Date of event	Page	Sponsor	Location
Oct 2	4	GBC/ACM PDS	MIT
Oct 6 -Dec 8	3	Knuth at MIT	MIT
Oct 16	5	GBC/ACM PDS	MIT
Oct 21	1	GBC/ACM	BBN/GTE,Cambridge
Oct 28	2	IEEE/CS	Mitre, Bedford
Nov 6	5	GBC/ACM PDS	MIT

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The Greater Boston Chapter of the acm
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Dated Materials

The Official Newsletter of the Greater Boston Chapter of the acm

The Real Times

Vol.38 No.8 www.gbcacm.org October 1999

GBC/ACM Meeting
Thursday, October 21, 1999

Message Oriented Middleware

Robert Herr, Open Finance Corporation
to be held at
GTE Internetworking (formerly BBN) Newman Auditorium
10 Fawcett St, Cambridge MA

Meeting starts at 7:00 pm. Pre-meeting refreshments available at 6:45

An optional pay-your-own dinner at Bertucci's, Alewife, follows the meeting.

This talk will give a description of messaging oriented middleware within the context of general middleware solutions and application integration strategies. It will focus on the specific delivery technologies available, how to select basic middleware strategies and the current state of messaging middleware. Given that the primary focus of middleware deployment is application integration, the speaker will detail some specific examples to compliment the technology discussions and present the advancing art of data description with respect to encoded messaging schemes, the use of XML and similar definition languages, the growth of industry protocols to support E-commerce and the use of messaging in Web based applications, both as a supporting technology for traditional servers and as a mechanism to use in creating true electronic communities.

Robert Herr is a Middleware and Financial Protocol Architect and has been the primary architect deploying middleware and Web technologies in multiple Financial Services environments. He served as the technology leader for a number of middleware products spanning a CORBA predecessor to the Open Source reference in XML based streamed messaged delivery. Robert has maintained a focused on the practice of application integration in financial services. Through an affiliation with numerous universities and industry groups he has established a reputation for thoroughly understanding the business practices involved in the principle areas of Financial Front Office scenarios including FX, Fixed Income and Equity operations. His most notable industry achievements include the development of Financial Protocols including supplements to FIX, integration of NASDAQ, contingency and convertible orders and electronic FX Dealing.

Directions to GTE Internetworking (BBN)/Recorded directions: (617) 873-4567

From Route 128, Lexington: Take Route 2 inbound. The four-lane highway narrows to two lanes near Route 16. At the traffic light bear right onto Alewife Brook Parkway. Proceed past shopping centers to the Fresh Pond Rotary. Take the first right onto Concord Avenue. Fawcett Street is one block down Concord Avenue, on the right.
From the Mass. Pike: Take the Pike inbound to the Cambridge/Allston exit. Exit onto the Cambridge off-ramp and take Cambridge Street. Turn left onto either Storrow or Memorial Drive. (Storrow Drive is on the Boston side of the Charles River and Memorial Drive.)
From Storrow and Memorial Drives: Take Storrow or Memorial Drive west: follow signs to Route 2,3,16. Remain on 2. The road will become narrow and winding. This is the Fresh Pond Parkway. Several car dealerships and Fresh Pond Seafood will be on the right. At the 1st rotary, take the third right onto Concord Ave. Continue straight at the second rotary. Fawcett is one block futher on right. Once on Fawcett St. the Newman Auditorium is about ½ block, on the right. Park in the lot on the right side of the street; the lot is adjacent to the auditorium building.
Public Transporation: Take the T to Harvard Square. From Harvard Square take the Concord Ave./Belmont Center bus. Get off at Fawcett St.

The Real Times is published ten times per year (September through June) and is the official newsletter of the Greater Boston Chapter of the Association for Computing Machinery, First or third-class postage paid at Boston, MA 02101, Lexington, MA 02420, and other post offices.

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.

Annual subscription cost is included in the Chapter Membership dues of $10.00. See top line on mailing label for membership expiration date. Library subscriptions are free. Please send orders for copies to the Chapter mailing address above.

Postmaster:

Address changes should be sent to the mailing address above. Allow eight to ten weeks for changes to address or membership renewal to become effective. Send old label with address modifications.

IEEE Computer Society
Thursday, 28 October, 1999, 6:30 PM
A-Lobby of Mitre Corp, Bedford, MA

XML Technologies
Dr. Roger L. Costello, The MITRE Corporation

Today's Web provides people with unprecedented access to online information and services. However, the format-oriented, hand-crafted HTML encoding in which most Web information is delivered makes it understandable only "by eyes" and difficult for agents and other automated processes to use. Search engines and "shopping bots" cannot perform well if the information they gather is not semantically encoded. Clever programmers have worked around some of the inherent limitations of HTML by using proprietary tags or software that "scrapes" Web pages to extract content. However, such approaches do not scale. Proprietary tags require browser plug-ins while scraping approaches require ad hoc scripts. Both approaches balkanize the Web and make it inaccessible to agents. This presentation will discuss how the rapidly expanding set of XML technologies will enhance the capabilities of the Internet.

For more information, look at www.ieee-boston.org or contact Alan Brooks at (781) 271-6497 or abrooks@mitre.org.
See http://www.mitre.org/about/location/b-map.html for directions to MITRE.

Websites of some Local Groups

GBC/ACM

www.gbcacm.org

SIGGRAPH

www.siggraph.org/chapters/boston

SIGCHI

www.xensei.com/gbsigchi

WebTech

www.acm.org/chapters/webtech

BACOM

www.netnumina.com/bacom

SPIN

www.cs.uml.edu/Boston-SPIN

IEEE

www.ieee-boston.org

IEEE Consultants Network

www.boston-consult.org

Return this form to GBC/ACM PDS, PO Box 465, Lexington, MA 02420-0005

Seminar & *Book Titles*	**Advance Registration**	**Walk-in**	**Enter Amount**
Programming in the Jini Architecture	$80	$90	
The Jini Specification	$30	$30	
JavaSpaces	$30	$30	
Application Server Bootcamp	$80	$90	
High Performance Client/Server	$30	$30	
Design Patterns for Java Servlets	$80	$90	
Design Patterns CD	$25	$25	
Java Servlet Programming	$25	$25	
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Fall 1999 PDS Program

General Information

Schedule:
8:30am - 9:00am Registration
9:00am - 12:15pm Morning session (break at 10:30am)
12:15pm - 1:30pm Lunch (provided on-site)
1:30pm - 4:30pm Afternoon session (break at 2:30pm)

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, credit cards, faxes and e-mail cannot be accepted. Enrollment is limited and on a first come, first served basis. Early registration must be made by a check or money order at least three weeks in advance of the seminar to receive confirmation from GBC/ACM.

Location:
MIT Building 54, Room 54-100 is located on the 2nd floor of the "Green Building" (the name not the color), which is an 18 story building in the center of the MIT campus. It is the tallest building at MIT with a large sphere (radar dome) on top

Parking:
There is free parking on Vassar Street all Saturday and there is a parking structure surrounded by a parking lot at the corner of Vassar and Main.

Public Transportation:
Red line to Kendall Square. Walk west on Main Street to Ames Street; turn left on Ames Street, and walk to the triangular shaped building (building 66). Turn right, and walk on the path keeping building 66 on your right, and you will reach a courtyard. On your left, you will see an 18 story building with a large sphere on the top. Room 54-100 is the lecture hall on the 2nd floor of that building.

Questions: See: http://www.gbcacm.org or call: (781)862-1181

Saturday October 2, 1999
Programming in the Jini Architecture
Ken Arnold

Overview:
The Jini™ technology provides an infrastructure for developing and deploying services in a network. Based on the Java platform, it allows new types of services to be installed without extra work at any nodes in the network that use those services. This course will start with an overview of the Jini architecture, its purpose, and its architecture. It will then describe how to write a service and client for a Jini system.

Objectives:
This course will go through the Jini architecture starting at a high level and ending up knee deep in code. The focus will be o n object design abstractions using the Java programming language.

Seminar Topics:
What is the JINI architecture ?
How does it work ?
What do I have to do to be a service ?
What do I have to do to be a client ?

Lecturer:
Ken Arnold is a Senior Staff Engineer with Sun Microsystems, previously in Sun Labs, and now part of the Jini team as the lead architect of JavaSpaces. Ken is the technical editor for the official Jini™ Technology Series of books, published by Addison-Wesley, and is a co-author of the first two books of the series: *The Jini™ Specification* and *JavaSpaces™ Principles, Patterns and Practice*. He is also the co-author, with James Gosling, of *The Java Programming Language,* now in its 2nd edition. He is a leading expert in object-oriented design and implementation, has written extensively on C and C++ topics for UNIX Review, and is also the co-author, with John Peyton, of *A C User's Guide to ANSI C.*
See: http://java.sun.com/people/arnold, http://sun.com/jini, http://jini.org

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

Books:
The Jini™ Specification by Ken Arnold (Editor), A. Wollrath, B. O'Sullivan, R. Scheifler, J. Waldo, published by Addison-Wesley
(PDS Price: $30.00, List: $39.95)
JavaSpaces™ Principles, Patterns and Practice by Ken Arnold, Eric Freeman, Susanne Hupfer, published by Addison-Wesley
(PDS Price: $30.00, List: $39.95)

Fall 1999 PDS Program

Saturday October 16, 1999
Application Server Bootcamp
Jeff Tash

Overview:
This seminar provides attendees with a comprehensive technological foundation covering all facets of application server technology. We will examine the underlying architectural features that enable scalability, session and state management, load balancing, fault tolerance, high availability and robust systems management. The seminar compares the competing server–based component models Enterprise Java Beans (EJB) and Microsoft Transaction Server (MTS) and COM+.

Objectives:
Understand how application server technology enables web-based self-service style enterprise solutions for employees, customers, partners and suppliers. Discover how application servers differ from traditional client / server computing. Identify the key technology issues critical for designing, developing and deploying distributed application server-based systems. Learn what differentiates various competitive application server products.

Seminar Topics:
Extensive analysis of Application Server technologies. Comprehensive description of Application Server Functionality. In-depth examination of Enterprise Java Beans (EJB). In-depth examination of Microsoft Transaction Server (MTS) and COM+. Comparative review of leading Application Server Products.

Lecturer:
Jeffrey B. Tash is the president of Hewitt Technologies (formerly Database Decisions), an information technology education and consulting firm founded in 1985. Acquired in 1988, Hewitt Technologies is a wholly owned division of Hewitt Associates LLC, a leading consultancy in corporate benefits, compensation, and human resources. Mr. Tash specializes in emerging information technologies. His expertise spans client/server computing, component-based object-oriented software development, and Internet / Intranet / Extranet application development and deployment.

Session Chair: Jay Conne (conne@acm.org)
Book: *High Performance Client/Server* by Chris Loosely, published by John Wiley & Sons (PDS price $30, List: $44.99)

Saturday November 6, 1999
Design Patterns for Java Servlets
Dan Jacobs

Overview:
This presentation talks about the use of server-side Java in general and Java servlets in particular, for building large, complex, dynamic websites. It focuses on the kinds of design problems that commonly occur and on how the use of Design Patterns can help to organize the design of complex web server based Java applications so that they can grow and evolve effectively.

Objectives:
To explain how to write servlets more effectively using design patterns.

Seminar Topics:
- Overview of server-side Java and Java Servlets
- Overview of Design Patterns
- Servlet life-cycle details and API overview
- Problems building complex networks of dynamically generated pages
- A few guiding principles
- Addressing different problems with a focus on relevant patterns

Lecturer:
Dan Jacobs is President of Tech Tonic Netsystems, a software engineering contracting and consulting group based in Burlington, specializing in object-oriented software engineering and internet applications. Dan has 20 years of R&D experience in object-oriented languages, systems, databases and applications, and has been developing Java applications, user interfaces, and servlet-based dynamic web sites as the founder of Tech Tonic since January 1996.

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

Books:
Design Patterns CD, by Gamma, Helm, Johnson, & Vlissides, published by Addison-Wesley (PDS price $25.00, List $29.95)
Java Servlet Programming by Jason Hunter, William Crawford, Paula Ferguson, published by O'Reilly & Assoc (PDS price: $25, List $32.95)

Books for Sale

GBC/ACM has the following books from previous seminars still available for sale. They are available on a first come first served basis. Checks will be returned if the book is no longer available.

Title	Author	List Price	ACM Price	Quantity	Total
The JAVA Programming Language	Ken Arnold	$34.38	$25.00		
The HTML3 Manual of Style	Larry Aronson	$24.95	$20.00		
The Java Swing Book	Eckstein, Loy, Wood	$44.95	$35.00		
About Face: The Essentials of User Interface Design	Alan Cooper	$29.25	$20.00		
Working with Active Server Pages	Michael Corning	$39.99	$25.00		
JAVA: How to Program (with CD)	Paul Deitel	$99.95	$55.00		
JAVA: How to Program (book only)	Paul Deitel	$51.00	$40.00		
The SGML FAQ Book: Understanding the Foundation of HTML and XML	Steve DeRose	$68.00	$55.00		
The Web Security Reference Guide	Lincoln Stein	$29.95	$20.00		
Real-Time Systems Design and Analysis	Phil LaPlante	$69.95	$55.00		
The C++ Programming Language, 3rd Ed	Bjarne Stroustup	$42.99	$30.00		
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Fall 1999 God and Computers Lecture Series

Donald E. Knuth
Professor Emeritus of The Art of Computer Programming, Stanford University

Don will give a series of six lectures about interactions between faith and computer science. As always, the lectures are free and open for the public. They will be held at MIT 34-101 (50 Vassar St.) on Wednesdays. We will start at 4:15 pm with refreshments, the talks and discussions begin at 4:30 pm. The lecture series is entitled,

Things a Computer Scientist Rarely Talks About

Lecture 1 (October 6): Introduction
Why I am unqualified to give these lectures. Why the lectures might be interesting anyway. The 3:16 project, a turning point in my life.

Lecture 2 (October 13): Randomization and Religion
The advantages of unbiased sampling as a way to gain insight into a complicated subject. Dangers to avoid when using this approach.

Lecture 3 (October 27): Language Translation
How to translate Bible verses without knowing Hebrew or Greek. The surprising awards of such attempts, even though the task is difficult or impossible.

Lecture 4 (November 3): Aesthetics
Scientific work as an artistic endeavor. The deep influence that beautiful presentation can have on our understanding of texts. Illustrations by many of the world's greatest masters of calligraphy.

Panel Discussion (November 17): Topic TBA

Lecture 5 (December 1): Glimpses of God
What I think I learned about God from the 3:16 project. What I think I learned about theology from the 3:16 project. The difference between the two.

Lecture 6 (December 8): God and Computer Science
Computer programmers as creators of new universes. Computational complexity as a way to approach the questions of free will and omnipotence. Other concepts of computer science that may give insights about divinity.

Conveners:

Dr. Anne Foerst, Research Scientist, MIT AI Lab
Robert Randolph, Senior Associate Dean for Undergraduate Education and Student Affairs, MIT

Wednesdays, MIT 34-101, 50 Vassar St., Cambridge
Refreshments at 4:15 p.m. prior to the 4:30 p.m. lecture

Directions

By car from Boston: Take Massachusetts Avenue to Cambridge, and turn on the first right (Vasser St.) after the MIT dome. MIT buildings 36-38-34 are on the right side. Look for the huge glass entrance.

By T: Red Line Kendall Square station; follow Main Street, pass Legal Seafood, turn left. Building is on your left.