

The First

International Cryptographic Module Conference

September 24-26, 2013
Gaithersburg, Maryland

Level 4 Sponsor





Welcomes you to the first

International Cryptographic Module Conference

Some of our service offerings:

FIPS 140-2

atsec offers these cryptographic module testing services:

- Consultation on FIPS 140-2 requirements
- Assessment of test readiness for cryptographic modules
- Support for the production of the Security Policy, Finite State Model and user documentation
- Conformance testing of cryptographic modules, resulting in a certificate issued by the National Institute of Standards and Technology (NIST) and Communications Security Establishment of Canada (CSEC) Cryptographic Module Validation Program (CMVP)

Cryptographic Algorithm Validation

SCAP Validation

NIST Personal Identity Verification Program Testing

Transportation Worker Identification Credential (TWIC) Reader Testing

Hardware Testing

Come and visit us at our booth (#9)!

Find out more on our website:

www.atsec.com

Welcome to the first ICMC!

I am very excited to welcome you to the first International Cryptographic Module Conference. I am also very happy with the response from the technical community to this conference – both in regards to the excellent papers we received and the general interest that this event garnered world-wide.

We have a full agenda for this conference and I would like to invite you to take a look at the presentations and workshops, as well as the opportunities to mingle and meet your peers.

This conference is put on by the technical community for the technical community and it is my hope that the ICMC will grow in the years to come. I would like to thank all contributors, speakers and the program committee for their hard work.

And please take note of the session, “The Next ICMC: Moving Forward, Wrap Up and Summary” on Thursday afternoon where we will discuss the future of the ICMC.

We hope to see you in 2014!

Fiona Pattison, Program Chair
atsec information security

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Prof. Chris Mitchell, Royal Holloway, University of London

Prof. Jean-Jacques Quisquater, UCL

Prof. Sean W. Smith, Dartmouth College

Randall Easter, NIST

About ICMC

ICMC was created by and for the information security industry to fill an important void in the market and establish a place for the community to come together this year. Under the leadership of a Program Committee of industry leaders, ICMC will bring together experts from around the world to confer on the topic of cryptographic modules with emphasis on their secure design, implementation, assurance, and use, referencing both new and established standards such as FIPS 140-2 and ISO/IEC 19790. The event was conceived and founded by atsec information security, a leading accreditation and testing laboratory, working closely with NIST. Operations are managed by Cnxted (“Connected”) Event Media Services, an event management company with extensive experience in the information security market.

Sponsoring Organizations

Event Sponsors & Exhibitors



Association & Media Sponsors



Conference Agenda



Pre-Conference Workshops

Tuesday, September 24

Workshop Sessions

Walker Ballroom

- 8:00 **Registration and Coffee**
- 8:30 **Introduction to FIPS 140-2** *Steve Weingart, Cryptographic & Security Testing Laboratory Manager, atsec information security*
- 10:30 **Coffee Break**
- 11:15 **Introduction to FIPS 140-2 (Cont'd)**
- 12:45 **Lunch**
- 14:00 **Physical Security for FIPS 140-2** *Steve Weingart, Cryptographic & Security Testing Laboratory Manager, atsec information security*
- 15:30 **Coffee Break**
- 16:15 **Physical Security for FIPS 140-2 (Cont'd)**
- 17:45 **Adjourn**

Conference Sessions

Wednesday, September 25

Plenary Keynote Presentations

Walker/Whetstone Ballroom

- 8:00 **Registration and Coffee**
- 9:00 **Welcome and Plenary Session:**
Charles H. Romine, Director, Information Technology Laboratory, NIST
Dr Bertrand du Castel, Schlumberger Fellow and Java Card Pioneer
- 9:45 **CAVP/CMVP Status—What's Next?** *Sharon Keller, NIST; Carolyn French, CSEC; Randall Easter, NIST*
- 10:30 **Break in Exhibit Hall**

Certification Programs Track

Walker Ballroom

- Moderator: *Fiona Pattinson, Director Strategy and Business Development, atsec information security*
- 11:15 **High Impact CMVP and FIPS 140-2 Implementation Guidance** *Kim Schaffer, Apostol Vassilev, Jim Fox, NIST*
- 12:00 **The Current Status of CMVP in Japan** *Junichi Kondo, Director JCMVP, at IPA* **The Current Status of CMVP in Korea** *Yongdae Kim, Researcher, ETRI* **Commercial Cryptography in Europe** *Helmut Kurth, Chief Scientist, atsec information security*
- 12:45 **Lunch**

Workshop Sessions

Whetstone Ballroom

- 8:00 **Registration and Coffee**
- 8:45 **Introduction to Side-Channel Analysis and Testing** *Gary Kenworthy, Gilbert Goodwill, Cryptography Research*
- 10:30 **Coffee Break**
- 11:15 **Introduction to Side-Channel Analysis and Testing (Cont'd)**
- 12:45 **Lunch**
- 14:00 **The Cryptographic Module and Beyond for Data Protection in a Mobile World** *Eugene Liderman, Sriram Krishnan, Good Technology*
- 15:30 **Coffee Break**
- 16:15 **The Cryptographic Module and Beyond for Data Protection in a Mobile World (Cont'd)**
- 17:45 **Adjourn**

Wednesday Lunch

Sponsored By



Technical Track

Whetstone Ballroom

- Moderators: *Dr. Claire Loiseaux, President, Trusted Labs; Dr. Yi Mao, Principal Consultant, atsec information security*
- 11:15 **Physical Security Protection Based on Non-deterministic Configuration of Integrated Microelectronic Security Features** *Silvio Dragone, IBM Research-Zurich*
- 12:00 **Non-Invasive Attack Testing: Feedback on Relevant Methods** *Sylvain Guilley, TELECOM-ParisTech; Robert Nguyen, Laurent Sauvage, Secure-IC*
- 12:45 **Lunch**

Certification Programs Track (Cont'd)

Walker Ballroom

- 14:00 **Panel: How Can the Validation Queue for the CMVP be Improved** Moderator: *Fiona Pattinson, Director of Strategy and Business Development, atsec information security* Panelists: *Michael Cooper, NIST; Steve Weymann, Infogard; James McLaughlin, Gemalto*
- 14:45 **Building a Certification Program: Techniques That (Might) Work** *Tammy Green, Security Architect and Vulnerability Response Director, Blue Coat Systems*
- 15:30 **Break in Exhibit Hall**
- 16:15 **Understanding the FIPS Government Crypto Regulations for 2014** *Edward Morris, Co-founder, Gossamer Security Solutions*
- 17:00 **FIPS and FUD** *Ray Potter, CEO, SafeLogic*
- 17:45 **Adjourn**

Conference Sessions

Thursday, September 26

Certification Programs Track

Walker Ballroom

- 8:00 **Registration and Coffee**
- 9:00 **A Study on the Certify Interoperability of Commercial Cryptographic Module Validation** *Neng Gao, Jiwu Jing, Limin Liu, Yuewu Wang, State Key Laboratory of Information Engineering, Chinese Academy of Science, Beijing, China*
- 9:45 **The Upcoming Transition to New Algorithms and Key Sizes** *Allen Roginsky, Kim Schaffer, NIST*
- 10:30 **Break**
- 11:15 **Approved vs. Non-Approved: Decoding the Language** *Yi Mao, atsec information security*
- 12:00 **Pattern Based FIPS 140-2 Cryptographic Module Validation** *Steve Weymann, Mark Minnoch, InfoGard Laboratories*
- 12:45 **Lunch**
- 14:00 **Securing the Supply Chain for COTS ICT Products** *Sally Long, Open Group Trusted Technology Forum*
- 14:45 **Implementation and Assessment on Cryptography for Payment Solutions** *Yan Liu, atsec information security*
- 15:30 **Break**
- 16:15 **The Next ICMC: Moving Forward. Wrap Up and Summary** Session Leader: *Fiona Pattinson, Director Strategy and Business Development, atsec information security*
- 17:00 **Adjourn**

Technical Track (Cont'd)

Whetstone Ballroom

- 14:00 **Test Vector Leakage Assessment (TVLA) Methodology in Practice** *Jeremy Cooper, Gilbert Goodwill, Joshua Jaffe, Gary Kenworthy, Pankaj Rohatgi, Cryptography Research*
- 14:45 **Electro Magnetic Fault Injection in Practice** *Rajesh Velegali, Jasper Van Woudenberg, Riscure*
- 15:30 **Coffee Break**
- 16:15 **Security Mechanisms, Services, Protocols and Architecture for Secure Mobile Applications**, *Sead Mufic, Professor in Computer Networks Security, SETECS*
- 17:00 **Session TBA**
- 17:45 **Adjourn**

NB: These speakers were unable to attend, but their paper will be published as part of the proceedings: **Double DPA Attacks that Can Eliminate Power Hiding Effectively**, *Shunxian Gao, Jianfeng Liu, Feiyu Wang, Zhe Wang, CEC Huada Electronic Design*

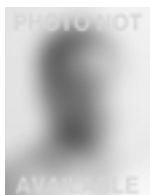
Technical Track

Whetstone Ballroom

- 8:00 **Registration and Coffee**
- 9:00 **Entropy: Order From Disorder** *Tim Hall, Apostol Vassilev, NIST*
- 9:45 **SP800-90 – Reviewing the Standard**, *Stephan Mueller, Principal Consultant and Evaluator atsec information security*
- 10:30 **Break**
- 11:15 **Software in Silicon: Crypto-Capable Processors** *Wajdi Feghali, Intel; Valerie Fenwick, Darren Moffat, Oracle Solaris Security; David Weaver, Oracle SPARC Hardware*
- 12:00 **Key Management Overview** *Allen Roginsky, Kim Schaffer, NIST*
- 12:45 **Lunch**
- 14:00 **Implementing SM2 Cryptographic Module on Graphics Processing Units** *Neng Gao, Jiwu Jing, Jingqiang Lin, Wuqing Pan, Yuewu Wang, State Key Laboratory of Information Security, Institute of Information Engineering, Chinese Academy of Sciences, Beijing, China*
- 14:45 **Panel: Everything You Always Wanted to Know About Labs (But Were Afraid to Ask....)** Moderator: *Fiona Pattinson, Director Strategy and Business Development, atsec information security*
- 15:30 **Break**

Papers and presentations are available for download at the conference web site.
www.icmc-2013.org Password: sep24#edge

Speaker Biographies



Michael Cooper, IT Specialist, NIST

Michael Cooper is an IT Specialist at the National Institute of Standards and Technology Computer Security Division.



Dr. Bertrand du Castel, Schlumberger Fellow and Java Card Pioneer

Dr. Bertrand du Castel is a French-American author and scientist who pioneered the Java Card, the most sold computer in the world, with over 7 billion units worldwide. A graduate of Ecole Polytechnique with a 1977 PhD from the University of Paris in Theoretical Computer Science, he was a Post-Doctoral Fellow at the IBM France Research Center before hiring with Schlumberger in France in 1978. He emigrated to the United States in 1983 where he has lived in Austin, Texas since becoming an American citizen in 1994. He became head of research for Axalto in 1996, and Chairman of the Technical Committee for the Java Card Forum in 1997. He was named a Schlumberger fellow in 2002 and in 2005 he was presented with the Visionary Award from Card Technology Magazine for his work on the Java Card. In 2005 Dr. du Castel joined with Timothy M. Jurgensen to write *Computer Theology: Intelligent Design of the World Wide Web*, which uses theological principles to study the role of religion in computer networks, and reciprocally studies religion in the light of well-established computer concepts such as trust.



Silvio Dragone, IBM Research Division, Zürich Research Center

Mr. Dragone received a MSc in Electrical Engineering from the Swiss Federal Institute of Technology (ETH) Zurich in 2002. Mr. Dragone joined the Communication Systems department in IBM Research, Switzerland in 2002 to work on network processors. Since 2007 he works on embedded security and cryptographic coprocessors.



Randall Easter, Director, CMVP, NIST

Mr. Easter assumed the role of Director of the NIST Cryptographic Module Validation Program (CMVP) in 2003. Mr. Easter graduated in 1978 from the Pennsylvania State University with a Bachelor's degree in Electrical Engineering. Prior to joining NIST, Mr. Easter worked for the IBM Corporation in Poughkeepsie, NY for 23-years as Senior Engineer for cryptographic hardware development. He is the author of CMVP and FIPS 140-2 documents and standards; four published ISO standards and three ISO draft standards; and was awarded twelve filed US patents.



Wajdi Feghali, Intel

Wajdi Feghali is an architect working in the Intel Data Center and Connected Systems Group. Wajdi works in the area of cryptography, compression, data integrity and data de-duplication. Wajdi is leading hardware and software solutions focusing on performance across all Intel products. Wajdi is responsible for the architecture and implementation of fixed function hardware accelerators as well as instruction set extensions for Intel Core and Intel Atom based processors.



Valerie Fenwick, Manager, Software Development, Oracle Solaris Security

Valerie Anne Fenwick is a Software Engineering Manager at Oracle Corporation with over a decade of experience in computer security. Valerie is currently managing the Solaris Cryptographic Technologies team, of which she was a designer and major contributor. She was the lead for the Solaris Change Request Team, responsible for making decisions as to what code changes are incorporated into the Operating System and Networking consolidation, and one of the sponsors for the Open Solaris project. She was a leader in redefining the software bugtracking strategy and processes used across Sun Systems today, and continuing that transition as we migrate to Oracle's tools. Previously Valerie was the technical lead for the release of Solaris 10 1/06 and was responsible for NAT implementation as well as other

network security features of the SunScreen firewall. She is a co-author of Solaris 10 Security Essentials book.

Jim Fox, Computer Scientist, NIST

Jim Fox is a computer scientist working for the National Institute of Standards and Technology (NIST) in the Cryptographic Module Validation Program (CMVP). Jim graduated with a B.Sc. in computer science and started his career straight out of college working at NIST. Jim has worked at NIST for 27 years and in the CMVP for the last 5 years. Jim also has 10 years UNIX system administration experience.

Carolyn French, Manager, CMVP, CSEC

Carolyn French is the manager of the Cryptographic Module Validation Program (CMVP) at the Communications Security Establishment Canada (CSEC), where she has worked as a Security Architecture Engineer since 2006. Prior to joining CSEC, Ms. French worked at Nortel Networks, where she held the position of Senior System Architect in the CTO office of Nortel's Network and Service Management product line. She graduated from the University of Waterloo with a Bachelor of Applied Science in Systems Design Engineering.

Neng Gao, State Key Laboratory of Information Security, Institute of Information Engineering, Chinese Academy of Sciences, Beijing, China

Gilbert Goodwill, Senior Principle Engineer, Cryptography Research

Gilbert Goodwill, Senior Principal Engineer, DPA Software and Training Lead at Cryptography Research, develops and maintains side-channel analysis platforms for research and CRI's customers. He has over 15 years' experience with embedded systems and has worked on security components of wireless systems at both hardware and software providers. He has trained extensively on embedded systems, wireless communications and security related issues.

Tammy Green, Security Architect & Vulnerability Response Director, Blue Coat

Tammy reviews products and features for security flaws. Designs and approves vulnerability fixes. Proposes and architects new security features. Leads the vulnerability response effort for Blue Coat Systems using a virtual team from throughout the company. Publishes vulnerability announcements for customers. Designs security processes for use within the company. Certification Technical lead achieve FIPS 140-2 and Common Criteria certifications for key products.

Sylvain Guilley, Scientific Advisor, Secure-IC

Sylvain Guilley is associate professor at TELECOM ParisTech. He has been conducting researches towards defining provably secure architectures for trusted computing for ten years. Many proofs of concept, in secure designs and in implementation of cryptography, have been transferred to the industry, in products (ASIC, FPGA) that have been evaluated at the highest levels. Sylvain authored more than 100 scientific publications and 10 patents. Sylvain graduated from Ecole Polytechnique (X97), TELECOM-ParisTech (ENST 2002), and got a MSc from ENS / Paris 6 University, a PhD from TELECOM-ParisTech (2007) and an HDR from Paris 7 University (2012).

Tim Hall, NIST

Dr. Hall holds a PhD in Electrical Engineering from University of Delaware. After working on modeling and simulation in private industry, he joined the National Institute of Standards and Technology (NIST) in 1999, working on internet telephony, wireless network modeling and program management for the Advanced Technology Program (ATP). In 2006 he joined NIST's computer security division, developing tests for cryptographic algorithms. His latest research topic is entropy sources for cryptographic applications.

Joshua Jaffe, Research Scientist, Cryptography Research

Josh Jaffe is a Cryptosystem Researcher and Engineer at Cryptography Research. His recent research has focused on physical and mathematical analysis of smart card security and related



intellectual property, including differential power analysis and related countermeasures. Josh is a founding employee of Cryptography Research, Inc. He earned a B.A. summa cum laude in Physics and Computer Science at Brandeis University.



Jiwu Jing, State Key Laboratory of Information Security, Institute of Information Engineering, Chinese Academy of Sciences, Beijing, China



Sharon Keller, Director, Cryptographic Algorithm Validation Program (CAVP), National Institute of Standards and Technology (NIST)

Ms. Keller has worked as a computer scientist for the U.S. Federal Government since October of 1983. She joined NIST's Computer Security Division in 1988. Ms. Keller is the Director of the NIST Cryptographic Algorithm Validation Program. She has designed and developed cryptographic algorithm validation systems for various cryptographic algorithms. Other duties include managing the Cryptographic Algorithm Validation System tool, validating cryptographic algorithm implementations, and writing cryptographic algorithm validation guidance.



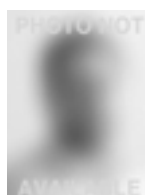
Gary Kenworthy, Senior Principle Engineer – Digital Signal Processing, Cryptography Research

Gary Kenworthy is a Senior Principal Engineer at Cryptography Research. Kenworthy investigates EM and RF vulnerabilities on cryptographic systems, and develops software and systems to support that research. His experience covers many aspects of signal processing, communication, cryptanalysis, adaptive filters, and location finding. Prior to joining Cryptography Research, he served as Chief Technical Officer of Signami, LLC, which provided signal analysis software and hardware, collection systems, and consulting to the Department of Defense. He holds B.S. and M.S. degrees in Electrical Engineering from Brigham Young University.



Yongdae Kim, Ensec

Yongdae, Kim is a researcher in the attached institute of ETRI (Electronics and Telecommunications Research Institute), Korea. In the past, he had conducted a collaborative research (SASEBO Project) with AIST (National Institute of Advanced Industrial Science and Technology) while at Tohoku university. Recently, he developed POTASA (Platform Of Testing and Analysis of Side-channel Attacks) for smart card. His research interests include secure design of cryptographic hardware and software, side-channel attacks and countermeasures, cryptographic module validation program.



Junichi Kondo, Director JCMVP, IPA



Sriram Krishnan, Senior Director, Product Management and Ecosystem, Good Technology

Sriram Krishnan is a Senior Director, Product Management and Ecosystem at Good Technology. With more than a decade of experience in the mobile industry, he has introduced multiple wireless software products and services in the marketplace. Mr. Krishnan is currently responsible for incubating and productizing emerging mobile security technologies, having recently launched Good Trust™, an industry first in mobile identity and access management (IAM). Recently he spoke at the Gartner IAM and Winter Biometrics conferences.



Helmut Kurth, atsec information security

Helmut Kurth has been working in the area of information security for more than 25 years. His professional experience includes the development of the German IT Security Evaluation Criteria in 1989, participation in the development of the European criteria (ITSEC/ITSEM), and contributions to the development of the US Federal Criteria and the Common Criteria. Helmut Kurth has been involved in security evaluations of IT products since 1988 and has evaluation experience ranging from smart cards to mainframe operating systems. He is working as the chief scientist and Common Criteria lab director of atsec

information security in Austin, Texas, USA.



Eugene Liderman, Director of Public Sector, Good Technology

Eugene Liderman has over 14 years experience in the Information Technology field, specifically in Networking, Directory Services, Email, Mobility, and Information Security. Currently Mr. Liderman is the Director of Public Sector Technology where his primary responsibility is to assist customers in navigating the unique mobile security challenges that exist within Federal Civilian and DoD organizations. Mr. Liderman has spoken at numerous public forums. He belongs to AFCEA, ACT/IAC, and the CTIA Cyber Security Working Group.



Jingqiang Lin, State Key Laboratory of Information Security, Institute of Information Engineering, Chinese Academy of Sciences, Beijing, China



Limin Liu, State Key Laboratory of Information Security, Institute of Information Engineering, Chinese Academy of Sciences, Beijing, China



Yan Liu, Managing Director and Principal Consultant, Atsec Information Security Corporation China

Yan Liu, a Managing Director and Principal Consultant of atsec China, has worked in IT security for more than 15 years. His areas of interest include cryptographic algorithms, protocols and systems, privacy enhancing technology, DRM technologies, as well as information security standards including Common Criteria, FIPS 140, PCI etc. He has practical experiences in design, implementation and evaluation of security systems and in how to choose effective techniques and standards to address security issues.



Claire Loiseaux, President, Trusted Labs



Sally Long, Director, Open Group Trusted Technology Forum

Sally Long has managed collaborative customer-supplier forums for over twenty years. She is currently The Open Group Trusted Technology Forum Director. The forum recently published the Open Trusted Technology Provider Standard - Mitigating Tainted and Counterfeit Products (O-TTPS) and they are piloting an O-TTPS Accreditation Program, with a planned public launch for December 2013. Ms. Long has a Bachelor of Science degree in Electrical Engineering from Northeastern University in Boston, Massachusetts.



Yi Mao, Principal Consultant, atsec Information Security Corporation

Yi Mao, CISSP, holds a Ph.D. in Mathematical Logic (2003) and a Master's degree in Computer Science (2000) from the University of Texas at Austin. As Deputy Lab Director at atsec information security corporation, Dr. Mao both oversees and performs a lead role in the security evaluation and testing of IT products against standards such as FIPS 140-2 and Common Criteria. She frequently gives presentations on information security topics at national and international conferences.



James McLaughlin, Product Manager, Gemalto

James McLaughlin is a member of the corporate Identity and Access group at Gemalto. In his role as Product Manager, James manages several products and initiatives. These include the IDPrime PIV Protiva Personal Identification Verification (PIV) solution providing strong authentication solution based on the FIPS 201 specification for government and enterprises; IDAdmin service delivering a turnkey hosted provisioning and support service to manage IDPrime .NET devices; and Microsoft partner relationship, finding areas of synergies for the benefit of both and their mutual customers. With over 24 years of experience, James has been instrumental in strategic developments at Gemalto that bring effective smart card and PKI-based solutions to the customer.



**Mark Minnoch, Account Manager,
CISSP, CISA, Infogard**

Mark Minnoch is the Cryptographic and Security Testing Laboratory Director and FIPS 140-2 Program Manager for InfoGard. He has over 25 years of experience in high tech industries including programming, commercial systems, networking management, and information security. He has extensive program management experience and has served as the primary liaison to customers and NIST regulators. He has led InfoGard to achieve the most FIPS 140-2 certificates the last three years.



**Darren Moffat, Senior Principal
Software Engineer, Oracle Solaris
Security**

Darren is a Senior Principal Engineer in the Solaris Core Technologies group. He is one of the architects for Solaris Security, and has a focus on authentication, cryptography and application containment. He was also the architect and lead developer for the encryption functionality in ZFS. He joined Oracle as part of the Sun acquisition, where he had been in the Solaris development organisation for 12 years. Prior to that Darren worked in SunService supported Trusted Solaris and other Solaris security functionality. Prior to Sun Darren worked for the UK Ministry of Defence and is a graduate of the Computing Science department at the University of Glasgow (Scotland).



**Edward Morris, Co-Founder,
Gossamer Security Solutions**

Prior to co-founding Gossamer Security Solutions, Ed Morris co-founded Atlan Laboratories in 2000, building its FIPS 140-2 laboratory into one of the largest. After SAIC acquired Atlan in 2009, Ed stayed on as a Lab Director, eventually assuming management of both SAIC's Common Criteria and FIPS 140-2 Laboratories before leaving in 2012. At Gossamer, Ed leverages his fifteen years experience in cryptography, FIPS, and CC for Gossamer's CC and FIPS customers.



**Stephan Mueller, Principal Consultant
and Evaluator, atsec information
security corporation**

Stephan Mueller holds a Master's degree in Business Administration (1999) from the Technical University Dresden, Germany. Stephan Mueller currently

works as a principal consultant and evaluator with atsec information security GmbH, Germany. His main responsibilities include evaluation of security aspects of IT products based on industry standards including FIPS 140-2 and Common Criteria. Consultancy services are provided for architecting secure products, especially in the Open Source and Linux realm as well as operating systems in general.



**Sead Muftic, Professor in Computer
Networks Security, SETECS**

Sead Muftic is a Professor in Computer Networks Security at SETECS. He has a MS and a Ph.D degree in Computer Science from The Ohio State University. His research interests include security for cloud computing environments, security for mobile applications and trusted computing infrastructures.



**Robert Nguyen, Senior Evaluator,
Secure-IC**



**Wuqing Pan, State Key Laboratory of
Information Security, Institute of
Information Engineering, Chinese
Academy of Sciences, Beijing, China**



**Fiona Pattinson, Director Strategy and
Business Development, atsec
information security**

Fiona Pattinson joined atsec information security corporation in 2004 as quality manager. She also manages the Cryptographic Module Testing Laboratory, the successful accreditation of atsec's Cryptographic Module Testing Laboratory. She contributes in atsec's Common Criteria laboratory as a project manager and evaluator for the US scheme. Fiona earned her Master of Science in computing for commerce and industry from the UK's Open University.



**Ray Potter, CEO and Co-Founder,
SafeLogic**

Ray Potter is the CEO and co-founder of SafeLogic. Previously, Ray founded Apex Assurance Group, led the Security Assurance program at Cisco Systems, and co-authored FIPS 140 Demystified:

An Introductory Guide for Vendors. Based in Palo Alto, Ray has spoken internationally on topics related to risk management, information assurance, and compliance.



Allen Roginsky, Mathematician, NIST

Allen Roginsky works as a Mathematician at the National Institute of Standards and Technology. His present research interest is Cryptography and its applications. Prior to switching to Cryptography, he spent a number of years with IBM Corporation analyzing and improving computer networks' performance. Allen received his Ph.D. in Statistics from the University of North Carolina at Chapel Hill in 1989. He has more than 30 publications and over a dozen US patents.



Pankaj Rohatgi, Director of Engineering, Cryptography Research

Dr. Rohatgi is an Engineering Director at Cryptography Research where he leads technical efforts in the area of side-channel analysis and countermeasures. He has over 20 years of experience working in the security industry, including 14 years at IBM Research. Apart from contributing to the security of products, Dr. Rohatgi is also active in the security research community. He has published over 40 technical papers, holds numerous patents, and has received several awards for his work in the areas of security and side-channel analysis. He was the Program co-Chair of the CHES 2008, serves as an associate editor for the JCEN journal, and will serve as the Program co-Chair of the CARDIS 2013 conference.



Charles H. Romine, Director of the Information Technology Laboratory (ITL), NIST

Charles Romine is Director of the Information Technology Laboratory (ITL). ITL is one of six research Laboratories within the National Institute of Standards and Technology (NIST) with an annual budget of \$120 million, more than 350 employees, and about 160 guest researchers from industry, universities, and foreign laboratories. Romine oversees a research program designed to promote U.S. innovation and industrial competitiveness by developing and disseminating standards, measurements, and testing for interoperability, security, usability, and reliability of information

systems, including cybersecurity standards and guidelines for Federal agencies and U.S. industry, supporting these and measurement science at NIST through fundamental and applied research in computer science, mathematics, and statistics. Through its efforts, ITL supports NIST's mission to promote U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology in ways that enhance economic security and improve our quality of life.

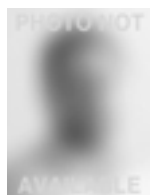


Laurent Sauvage, Co-founder and Scientific Advisor, Secure-IC



Kim Schaffer, CMVP, NIST

Kim Schaffer is an information technology specialist in the Cryptographic Module Validation Program under the Computer Security Division at NIST. Previously, Dr. Schaffer was the Laboratory Director of CEAL at CygnaCom Solutions, a subsidiary of Entrust. Dr. Schaffer has worked for over 30 years in information assurance, communication and computer security, and digital forensics. Kim became a Certified Information Systems Security Professional in 2002, and recently received a Doctor of Science in Information Assurance.



Hongsong Shi, China Information Technology Security Evaluation Center

Hongsong Shi received the Ph.D. degree in computer science from the University of Electronic Science and Technology of China (UESTC), Chengdu, China, in 2010. He was a visiting student in the Department of Computer Science at the University of Calgary, Calgary, CA, between 2007 and 2009. He is currently a research fellow in China Information Technology Security Evaluation Center (CNITSEC). His research interests include cryptography, network security, and theoretical computer science. He has published several papers on pseudorandom generators, secure message transmission protocols and network security applications, including IEEE Transactions on Information Theory, Journal of Designs, codes and

cryptography, and ACM AsiaCCS, etc. He was a speaker of the ICCS 2011.



Jasper Van Woudenberg, CTO North America, Riscure

Jasper is Principal Security Analyst and Manager for Riscure North America. At Riscure, Jasper's expertise has grown to include various aspects of hardware security; from design review and logical testing, to side channel analysis and perturbation attacks. He leads Riscure North America's pentesting teams and has a special interest in combining AI with security research.



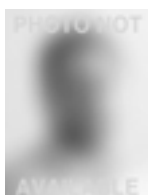
Apostol Vassilev, Cybersecurity Expert, Computer Security Division, NIST and Staff Member, CMVP

Apostol Vassilev is a cybersecurity expert in the Computer Security Division of NIST and a staff member of the Cryptographic Module Validation Program. He works on module validations and the development of FIPS 140-2 implementation guidance. Dr. Vassilev also conducts research on cybersecurity standards and cryptography. He is an author and inventor with numerous publications and granted patents. Mr. Vassilev holds a Ph.D. in Mathematics from Texas A&M University.



Rajesh Velegati, Research Intern, Riscure

Rajesh is currently a Research Intern at Riscure North America. He is working toward his Ph.D. in Computer Engineering at George Mason University. He received his M.Sc. degree in Computer Engineering from George Mason University in 2009 and B.E in Electrical Engineering from Andhra University in 2006. His Ph.D. research focuses on Side Channel Analysis and Countermeasures against SCA. His research interests include cryptography, hardware/software applications of cryptography, nanotechnology and computer forensics.



Yuewu Wang, State Key Laboratory of Information Security, Institute of Information Engineering, Chinese Academy of Sciences, Beijing, China



David Weaver, Senior Principal Engineer, Oracle SPARC Hardware

David Weaver has been involved with SPARC for 25+ years. He currently oversees the consistency and evolution of Oracle's SPARC instruction set architecture (ISA). He has edited or authored 6 ISA specifications and an IEEE Standard. He holds one computer architecture patent and has three additional patents pending. He holds a BS in Computer Engineering, an MS in Computer Science, and an MBA.



Steve Weingart, Cryptographic and Security Testing Laboratory Manager, atsec Information Security Corporation

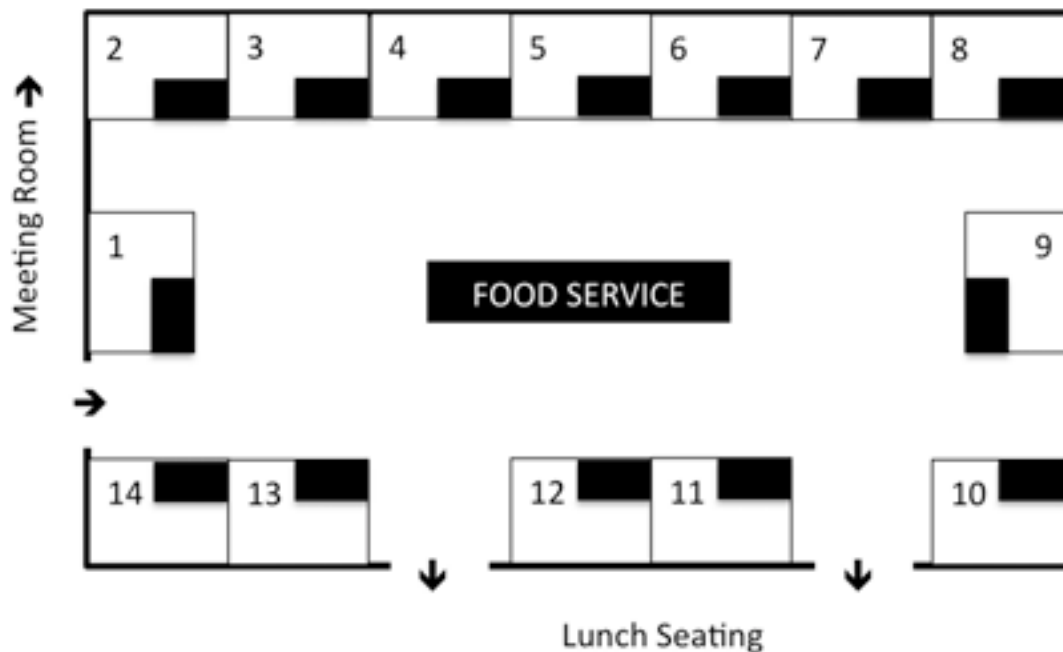
Steve Weingart is a Principal Consultant and the Cryptographic and Security Testing Laboratory Manager for atsec information security. Steve began as an electrical engineer with a BSEE from the University of Miami in 1978. He has been working in security and cryptography since the early 1980's. While at IBM's Thomas J. Watson Research Center he joined the NIST working group that wrote the FIPS 140-1 standard and went on to be lead hardware engineer on the first FIPS 140-1 level 4 validated product, the IBM 4758 cryptographic co-processor.



Steve Weymann, Senior Security Engineer, Infogard

Steve is a Senior Security Engineer with extensive experience in information technology security standards and implementation. Steve's eight plus years with InfoGard include FIPS 140-2 cryptographic module validation, FIPS 201 identity component qualification, security risk assessment and support for InfoGard's Business Development establishment of new testing and evaluation services. Steve has a Bachelors in Electrical and Computer Engineering from the University of Arizona and maintains his CISSP certification. His career background includes hardware, software and systems development and management, with expertise in healthcare systems, sonar and defense communications.

Exhibit Floor Plan



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Booth 12



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Booth 1



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Booth 6



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Booth 13



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Booth 11



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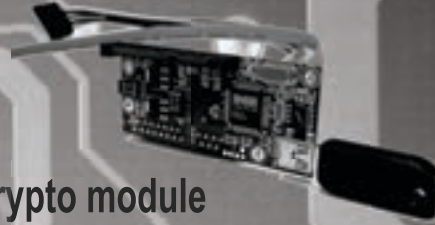
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