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## Michael Coady provides a sneak peek of his upcoming keynote presentation on Security

Oct 16, 2005 - In an exclusive interview with CIPS Connections, Michael Coady provides a sneak preview of his upcoming keynote presentation at the e-Financial WorldExpo. Michael Coady is a Vice President with Computer Associates Int. Security Practice with 17 years of Privacy and Technology experience. During the past 12 years he has worked with two Big Five Firms and led Forensics and Security investigations both in the public and private sector

Mr. Coady will discuss a number of emerging threats and issues facing enterprises, governments, and financial institutions and how the risks can be mitigated. Threats are coming in many forms today both electronic and physical: Spyware, Phishing, and the newest trend, Botnets. This is a term for a collection of [software](#) robots, or [bots](#), which run autonomously. A botnet's originator can control the group remotely, usually through a means such as an [IRC](#), and usually for nefarious purposes.

To access the full text of Mr. Coady's interview please click the following link:

<http://www.stephenibaraki.com/cips/v95/mcoady.html>

Author: Stephen Ibaraki, ISP, CNP, DFNPA : CIPS Board profile:

<http://www.cips.ca/media/biography/directorStephen.asp>

### About 2005 e-Financial WorldExpo:

The 2005 e-Financial WorldExpo, organized by *WowGao*, is the most anticipated international exposition and conference that covers all aspects of information technologies and enterprise solutions employed by the world's financial service sectors, including banking institutions, insurance providers, investment and brokerage houses, securities and mortgage providers. Focusing on new financial applications, the conference and exposition together will explore many hot topics, including Online Banking Applications, Electronic Bill Presentment / Payment (EBPP), Security, e-Commerce / e-Business, Outsourcing, Risk Management & Analytics, Customer Relationship Management and many others. Participants at this expo, being either speakers, partners, exhibitors or attendees, include major players from the international financial world: CFOs, CEOs, Banking Executives, government financial policy advisors, and system distributors. They are attending to learn, share, purchase, and discuss all aspects of the e-financial and financial worlds. Event details can be found at <http://e-financial.wowgao.com>.

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- [Search](#)

- News Releases

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## CIPS Connections

# Michael Coady: World Renowned Security Expert and Vice President with Computer Associates Int. Security Practice

Interview by Stephen Ibaraki, I.S.P.

This week, Stephen Ibaraki, I.S.P., has an exclusive interview with Michael Coady, a world-renowned security expert.



Michael Coady is a Vice President with Computer Associates Int. Security Practice with 17 years of Privacy and Technology experience. During the past 12 years he has worked with two Big Five Firms and led Forensics and Security investigations both in the public and private sector. Michael has worked with Computer Task Forces around the world and has developed an enterprise security methodology to help mitigate risks to companies.

Mr. Coady has worked with many U.S. and European based clients implementing the European Privacy Directive in the early 1990's. He is a renowned International Speaker for Privacy and Security, and widely acknowledged US expert as it relates to HIPAA, GLBA, EUPD and PIPEDA compliance. Due to his notable expertise, Michael is a keynote speaker at a variety of industry conferences and events including at the 2005 e-Financial WorldExpo, October 27-28 in Toronto.

Michael has managed over 60+ Health Insurance Portability and Accountability Act (HIPAA), EU Privacy Directive (EUPD) and Gramm-Leach-Bliley Act (GLBA) engagements in the US for clients in the public and private sector.

Discussion:

Q: Considering your very heavy schedule, thank you for taking the time to share your unique and valued expertise with our audience.

A: You're welcome, thank you for having me.

Q: What were three of the most significant events in your career that led to your current position and international profile as an elite expert in the field? What lessons can you pass onto those who are building their careers?

A: I was very fortunate to be given an opportunity when I was hired by KPMG 12 years ago as a manager. During my tenure at KPMG I had a great partner, (Art Serafine). who taught me some basic lessons about the consulting industry that continue with my approach to my professional career today:

1. Clients have to trust you.
2. Clients have to like you.
3. If they want to know how technically brilliant you are they will ask, never present your credentials to them.

So going forward a couple of years, KPMG started developing an Enterprise approach to solving security problems for their clients, and again I was involved in driving this methodology out to the field. I gained great experience and insight into the business components that drive companies to spend the money they do on security. So within a short four year period working with some very large clients, I became very experienced in deploying security architecture that involved people, process and technology in that order.

During my next stint I was at Deloitte & Touché and again I had fantastic counsel from a very strong partnership that existed during my tenure there. During that timeframe HIPAA and GLBA all came to fruition. I spent many hours learning these laws so I could assist companies in implementing policy that mapped the laws to that same security architecture mentioned above. By doing all this in a 12 year period, I set the stage for my career and my approach to the clients I still work with around the world today. The main thing I would pass onto others would be not to forget that companies must run their business first and that security is the piece that safeguards that business. People often throw out compliance as a compelling event to do something, and in many cases that's true. However, I have also seen many companies pass their compliance initiatives manually, so they don't spend the money to protect themselves with technology when they can achieve the same with human intervention. What people should be saying is how much time and effort does it take to produce an audit report manually, and how can you achieve compliance with the use of technology so you can deploy your resources more efficiently.

Q: What are the current threats facing enterprises, governments, and financial institutions and how can the risks be mitigated?

A: Threats are coming in many forms today both electronic and physical: Spyware, Phishing, and the newest trend, Botnets. This is a term for a collection of **software** robots, or **bots**, which run autonomously. A botnet's originator can control the group remotely, usually through a means such as an **IRC**, and usually for nefarious purposes.

A botnet can comprise a collection of **cracked** machines running programs, (usually referred to as **worms**, **Trojan horses**, or backdoors), under a common **command and control** infrastructure. Individual programs manifest as IRC "bots". Often the command and control takes place via an **IRC server** or a specific channel on a public IRC network. A bot typically runs hidden, and complies with the **RFC 1459** standard. Generally, the perpetrator of the botnet has compromised a series of systems using various tools (exploits, buffer overflows, as well as others; see also **RPC**). Newer bots can automatically scan their environment and propagate themselves using vulnerabilities and weak passwords. Generally, the more vulnerabilities a bot can scan and propagate through, the more valuable it becomes to a botnet owner community.

A Botnet can also be a group of IRC Eggdrops.

Botnets have become a significant part of the **Internet**, albeit increasingly hidden. Due to most conventional IRC networks taking measures and blocking access to previously-hosted botnets, owners must now find their own servers. Oftentimes, a botnet will include a variety of connections, ranging from dial-up, **DSL**, cable, educational, and corporate. Sometimes, an owner will hide an IRC server installation on an educational or corporate site, where high-speed connections can support a large number of other bots. Exploitation of this

method of using a bot to host other bots has proliferated only recently, as most **script kiddies** do not have the knowledge to take advantage of it.

Q: Can you provide three case studies that illustrate the process of designing a secure organization, Identity & Access Management?

### **Case #1**

Major Bank and Financial Services Company

Need

- Address audit issues related to segregation of duties amongst UNIX system administrators
- Streamline user administration to eliminate bottlenecks
- Implement workflow with access approval points
- Eliminate expired and dormant accounts from UNIX servers
- Employee longevity yielded excessive access
- Access cloning was the predominant access granting approach
- No central repository of the information assets

Solution

- CA eTrust Admin and Audit implementation
- Account clean up during the implementation (eliminated hundreds of duplicate and invalid accounts)
- Centralized auditing capabilities
- Developed approximately 3500 roles for over 60,000 users in 20 business unites
- Developed a comprehensive enterprise-wide application information repository

Benefits

- Centralized user management solution
- Automated workflow providing for accountability over access privileges
- Role based access solution eliminating segregation of duties issues

### **Case #2**

## International Technology Company

### Need

- Consolidate view of customers across business units and geographies
- System designed to support tens of millions of users
- Create a seamless web experience for customers
- Support international users on six continents

### Solution

- LDAP-based consolidated user directory
- Multi-language single sign-on system based on CA eTrust SiteMinder
- Customer-driven registration/enrollment process
- Capability to synchronize data between central directory existing applications (web-based and conventional)
- Security surrounding the entire system

### Benefits

- Improved customer experience
- More accurate and up-to-date customer information
- Better ability to target and cross-sell to customers
- Full integration of customer-facing websites across multiple regions

Q: Profile a good Identity Management Architecture.

A: To be successful with deploying an Identity Management Architecture, fundamentals need to exist. My opinion is that a strong directory such as a Virtual or Meta directory needs to be in place for the Identities to be managed more efficiently. From there the provisioning process is next by aggregating, correlating and then eliminating many identities so your environment gets to a place where using a Global Identity for the access required is in place for the next phase. Single Sign-On or Reduced Sign-On is generally the next phase, so appeasing the user community becomes a big selling point internally. This makes lives easier and passwords are not stored in obvious places causing a weakness in the environment. From there, the last phase involves Access Control technologies being deployed to lock down production environments, and limiting access to data with auditable events also being managed in the environment.

1. Directory infrastructure
2. Provisioning (Centralizing Administration)
3. SSO/RSO (Authentication)
4. Access Control
5. Auditing (Event Management and Reporting)

Q: What do you see as the biggest crisis in security for 2006 and 2007 and how should enterprises prepare?

A: A continued rise in the "Spyware Wars" which in itself leads to theft of intellectual property. Centralizing event management will be critical to control this and also a movement to stronger use of forensic tools to be prepared for legal battles that may ensue.

Q: You have spoken at many forums and events. Which ones would you recommend our audience to attend, and for what reasons?

A: For a reality check into what the external world of where new threats are coming from, the DEFCON conference in Las Vegas is very informative. Also many of the SANS conferences give you a great look into new education forums, or learning fundamentals all the way to becoming an expert.

Q: You have a number of certifications:

- Microsoft Certified Systems Engineer (MCSE)
- Certified Novell Engineer (CNE)
- Certified Information Systems Security Professional (CISSP)
- Certified Information Systems Auditor (CISA)
- Certified Fraud Examiner (CFE)
- Certified Technology Forensics Investigator (CTFI)

Can you comment on these and make recommendations about the certification marketplace for the future?

SANS certifications and the CISSP certification would be the right place to start for anyone getting started, or for persons who may be looking to jump into the security space.

I have always valued IP Architecture classes which give people good fundamentals on how information flows throughout the environment.

Q: Michael, thank you for sharing your considerable wisdom and experiences with our audience. We are indeed fortunate to have an expert of your elite standing speak with us.

A: It has been my pleasure again; thank you for asking me to participate.

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## Director-At-Large, Stephen Ibaraki, I.S.P.



Stephen Ibaraki I.S.P. is a 35+ year veteran of IT and serves the Canadian Information Processing Society (CIPS) as Director-at-large.

Stephen has been interviewed widely in the business and IT press as a CIPS media-contact expert in more than 50 areas of business and technology where he believes strongly in having CIPS represented as the leading voice for IT in Canada and as a widely regarded professional association internationally. He has contributed approximately 300 book reviews, articles, papers, web-casts, and interviews with leading international experts in business and technology since the mid-90s which appear on the CIPS national web-site and *CIPS Connections* newsletter. In addition, Stephen has been an international evangelist of the

Information Systems Professional of Canada (I.S.P.) designation – you can also find his support for the legislated professional designation on the back of the CIPS membership card.

As Director-at-large, Stephen adds to his contributions to CIPS by serving on the Editorial Board of *CIPS Across Canada* (CaC) magazine, and the Advocacy Committee. He is also supporting IT professionalism and accreditation programs.

In 2001, Stephen was the recipient of the CIPS Gary Hadford Award which includes a concurrent induction into the CIPS Hall of Fame. This award was given in recognition of Stephen's writings, his skill and experience to the IT industry as a researcher, consultant, and advisor to the media, and his "*outstanding achievements in fields related to information processing and high degree of competence in his field*".

[With a nearly 50-year history, CIPS is a founding member and a board member of the 60+ country International Federation of Information Processing; holds two board seats with the international ICCP; an affiliate membership with the South East Asia Regional Computer Federation; holds formal ties with the British, Australian, and New Zealand Computer Societies; has formal relationships with major Canadian Associations, and international accreditation groups.]

Stephen was elected as a Board Director in January 2005 to a four-year maximum term to the Network Professional Association (the only director outside of the US). He serves on the NPA Certification and Accreditation board and on the Editorial Board where he also contributes as Managing Editor and Writer for NPA publications. Stephen was the inaugural recipient of the international NPA lifetime Career Achievement Award, presented at Networld+Interop Las Vegas in 2002, the highest of international awards for outstanding lifetime business/technology achievements, integrity, and professionalism in the industry. Stephen is the only international recipient of this highest honor amongst nominee finalists that have included top "Fellows" and "Distinguished Engineers."

The industry sector award is sponsored by the Network Professional Association, with cooperation and support from Networld+Interop Las Vegas (largest international conference in networking, the internet, security, and communications); Network World magazine, Network Computing magazine (the leading publications in this sector); Pearson Technology Group Publishing (world's largest publisher); Microsoft; and Novell (participated in judging for 2005).

Stephen is also an invited member of the US-based Council of Advisors Gerson Lehrman Group, and the Society of Industry Leaders Vista Research group. In June 2005, he was invited as a founding member of the Canadian Council for Culminis which is the largest IT Pro organization uniting more than 2800 user groups in 31 countries and 500,000 members. Other appointments include the board of directors for a Microsoft-profiled human resource management software company, chairman of an internationally-profiled web development company and directorships in several international companies.

In 2002, Industry Canada and the Information Technology Association of Canada representing the top 1300 corporations in computing, telecommunications software services, and electronic content awarded Stephen the IT Hero Award. They had this to say:

“Ibaraki has spent his entire career in the IT Industry and worked consistently on the leading edge of technology. He received the World Computer All Star award early on and has continued winning awards since. He could easily ride his talent and expertise to fame and fortune, yet the majority of his time, effort and resources go to his students...Stephen has consistently received the highest teaching evaluation scores. He has also earned the Top Teacher Award. He has freely shared his research...Throughout his career Stephen has excelled. Yet what is so unique about him is the amount of time and effort he freely gives to help others. Whether it is in the classroom or on a consulting assignment he never misses an opportunity to help others understand how things work in the world of technology.”

In 2004, Stephen’s executive team received IT Hero recognition from Culminis for their work in sponsoring entrepreneurship amongst college students. Earlier in his career, Datatech Systems Ltd (now part of EDS), the largest Canadian IT outsourcing, field service, mini/micro OEM, and research company awarded Stephen the national "All Star Team Award". Moreover, Stephen received selection as one of the top writers in science and technology by the Western Magazine Foundation.

Microsoft has profiled Stephen for "leading the industry." His business and technology research consultancy reports and articles reach more than 10,000 enterprises worldwide. Speaking requests include Networld+Interop, Comdex Las Vegas, WorldExpo WowGao conferences.

In 2005, Stephen spoke on Strategic Planning for the NPA AGM at the Networld+Interop conference in Vegas. Previously, Stephen presented on Building Business Models for Web Services at Comdex Las Vegas. He led all ten briefings over two days in London at an international conference for enterprises sponsored by Xephon, the leading European technical and marketing research organization serving 10,000 enterprises in over 80 countries. Personally invited by the executive team and profiled as “world renowned” by Smartforce/Skillsoft, the world's leading e-learning company, Stephen was one of the first to lead numerous global video broadcasts and live Q&A on leading-edge technology designs and business implementations to 2500 enterprise clients, and 5 million users. His weekly discussions with leading CEOs/CIOs, senior business executives, business and technology experts also appear before the NPA, Pearson newsletters, InformIT, WorldExpo conferences, Myst, and recently with Culminis. His business predictions were selected from amongst the world's best experts for CEOnetworking's top ten 2004-business trends and by the marketing portal TechTransform.

Stephen has taught extensively as a college faculty member in business and computing for 25 years earning an Excellence in Teaching Award, the Most Inspirational Instructor Award, and perfect teaching evaluations. He designed curriculum, entire programs, and taught courses related to computer science (programming logic, assembler, C, C++, VB, operating systems, data communications, Unix), information systems (business systems, SQL databases, networks, Microsoft, Novell, micro applications), and business (advertising multi-media support, marketing, quantitative methods or financial math). Various duties included as senior faculty, technical manager of advanced professional programs, head of research of advanced professional programs, computing convener [akin to computing head].

Stephen designed and implemented the first client/server labs sponsored by Chevron/Hitachi and featured in the media, the first industry/academic/CIPS accredited programs, and received letters of commendation and recommendation from the college board chair, college president, dean and has been profiled in college publications for his achievements. In 2002, he was invited to present at the World Computing Congress, the only Canadian college faculty member and company chairman invited to do so. He retired from teaching in Jan 2005. In 2005, his work was cited along side Tim Berners-Lee, inventor of the World Wide Web and the current director of the World Web Consortium (W3C), in a paper on the Semantic Web by the Boeing Phantom Works for the W3C.

The 2001 Hall of Fame inductee, Stephen Ibaraki I.S.P. is a multi-award-winning 35-year information technology and business researcher, industry analyst, writer, and veteran college educator for the School of Business (recently retired).

Amongst the many thousands of companies, past advisory roles in business strategy, marketing, and technology include:

- Wilson Sonsini Goodrich & Rosati, the world's leading legal firm serving the technology and investment sector headquartered in Palo Alto California (\$260B in M&A transactions, \$90B in equity/debt offerings);
- 3000+ corporate member Canadian Office Products Association;
- Atomic Energy of Canada, the world's largest producer of radiopharmaceuticals;
- Telecommunications groups such as BC TEL;
- ASEA, one of the world's largest manufacturing groups; and
- Federal Business Development Bank.

**Contact:**

Mylene Sayo, Manager, Public Relations

CIPS

Phone: (905) 602-1370 or E-mail: [info@cips.ca](mailto:info@cips.ca)

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