



The Iowa Chapter of ISACA is proud to present

**Spring 2011 Seminars**  
**Virtualization Security and Audit**  
**Mobile Security and Control**

**When:** Virtualization Security and Audit - May 24 and 25  
Mobile Security and Control - May 26 and 27

**Time:** Registration and/or set up begins at 7:30am each day.  
The seminar is in session from 8:00am to 4:30pm.

**Where:** Hilton Garden Inn West Des Moines  
205 South 64<sup>th</sup> Street  
West Des Moines, Iowa 50266  
Phone: 515.223.0571

<b>Fee:</b>	Member	Non-member
One Seminar	<input type="checkbox"/> \$300	<input type="checkbox"/> \$350
Both Seminars	<input type="checkbox"/> \$500	<input type="checkbox"/> \$600

Fee includes class materials, continental breakfast, lunch, and afternoon snacks.

**CPE:** Attendees will receive 16 CPEs per seminar with a maximum of 32 CPEs.

**Registration:** See below

## Virtualization Security and Audit Seminar

Michael T. Hoelsing CISA CISSP CCP CIA CFSA CMA CPA ACDA

May 24 and 25

This seminar is designed to give the auditor or security assessor a background in the implementation of server virtualization, the risks associated with that implementation, control or security techniques to mitigate those risks, and approaches, tools, and techniques to assure that those controls and security tools are working as intended. The VMware ESX server is used to illustrate control or audit concepts because it is the most widely implemented virtualization software.

The hands-on portion of the class will require participants to install VMware Virtual Center client, also Windows Powershell and the Virtual Infrastructure Toolkit for Windows. This software should be installed on a spare non-production laptop (or installed on your production laptop off-line and removed before reconnection to your environment). Each student should have administrative rights to install the software. Connectivity to the portable lab environment will either be achieved using a student-provided long (25 ft or more) cat5 cable, or a wireless connection if the participant has an 802.11b wireless network capable card on their laptop. Access point SSID & password and the student ID & password enabling access to the VMware Virtual Center Management Server using the client software will be assigned on-site. Microsoft .NET (dotnet) 2.0, WinSCP and Putty are also useful and free tools the student should pre-install on their machine before attending class, but those items also may be installed on-site.

### Course Outline

Software Installation

Background

Overall Risks and Standards

### VMware vSphere 4.x and ESX 3.5

Networking & Logical Access, Risks and Controls

Configuration and Other; Risks and Controls

Audit & Assessment Approaches and Tools

Hands-On - Example Assessment of a Virtualization-Enhanced Risk - Sprawl

Hands-On - Network Assessment

Hands-On - Configuration, & Logical Access

Hands-On - Other Audit/Assessment procedures (logging, patching, ...)

The Required and Always Entertaining "Misc" (continuity, compliance, ...)

Mike has over 30 years of experience in the areas of information systems audit and assurance, information systems implementation, and financial audit. His experiences span a variety of industries during his years with public accounting firms and his last 18 years has focused on the financial services with firms such as First Data Corp, First National Nebraska Inc., Pricewaterhouse Coopers, and American Express. Mike has been involved in both the external and internal audit processes and also has served as a software trainer.

Mike has been a conference speaker at the Computer Security Conference, VMworld, ISACA's CACS, IIA Midwest Regional, RSA Executive Security Action Forum, RSA, FFIEC IS Audit Examiners Conference and the CERT and InfoTec conferences covering ESX risk, security and assessment techniques.

Mike has been published in the Information Systems Control Journal published by ISACA on network security, operating systems and virtualization risk and audit topics. Contributions to team documents include ISACA's whitepaper on virtualization <http://www.isaca.org/Knowledge-Center/Research/ResearchDeliverables/Pages/Virtualization-Benefits-and-Challenges.aspx>, the FSR/BITS Information Technology Outsourcing Framework document and the Center for Internet Security Virtualization and ESX Server benchmarks <http://cisecurity.org/en-us/?route=downloads.multiform>. Mike developed the xccdf testing script for the Center for Internet Security's CIS-CAT assessment software version 2.2.2 for ESX 3.5 servers and the vSphere 4 test script should be released in 2011. In May 2009 his Virtualization Security Assessment Tools and Techniques article was published in the Information Security Journal: A Global Perspective published by ISC2, which was the topic presented at RSA 2010. In 2010 ISACA has published his article on applying Data Analytics to IS Audits.

Mike has lead the Information Systems Audit and Information Assurance groups for various organizations conducting traditional IS and integrated audit activities, along with proactive control and risk management consulting, technical assessments, forensics, eDiscovery litigation support, and external assessment liaison with regulatory, financial and credit card association assessors, evaluating risk and helping to improve the control environment for all technology teams.

Mike developed the first Virtualization audit class delivered to ISACA chapters and presented the 2 day version of that class at MISTI's InfoSec World Conference in March 2009.

University involvement includes membership on the Creighton University and University of Nebraska at Omaha College of Business advisory boards, and facilitating sessions in Creighton's eSecurity lab. At the University of Nebraska at Omaha, he developed and delivers the regions only recurring class devoted to Information Systems Audit following the ISACA model curriculum and has enrolled that school in the ACL and VMware beta partner programs. He is a board member of NebraskCERT, the area's leading information security professional group.

## Mobile Control and Security Seminar

Barry D. Lewis, CISSP, CISM, CRISC

May 26 and 27

This two day seminar starts with review of the various business uses of mobile devices and wireless standards in use today. The numerous device types are then looked at in more detail while determining the specific risks involved when these are used within the business environment. Attendees learn that each type of business use adds risk and increases the need for key controls to help mitigate and manage that risk. The session ensures that for every risk mentioned, a corresponding control is discussed to ensure that all attendees leave with a clear understanding of how they can mitigate the risks. From access to inventory to automated tools we analyze best practices and effective implementation. A large portion of the seminar concerns reviewing key controls for each type of device and how you might use those controls in your organization. Finally, we review how you might use the ISO 27002 standard to perform an effective review of your mobile security, ensuring that all key areas are effectively and appropriately managed and controlled.

**Audience:** This seminar is intended for IT Management, internal and external audit professionals, security staff as well as security consultants who wish to learn more about audit and control over Mobile technology.

**Prerequisites:** There is no prerequisite for this seminar.

**Objectives:** After completing this seminar, participants will be able to:

- Recognize the myriad of devices swarming our businesses
- Describe how devices are used in business and understand how to assess that use
- Recognize the risks involved in mobile technology
- Understand the numerous controls that can mitigate the risks
- Recognize the various types of software that offer mobile control capabilities
- Understand the technical controls available for those without the benefit of commercial solutions
- Conduct a technical assessment of their organization's mobile technology

### Course Outline:

Understanding the different technologies in use

Key risks in business use of mobile technology

An epidemic of lost data

Laws and legal controls

Software tools and techniques for ensuring security

Understanding and Implementing Best Practices

Implementing appropriate controls

- Phones
- Laptops
- USB and Firewire
- Bluetooth
- RFID
- Operating Systems (Windows Mobile5/6, Symbian etc)
- SIM cards

Using ISO 27002 as an audit process

Mr. Lewis' seminar will draw upon the experience gained over his almost 30 years of experience in the areas of IT operations and information security in both industry and consulting.

Mr. Barry D. Lewis, CISM, CISSP, CRISC

Barry Lewis is one of North America's pre-eminent experts in the information security field. He began his career in Information Technology in 1969, working for a major financial institution. In 1980 he moved into the security field, designing, developing and implementing security measures for that financial institution and he has remained in this field ever since.

From 1980 to 1987 he played a major role in designing, developing and implementing security measures which remain relevant and useful to this day. During this time he developed and implemented security Policy and Standards; implemented logical access controls; provided controls over network access and developed and presented security training seminars.

In 1987 he began working as a Management Consultant, spending the next five years with two of the top audit firms in North America. During this time he managed a large number of technical security audits, implementations and reviews with organizations in government, financial, manufacturing and service industries. In 1992 he entered private consulting and joined Cerberus in 1993.

Mr. Lewis received the prestigious John Kuyers Best Speaker/Conference Contributor Award at the ISACA 2008 International CACS Conference.

## How to register

Please fill out the form below and mail it with your payment made to ISACA Iowa Chapter:

c/o Shirley Weuve  
Wells Fargo Audit & Security  
MAC X2301-02M  
1 Home Campus, 2nd Floor  
Des Moines, IA 50328-0001

If you have any questions please email [Shirley.I.Weuve@wellsfargo.com](mailto:Shirley.I.Weuve@wellsfargo.com)

### REGISTRATION FORM

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Email Address: \_\_\_\_\_

Check all applicable boxes:

I would like to attend the following seminar(s):

Virtualization Security and Audit - May 24 and 25

Mobile Security and Control - May 26 and 27

Registration:

Member      Non-member

One Seminar     \$300     \$350

Both Seminars     \$500     \$600

I'm enclosing payment with this registration form, payment is made to "ISACA Iowa Chapter".

I'm an ISACA member, but do not belong to the ISACA Iowa Chapter. I'm enclosing proof of ISACA membership in order to receive a Member discount.

I'm not enclosing a payment. Please send a PayPal request for payment to my email box:

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