LOCATION

Marriott Buffalo-Niagara
1340 Millersport Highway
Amherst, NY 14221 USA
Phone: 1 716-689-6900
Fax: 1 716-689-0483

Website: http://marriott.com/property/propertyPage/BUFNY

For accommodation, call Marriott Buffalo-Niagara directly and mention "Workshop on Secure Knowledge Management" to get the Workshop rate of $89 per night, single or double

REGISTRATION

Workshop Website: http://www.cse.buffalo.edu/caeiae/skm2004.html

Registration Website: http://www.ubevents.org/regengine/index_event.php?eventid=72

THE PROGRAM   DAY 1

Thursday, September 23, 2004

7:30 – 8:30   Breakfast/Registration

8:30 – 8:45   Welcome Address

                 Satish Tripathi, Provost, University at Buffalo, State University of New
                 York

8:45 – 9:30   Keynote Address

                 Secure Knowledge Management

Bhavani Thuraisingham, Program Director, Cyber Trust and Data and Applications Security at the National Science Foundation

9:30 – 10:15   Keynote Address

National Cyber Security – Progress and Road Ahead

Hun Kim, Director, Strategic Initiatives at the Department of Homeland Security, National Cyber Security Division

10:15 – 10:45 Coffee Break

10:45 – 12:00 <u>SESSION 1A:</u>   Access Control and Rights

Chair: John McDermott, Naval Research Laboratory

Towards an Interdisciplinary Understanding of Trust and Rights

Shiu-Kai Chin, Professor and Director, CASE Center, a NY State Center for Advanced Technology in Information Technology, Syracuse University (Invited Talk)

Using Subject and Object Specific Attributes for Access control in Web-based Knowledge management Systems

Gerald Stermsek, Mark Strembeck, and Gustaf Neumann, Vienna University of Economics, Austria

Providing Technical Controls to Secure Federal Information Systems

Stephanie Wettstein, TNT Communication, Portland, Oregon

SESSION 1B: Trust and Privacy

Chair: Mukesh Singhal, University of Kentucky (tentative)

Private and Trusted Collaboration

Bharat Bhargava, Purdue University (Invited Talk)

Trust-based Security Policies

Henry Hexmoor, Sandeep Bhattaram, and Seth Wilson, University of Arkansas

Assessing the Effect of Deceptive Data in the Web of Trust

Yi Hu, Brajendra Panda, and Yanjun Zuo, University of Arkansas

12:00 – 1:15   Lunch

1:15 – 2:45   SESSION 2A: Monitoring, Detection and Intrusion Response

Chair: Olivia Sheng, University of Utah

A Queuing Formulation of Intrusion Detection with Active and Passive Responses

Wei T. Yue, Metin Cakanyildirim, and Young U. Ryu, University of Texas at Dallas

Workflow Anomaly Detection in Secure Systems

Timothy J. Smith, MCNC Research and Development Institute

Detecting the Misappropriation of Information through Bottleneck Monitoring

Terrance Goan and Matthew Broadhead, Stottler Henke Associates, Inc., Seattle, Washington

Network Log Anonymization: Application of Crypto-PAn to Cisco Netflows

Adam Slagell, Jun Wang, and William Yurcik, University of Illinois at Urbana-Champaign

SESSION 2B: Security in Health Informatics

Co-Chairs: Raj Sharman & Peter Winkelstein, University at Buffalo

Data Access Control and Measure in the Development of Web-Based Health Insurance Systems

Zhen Jiang, West Chester University

A Policy-Based Security Mechanism for Distributed Heath Networks

A. Onabajo, C. Obry and J.H. Jahnke, University of Victoria

Securing Clinical Knowledge: Balancing Accessibility, Security, and Privacy in Dental Education

Daniel W. Emmer and Ebrahim Randeree, State University of New York at Buffalo

Securing Pervasive Networks using Biometrics

V. Chavan, S. Chikkerrur, S. Tulyakov and V. Govindaraju, State University of New York at Buffalo

2:45 – 3:10   Coffee Break

3:10 – 4:15   Plenary Talks

Chair: TBD

Cyber-Identity, Authority and Trust in an Uncertain World

Ravi Sandhu, Department of Information and Software Engineering, George Mason University, Co-Founder of Securivacy (formerly, SingleSignOn.net)

Patterns of Knowledge Management in Secure Environments

Alan D. Marwick, Senior Manager, Knowledge Management, IBM T.J. Watson Research Center

4:15 – 5:45   Panel Discussion

Moderator – Sharmistha Bagchi-Sen, University at Buffalo

Women and Cyber Security – Gendered Tasks and Inequitable Outcomes

Panelists:

Margaret (Peg) Grayson

President and CEO, V-One Corporation and Member, National Infrastructure Advisory Council

Susan Patrick

Director of Education Technology, U.S. Department of Education

Bhavani Thuraisingham

Program Director, Cyber Trust and Data and Applications Security at the National Science Foundation

6:15 – 7:30   Social Hour and Poster Session

Posters

Chair: TBD

CDMS: Cyber Defense Management System

Dipankar Dasgupta, University of Memphis

Securing network traffic and intrusion detection data

Benjamin D. Uphoff and Johnny S.K. Wong, Los Alamos National Laboratory and Iowa State University

Creating Knowledge at the Cost of Privacy: A Case Study

Sharat S. Chikkerur, Viraj S. Chavan, and Venu Govindaraju, University at Buffalo

ACIDS: Advanced Collated Intrusion Detection System

Ronald C Dodge JR. and Shaun Baker, U.S. Military Academy, West Point, New York

Ensuring Secure Information Management in 802.11 Networks after a Central Authority Failure

Mohit Virendra and Shambhu Upadhyaya, University at Buffalo

7:30 – 9:00   Workshop Banquet

Welcome and Introduction of Banquet Speaker

John Thomas, Dean, School of Management, University at Buffalo

Banquet Speech: The Challenges of Secure Knowledge Management

Margaret (Peg) Grayson, President and CEO, V-One Corporation and Member, National Infrastructure Advisory Council

END OF DAY 1 PROGRAM

THE PROGRAM   DAY 2

Friday, September 24, 2004

7:30 – 8:30   Breakfast/Registration

8:30 – 9:15   Keynote Address

Collaborative Secure Knowledge Management

William K. McQuay, Technical Advisor, Collaborative Simulation Technology and Applications Branch, Information Systems Division, Information Directorate, AFRL, Wright Research Site

9:15 – 10:20   Plenary Talks

Chair: TBD

Economics, psychology, and sociology and the limitations they impose on secure knowledge management

Andrew Odlyzko, ADC Professor and Assistant VP for Research; Director, Digital Technology Center, University of Minnesota

Title: TBD

Peter P. Chen, M.J. Foster Distinguished Chair Professor of Computer Science, Louisiana State University

10:20 – 10:45   Coffee Break

10:45 – 12:00   <u>SESSION 3A:</u> Trusted Computing

Chair: Brajendra Panda, University of Arkansas (tentative)

A Control Flow Integrity based Trust Model

Akhilesh Tyagi, Iowa State University (Invited Talk)

Trust Management and Theory Revision

Ji Ma, University of South Australia

Using Entropy to Tradeoff Privacy and Trust

Yuhui Zhong and Bharat Bhargava, Purdue University

SESSION 3B: Secure Content Management

Chair: Kevin Kwiat, Airforce Research Laboratory

Title: TBD

Robert McGraw, National Security Agency (Invited Talk)

Using Facets of Security within a Knowledge-based Framework to Manage Semantic Web Services

Randy Howard and Larry Kerschberg, George Mason University

The Interrelationship between Security and KM

Karen Neville and Philip Powell, National University of Ireland – Cork, Ireland

12:00 – 1:45   Lunch

1:45 – 3:00   SESSION 4A: Security and Privacy

Chair: Chris Brown, CTG and Information Systems Security Association (tentative)

Statistical Privacy for Privacy-Preserving Data Mining

Johannes Gherke, Cornell University (Invited Talk)

On Privacy and Anonymity in Knowledge Externalization

Yuen-Yan Chan, The Chineese Institute of Hong Kong

Trust-Based Privacy Preservation for Peer-to-peer Media Streaming

Yi Lu, Weichao Wang, Dongyan Xu, and Bharat Bhargava, Purdue University

SESSION 4B: Security in Document Control Systems

Chair: Dipak Pravin, Xerox Corporation

Topic: TBD

Shriram Revankar, Xerox Research (Invited Talk)

Enhanced Access Control for Collaborative Documents

Jeffrey D. Campbell, University of Maryland, Baltimore Country

Securing Organizational Knowledge using Automated Annotation

Savitha Kadiyala, Kamesh Namudur and Venu Dasigi, Georgia State University, Wichita State University, Southern Polytechnic State University

3:00 – 3:30   Coffee Break

3:30 – 4:30   SESSION 5A: New Security Paradigms for Knowledge Management

Chair: TBD

Securing Information through Trust Management in Wireless

Networks

Mohit Virendra and Shambhu Upadhyaya, State University of New York at Buffalo

PBKM: A Secure Knowledge Management Framework

Shouhuai Xu and Weining Zhang, University of Texas at San Antonio

Securing Knowledge Queries Using Code Striping

Mark W. Bailey and Kevin Kwiat, Airforce Research Lab, Rome Research Site

Chair: Dipankar Dasgupta, University of Memphis (tentative)

A Multi-Disciplinary Approach for Countering Insider Threats

Robert DelZoppo, Eric Brown, Matt Downey, Elizabeth Liddy, Svetlana Symonenko, Joon Park, Shuyuan Ho, Michael D'Eredita and Anand Natarajan, Syracuse Research Corporation and Syracuse University

A Game-theoretic Approach to the Design of Self-Protection and Self-Healing Mechanisms in Autonomic Computing Systems

Birendra Mishra and T. S. Raghu, University of California, Riverside and Arizona State University

Information theoretic model for inference-resistant knowledge management in RBAC-based collaborative environment

Manish Gupta and Sivakumar Chennuru, M&T Bank Corporation Buffalo, New York

4:30 – 4:45   Wrap-Up