

3rd International Conference on I-Warfare and Security

Peter Kiewit Institute, University of Nebraska

Omaha, USA

24-25 April 2008

Wednesday 23 April 2008				
18:30 Welcome drink and pre-conference registration in the Lobby Bar of the Holiday Inn Hotel (Until 1930)				
The Conference is being held in the Scott Conference Centre at the University of Nebraska at Omaha				
Thursday 24 April				
09:00 Room: Foyer Registration and coffee				
10:00 Room: Center Room Opening Meeting: Welcome from the Executive Director of the Peter Kiewit Institute: Dr Winnie Callahan				
10:15 Keynote address: Persistence, Ambiance, and New Maps Brian Lopez, Lawrence Livermore Laboratories, Livermore, CA, USA				
11:10 Conference splits into streams				
	Room: Northwest Stream A: Critical Infrastructure and Technology Protection Chair - Bill Mahoney	Room: Southwest Stream B: Assessment Techniques Chair - Leigh Armistead	Room: Northeast Mini Track: Information Assurance Chair - Kevin Streff	Room: Southeast Mini Track: Biometrics Chair - Ken Revett
11:15	Outsourcing and the Insider Threat: An Increasing Security Risk Colwill Carl, BT Design Security Risk & Compliance, UK	Computer Assisted Security Assessment Through Fact Proposition Space Hospodka Peter, Qiuming Zhu, William Sousan and Ryan Nickell, University of Nebraska at Omaha, NE, USA	A Comparison of Popular Global Authentication Systems Guster Dennis, Charles Hall, Suthantha Herath, Brittany Jansen and Lukasz Mikluck, St. Cloud State University, St Cloud, MN, USA	Biometric Security Enhancements Through Template Aging matching Score Analysis Carls John, Richard Raines, Michael Grimaila, Air Force Institute of Technology, Wright-Patterson AFB, OH and Steven Rogers Air Force Research Laboratory, Wright-Patterson AFB, OH, USA
11:45	A Framework for Improving Consistency of the Protection of Critical Technologies Ashe Eric, Michael Grimaila, Air Force Institute of Technology and Brian Carter, Air Force Research Laboratory, Wright-Patterson AFB, OH, USA	Information Asset Value Quantification Hellesen Denzil, Michael Grimaila, Robert Mills, Air Force Institute of Technology and Larry Fortson, Air Force Research Laboratory, Wright-Patterson AFB, OH, USA	Interactive Visualization of Fused Intrusion Detection Data Avitia Serafin, Stuart Kurkowski and Luke van der Hoeven, Air Force Institute of Technology, Wright-Patterson AFB, OH, USA	Voice Based Authentication Using the Null Frequencies Tenreiro de Magalhães Sérgio, Universidade Católica Portuguesa, Carlos Guimarães, Henrique Santos, Universidade do Minho, Portugal, Kenneth Revett, University of Westminster, London and Hamid Jahankhani, University of East London, UK (IW-054)
12:15	A Survey of Critical Infrastructure Control System Effects Kolbe Michael and Paul Williams, Air Force Institute of Technology, Wright-Patterson AFB, OH, USA	An Architecture for Cyber Incident Mission Impact Assessment (CIMIA) Sorrels David, Michael Grimaila, Robert Mills, Air Force Institute of Technology and Larry Fortson Air Force Research Laboaratory, Wright-Patterson AFB, OH, USA	Using Markov Models to Crack Passwords van Heerden Renier and Johannes Vorster, CSIR, Pretoria, South Africa (IW-061)	
12:45	Lunch	Lunch	Lunch	Lunch

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14:00	Room: Center Room Keynote address: Are the System Security Watchmen Asleep? Dr. Roger Schell, Aesec Corporation, Palo Alto, CA, USA			
14:40	Conference splits into streams			
	Room: Northwest Stream A: Network Forensics Chair - Paul Williams	Room: Southwest Stream B: Technical Issues Chair - Jeff Boleng	Room: Northeast Mini Track: Information Assurance Chair - Kevin Streff	Room: Southeast Stream C: Technology and Security Chair - J. Todd McDonald
14:45	Common Errors in Incident Response Staggs Michael, FireEye, Inc. Menlo Park, CA, USA	Static and Dynamic Packet Filtering on Lightly Managed Systems Lupo James and Daniel Likarish , Regis University, Denver, CO, USA	The Impact of Vista and Federal Desktop Core Configuration on Incident Response Cotton Daniel, Stephen Nugen and William Mahoney , University of Nebraska at Omaha, NE, USA	Formal Models of a Least Privilege Separation Kernel in Alloy Phelps David, Mikhail Auguston and Timothy E. Levin , Naval Postgraduate School, Monterey, CA, USA
15:15	Understanding IRC Bot Behaviors in a Network-centric Attack Detection and Prevention Framework Ahn Gail-Joon, Napoleon Paxton , and Kevin Pearson , University of North Carolina at Charlotte, NC, USA	Towards Faster Execution of the OODA Loop using Dynamic Decision Support Thomas Shyni, Nitin Dhiman , Pankaj Tikkas and Ajay Sharma and Dipti Deodhare , Centre for Artificial Intelligence and Robotics (CAIR), Bangalore, India	An investigation of Negative Authentication Systems Dasgupta Dipankar, Rukhsana Azeem , The University of Memphis, TN, USA	Pattern Matching Information Flow using GADT Lindahi Eric and Victor Winter , University of Nebraska at Omaha, NE, USA
15:45	Refreshments			
	Room: Northwest Stream A: Frameworks Chair - Stephen Nugen	Room: Southwest Stream B: Information Warfare Chair - Denis Strouble	Room: Northeast Stream C: Computational and Open Source Intelligence Chair - Bill Mahoney	Room: Southeast Stream D: Securing communications Chair - Leigh Armistead
16:15	Software Agent Framework for Computer Network Operations in Information Warfare Dembskey Evan and Elmarie Bierman , Tshwane University of Technology, Pretoria, South Africa	Initial Supports to Regulate Information Warfare's Potentially Lethal Technologies and Techniques Hyacinthe Berg, Infosense Technologies and Research, Inc., Sunrise, FL and Larry Fleurantin , Larry R. Fleurantin & Associates, Miami Beach, FL, USA	Tailored Information Delivery Services for Open Source Intelligence Sousan William, Ryan Nickell , Qiuming Zhu and Pete Hospodka , University Nebraska at Omaha, NE, USA	Implementation of a Multilevel Wiki for Cross-Domain Collaboration Ong Kar Leong, Thuy Nguyen and Cynthia Irvine , Naval Postgraduate School, Monterey, CA, USA
16:45	Developing a Requirements Framework for Cybercraft Trust Evaluation McDonald J. Todd and Shannon Hunt , Air Force Institute of Technology, Wright-Patterson AFB, OH, USA	Religion, Ideology and Information Warfare Darnton Geoffrey, Bournemouth University, UK	Toward Detecting Novel Software Attacks by Using Constructs from Human Cognition Bryant Adam, Air Force Institute of Technology, Wright-Patterson AFB, OH, USA	Jam Resistant Communications without Shared Secrets Bahn William, Leemon Baird and Michael Collins , United States Air Force Academy, Colorado Springs, CO, USA
17:15	Those interested may elect to tour the Holland SuperComputer Center and the Kiewit Insititute The Holland Center is currently ranked 43rd fastest computer in the world; an upgrade scheduled for spring will put it in the top 25. The tour will be led by Dr. Winnie Callahan from PKI			
18:00	Close of conference day			
19:00	Buses leave the University for the Conference Dinner at the Ironwood Country Club			
22:00	Buses return to the Holiday Inn Hotel			

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Friday 25 April				
09:30	Room: Central Room Keynote address: Brigadier General Davis, United States Strategic Command			
10:30	<i>Refreshments</i>	<i>Refreshments</i>	<i>Refreshments</i>	<i>Refreshments</i>
	Room: Northwest Stream A: Humans and Security Chair - Renier van Heerden	Room: Southwest Stream B: Embedded Weapon Systems Chair - Daniel Likarish	Room: Northeast Stream C: Education and Training Chair - Geoffrey Darnton	Room: Southeast Mini Track: Improving IO Practices Chair - Doug Webster
11:00	Establishing the Human Firewall: Improving Resistance to Social Engineering Attacks Scheeres Jamison, Robert Mills and Michael Grimaila , Air Force Institute of Technology, Wright-Patterson AFB, OH, USA	Insider Threat Detection within Embedded Weapon Systems Haan Nicholas, Michael Grimaila , Air Force Institute of Technology and Raju Patel , Aeronautical Systems Center, Wright-Patterson AFB, OH, USA	Cyber Flag: A Realistic Training Environment for the Future Hansen Andrew, Paul Williams Robert Mills and Mark Kanko , Air Force Institute of Technology, Wright-Patterson Airforce Base, OH, USA	Legal Aspects of Warfare in Cyberspace Strouble Denis and Michael Grimaila , Air Force Institute of Technology, Wright-Patterson AFB, OH, USA
11:30	Characterizing Malware Writers and Computer Attackers in Their Own Words Holt Thomas, Joshua Soles and Lyudmila Leslie , The University of North Carolina at Charlotte, NC, USA	Using Attack and Protection Trees to Evaluate Risk in an Embedded Weapon System Cowan Robert, Michael Grimaila , Air Force Institute of Technology and Raju Patel , Aeronautical Systems Center, Wright-Patterson AFB, OH, USA	Use of Evaluation Criteria in Security Education Nguyen Thuy and Cynthia Irvine , Naval Postgraduate School, Monterey, CA, USA	Adapting Information Operations to a Changing World: Future Options for the United States Armistead Leigh, Edith Cowan University, Australia
12:00	Developing Cyber Warriors Boleng Jeff, Dino Schweitzer and David Gibson , United States Air Force Academy, Colorado Springs, CO, USA	Using Deception to Facilitate Intrusion Detection in Nuclear Power Plants Rushi Julian and Roy Campbell , University of Illinois at Urbana-Champaign, Urbana, IL, USA	Designing and Implementating a Critical Infrastructure Lab for Educational Research Wilkin Dorsey, Michael Kolbe , Richard Raines , Paul Williams and Kenneth Hopkinson , Air Force Institute of Technology, Wright-Patterson AFB, OH, USA	Cyber Warfare: Rethinking Strategy in the Information Age Fahrenkrug David, Eighth Air Force, Barksdale AFB, LA, USA
12:30	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>

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	Room: Northwest Stream A: Forensics and Anti-Forensics Chair - Michael Grimaila	Room: Southwest Stream B: Hardware and Networking Chair - Dasgupta Dipankar	Room: Northeast Stream C: Anonymous Networks Chair - David Fahrenkrug	Room: Southeast Stream D: US Strategies Chair - Leigh Armistead
13:30	Advanced Manipulation of Digital Evidence Using Memory Based Anti-forensic Tools Jahankhani Hamid, Eliden Beqiri , University of East London and Kenneth Revett , University of Westminster, London, UK	Analysis of Routing Worm Infection Rates on an IPv4 Network Gorsuch James, Barry Mullins , Rusty Baldwin and Richard Raines , Air Force Institute of Technology, Wright-Patterson AFB, OH, USA	A Framework for Classifying Anonymous Networks in Cyberspace Kelly Douglas, Richard Raines , Rusty Baldwin , Barry Mullins and Michael Grimaila , Air Force Institute of Technology, Wright-Patterson AFB, OH, USA	Organizing the US Government For the Contemporary Environment Mains Steven, US Combined Arms Center, Fort Leavenworth, KS, USA
14:00	Creating Hardware-based Primitives to Enhance Digital Forensics in a Novel Computing Architecture Tuting Alnath and Paul Williams , Air Force Institute of Technology, Wright-Patterson AFB, OH, USA	Sensor Collection and Analysis of Radio Frequencies (SCARF) Boleng Jeff, Thorsten Wirges , Dino Schweitzer , US Air Force Academy, Colorado Springs, CO, Seana Hagerman and Ramakrishna Thurimella , University of Denver, CO, USA	Analyzing Anonymity in Cyberspace Kelly Douglas, Richard Raines , Rusty Baldwin , Barry Mullins and Michael Grimaila , Air Force Institute of Technology, Wright-Patterson AFB, OH, USA	
14:30	Room: Central Room Summary of issues raised during the conference Led by John Reidelbach, University of Nebraska at Omaha			
15:00	<i>Close of conference</i>	<i>Close of Conference</i>	<i>Close of Conference</i>	<i>Close of Conference</i>