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Feb 2		SIGGRAPH	GTE Labs, Waltham
Feb 10	2	IEEE Comm	GTE Labs, Waltham
Feb 15	2	SPIN	General Dynamics Needham
Feb 17	1	GBC/ACM	GTE Internetworking Cambridge
Mar 18	4	GBC/ACM PDS	MIT
Apr 8	5	GBC/ACM PDS	MIT
Apr 29	6	GBC/ACM PDS	MIT

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The Real Times

Vol.39 No.2

www.gbcaacm.org

February 2000

GBC/ACM Monthly Meeting
7:00 PM, Thursday, 17 February 2000
GTE Internetworking (formerly BBN) Newman Auditorium

A Next-Generation Resource-Bounded Information-Gathering Agent

Professor Victor Lesser
Multi-Agent Systems Laboratory
Computer Science Department
University of Massachusetts at Amherst

The World Wide Web has become an invaluable information resource, but the explosion of available information has made web search a time-consuming and complex process. The large number of information sources and their different levels of accessibility, reliability and associated costs present a complex information-gathering control problem. This talk describes the rationale, architecture, and implementation of a next-generation information-gathering system that has been constructed by the Multi-Agent Systems Laboratory at the University of Massachusetts at Amherst. This system, called BIG, integrates several areas of Artificial Intelligence research under a single umbrella: it plans to gather information to support a decision process, reasons about the resource trade-offs of different possible gathering approaches, extracts information from both unstructured and structured documents, and uses the extracted information to refine its search and processing activities.

Victor Lesser has been a professor in the Department of Computer Science at the University of Massachusetts at Amherst since 1977 and is currently Director of the Multi-Agent Systems Laboratory there. Prior to that, he was a Research Computer Scientist at Carnegie-Mellon (1972-1977) where he was the system architect for the Hearsay-II speech understanding system. Professor Lesser is president of the International Foundation for Multi-Agent Systems (IFMAS) and holds editorial board positions on the Journal of Autonomous Agents and Multi-Agent Systems (Associate Editor), International Journal of Cooperative Information Systems (Regional Editor), Artificial Intelligence Review, and Group Decision and Negotiation.

Pre-meeting refreshments will be available at 6:45 PM. An optional pay-your-own dinner at Bertucci's, Alewife, follows the meeting. This meeting is free, open to the public, and no registration is required. For more information, contact Scott Curry at scurry@object-components.com or look at: <http://www.gbcaacm.org>.

Directions to GTE Internetworking (BBN)/Recorded directions: 617-873-4567, then press 1.

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 Ave., on the right. Once on Fawcett St., the Newman Auditorium is about 1/2 block on the right. Park in the lot on the right side of the street; the lot is adjacent to the auditorium building. For additional directions, see <http://www.gbcaacm.org>.

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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:

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Software Process Improvement Network (SPIN)

Tuesday, February 15, 2000

Topic: Using Quality to Drive Project Lifecycles

Speaker: Johanna Rothman

General Dynamics, Building 5, 77 "A" Street, Needham

(see web page below for details)

IEEE Communications Society

7:00 PM, Thursday, 10 February

Security and Authentication in Mobile IP

Stuart Jacobs, CISSP, Network Security, GTE Laboratories

GTE Labs, Waltham, MA

(see IEEE-Boston web page calendar section for more details)

Websites of some Local Groups**GBC/ACM**

www.gbcaacm.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

Spring 2000 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.

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:

**GBC/ACM
PO Box 465
Lexington MA 02420-0005**

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

Questions & Directions

See: <http://www.acm.org/chapters/gbc>

or call: (781)862-1181

Spring 2000 PDS Program

Paul Deitel

Saturday April 1, 2000

Advanced Java Topics for Java Programmers

MIT Room 54-100 (Green Building)

Overview

This seminar provides an overview of several important changes from Java 1.1 to Java 2, and provides a fast-paced introduction to several enterprise-level Java APIs for developing distributed multi-tier client/server applications. The seminar uses the Deitel's demo-driven "live-code" approach in which every topic is presented in the context of a complete working Java program.

Objectives

Upon completion of this seminar, students should have a clear understanding of the changes in multithreading and GUI components, and a foundation on which to build their knowledge of JDBC, RMI, Servlets and JavaBeans.

Seminar Topics

- Overview of the Swing GUI components and some of the key differences between Swing and AWT.
- Threads: Implementing suspend, resume and stop functionality without the deprecated suspend, resume and stop methods of class Thread.
- Connecting to a database with Java Database Connectivity (JDBC).
- Enhancing a Web server with Servlets.
- Creating a three-tier client/server application with servlets and JDBC.
- Creating a distributed, client/server application with Remote Method Invocation (RMI).
- Using JavaBeans and the JavaBeans Development Kit.
- Creating your own JavaBeans.

Lecturer

Paul J. Deitel, is the Executive Vice President of Deitel & Associates, Inc., He has delivered Java, C and C++ courses for industry clients including Compaq, DEC, Sun Microsystems, Rogue Wave Software, Computervision, Stratus, Fidelity, Cambridge Technology Partners, Lucent Technologies, Adra Systems, NASA at the Kennedy Space Center, the National Severe Storm Laboratory, White Sands Missile Range, IBM and many others. He has lectured on C++ and Java for the GBC/ACM. He has taught satellite-based Java courses through a cooperative venture of Deitel & Associates, Prentice Hall, and the Technology Education Network. He is the co-author of sixteen books and multimedia packages with Harvey Deitel, and is currently writing many more. Their books are used in thousands of universities, government agencies and corporations in more than 100 countries and have been translated into 8 Languages.

Session Chair: Mike Plusch

Seminar Book Offer

(This seminar includes a book instead of notes)

Java - How to Program, 3rd Edition (CD included)

by: Paul J. Deitel, Harvey M. Deitel

Publisher: Prentice Hall

List: \$65.00 + \$80.00 Seminar

~~\$145.00~~

Spring 2000 PDS Program

Nelson Mattos

Saturday April 29, 2000

SQL for the 21st Century

MIT Room 34-101 (Edgerton Hall)

Overview

Remember outer joins, table constraints, and nested table expressions? That's nothing compared with what you are going to see in the future of SQL. Interested in Object-Relational, OLAP, Active Databases, Federated Databases, and management of external, non-relational data? This presentation covers all the latest advantages in SQL and its implementation by major database vendors using examples from several important database language standards: SQL99, OLAP, SQL/MM, SQLJ, JDBC 2.0.

Seminar Topics

- Introduction
- History of SQL
- SQL Conforming Products
- Vendor contributions to the standards
- SQL99
- Schema Manipulation Language
- Information Schema
- Data Types
- SQL-invoked Routines
- Object-Relational Support
- Constraints
- Triggers
- Data Manipulation Language
- SQL Procedural Language Extensions
- SQL/MM
- Full Text
- Spatial
- Still Image
- SQLJ and JDBC
- Embedded SQL for Java
- Stored procedures and UDFs using Java
- JDBC 2.0 Extensions for SQL99 Types
- SQL Types and Methods using Java
- Support for Federated Databases and Management of External Data

Lecturer

Nelson Mattos is a senior technical staff member and a senior manager at IBM's Santa Teresa Laboratory in San Jose, California. He is IBM's representative to the ANSI SQL committee and a U.S. representative to the ISO committee for database. He has contributed and had accepted more than 300 proposals to the design of SQL99. As a senior manager at the Santa Teresa lab, Mattos leads an organization responsible for the development of DB2 UDB and the DataJoiner product and the support of key technologies, such as replication, object-relational capabilities, extenders, and business intelligence extensions across the DB2 family of products.

Prior to joining IBM, Nelson was an associate professor at the University of Kaiserslautern (Germany), where he earned a Ph.D. and was involved in research on object-oriented and knowledge base management systems. Nelson received his B.S. and M.S. degrees from the Federal University of Rio Grande do Sul, Brazil. He has published over 75 papers on object-relational databases, knowledge base management, and application areas in various magazines and conferences, and is author of the book An Approach to Knowledge Base Management.

Session Chair: Peter Mager

(No Seminar Book)

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Seminar Book Titles	Advanced Registration*	Amount
Commerce Applications on Windows 2000	\$80	
<u>Designing Component-Based Applications</u>	\$39.99 \$25	
<u>Professional Active Server Pages 3.0</u>	\$59.99 \$35	
Advanced Java Topics for Java Programmers	lecture + book + Training Course CD \$189.95 \$125	
<u>Java-How to Program 3rd Edition</u> (book required as lecture notes)	additional book + Training Course CD \$109.95 \$60	
<u>Internet & World Wide Web: How to Program (book only)</u>	\$65.00 \$55	
SQL for the 21st Century	\$80	
<i>*Walk In (Not Advanced Registration)</i>	\$10	
GBC ID #	(required) or	\$10
International ACM #	(If you are a member)	Total

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Spring 2000 PDS Program

Bob Familiar

Saturday March 18, 2000

Commerce Applications on Windows 2000

MIT Room 34-101 (Edgerton Hall)

Overview

This seminar will be an overview of how to write distributed applications in Windows 2000 systems. Topics include COM+, DNA, XML, and scripting.

Objectives

Windows DNA, a blueprint for distributed, scalable applications, will be described. COM+ is an integrated part of Windows 2000, includes COM and MTS, and provides Thread Management, Database Connection Pooling, Transaction Monitoring, Object Pooling, Dynamic Load Balancing, and many other features. Scripting techniques for building scalable web applications will be described. Finally, XML and Biztalk will be described, and the session will show how to use XML in a distributed application.

Seminar Topics

- Windows DNA Architecture Overview
- Simplifying Server Development with COM+ Services
- The Role of Script in a Distributed System
- Application Integration using XML and BizTalk

Lecturer

Bob Familiar is a Principal Consultant and certified Microsoft Solution Developer with over 14 years of experience in software engineering. He has developed solutions in C, C++, Java, SQL, Visual Basic, JavaScript and HTML and has over 9 years of experience using Microsoft Development Tools. Bob holds a patent for technology that maps relational database tables to object oriented software components. Bob's current areas of interest include object oriented analysis and design of distributed object models, distributed computing using COM+ and Internet Scripting technologies like Active Server Pages, DHTML and JavaScript.

Session Chair: Jim Byrd

Seminar Book Offers

Designing Component-Based Applications

by: Mary Kirtland

Publisher: Microsoft

List: ~~\$39.99~~ PDS Price: \$33.00

Professional Active Server Pages 3.0

by: Brian Francis, Alex Homer, David Sussman, Dino Esposito, Andrea Chiarelli, Mathew Gibbs, Bill Kropog, Craig McQueen, Godfrey Nolan, George Reilly, Simon Robinson, John Schenken, Kent Tegel

Publisher: Wrox Press Inc

List: ~~\$59.99~~ PDS Price: \$50.00