

**Regional Symposium “Graduate Education and Research in Information Security”  
GERIS’09, October 26-28, 2009, Binghamton, NY**

**ANNONCEMENT AND CALL FOR PARTICIPATION**

**1. Purpose and scope:**

Infrastructural and information security has become a national priority addressed by regional academic, industrial, and government institutions that often join their efforts in the areas of research and education. Among these institutions are Binghamton University, Syracuse University, Polytechnic University, Utica College, Hamilton College, Lockheed Martin, Assured Information Security, Griffiss Institute, Air Force Research Laboratory at Rome NY. Areas of research include but are not limited to Deception and Counter-Deception, Covert Channels and Steganalysis, Tamper Evidence and Multimedia Forensics, Detection/Mitigation of Attacks on Computer Networks, Watermarking and DRM Systems, and Biologically-Inspired Methods in Computer Security. In the area of education, regional universities offer extensive graduate-level programs focused on the information security that emphasize integration of research in curricula and provide high quality researchers and engineers to the regional and national job market. In addition to local expertise, university researchers have well established collaboration programs with their colleagues nation- and world-wide. Regional Symposium “Graduate Education and Research in Information Security (GERIS’09)” is intended to become a forum for researchers and educators working in this demanding field enabling them to promote the state-of-the art in research, present their findings, share plans and ideas, advance collaborative efforts, assess the requirements of the job market, enhance educational programs, better address the calls of the funding agencies. In addition, the participants will coordinate their efforts in attracting government funding for the NSF’s Integrative Graduate Education and Research Traineeship (IGERT) program and similar collaborative ventures.

The list of main topics of the Workshop comprises the problems:

- Intrusion detection models and systems,
- Adaptive and self-learning intrusion detection systems
- Software aspects of network security
- Computer immunology models,
- Biologically-inspired methods in computer/network security
- Hardware aspects of network security
- Denial of service protection
- Alert correlation and attack scenario analysis
- Authentication
- Information Survivability
- Steganography, hidden communication, watermarking
- Cryptography and cryptographic protocols
- Security engineering
- Deception and counter-deception
- Security in electronic commerce
- Case studies
- Graduate education in the security area
- Demands of the industrial security job market
- Creation of a pool of graduate courses in the security area
- Survey of the existing security curricula and state of the art

The Technical Program of GERIS’09 will include the following four sessions:

- Hardware Security - Session Organizer/Chairman: Prof. Douglas Summerville
- Steganography and Watermarking - Session Organizer/Chairman: Prof. Jessica Fridrich (Binghamton University)
- Computer/Network Security - Session Organizer/Chairman: Prof. Victor Skormin (Binghamton University)
- Graduate Education - Session Organizer/Chairman: Prof. Prof. Scott Craver (Binghamton University)

## 2. Publications:

We intend to publish abstracts of the GERIS'09 presentations. A 350-word abstract should contain title of the presentation, name, affiliations and e-mail address of the presenter. It should be submitted electronically in the Word format to [vskormin@binghamton.edu](mailto:vskormin@binghamton.edu)

## 3. Important dates (tentative):

Technical Program:

October 26 - 28, 2009

Registration:

October 7 - 28, 2009

Submission of abstracts:

September 21 – 30, 2003

Acceptance notification:

October 6, 2009

Hotel reservation request:

October 10, 2009

## 4. Preliminary program:

Day 1- October 26			
Opening Session			
Time	Event	Name(s)	Title/Topic of the presentation
1:00 – 1:10	Opening Statement	V. Skormin, CAIT	Opening Statement; GERIS Program
1:10 – 1:20	Opening Statement	M. A. Swain, Provost	Opening Statement
1:20 - 1:30	Opening Statement	R. Herklotz, AFOSR	Opening Statement
1:30 – 1:40	Opening Statement	Vince Socci, IEEE	Opening Statement
1:40 – 1:50	Opening Statement	G. Sonnenfeld, V-P for Research	Opening Statement
1:50 – 2:00	Opening Statement	H. Srihari, Dean	Opening Statement
2:00 –2:45	Plenary Talk	Scott Craver - confirmed	TBA

<b>Afternoon Session: Hardware Security</b>			
Time	Event	Name(s)	Title/Topic of the presentation
3:00 – 3:45	Plenary Talk	D. Summerville - confirmed	TBA
3:50 - 4:35	Presentation 1	Yu Chen - confirmed	TBA
4:40 – 5:25	Presentation 2	TBA	TBA
5:30 –6:15	Presentation 3	TBA	TBA
6:30 – 8:30 Dinner - Speaker Victor Skormin : My excursion into the depths of a feudal society and return home			
<b>Day 2 – October 27</b>			
8:00 – 8:30 Breakfast			
<b>Morning Session: Steganography and Watermarking</b>			
Time	Event	Name(s)	Title/Topic of the presentation
08:30 – 09:15	Plenary Talk	Jessica Fridrich - confirmed	TBA
09:20 – 10:05	Presentation 1	Nasir Memon - confirmed	TBA
10:10 - 10:55	Presentation 2	Gaurav Sharma - confirmed	TBA
11:00 – 11:45	Presentation 3	Steve Chopin - confirmed	TBA
11: 50 – 12:20	Tour	V. Skormin A. Tokhtabayev	Tour of the Network Testbed and Demonstrations
12:30 – 1:00 Lunch			
<b>Afternoon Session: Computer/Information Security</b>			
Time	Event	Name(s)	Title/Topic of the presentation
1:00 – 1:45	Plenary talk	V. Skormin - confirmed	TBA
1:50 - 2:35	Presentation 1	Dipankar Dasgupta - confirmed	Biologically-inspired methods in computer security
2:40 – 3:25	Presentation 2	M. Pechoucek, Czech Tech. U. - confirmed	Multi-agent system technology and applications
3:30 –4:15	Presentation 3	Shiu-Kai Chen Syracuse U.	TBA
4:20 –5:05	Presentation 4	A. Volynkin - confirmed	TBA
5:10 – 5:55	Presentation 5	TBA	
6:30 – 8:30 Dinner/Banquet – Speaker Ronald Miles			
<b>Day 3 – October 28</b>			
8:00 – 8:30 Breakfast			
<b>Morning Session: General</b>			
Time	Event	Name(s)	Title/Topic of the presentation
08:30 – 09:15	Invited Lecture	S. Zahorian - confirmed	TBA
09:20 – 10:05	Invited Lecture	T. Busch AFRL	TBA
10:10 - 10:55	Invited Lecture	E. Wu - confirmed	TBA

11:00 – 11:45	Invited Lecture	S. Czarnecki	TBA
11:50 – 12:25	Tour	V. Nikulin	Tour of the laser laboratory
12:30 – 1:00	Lunch		
<b>Afternoon Session: Graduate Education</b>			
Time	Event	Name(s)	Title/Topic of the presentation
1:00 – 1:45	Plenary Talk	S. Craver	TBA
1:50 – 2:20	Presentation 1	S. Betza Lockheed Martin	TBA
2:20 - 2:50	Presentation 2	D. Dasgupta, U of Memphis - confirmed	NSA Center of Excellence in Information Security Education
2:50 – 3:20	Presentation 3	TBA	TBA
3:20 – 3:50	Presentation 4	TBA	TBA
4:50 – 5:30	Closing	V. Skormin	

## 5. The principal invited speakers and distinguished guests

Name	Title	Organization	E-mail	Response
Robert Herklotz	Dr.	AFOSR	robert.herklotz@afosr.af.mil	
Timothy Busch	Dr.	AFRL at Rome NY	buscht@rl.af.mil	
John Graniero		AFRL at Rome NY	John.Graniero.ctr@rl.af.mil	
Stephen Mazur		AFRL at Rome NY	smazur1@binghamton.edu	
John Beyerle	Col.	J & J Air	john.beyerle@Yahoo.com	
Stephen Czarnecki	Dr.	Lockheed Martin	steve.czarnecki@lmco.com	
Steven Betza		Lockheed Martin	steven.betza@lmco.com	
Dipankar Dasgupta	Dr.	U of Memphis TN	dasgupta@memphis.edu	
Shiu-Kai Chin	Dr.	Syracuse University	skchin@syr.edu	
Michal Pechoucek	Dr.	Czech Tech. University	pechouc@labe.felk.cvut.cz	
Nasir Memon	Dr.	Polytechnic University		
William Wolf		Griffiss Institute		
Stuart Hirshfield	Dr.	Hamilton College		
Leonard Popyack	Dr.	Assured Information Security	popyack@ainfosec.com	
Garry Gordon	Dr.	Utica College		
Bruce McBride	Dr.	Utica College		
Deborah Frincke	Dr.	Pacific Northwest National Laboratory	deborah.frincke@pnl.gov	
Alexander Volynkin	Dr.	BitArmor Systems	alex@volynkin.com	

## 6. Location of the meeting

Binghamton University,  
Vestal Parkway  
Binghamton NY 13802

## 7. Sponsor, Organizer, and Organizing Committee Members

**Sponsors:**

Office of Provost, Binghamton University  
IEEE, Binghamton Chapter

**Organizers:**

ECE Department, Binghamton University  
Center for Advanced Information Technologies, Binghamton University

**Local contact person:**

Dorothy Weir  
Phone  
E-mail

**Local Organizing Committee**

Victor Skormin (Chairman) [vskormin@binghamton.edu]  
Vince Soggi [vsoggi@ontargettechnology.com]  
Jessica Fridrich [fridrich@binghamton.edu]  
Scott Craver [scraver@binghamton.edu]  
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