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If the top line of your mailing label below reads ****EXPIRED****, please renew your membership at the very affordable rate of \$10/yr. Please consider renewing for more than one year at time. It saves all of us some labor. For that \$10 you get your very own copy of this newsletter/local event calendar. And, not to worry, we know our database can handle the century boundary because many members have paid through the year 2000! Thank you.



The Greater Boston Chapter of the

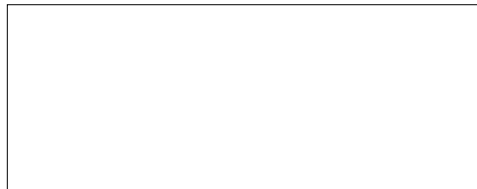


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The Real Times

Vol.35 No.7

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May 1997

Developing Groupware Applications for the Web using Lotus Domino

MAY 15, 1997

RIZWAN VIRK, CEO BRAINSTORM TECHNOLOGY INC.

EVENING STARTS AT 6:30 PM WITH REFRESHMENTS

LECTURE STARTS AT 7:00PM

ABSTRACT

This talk will focus on using Lotus Domino as a development and deployment environment for building web-enabled groupware applications. Domino is the latest server of Lotus Notes and is an HTTP server and a Notes server that communicates with multiple clients. Lotus has integrated all of the features of Notes and brought them to the Web. As the focus in the web world shifts from creating company marketing web sites to building more interactive inter/intranet applications, integrated development environments like Domino will become more important.

This talk will give an overview of how Domino applications are built, and will delve into several important areas for application development and deployment, including:

- Security with Domino
- Distributed Authoring for Web Sites
- Creating and Submitting Forms
- Initiating Server-based agents
- Planning a Groupware Application: Domino User Model
- Writing code for Domino applications
- Replication and other key features of Notes

SPEAKER BIOGRAPHY

Rizwan Virk is CEO and co-founder of Brainstorm Technology, Inc, the leader in groupware products and services. Rizwan has been working with Lotus Notes since 1992, and is a recognized expert in the industry on matters concerning groupware, the internet and enterprise integration. Rizwan is a contributing author to Lotus Notes 4 Unleashed, and was the author of a monthly column in Databased Advisor about Lotus Notes development.

He is the editor of a soon to be published book - Domino Survival Guide. Rizwan has given presentations at numerous industry events, including Lotussphere, the Lotus European Technology Conference, the WorldWide Association of Lotus Notes Users, the Boston Notes User's Group, and the Boston WebMaster's Guild.

Rizwan has consulted companies around the world on the use of groupware technology and enterprise applications. Prior to starting Brainstorm, Rizwan consulted at a variety of companies internationally, including Lotus Development Corporation, Fidelity, and KLM. Rizwan holds a B.S. in Computer Science and Engineering from the Massachusetts Institute of Technology and can be reached at rvirk@braintech.com.

Directions to Bolt Beranek and Newman (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 further on 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.

Public Transportation: Take the T to Harvard Square. From Harvard Square take the Concord Ave./Belmont Center bus. Get off at Fawcett St.

Real Times Managing EditorRobert Epolito, (617) 438 1954, epolito@tiac.netGBC/ACM Officers(1996 -1997)

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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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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.

Subscriptions: 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.

WebTech Meeting**May 20, 1997****7:00 pm, at MIT, 1-390****Active Platform****Robert Familiar of Microsoft**

Microsoft's Active Platform allows you to build solutions faster by assembling client and server software from pre-built components. It defines a distributed component architecture linked together with the standard protocols HTTP and COM." Topics to be covered include Active Server Pages, Transaction Server, Advanced Data Connector, Java Applets and ActiveX Controls using actual Web sites and code samples.

In many ways, the evolution of web applications is recapitulating that of client/server applications. There was a long running debate on where business logic should execute in client/server applications: with the user interface logic on the client ("fat client") or with the database on the server ("thin client"). There is an analogous issue for web applications: where should the user interface logic execute? There are two poles in the spectrum of answers to this question:

"Fat Client"

the user interface is packaged as a Java applet which runs on the client with the web browser.

"Thin Client"

the user interface logic is packaged as a web server extension (CGI, NSAPI, or ISAPI) which runs on the same server host as the web server.

Under the fat client approach, the web server's involvement is limited to serving the static HTML page that contains the applet, and the Java class files for the applet. The applet interacts directly with the object servers that implement business logic via RMI, CORBA, or DCOM. Under the thin client approach, the web browser simply forwards user input to the server extension (via HTTP), and renders the HTML that it receives in response. The web server extension contains all of the logic to process the user input and update the display. There is also a hybrid approach, where the user interface logic is split between web server extensions and executable content (script, applets, ActiveX controls). The server extension can generate HTML pages that contain script and objects. Some user input is handled entirely by scripts and objects running in the browser. Other user input is forwarded to the server extension, which processes it and generates another HTML page. The thin client approach is older, having been supported by HTML forms and CGI programs. Many thought that as Java matured, the fat client approach would replace thin clients entirely. This has not yet proved to be the case. In fact, the architectures and tools for thin client and hybrid architectures (e.g., Netscape LiveWire, Microsoft Active Platform) have continued to evolve, and are still more widely used than the pure Java approach. The user interfaces in most client/server applications are developed using RAD tools rather than OOP's. Will the same be true for web applications?

Ken Arnold Explains Distributed Computing in Java

Although the past GBC/ACM monthly meeting was cosponsored also by WEBTECH, Ken Arnold packed the Newman Auditorium at BBN. Ken discussed several key areas that Sun East is developing for distributed computing where both sides (of a client/server) application are implemented in Java. These key areas were: - Object Serialization, - Remote Message Invocation (RMI), and - JavaSpaces. The first two areas are currently part of Java 1.1, whereas JavaSpaces is only available as a draft

(continued on page six)

Achieving Process Maturity in a Small Organization and on Small Projects

Donna L. Johnson and Judith G. Brodman

TUESDAY, MAY 20, 1997

(REFRESHMENTS) AT 6:30 PM

(MEETING) AT 7:00-8:30 PM

Boston SPIN May Meeting

(Admission Free)

GTE, Building #5

77 A Street, Needham, MA

(Wheelchair accessible)

MEETING OVERVIEW

In this talk, Ms. Johnson and Ms. Brodman discuss the challenges organizations that are small or have small projects face with their software process improvement efforts. Traditional models, such as the CMM, serve large organizations in their improvement efforts, but overwhelm the limited resources of small organizations and small projects. Areas that are particularly challenging to small organizations, such as documentation, training, and metrics, will be examined in light of practices that other organizations have successfully put into place to meet improvement goals, whether these goals be to satisfy CMM and ISO requirements or to reduce time to market. Ms. Johnson and Ms. Brodman will show small organizations how to overcome their improvement challenges without resorting to an elaborate infrastructure to support process improvement, and how to extend practices that are already in place in an organization to meet improvement goals.

ABOUT THE SPEAKERS

Donna Johnson and Judith Brodman are President and CEO, respectively, of LOGOS International, Inc. Their special focus has been on the ROI for software process improvement initiatives and on the issues facing small businesses, small organizations, and small projects in their improvement efforts.

Ms. Johnson and Ms. Brodman have published The LOGOS Tailored CMM and are working on two additional books which address documentation shortcuts and process improvement aids. They have published articles and presented at conferences world-wide on their consulting and research experiences. Ms. Johnson is Chair of the Boston SPIN and Ms. Brodman is the author of the 'Dear SPIN Doctor' column in the Boston SPIN Newsletter.

UPCOMING MEETINGS

June 17 - Metrics, Anita Carleton, Software Engineering Institute

MEETING CANCELLATIONS

due to inclement weather will be announced on radio WRKO 680 AM, WBZ Channel 7, and sent e-mail by 3 PM on day of meeting.

DIRECTIONS

To get to GTE, Building #5: From Route 128 in Needham, take exit 19A onto Highland Avenue East. At first traffic light, turn RIGHT onto Second Avenue. Go 1/4 mile (passing hillside Sheraton entrance on right) and turn RIGHT onto A Street. Take the first left into the GTE parking lot and enter the building through the cafeteria entrance. This door is to the left of the main entrance by the flagpole. There will be a security guard at the entrance.

Seminar & Book Titles	Advance Registration	Walk-in	Enter Amount
Needs Assessment & Goal-Directed Design	\$75	\$85	
<i>About Face: The Essentials of User Interface Design</i>	\$20	\$20	
International ACM# _____		Subtotal	
GBC ID# _____ or \$10 (required)		\$10	
Pay to GBC/ACM with Check or money order Only		Total	
Batch:	Chk #	Trans. #	Date
Name:			
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Address: Home Work			
City: State: Zip:			
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Technologies for Developing Web-based Applications

The first Professional Development Seminar of the Spring provided a strong introduction to the available options for Web Application development. Most of the focus was on Server technologies, but the point was made that many of the technologies are also available on the Client. The speaker was Kee Hinckley of USWeb Utopia in Waltham. If you didn't attend, here's some of what you missed!

Server-side applications are appropriate when the data is in large databases, document repositories, or on legacy applications. Client-side applications are appropriate when highly interactive or compelling content is desired, when using a host-terminal-emulator, or when providing integration with the client computer. Client-side applications often require a strictly-controlled user-base to ensure that needed plug-ins or special browser capabilities are installed.

Server-side applications utilize a variety of interfaces at the API level, and the Common Gateway Interface (CGI). CGI is ubiquitous and has lots of support libraries, especially in perl. However it has some shortcomings, especially performance because a new process is spawned with each invocation, and there are no persistent connections. Information is passed in environment variables or on standard input; responses are sent via standard output. The server buffers and creates headers (unless the program indicates otherwise). It is widely used for processing forms, interfacing with non-web-enabled applications, accessing low-end databases, pre-processing html files, and creating on-the-fly content back to the client.

Servers can be mounted on several popular operating systems; each of the discussed environment have excellent to fair ratings in such characteristics as performance, reliability, security, ease of administration, development tools and database engines. A server and operating system need to be matched for volumes, startup effort and costs, intranet vs. internet access, ease of administration, etc.

The Apache server is derived from a NCSA base, is very configurable, tracks standards closely and provides high performance for virtual hosting (a single server managing multiple web domains). It operates in the Unix, OS/2 and BeOS environments.

The Netscape Enterprise server provides high performance for single web sites, has built-in database and search engines, incorporates JavaScript on the server, but is a "memory burner" to provide the speed. It operates in the Unix and NT environments.

The Microsoft Server operates on NT only, and provides hooks for scripting languages and ActiveX, a built-in search engine, database integration, and a browser-capability database.

The StarNine / QuarterDeck WebStar server is designed for low-end machines with small memory footprints. It has been ported from Macintosh to the NT and Win95 environments.

Client-side applications often have dependencies on extensions or plug-ins for the users browser. This can be disruptive and drive traffic away from the site. In an internet environment it is very important to judge the market penetration of plug-ins before expecting to utilize them. Some plug-ins include Real Audio (which opens a udp streaming connection, which breaks when the page is changed!), Apple QuickTake movies, Macromedia Shocked multimedia, etc. Microsoft ActiveX is intended to provide similar capabilities and leverage the base of OLE programs and programmers.

JavaScript is built into recent versions of Netscape Navigator and Microsoft Internet Explorer. JavaScript is related only in adoption of the marketing-wise name with the Java programming language. JavaScript has no specification, and is coded within a html document using the <script> tag. It can interact with Java programs as well as enabled plugins. It can validate forms, process http GET requests, manipulate form fields, detect mouse positions for additional interactivity.

The Java language operates on both servers and clients. It is intended to be platform independent, but since the implementation quality differs, developers may need to take especial care (there's only one Unix, right?).

With the variety of web application capabilities, there is a very real exposure for "binary poisons", a lethal combination of otherwise innocuous applets, plugins and/or browser features. Another possibility is that code downloaded may stay alive and resident, perhaps used for some massive parallel processing, borrowing cycles from each machine which had loaded the "leech" application.

Design of web applications falls into two major cases: program driven or content driven. Program driven applications offer faster execution, programmatic flexibility, and play to the ego of the developers. However, they are slow to prototype and hard to change, both critical in the real world.

Successful web applications are constantly changing. Once a client sees an application, it is hard to imagine them not wanting to change it somehow. And since programmers are seldom good designers anyway, it is important to let the content drive the application. This can include templates or style sheets, separation of design and content and code, and easier change. Execution times may suffer, but some tools now provide compilation facilities.

The process for successful application development was defined as:

- Designers and programmers should architect the application
- Build interface templates and mock-up some data
- Code the back-end
- Merge the code and templates
- Redesign the templates
- Repeat the last three steps until the application becomes obsolete

Prepared by Howard Green, computing solutions,
solutions@capecod.net

Professional Development Seminars - 1997 Spring Series

Needs Assessment & Goal-Directed Design

With Jared Spool, User Interface Engineering & Alan Cooper, "The Father of VisualBasic"

May 3, 1997 (Saturday)
Northeastern

OVERVIEW

Discover the right design questions, answer them, and then design software to meet your users' needs. Jared will present techniques to collect accurate data about who your users are and what they will actually do with your product. Alan will show you how easy it is to identify your users' real goals and how to

WHO SHOULD ATTEND

Application designers, developers, and their managers who want to understand the role and methods of effective application design.

SEMINAR TOPICS

- Techniques for Needs Assessment - Jared Spool
 - User myth reconciliation — discovering what you know
 - Contextual Inquiry (Users in the mist) - detail insights
 - Focus groups - quickly talk with your users
 - Usability testing with paper mockups
- Goal Directed Software Design - Alan Cooper
 - Goals vs Tasks
 - The Goal Stack: False; Corporate; Practical; Personal
 - How to avoid Excise and Navigation waste
 - Exercises to practice making these design distinctions
- Panel Q&A

LECTURERS

Jared M. Spool is a Founding Principal at User Interface Engineering (UIE) and is on the faculty of Tufts University's Gordon Institute. UIE is a consulting firm specializing in the design and implementation of computer product user interfaces. Jared specializes in Usability Engineering and Rapid Prototyping technology. His clients include the Harvard Business School, Lotus, Bank Of Montreal, Powersoft, Progress Software, IBM, and Viewlogic.

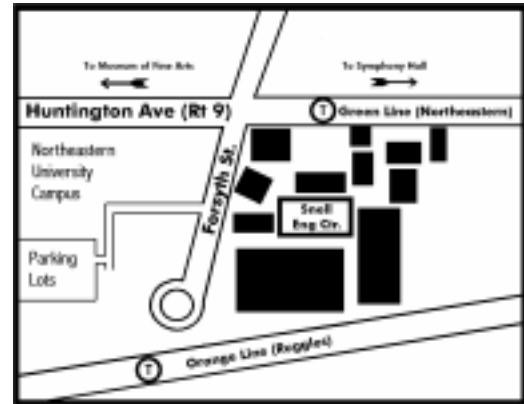
Alan Cooper, author of *About Face: The Essentials Of User Interface Design*, is known as the "Father of Visual Basic." He is the President of Cooper Software, a leading software design consulting firm in Silicon Valley whose clients include Logitech, Adobe and Zoran. Their proprietary Goal-Directed software design process allows them to achieve a simplicity and effectiveness of design unique in the industry."

SESSION CHAIR:

Jim Ganino, JSganino@tasc.com

Location

The last seminar is at Northeastern University, Boston, within walking distance of the MBTA Green Line (Arborway/E Train) Northeastern station and the Orange Line Ruggles station. Free parking is available is available at both locations. Parking lots are provided at Northeastern University.



Schedule

8:30am - 9:00am	Registration (continental breakfast)
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

Included in the \$75 fee are seminar materials, lunch, and refreshments. 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 fee will be refunded if the PDS Registrar receives written notification on or before the day of the seminar, addressed to GBC/ACM, PO Box 465, Lexington MA 02173. Refund requests received after the seminar date will be subject to a \$15 administrative fee. The \$10 membership fee will not be refunded.

Any Questions?

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

Call (617)862-1181

Seminar Book Offer

About Face: The Essentials of User Interface Design

by Alan Cooper

List: \$ 29.99, PDS Price \$20.

(Offers only good when included with registration fee.)

Symposium on Software**Reusability (SSR'97)****Tutorials open to All**

On Saturday, May 17th, the Symposium of Software Reusability will kick-off with a day of tutorials that is also open to the general public (i.e., you don't have to register to the symposium in order to register to the symposium's seminars). These are half-day tutorials on a variety of reuse related topics. On Saturday morning you have:

- Generative Reuse: A Survey of Tools and Processes" by Prem Devanbu and Bill Frakes
- designing High-Performance Reusable Code" by Gregor Kiczales and Chris Maeda
- Extending the Software Process to Include Reuse" by Carma McClure
- Requirements-driven Software Reusability" by Barry Keepence and Mike Mannion
- On Saturday afternoon you have:
- Software System Generators, Architectures, and Reuse" by Don Batory
- Design Delimmas that Impede Construction of High-Quality Components" by Joe Hollingsworth and Bruce Weide
- Software Reuse metrics, Reusability Metrics, and Economic Models" by Jeff Poulin
- Software Reuse with Java" by Ernesto Guerrieri.

Special prices are available if you attend two tutorials. Find out more at URL <http://www.owego.com/~ssr97/>

by Ernesto Guerrieri, Ph.D
e.guerrieri@ieee.org
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(continued from Ken Arnold at the bottom of page 2)

specification (that can be found at URL ...). Ken's talk was entertaining and informative of the new distributed computing capabilities that are possible with Java. Imagine passing an object that a server has never seen before and the server is capable of retrieving the object's methods for execution! This and others were some of the examples that Ken illustrated. After the question/answer session, everyone in the audience received a copy of the Java 1.1 class hierarchy diagrams provided by Charles Perkins (if you weren't there and want a copy see URL <http://rendezvous.com/java>)

MAY GB/SIGCHI MEETING**Wednesday, May 21, 1997**

Refreshments at 6:30, Meeting 7:00 - 9:00
MITRE Corporation, 'A' Building, Bedford, MA
(Free and open to the public. wheelchair accessible.)

Distance Learning Using Multiple Collaborative Technologies

**Lisa Neal, Senior Research Engineer,
Electronic Data Systems**

For more information please contact the program chair:

Ron Perkins
rperkins@shore.net
508.465.6083

Abstract

Organizations and universities are searching for ways to reduce the cost and increase the availability of education. We experimented with the use of multiple interaction technologies to provide an effective alternative to face-to-face instruction. This talk describes how collaborative technologies, including a corporate Intranet, video conferencing, audio conferencing, Internet Relay Chat (IRC), email, NetMeeting, Virtual Places, WorldsAway, and other Internet-based conferencing tools, were used to teach classes to geographically-dispersed participants. The talk will cover the motivation for distance learning, the selection and use of delivery technologies, deployment strategies and issues, participant feedback, and the Virtual University that evolved from the initial distance learning classes.

We found that the use of multiple technologies provided richer communication than any one technology alone. The technologies in combination provided an effective alternative to face-to-face instruction, and allowed us to reach more people in more locations than we would have without distance learning. However, the use of each technology was far more complex than we had imagined at the outset. There were also striking differences between the distance learning and face-to-face classes including instructor preparation and lecture style, student interactions, the types of assignments that worked well, and the importance of establishing protocols.

About the Speaker

Lisa Neal is a senior research engineer at EDS, where she develops and delivers courses on Emerging Technologies in HCI and Collaborative Environments, and consults in these areas. Lisa previously worked with the Capture Lab, EDS's computer-supported meeting room. Prior to joining EDS, she completed a Ph.D. in Computer Science at Harvard University. Lisa is co-editor of "Structure-Based Editors and Environments," Academic Press, 1996.

Directions

The MITRE Corporation (Bedford) (617) 271-2000

From Lowell and I-495

1. Take Route 3 South to Exit 26 (Route 62)

2. Turn Left on Route 62. It is a short distance to MITRE entrance on left — watch for building directories on MITRE grounds.

From Boston

1. Take Route 128 (I-95) to Exit 32A, which is Route 3 North.

2. Follow Route 3 North for two miles to Exit 26, which is Route 62.

3. Bear right on Route 62. It is a short distance to MITRE entrance on left — watch for building directories on MITRE grounds.

Go to 'A' building. Watch for an arrow pointing for Visitors. If you'd like a map, point your web browser to: <http://www.mitre.org/about/location/b-map.html>

SIGGRAPH/Boston

May 14, 1997 Meeting

Graphics and Virtual Environments at Boston University and SCV Open House

SIGGRAPH/Boston Contacts WWW: <http://www.v-site.net/siggraph-ne>
Julie Satterfield julies@world.std.com (617) 325-5351

LECTURE WEDNESDAY, MAY 14, 1997 7PM

Stone B-50 675 Commonwealth Avenue Boston University Charles River Campus

SCV OPEN HOUSE WEDNESDAY, MAY 14, 1997 3PM-8PM

Computer Graphics Lab Room 203 111 Cummington Street Boston University Charles River Campus

Abstract

Graphics and Virtual Environments at Boston University Erik Brisson, Manager of Graphics Programming ebrisson@bu.edu. The Scientific Computing and Visualization (SCV) group within the Office of Information Technology at Boston University provides specialized computing and communication resources geared towards research and education in computational science and engineering, scientific visualization, computer graphics and other related disciplines. SCV manages these resources in close collaboration with the University's Center for Computational Science (CCS). Through the NSF-sponsored MARINER program SCV and CCS share experience, expertise, knowledge and facilities with partners in the New England area.

The talk will describe the computing and graphics environment supported by SCV, including high-performance computing facilities, production facilities, graphics machines, and virtual reality hardware and software. Particular emphasis will be placed on recent efforts in the Virtual Reality area, describing the Pyramid Systems Immersadesk, EVL CAVE software, Virtual Research VR6 head-mounted display, Ascension Technology Flock of Birds trackers, and FakeSpace Pinch gloves. After the talk, attendees will be invited to participate in demos of the Immersadesk and the head-mounted display system. **The talk will begin at 7:00 pm in Stone B-50, 675 Commonwealth Avenue, Boston.**

SCV will be running an Open House which is open to the general New England community before and overlapping the meeting from 3:00 pm -8:00 pm. SIGGRAPH/Boston meeting attendees are invited to come before the meeting to see demonstrations in the areas of high-performance computing, scientific visualization, virtual environments, and animation. **The Open House will take place in the Computer Graphics Lab, Room 203, 111 Cummington Street, Boston.**

About the Speaker

Erik Brisson is Manager of Graphics Programming in the Scientific Computing and Visualization group, within the Office of Information Technology at Boston University. He has fifteen years of experience in industry and academia in algorithm development, computational geometry, and computer graphics.

Parking

Parking is available at metered spaces on Cummington and nearby streets, as well as in Boston University parking lots for \$6.00.

Directions to the Charles River Campus

from the South or West: Take the Massachusetts Turnpike (I-90) East to Exit 18, Allston/Cambridge. Exit left. Follow signs to Cambridge to the second set of lights. Turn right at the lights; this is Soldiers Field Road/Storrow Drive. Exit Storrow Drive at the Kenmore Exit.

from the Southeast: Take I-93 Route 3 (Southeast Expressway) North to Boston. Exit onto Storrow Drive (Exit 26). Continue on Storrow Drive to the Kenmore exit.

from the North: Take I-93 or Route 1 South to Boston. Exit onto Storrow Drive (Exit 26). Continue on Storrow Drive to the Kenmore Exit.

via Public Transportation: Boston University is easily accessible by public transportation. Get off at the "BU-East" stop on the "B" branch of the MBTA Green Line.

Local Directions From the Kenmore Square/Commonwealth Avenue exit off of Storrow Drive: At the first set of traffic lights, turn right onto Beacon Street. At this point, the road forks stay to the right, Bay State Road. Take Bay State Road. Follow to the end of Bay State Road and make a left. You are now facing the Warren Towers. Make a left onto Commonwealth Avenue and take your immediate right onto Hindsdale Street. Cummington Street is straight ahead. Go right and look on the right for 111 Cummington Street.

Related URLs:

<http://scv.bu.edu/SCVHome.html>

The Scientific Computing and Visualization Group

<http://mariner.bu.edu/MARINER/>

Mariner

<http://mariner.bu.edu/MARINER/INFO/DIRECTIONS/>
Directions to Boston University

SIGGRAPH/Boston maintains a mailing list for e-mail announcements of meetings.

Send e-mail to siggraphdistrib-request@cs.umb.edu if you want be added or dropped from this list.