

# 4<sup>th</sup> IEEE International Information Assurance Workshop

Royal Holloway  
University of London, UK  
April 13-14, 2006

# Program



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The workshop is sponsored by the IEEE Computer Society Task Force on Information Assurance and the IEEE Technical Council on Software Engineering. For information on the IEEE TFIA and related activities please refer to <http://www.ieee-tfia.org>

The workshop is held in cooperation with the ACM Special Interest Group on Security, Audit, and Control. For information on the ACM SIGSAC please refer to <http://www.acm.org/sigsac>





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## Workshop Program

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April 13, 2005

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0830 — 0915 **Registration / Breakfast**

0915 — 0930 Welcome and Introduction

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### Session I: Intrusion Detection and Prevention I

**0930 — 1000** The LAIDS/LIDS Framework for Systematic IPS Design  
*Pak Ho Chung and Aloysius Mok (University of Texas at Austin, USA)*

**1000 — 1030** An Intelligent Detection and Response Strategy to False Positives  
and Network Attacks  
*Emmanuel Hooper (Royal Holloway, University of London, UK)*

**1030 — 1100** Active Event Correlation in Bro IDS to Detect Multi-Stage Attacks  
*Bin Chen (University of Central Florida, USA)*

**1100 — 1130 Break**

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### Session II: Evaluation and Criteria

**1130 — 1200** Designing a Secure Point-of-Sale System  
*Allan Pedersen, Anders Hedegaard, and Robin Sharp (Technical University  
of Denmark, Denmark)*

**1200 — 1230** High Robustness Requirements in a Common Criteria Protection  
Profile  
*Thuy D. Nguyen, Timothy E. Levin, and Cynthia Irvine (Naval Postgraduate  
School, USA)*

**1230 — 1400 Lunch**

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**1400 — 1500 Keynote Talk** – to be confirmed

**1500 — 1515 Q&A and Break**

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**Session III: Modeling and Engineering Software Security**

**1515 — 1545** Ensuring Compliance Between Policies, Requirements, and Software Design: A Case Study  
*Qingfeng He, Paul Otto, Annie I. Anton, and Laurie Jones (ABB Corporate Research, North Carolina State University, and Mills College, USA)*

**1545 — 1615** A Remote IT Security Evaluation Scheme: A Proactive Approach to Risk Management  
*Suleyman Kondakci (Izmir University of Economics, Turkey)*

**1615 — 1645 Break**

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**Session IV: Defending Communication Systems**

**1645 — 1715** Present and Future Challenges Concerning DoS Attacks Against PSAPs in VoIP Networks  
*Nils Aschenbruck, Matthias Frank, Peter Martini, Jens Toelle, Roland Legat, and Heinz-Dieter Richmann (University of Bonn, FGAN-FKIE, City of Cologne, Germany)*

**1715 — 1745** Jamming Commercial Satellite Communications During Wartime: An Empirical Study  
*Hank Rausch (CACI, USA)*

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**Dinner in Founders Gallery**

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April 14, 2005

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### **Session V: Intrusion Detection and Prevention II**

**0900 — 0930** An Application of Information Theory to Intrusion Detection  
*E. Earl Eiland and Lorie Liebrock (New Mexico Institute of Mining and Technology, USA)*

**0930 — 1000** HonIDS: Enhancing Honeypot System with Intrusion Detection Models  
*Yong Tang, HuaPing Hu, XiCheng Lu, and Jie Wang (National University of Defense Technology, China)*

**1000 — 1030** POSEIDON: A 2-Tier Anomaly-Based Network Intrusion Detection System  
*Damiano Bolzoni, Emmanuele Zambon, Sandro Etalle, Pieter Hartel (University of Twente, The Netherlands and Universita Ca Foscari die Venezia, Italy)*

**1030 — 1100 Break**

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### **Session VI: Modeling Security**

**1100 — 1130** Modeling and Execution of Complex Attack Scenarios Using Interval Timed Colored Petri Nets  
*Ole Martin Dahl and Stephen D. Wolthusen (Gjovik University College, Norway)*

**1130 — 1200** Factoring High Level Information Flow Specifications into Low Level Access Controls  
*Kevin Kahley, Manigandan Radhakrishnan, and Jon A. Solworth (University of Illinois at Chicago)*

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**1200— 1215** Closing Remarks  
*J. Cole*