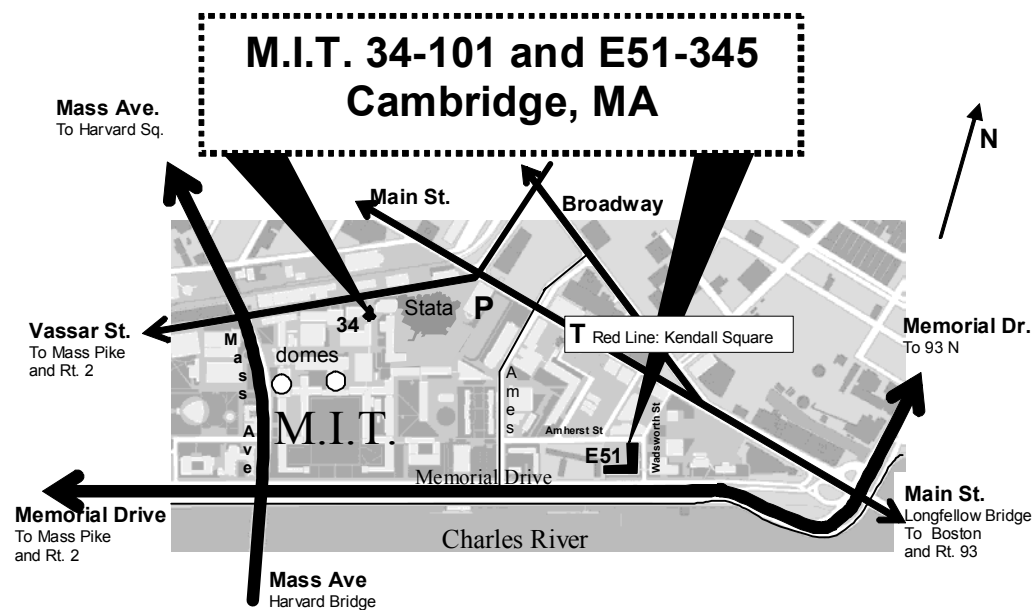
If the books are not available at the time of the seminar, the amount prepaid for the book will be courteously refunded.

Questions

For the latest update, see: <http://www.gbcaacm.org> or call:

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Directions to MIT



Building 34 is located on Vassar Street about halfway between Main Street and Massachusetts Ave. It is a small square building turned 45 degrees to the street so it may look like a diamond, especially with a glass atrium entrance. Building 34 is set back a few yards from the street and the line of other buildings. It is between buildings 36 and 38.

Building E51 is the Tang Center. The street address is 70 Memorial Drive. It is located at the north west corner of Memorial Drive and Wadsworth Street.

Parking:

There are metered parking spots on Vassar Street and free parking spots on the north side of Memorial Drive. There is also a commercial parking lot at the intersection of Vassar Street and Mass Ave. There is another commercial garage on Ames Street, behind Legal Seafood. Parking in MIT's lots follows the rules and regulations of MIT.

Public Transportation:

Red line to Kendall Square. Walk west on Main Street and turn left onto Vassar Street for building 34. Walk east on Main Street and turn right onto Wadsworth Street for building E51.

New Pilot PDS Scholarship Program Offered to Students and the Unemployed

The GBC/ACM is in the process of establishing a pilot program to offer students and the unemployed a reduced rate of admission to the Professional Development Seminars. For those that qualify, the charge will be only \$40 (not to include any books purchased). Students/unemployed paying this \$40 fee will get the same attendance at the seminar, lecture notes, snacks, and lunch that would normally cost \$80. They do not have to pay \$10 to join the GBC/ACM unless they want to become GBC/ACM members. Students/unemployed have the option of purchasing the related books if they chose. An additional \$10 discount will be offered to full-time students enrolled at the institution where the seminars are conducted (currently MIT).

The GBC/ACM web site www.gbcacm.org accepts registrations and credit card payments at the normal rate, but it is not set up to accept these student/unemployed scholarships yet. To register at the discounted student/unemployed rate, email Peter Carmichael pcarmichael@alum.mit.edu

GBC ACM March Meeting (continued from page 1)

Jay Conne has over four decades of experience in communications, systems and data engineering, as well as training, and business development. He has served in these roles in the Bell System, General Electric, Honeywell, Burroughs Corp, Digital Equipment Corp. and for financial services, transportation and consulting firms. Jay is currently working with Ben Koo on productizing OPN. Jay is a former GBC/ACM President and the current Chapter VP.

For a map of MIT Building 51: <http://whereis.mit.edu/map-jpg?mapterms=e51>

March Meetings

Software Quality Group of New England

Topic: Champagne QA on a Beer Budget (Anna Allison Memorial Presentation)

Speaker: Linda McInnis, Noble Associates

Date/Time: Thursday, March 10, 2005 6:00PM - Networking 6:30 PM - 8:00 PM Meeting & Presentation

Location: Sun Microsystems, Burlington, MA

Details: <http://www.swquality.com/users/pustaver/bcs.htm>

Boston SPIN

Topic: A culture of discipline with an ethic of entrepreneurship: can ISO, CMMI, and Agile methods co-exist?

Speaker: Peter R. Hennessey, Brook Software

Date: Tuesday, March 15, 2005 6 PM Networking, 7:10 PM Presentation

Location: The Mitre Corporation, S Building, Bedford, MA

Details: <http://www.boston-spin.org/meeting.html>

(March Meetings continued on page 7)



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Spring 2005 Continuing Education Program

For Detail Course and Registration Information, Visit our Website at

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Register Early to get a Discount!

Advanced Umts Communications
Date and Time: Mondays, April 4, 11, 18,
6:30PM - 8:30PM
Location: Westin Hotel, Waltham

Implementing Voice over IP
Date and Time: Saturday, April 30,
8AM - 5PM
Location: EMPIRIX, Bedford

Open Process Frameworks
Date and Time: Tuesday, April 12,
8AM - 5PM
Location: Radisson Hotel, Woburn, MA

Fundamentals of C++
Date and Time: Tuesdays, May 3-June 7,
6:15PM - 9:45PM
Location: Sheraton Hotel, Lexington

Fundamentals of Java Script Programing
Date and Time: Thursdays, March 24 - April 21
6:15PM - 9:45PM
Location: Sheraton Hotel, Lexington

Agile Object-Oriented Analysis and Design
Date and Time: Thursdays, May 5 - 26,
7PM - 9PM
Location: Sheraton Hotel, Lexington

Entrepreneurship-How to Start Your Own Company
Date and Time: Saturday, March 12,
9AM - 5PM
Location: Westin Hotel, Waltham

Power Quality in Electrical Systems
Date and Time: Tuesday, April 5, 12 & 26,
6PM - 8PM
Location: Westin Hotel, Waltham

Practical Phased-Array Antenna Systems and Adaptive Arrays for Radar and Communication Systems
Date and Time: Mondays, Feb 21 - May 2
6:00PM - 9:00PM
Location: MITRE Corp., Bedford, MA

How to Build & Maintain a Profitable Consulting Practice
Date and Time: Saturday, April 2,
8:30AM - 4:00PM
Location: Westin Hotel, Waltham, MA

Configure and Secure Your Home or Small Business Network Mini-Course Lab
Date and Time: Wednesdays, April 13, 20
6:15PM-9:45PM
Location: Sheraton Hotel, Lexington

A Practicle Hands-On Introduction to XML Schemas and its Applications
Date and Time: Monday, Tuesday, April 4 - 5
8:30AM-4:30PM
Location: Westin Hotel, Waltham

Predictable Software Development Part I, II & III
Date and Time Part I: Tuesday, April 12,
8:30AM - 12:00Noon
Date and Time Part II: Wednesday, April 13
Date and Time Part III: Thursday, April 14
8:30AM-4:30PM
Location: Westin Hotel, Waltham

Real Times Editor

Rochelle Goren, rochelle_goren@comcast.net

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Timely notices of events, meetings, and other activities of interest to the Chapter's Membership should be submitted by the 10th of the month Before the intended issue and sent, with attention to the Managing Editor to:

GBC/ACM, P.O. Box 465, Lexington, MA 02420 (781) 862-1181

The Chapter's mailing list is available to related professional organizations or for commercial use. Please contact the Membership Chair at the address above when requesting mailing lists.

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Websites of some Local Groups

GBC/ACM

www.gbcacm.org

SIGGRAPH

www.siggraph.org/chapters/boston

Boston SIGCHI

www.gbsigchi.org

WebTech

www.acm.org/chapters/webtech

SPIN

www.boston-spin.org

IEEE

www.ieeeboston.org

IEEE Consultants Network

www.ieee-boston.org/consultants.htm

Boston-area User Group Calendar

www.bugc.org

March Meetings (continued from page 3)

New England Security Information Group

Topic: Preparing for the Next Wave of Attack

Speaker: Dan Bezilla, CTO of Secure Elements

Date/Time: Thursday, March 17, 2005 6:30 PM

Location: Microsoft Office, Waltham, MA

Details: <http://www.neisg.org/Meetings/Default.htm> -

Meetings are free but require advance registration.

January 2005 Brain Teaser Solutions

1. Once Upon a Time
2. Preemptive Strike
3. Under Study Dancer
4. Dog Days
5. Five Alarm Fire
6. Circulating Library
7. Courts in Order, Order in the Court
8. Chopped Onion
9. Ant Infestation
10. Foreign Dignitary
11. Jail Bird
12. Rain in Spain Stays Mainly on the Plain

ONCE TIME	Strike-emptive	STUDY DANCER	shepherd beagle poodle	24 hrs 24 hrs 24 hrs
alarm alarm fire alarm alarm	l y r i b a r	coorderurt	chopped ion	
FESTANTATION	digni4tary	PRISON PIGEON	Sparainin mainly plain	

Gym Locker Solution will appear in a future edition

Hint: solution can be stated in terms of a special number property

Spring 2005 PDS REGISTRATION

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Book Titles	Seminar	Advanced Registration	Walk In	Amount
MySQL Technical Overview		\$80	\$90	
MySQL Certification Study Guide		\$49.95	\$35	
Java Gems: Ant, Tapestry and Lucene		\$80	\$90	
Java Development with Ant		\$44.95	\$30	
Lucene in Action		\$44.95	\$30	
Tapestry in Action		\$44.95	\$30	
Model-Oriented Architectures and Frameworks for Swing-based User Interfaces		\$80	\$90	
GBC ID #	(required)	or \$10		
International ACM #	(If you are a member)	Total		

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Or register online at: <http://www.gbcacm.org/registration> and pay by credit card.

*** Calendar of Upcoming Events ***

Date of Event	Page	Sponsor	Location
March 10	3	Software Quality Group of NE	Sun Microsystems, Burlington, MA
March 15	3	Boston-SPIN	Mitre Corporation, Bedford, MA
March 17	1	GBC ACM	MIT, Cambridge, MA
March 17	7	NE Security Information Group	Microsoft, Waltham, MA
March 19	4	GBC ACM Spring PDS	MIT, Cambridge, MA
April 9	4	GBC ACM Spring PDS	MIT, Cambridge, MA
April 30	5	GBC ACM Spring PDS	MIT, Cambridge, MA

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The Real Times

Vol. 44 No. 7 www.gbcaacm.org March 2005

GBC/ACM March 2005 Meeting

A meta-language for system architecting: A case study based on NASA's Apollo Program

Speakers: Benjamin Koo and Jay Conne

Date/Time: Thursday, March 17, 2005, 7-9 PM

Location: MIT E51-345, Cambridge, MA

Language is our basic tool of thinking and communicating. A meta-language supports the consistent creation of domain-specific languages, such as the languages of chemistry, electrical engineering or rocket science. And having an executable meta-language gives you an automated language generation and computation capability. Ben Koo's recent research developed an executable meta-language that supports system architects' modeling processes by automating certain model construction, manipulation and simulation tasks. This language facilitates systematically communicating an architect's intent with a wide range of stakeholders and organizing knowledge from various domains. The investigation into existing architecting approaches and technologies has pointed out the need to develop a simple, yet formal language that expresses multiple layers of abstractions, provides reflexive knowledge about the models, mechanizes data exchange and manipulation, while allowing integration with legacy infrastructures. A small set of linguistic primitives, stateful objects and processes

that transform them, were identified as both required and sufficient building blocks of the meta-language, specified as an Object-Process Network (OPN). To demonstrate OPN's practical value in large-scale engineering systems, the research applied OPN to two space exploration programs and one aircraft design problem. In these experiments, OPN was able to significantly simplify the modeling and architectural reasoning process by automating a number of manual model construction, manipulation, and simulation tasks.

Dr. Benjamin Koo served as a software architect in the Information Technology industry for many years. He provided enterprise application integration services to various Fortune 500 corporations, mostly in the Financial and Telecommunication industries. He received his doctoral degree from MIT, where his primary research interest focused on the theory and instrumentation for system architecting. He is currently a Post-Doctoral Associate at MIT, working on the Concept Evaluation and Refinement program sponsored by (continued on page 3)

Visit the GBC ACM website for meeting details and last minute changes:
<http://www.gbcaacm.org/website/semInfo.php?id=1095>