

March 28-29, 2013

The Eleventh Annual
SECURE IT
INFORMATION TECHNOLOGY & NETWORK SECURITY
CONFERENCE
2013

Sheraton Fairplex Hotel & Conference Center
601 W. McKinley Avenue | Pomona, CA 91678 USA

Hosted by:



www.secureitconf.com

Welcome

The Eleventh Annual

SECURE IT

INFORMATION TECHNOLOGY & NETWORK SECURITY
CONFERENCE
2013



Welcome to the eleventh annual SecureIT conference hosted by California State University, San Bernardino. This conference continues to provide focus and opportunities to our higher education colleagues in meeting the challenges of providing a secure information technology environment for our campus communities. This year we have struck a partnership with a very vibrant organization, CyberWatch West. Our theme in 2013 was adopted from CyberWatch West: “Building the Cyber Security Workforce to Combat the Threats of Tomorrow”. CyberWatch West (CWW) is the only NSF-ATE Center dedicated to Cybersecurity in the western region of the United States. It offers the most current information in Cybersecurity in the form of Educational Partnerships, Business Industry Partnerships, Professional and Student Development Programs and Events. In addition, we welcome back our collaboration with our University of California colleagues and those at the California Community Colleges. This is truly a unique higher education information technology and network security conference and we are pleased you found great value in becoming a participant.

With our focus on faculty curriculum development in the information system security assurance arena this conference provides us with the unique opportunity to explore the role of higher education in preparing the future workforce to meet the Cybersecurity opportunities and threats of tomorrow. Our partnership with CyberWatch West this year will afford us greater access to key faculty who are deeply engaged in this field.

We have also gathered experts in the information security fields to share innovative solutions and emerging trends in cyber security. Take advantage of this opportunity to engage your colleagues, share strategies, and form coalitions that will extend beyond the conference.

Thank you to our sponsors and exhibitors support of the conference. You bring great value to our attendees. So, explore, learn, engage, and create new partnerships as we work toward “Building our Cybersecurity Workforce”.

With warmest regards,



Lorraine Frost
Vice President and CIO
California State University, San Bernardino



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Advanced Technological
Education Center

Founding Members

Jaishri Mehta
Mt. San Antonio College

Daniel Manson
*California State Polytechnic
University, Pomona*

Mohsen Beheshti
*California State University,
Dominguez Hills*

Tony Coulson
*California State University,
San Bernardino*

Corrinne Sande
Whatcom Community College

Welcome to the eleventh annual SecureIT conference hosted by California State University, San Bernardino. CyberWatch West (CWW) is truly excited in this inaugural year of our partnership with Secure IT to bring academia and industry together.

CyberWatch West (CWW) is the only NSF-ATE Center dedicated to Cybersecurity in the western region of the United States. Our mission is to increase the quantity and quality of the Cybersecurity workforce throughout the 13 western most states. We conduct activities in professional development, competitions for students, curriculum development and dissemination and also provide the most current information in Cybersecurity in the form of Educational and Business Industry partnerships working in collaboration with Professional Organizations.

We have a great lineup of sessions including updates on the sweeping changes to National Curriculum Standards in Cybersecurity which have been aligned with the National Initiative of Cybersecurity Education (NICE) framework, the latest information on Cybersecurity Competitions in the Western Region, Wireless Security, Forensics and more.

On behalf of our organization, we look forward to seeing you at the conference. We hope you will embrace every opportunity to enhance your knowledge and create new alliances as we move forward in “Building a Stronger Cybersecurity Workforce” and securing our world.

With best regards,

Jaishri Mehta
Executive Director and PI
CyberWatch West Center,

Agenda at a Glance

Thursday, March 28

5:00am - 7:00am	Exhibit Hall Setup
7:00am - 5:00pm	Registration
7:00am - 8:00am	Continental Breakfast/ Exhibit Hall Opens
8:00am - 9:15am	Opening Welcome and Keynote Plenary - Dr. Pradeep Kholsa
9:15am - 9:30am	Refreshment Break in Exhibit Hall
9:30 am - 10:30	Concurrent Session I
10:30am - 11:00am	Refreshment Break in Exhibit Hall
11:00am -12pm	Concurrent Session II
12:00pm - 1:30pm	Lunch and Keynote Speaker - Michael Montecillo
1:30pm - 2:00pm	Exhibit Hall
2:00pm - 3:00pm	Concurrent Session III
3:00pm - 3:30pm	Refreshment Break in Exhibit Hall
3:30pm - 4:30pm	Concurrent Session IV
4:30pm - 7:30pm	Reception/Poster Session in Exhibit Hall
7:30pm	Exhibit Hall Closes

Friday, March 29, 2013

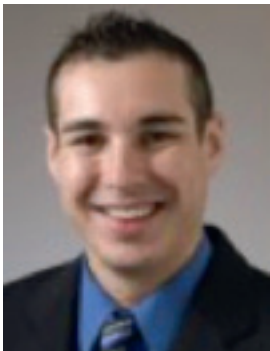
8:00am - 11:30pm	Registration
7:30am - 8:30am	Breakfast
8:30am - 9:45am	Concurrent Session V
10:00am - 11:15am	Concurrent Session VI
11:30am - 1:30pm	Lunch Keynote Panel - Antonio Flores, John McGuthry, and Tomás Morales (lunch will be in collaboration with CyberWatch West - Western Regional Cyber Defense Competition Collegiate)
1:30pm	SecureIT ends



Pradeep Khosla

a distinguished academic leader and electrical and computer engineer, began his tenure as UC San Diego's eighth chancellor on August 1, 2012. Chancellor Khosla previously served as dean of engineering at Carnegie Mellon University. There, he set the strategic direction for undergraduate and graduate education and research, and was elected University Professor, the highest distinction a faculty member could achieve. At UC San Diego, he has initiated a comprehensive, all-inclusive strategic planning process to develop a vision and shared goals for the future of the campus.

Chancellor Khosla is an elected member of the National Academy of Engineering, a Fellow of the Indian Academy of Engineering, an Honorary Fellow of the Indian Academy of Science, and a Fellow of the American Association of Artificial Intelligence. He is also the recipient of numerous awards for his leadership, teaching, and research, including the 2012 Light of India Award, a Lifetime Achievement Award from the American Society of Mechanical Engineers, and the George Westinghouse Award for contributions to improve engineering teaching. In 2012, he was named as one of the 50 most influential Indian-Americans by SiliconIndia. He received his bachelor's degree in electrical engineering from the Indian Institute of Technology, and his master's and doctoral degrees in electrical and computer engineering at Carnegie Mellon.



Michael Montecillo

is the IBM Security Services Threat Research and Intelligence Principal. He has more than nine years of experience in information security, during which he has served as a Senior Threat and Intelligence Researcher on the Managed Security Services Intelligence Team, as a Vulnerability Management Coordinator and Forensic Investigator for state governments as well as the Principal Security Analyst for an industry analysis firm. Testament to Michael's efforts he has won two State Police awards for Professional Excellence and has published more than 30 research articles. In addition Michael has functioned as a speaker at industry events including the Department of Homeland Security Government Forum for Incident Response and Security Teams, IBM Innovate, and VA Scan. As the Threat Research and Intelligence Principal within IBM Security Services conducts research on emerging threat

trends and works to ensure that client security needs are met with standard offerings.



Antonio Flores

became the third president and chief executive officer of the Hispanic Association of Colleges and Universities (HACU) in 1996. HACU is the only national association representing existing and emerging Hispanic-Serving Institutions (HSIs); its membership includes more than 400 colleges and universities that collectively serve two-thirds of the more than 2.5 million Hispanic students in U.S. higher education across 33 states, the District of Columbia and Puerto Rico. HACU's international membership of leading higher education institutions is also an important HACU constituency with 41 institutions in Mexico, Central and South America, and Spain.

During Flores' tenure as president, HACU has nearly tripled its membership (from 161 members in 1996 to 476 in December 2012) and its budget, expanded its programs three-fold. Thanks to HACU's advocacy efforts under Dr. Flores, more than \$2 billion in federal funding has been allocated to HSIs.

Flores holds a Ph.D. in higher education administration from the University of Michigan-Ann Arbor, an M.A. degree in counseling and personnel from Western Michigan University, and undergraduate degrees in business administration and elementary education from Universidad de Guadalajara and Centro Normal Regional, Mexico, respectively.



John McGuthry

was selected to serve as Cal Poly Pomona's Chief Information Officer in 2011. Previously he served as the Chief Information Officer for Armstrong Atlantic State University and as the Chief Information Officer at Reinhardt College. John has been successful at improving IT operations, building and improving operational processes to support university operations, and supporting emerging technologies for learning environments.

Prior to joining Higher Education as a CIO, McGuthry held management positions in consulting and product management organizations for Fortune 100 corporations. John has assisted in planning, designing, and launching multi-billion dollar technical services for both business and consumer customers.

McGuthry holds a bachelor's degree in physical science from the University of Maryland and a master's degree in management from the Georgia Institute of Technology.



Tomás Morales

was selected as the president of California State University, San Bernardino in May 2012. He is the university's fourth president since it opened in 1965.

Previously, Morales was president of the College of Staten Island, The City University of New York (CUNY), since 2007.

From 2001 to 2007, Morales served in various capacities at California State Polytechnic University, Pomona, including Provost and Vice President for Academic Affairs, Vice President for Student Affairs, and professor of education.

Prior to joining Pomona, Morales was Vice President for Student Affairs and Dean of Students at The City College of New York/CUNY from 1994 to 2001.

Morales serves as a Board Member of the American Association of State Colleges and Universities and will become the organization's chair in 2014. He also was co-chair of AASCU's National Task Force on College Readiness, which recently released the report, "Serving America's Future: Increasing College Readiness," a comprehensive examination of college readiness that advocates approaches that public institutions can take to address this crisis.

In addition, Morales serves as vice chair of the Governing Board of the Hispanic Association of Colleges and Universities (HACU), and he is on the Executive Committee of the Coalition of Urban and Metropolitan Universities, as well as the American Council on Education's Commission on Racial and Ethnic Equity. He previously served on the National Information and Communication Technology Literacy Policy Council.

He holds a B.A. in history from New Paltz, and earned his M.S. and Ph.D. in educational administration and policy studies from SUNY, Albany. Having served as an educator and administrative leader in higher education for more than 37 years, he is one of the few higher education administrators in the United States who has held senior administrative positions at the three largest public university systems in the nation: The California State University, The State University of New York, and The City University of New York.

Concurrent Session I

March 28, 2013

9:30 – 10:30am

Securing your Service Oriented Architecture - Part 1 of 2**Presenters:** Tim Zaw & Adnan Masood, OWASP-LA**Room:** Sonoma 1

Any Service-Oriented Architecture (SOA) needs to support security features that provide auditing, authentication, authorization, confidentiality, and integrity for the messages exchanged between the client and the service. Microsoft Windows Communication Foundation (WCF) provides these security features by default for any application that is built on top of the WCF framework. In this session the presenters will discuss the WCF security features related to auditing and logging, authentication, authorization, confidentiality and integrity.

This talk is focused on WCF security features with code demonstration to use behaviors and bindings to configure security for your WCF service. Bindings and behaviors allow you to configure transfer security, authentication, authorization, impersonation, and delegation as well as auditing and logging. This presentation will help you understand basic security-related concepts in WCF, what bindings and behaviors are and how they are used in WCF, authorization and roles in the context of WCF, impersonation and delegation in the context of WCF and what options are available for auditing in WCF.

Targeted towards solution architects and developers, this talk will provide you architectural guidance regarding authentication, authorization, and communication design for your WCF services, solution patterns for common distributed application scenarios using WCF and principles, patterns, and practices for improving key security aspects in services.

Coaching a Team for the National Collegiate Cyber Defense Competition**Presenter:** Corrine Sande, Whatcom College**Room:** Leona

This session will cover how to prepare for the various Cyber Defense competitions available to students in high schools and colleges. Particular attention will be given to the National Collegiate Cyberdefense competition, including team composition, how to practice, and what to expect during the competition. The benefits to your school and your program also will be explored.

BYOD & Consumerization – The Whole Story**Presenter:** Eric Skinner, Trend Micro**Room:** California 1

In this presentation, Eric Skinner, VP of Mobile Security for Trend Micro, will discuss all aspects of Consumerization and the BYOD trend that IT managers must be aware of – from mobile platform security to legal liabilities as well as financial and productivity implications. He will share the results of several research studies tracking companies across industries and the outcomes tied to their Consumerization strategies. Among the topics covered will be: personal data loss and remote deletion part of the standard employee termination process; privacy laws and forensic review of all devices in connection with the litigation; and device seizure and loss of use.

Concurrent Session II

March 28, 2013

11:00am – 12:00pm

Securing your Service Oriented Architecture - Part 2 of 2**Presenters:** Tim Zaw & Adnan Masood, OWASP-LA**Room:** Sonoma 1

Any Service-Oriented Architecture (SOA) needs to support security features that provide auditing, authentication, authorization, confidentiality, and integrity for the messages exchanged between the client and the service. Microsoft Windows Communication Foundation (WCF) provides these security features by default for any application that is built on top of the WCF framework. In this session the presenters will discuss the WCF security features related to auditing and logging, authentication, authorization, confidentiality and integrity.

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Targeted towards solution architects and developers, this talk will provide you architectural guidance regarding authentication, authorization, and communication design for your WCF services, solution patterns for common distributed application scenarios using WCF and principles, patterns, and practices for improving key security aspects in services.

NCL/WRCCDC**Presenter:** Dan Manson, Cal Poly Pomona**Room:** Leona

Turning cybersecurity into a team competition sport has advantages of learning through real-world simulations with the ability to track performance. The National Collegiate Cyber Defense Competition (CCDC) and National Cyber League (NCL) provide a training ground for collegiate students to develop and practice their cybersecurity skills through combined individual and team exercises. The CCDC sport is cyber defense – a “mental sport” that involves several hours to days of running, maintaining and defending a simulated commercial network from attack from security professionals. The Fall NCL pilot included lab exercises leading to three “capture the flag” competitions.

In this presentation we describe the evolution of cybersecurity competitions, our experiences with team-based and individual competitions as well as defense only vs. competitions involving offense. We provide recommendations for the future of cybersecurity competitions and how it can eventually evolve into a mainstream commercial sport.

Conference Sessions

Appropriate Application of ISO 27001-2 Information Security Management Systems Standard

Presenter: David Lam, ISSA – LA
Room: California 1

Organizations of multiple sizes often struggle to understand how to best manage their Information Security needs. Fortunately, the International Organization for Standardization (ISO) has given us international standards 27001 and 27002 that provide a scalable set of guidelines for organizations of every size and complexity. David Lam, both a practicing CISO and consultant, will provide a common sense application of these critical frameworks, including a discussion amongst participants of their practices.

Concurrent Session III

March 28, 2013

2:00 – 3:00pm

Incident Response & Forensics in the Virtual Realm - Part 1 of 2

Presenter: Paul A. Henry, SANS
Room: Sonoma 1

Virtualization changes many things including how we respond for IR and Forensics. Traditionally we relied upon imaging a hard drive to perform our analysis - today imaging the entire VMFS (hard drive) is not always an option and is simply not necessary to analyze a specific VM. Of further concern is today's commercial tools lack the ability to perform any analysis on a VMware VMFS file system. In this session we will explore changes that must be made to your IR and Forensics procedures to address a virtual realm. We will also discuss the limitations of today's popular tools as well as introduce attendees to new open source tools that can address your needs.

Digital Investigation Tools and Methodologies

Presenters: Rowen Ytallet, Justin Wolf and Tony Coulson, CSUSB

Room: Leona

In April of 2012, CSUSB Digital Investigators – The CSUSB participated in the Information Technology Competition (ITC) digital forensics investigation. As private forensic contactors, hired by Global Company, the team assisted in the investigation of an alleged harassment complaint filed in the Human Resources (HR) department. This presentation will discuss the tools methodologies that CSUSB Digital Investigators used in approaching the fictitious case that involved both mobile and computer forensics.

Privacy Beyond Security – FERPA, Privacy, and the Importance of Data Governance

Presenter: Michael Hawes, U.S. Department of Education
Room: California 1

While strong IT security is critical to the protection of privacy, it is important to remember that it is only one piece of the puzzle. Protecting the privacy of student information requires that we not just protect the data from unauthorized access, but that we also protect them from inappropriate use. This presentation will cover the basics of data sharing and use under the Family Educational Rights and Privacy Act (FERPA), and will highlight some best practices for promoting effective data governance within post-secondary institutions. This session will also highlight some recent guidance documents issued by the U.S. Department of Education that serve to clarify FERPA's requirements and recommended best practices for implementing them.

Concurrent Session IV

March 28, 2013

3:30 - 4:30pm

Incident Response & Forensics in the Virtual Realm - Part 2 of 2

Presenter: Paul A. Henry, SANS
Room: Sonoma 1

Virtualization changes many things including how we respond for IR and Forensics. Traditionally we relied upon imaging a hard drive to perform our analysis - today imaging the entire VMFS (hard drive) is not always an option and is simply not necessary to analyze a specific VM. Of further concern is today's commercial tools lack the ability to perform any analysis on a VMware VMFS file system. In this session we will explore changes that must be made to your IR and Forensics procedures to address a virtual realm. We will also discuss the limitations of today's popular tools as well as introduce attendees to new open source tools that can address your needs.

What in the World is Going On With the CAE in IA?

Presenter: Tony Coulson, CSUSB
Room: Leona

This session will cover changes to the Center of Academic Excellence in Information Assurance (CAE) program and how it will affect current CAE/CAE2Y institutions. In addition, institutions that wish to earn this designation will learn about the new criteria for designation. "In this presentation, the latest news will be shared related to the new CAE in Cyber Defense. The talk will include the old CAE program, changes and the new Knowledge Units Framework.

Security in the Cloud: Fact of Fiction?

Presenter: Chris Simpson, Bright Moon Security
Room: California 1

The rapid adoption and growth of cloud computing brings significant changes to the security landscape. In this talk you will learn the fundamental security considerations for operating in the cloud. Participants will learn about the 5 essential characteristics of cloud computing, the three service models of cloud computing and the four deployment models of cloud computing. The following security considerations for operating in the cloud and methods to mitigate the associated risk will be discussed:

1. Risk of multi-tenancy
2. Shared security responsibility of the consumer and provider
3. Achieving and maintaining compliance in the cloud
4. Incident response in the cloud

This talk will dispel some of the myths about cloud computing and help attendees identify the cloud security issues that are relevant to their organization. Attendees will learn where to find more detailed information on securely operating in the cloud. A short demo of Amazon Web Services will be conducted to highlight the topic. Attendees will learn where to find more detailed information on securely operating in the cloud. A short demo of Amazon Web Services will be conducted to highlight the topic.

Concurrent Session V

March 29, 2013

8:30 – 9:45am

Access Control Design Best Practices

Presenter: Jim Manico, WhiteHatSecurity

Room: Sonoma 1

Access control is a necessary security control at almost every layer within a web application. This talk will discuss several of the key access control anti-patterns commonly found during website security audits. These access control anti-patterns include hard-coded security policies, lack of horizontal access control, and "fail open" access control mechanisms. In reviewing these and other access control problems, we will discuss and design a positive access control mechanism that is data contextual, activity based, configurable, flexible, and deny-by-default - among other positive design attributes that make up a robust web-based access-control mechanism.

Integrating Strategies With Technologies in Cybersecurity Education

Presenter: Dr. Jim Chen, Professor of Systems Management/Cybersecurity

Room: Leona

Quickly building a skillful 21st century cyber workforce is a big challenge. Quickly developing capable cyber leaders who can handle complex issues in cyber and cyber-related domains is an even bigger challenge. Available cyber programs are either fully devoted to specific cybersecurity technologies or only focused on non-technology aspects such as cyber policies. It is rare to have an integrated program. This paper intends to examine the issues in such a program design as well as its consequences. It proposes an integrated approach that brings together cyber strategies/policies teaching, cyber leadership teaching, and cybersecurity technology teaching. It shows with specific examples the effectiveness of this approach. It discusses the benefits and limitations of this approach in developing capable cyber leaders. It also suggests possible ways of fine-tuning this approach in future studies.

Security Essentials: A View From IBM

Presenter: Mark Powell, IBM

Room: California 1

IBM's approach to security maturity is known as the "The Security Essential Practices." IBM implemented these essential procedures and tools to secure one of the largest global IT infrastructures. This session reviews the Ten Security Essentials and the IBM Security Services portfolio that can be utilized to help other organizations optimize their security.

Concurrent Session VI

March 29, 2013

10:00 – 11:15am

A Foundation for Launching a Successful Vulnerability Management Program

Presenter: Nathan Wenzler, Qualys

Room: Sonoma 1

Vulnerability Management is much more today than simply applying patches on a monthly basis. Assets must be accounted for, identified and classified for risk purposes. Executives, engineers, developers, admins and others must be kept up to date with pertinent information on a timely basis. Customers want to be assured that their data is protected and safe. And all of this has to be done with minimal budget, and often without the benefit of a large team of people to remediate every single problem found. This discussion will lay out some fundamental items to consider when putting together a vulnerability management program to help give the best foundation for success in your organization. Items will include communication strategies with staff, technology considerations for identifying assets and vulnerabilities, as well as ways to facilitate buy in from dotted-line relationships in your organization.

Wireless Security/Forensics

Presenters: Mohsen Beheshti and Mehrdad Sherbaf, CSUDH

Room: Leona

This session will cover the process to develop a course in Wireless Security and Forensics - It will include sample lecture notes, exercises, and other student activities. Participant will be able to use this model to develop a similar course in their institutions.

How To Achieve Governance and Minimize Risk in a Hybrid Cloud Environment

Presenter: David Lancaster, Dell Cloud Services

Room: California 1

We are a world of "NOW," dynamically connected through social and business networks that are creating an explosion in data growth. Agility in quickly scaling up or down to meet new IT demands is key to the viability, growth and the ability of an organization to respond to a rapidly changing marketplace. In addition, providing highly mobile end users with "anytime, anywhere from any device" access increases productivity and overall job satisfaction. Today's organizations can become an overnight success, or they can quickly fold. Success today and in the future come to those organizations that evolve quickly and increase IT delivery agility / scalability while maintaining governance and decreasing risk.

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