EVENT SCHEDULE

8:30-9:15	Breakfast & Registration
9:15-9:30	Welcome
9:30-10:30	Seth Proctor
	Sun Microsystems
10:30-10:45	Break
10:45-11:45	David Croston
	IAM Technology
11:45-1:00	Buffet Lunch
1:00-2:00	Steve Weis
	Google
2:00-2:15	Break
2:15-3:15	Moti Yung
	Columbia University & Google
3:15-3:30	Break
3:30-4:30	Blair Semple, NetApp
4:30-5:30	Reception

EMAIL REGISTRATION
To: ipp@cs.brown.edu
By: Monday, November 12, 2007
Please provide name, company, and mailing address.

DIRECTIONS TO THE CIT BUILDING
*From I-95, take Exit 20 to I195E
*Take Exit 2, Wickenden Street
*Take a left on Wickenden and a left at the second light onto Brook Street
*Continue on Brook several blocks to a traffic light at Brook and Waterman.
*The CIT – a large red and tan brick building – is on the left at the intersection; the entrance is on the other side, facing the quadrangle.
*Event registration is on the third floor.

PARKING
Brown has a Visitor Parking Lot across the street from the CIT on Brook Street; this lot charges an hourly fee. You may get your parking ticket validated by the Department receptionist on the fourth floor to get a lower parking rate. On-street parking can also be found in the vicinity.

The primary goals of the Industrial Partners Program (IPP) are to exceed the expectations of our partner companies in terms of recruiting and outreach; to allow our faculty to engage in challenging and meaningful research collaborations and to provide resources and employment opportunities for our students. The Department wishes to thank our industrial partners:

Collaborators
Cisco Systems

Premier Partners
Adobe
Network Appliance
Sun Microsystems

Affiliates
Apple
Google
GTECH
ITA Software
Microsoft
Oracle
VMware

Small Business Supporters
IAM Technology
Linkage Systems

Individuals
Jim Baker, Zyasoft
Paul Edelman, Edelman & Associates

To learn more about the Industrial Partners Program, contact:
John Hughes or Ugur Cetintemel,
Faculty Co-Directors
Telephone: 401-863-7600
ipp@cs.brown.edu

Amy Tarbox, Program Manager
Telephone: 401-863-7610
abt@cs.brown.edu

Thursday, November 15, 2007
8:30 AM – 5:30 PM
Room 368
Watson Center for
Information Technology

SECURITY
&
PRIVACY

BROWN UNIVERSITY
DEPARTMENT OF COMPUTER SCIENCE
INDUSTRIAL PARTNERS PROGRAM
39TH BIANNUAL SYMPOSIUM

SETH PROCTOR
Sun Microsystems
Making Security Scale

As systems have become more complex and increasingly distributed, one of the great challenges has been maintaining security, providing privacy, and protecting users who often know little or nothing about the ways in which their systems and data are managed. In short, the security of our systems hasn't scaled along with the systems themselves. One question is why, given that we have very strong building blocks in the form of robust ciphers and hash algorithms, good cryptographic protocols, and solid theory for many aspects of information flow. This talk cites several projects, both internal explorations and external collaborations, that I have worked on over many years in Sun's research labs. These examples are used to argue that scalability comes not just from the technical design of a system, but also its comprehensibility, usability, and manageability. It is often failings in these criteria that lead to the security and privacy break-downs that have become so widespread.

DAVID CROSTON
IAM Technology
Authentication of Outsourced Storage

This talk will present a collaborative project between Brown's Center for Geometric Computing and IAM Technology that is aimed at developing a general method and a practical application for maintaining authenticated files in an untrusted network storage service. The authentication process is managed by an application external to the storage service and can work with a variety of online storage services since it is independent from the specific storage technology used. Experimental results show that our integrity verification method is efficient and that the overhead due to authentication is negligible.

STEVE WEIS
Google
Competition & Fraud in Online Advertising Markets

Advertising fraud, particularly "click fraud," is a growing concern to the online advertising industry. This talk will present an economic model of the online advertising market, with a focus on the effect of ad fraud. The central question is whether advertising networks have an incentive to combat fraud. The main outcome of the model presented in this talk is to answer this question in the affirmative. The economic model predicts that ad networks have an interest in fighting fraud and can obtain a competitive advantage with better filtering technology.

MOTI YUNG
Columbia University & Google
On the Evolution of Authentication Factors

The talk will describe how the modern computing environment, its capabilities on the one hand and threats associated with it on the other hand, influence the basic notion of end-user authentication.

BLAIR SEMPLE
Network Appliance
New Techniques to Address Computer Security Threats

With data breaches making headlines and with new and growing threats coming from disgruntled insiders, viruses/worms, corporate espionage, cyber-terrorism, and information warfare, there is a heightened concern over information assurance. Today, largely invisible enemies launch daily attacks on nearly every major corporation and government agency, and rapidly adapt their tactics to address countermeasures. As the threat model evolves, traditional "perimeter" security measures are no longer adequate to protect sensitive information. It's time for enterprises to consider a number of time-tested techniques and principles to prepare for such electronic warfare. This session will present the newest techniques that help address evolving computer security threats.

SECURITY & PRIVACY
HOST: PROFESSOR ROBERTO TAMASSIA