



The Central Iowa Chapter of ISACA is proud to present

## Spring 2010 Seminar

**When:** Wednesday, June 2 through Friday, June 4, 2010

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

**Where:** Hilton Garden Inn West Des Moines  
 205 South 64th Street, West Des Moines, Iowa, 50266  
 Tel: 515-223-0571

**Cost:** **Prior to April 15:** Members \$100/day; Non-members \$150/day  
**After April 15:** Members \$150/day; Non-members \$200/day

Last day for payments to be received is May 7<sup>th</sup>.

**Attendees can pick & choose the sessions, they would like to sign-up.**

Cost includes copies of all class materials, plus continental breakfast, lunch, and afternoon snacks.

**CPE:** Attendees will receive 8 CPE credits per day.

**PREREQUISITES:** None

**SEMINAR SCHEDULE:**

Day 1	Wednesday, June 2	Don Caniglia	Morning Session: Audit/Assurance Practice Using COBIT Afternoon Session: Ensuring System Security & Acquisition and Maintenance of Application Software
Day 2	Thursday, June 3	John Tannahill	Audit & Security of Oracle Databases 10g/11g
Day 3	Friday, June 4	John Tannahill	Audit & Security of Microsoft SQL Server 2005/2008

## Course Outline – Day 1

<b>AUDIT/ASSURANCE PRACTICE USING COBIT</b> <b>ENSURING SYSTEM SECURITY &amp; ACQUISITION AND MAINTENANCE OF APPLICATION SOFTWARE</b>	<b>DONALD CANIGLIA, CISA, CISM</b>
<p><b>Seminar Duration</b></p> <ul style="list-style-type: none"> <li>• 1 day</li> </ul> <p>Topics to be covered include:</p> <p><b>1. COBIT</b></p> <ul style="list-style-type: none"> <li>• Background of COBIT Assurance process</li> <li>• Relationship of Audit Planning and support to Governance (Management Practices)</li> <li>• Supporting Tools (handouts to be distributed) - Excerpts from : COBIT 4.1 Control Practices and IT Assurance Guide</li> </ul>	<p><b>2. Acquire and Maintain Application Software</b></p> <ul style="list-style-type: none"> <li>• Value and Risk drivers, (Why do we need assurance)</li> <li>• Testing Design and Outcome</li> <li>• Potential Topic areas:</li> <li>• High Level Design</li> <li>• Detailed Design</li> <li>• Application Control and Auditability</li> <li>• Application Security and Availability</li> <li>• Configuration and Implementation of Acquired Application Software</li> <li>• Major Upgrades to Existing Systems</li> <li>• Development of Application Software</li> <li>• Quality Assurance</li> <li>• Applications Requirements Management</li> <li>• Application Software Maintenance</li> </ul> <p><b>3. Ensure System Security</b></p> <ul style="list-style-type: none"> <li>• Value and Risk drivers (Why do we need assurance)</li> <li>• Testing Design and Outcome</li> <li>• Potential Topic areas:</li> <li>• Management of IT Security</li> <li>• IT Security Plan</li> <li>• Identify Management</li> <li>• User Account Management</li> <li>• Security, Testing, Surveillance and Monitoring</li> <li>• Security Incident Definition</li> <li>• Protection of Security Technology</li> <li>• Cryptographic Key Management</li> <li>• Malicious Software, Prevention, Detection and Correction</li> <li>• Network Security</li> <li>• Exchange of Sensitive Data</li> </ul>
<p>Donald Caniglia, CISA, CISM, is a senior associate with Jon Campbell &amp; Associates in Tampa, Florida, USA, a regional provider of consulting services for information management, internal audit, information security and IT governance, and is a former information security analyst for Cummins Inc.</p> <p>Don has 30 years of experience in operational, financial and information systems auditing. A former audit director, he has developed and implemented information systems audit departments for two financial institutions. Don currently specializes in organizational information security programs and IT governance implementation.</p>	

## Course Outline – Day 2

AUDIT AND SECURITY OF ORACLE	Presented by	JOHN G. TANNAHILL, CA, CISM, CGEIT
<p><b>Seminar Highlights</b></p> <p>This seminar will focus on the audit and security issues related to the use of Oracle versions 10g and 11g.</p> <p>A live Oracle environment will be used for demonstration purposes.</p> <p><b>Seminar Duration</b></p> <ul style="list-style-type: none"> <li>• 1 day</li> </ul> <p>Topics to be covered include:</p> <p><b>4. Oracle Database Concepts</b></p> <ul style="list-style-type: none"> <li>• Relational Database Concepts</li> <li>• Database Objects (Tables, Views, Stored Procedures, Triggers)</li> <li>• Oracle Versions</li> <li>• Oracle Components</li> <li>• Oracle Instances</li> </ul>	<p><b>5. Oracle Database Security</b></p> <ul style="list-style-type: none"> <li>• Security and Audit Objectives</li> <li>• Operating System Security</li> <li>• Initialization Parameters</li> <li>• Oracle Listener</li> <li>• Oracle Data Dictionary</li> <li>• Database Connection</li> <li>• Oracle User Accounts</li> <li>• Password Administration</li> <li>• System Privileges</li> <li>• Object Privileges</li> <li>• Oracle Roles</li> <li>• Oracle Audit Trails</li> <li>• Network Security</li> </ul> <p><b>6. Audit &amp; Security Tools &amp; Techniques</b></p> <ul style="list-style-type: none"> <li>• Audit Testing Approaches</li> <li>• Audit Toolkit</li> <li>• Audit Checklist</li> <li>• Database Vulnerability and Penetration Testing</li> </ul> <p><b>7. Security &amp; Audit Resources</b></p> <ul style="list-style-type: none"> <li>• Audit &amp; Security References</li> <li>• WWW Sites</li> <li>• Oracle Blogs / Mailing Lists/Advisories</li> </ul>	<p>John is an independent Information Security and Audit Services Consultant. His current consulting work areas are focused on information security in large information systems environments and networks, requiring detailed knowledge of the major operating systems encountered. Particular areas of technical security expertise include:</p> <ul style="list-style-type: none"> <li>• Windows 2003/2008</li> <li>• Unix (including Solaris, AIX &amp; Linux)</li> <li>• Oracle; Microsoft SQL Server &amp; DB2</li> <li>• Network and Firewall security.</li> </ul> <p>John is a frequent speaker in Canada; USA and Europe on the subject of Information Security. He is a member of the Institute of Chartered Accountants of Scotland.</p>

## Course Outline – Day 3

AUDIT & SECURITY OF MICROSOFT SQL SERVER 2005/2008	Presented by:	JOHN G. TANNAHILL, CA, CISM, CGEIT
<p><b>Seminar Highlights</b></p> <p>The focus of this session will be on the audit, control and security issues related to the use Microsoft SQL Server 2005/2008.</p> <p>Learn practical approaches and techniques for evaluating the implementation of database security and control.</p> <p>Live demonstrations using Microsoft SQL Server 2005/2008 environments will reinforce the principles presented.</p> <p><b>Seminar Duration</b></p> <ul style="list-style-type: none"> <li>• 1 day</li> </ul> <p><b>1. Database Concepts</b></p> <ul style="list-style-type: none"> <li>• SQL Server 2005/2008 concepts</li> <li>• Server Instance</li> <li>• SQL Server Databases</li> <li>• Database objects</li> <li>• SQL components</li> <li>• Using SQL as an audit tool</li> </ul>	<p><b>2. SQL Server 2005/2008 Security &amp; Control</b></p> <ul style="list-style-type: none"> <li>• SQL Server versions</li> <li>• SQL Server 2005 Security Model</li> <li>• Architecture and components</li> <li>• Audit &amp; Control objectives</li> <li>• Security Configuration</li> <li>• Data dictionary</li> <li>• SQL Server Logins</li> <li>• Authentication modes</li> <li>• Password controls</li> <li>• Server and Database Roles</li> <li>• Database Users</li> <li>• Statement and Object permissions</li> <li>• SQL Profiler, audit trails and security logs</li> <li>• Role of operating system security</li> <li>• Known security vulnerabilities</li> <li>• Security patches</li> </ul> <p><b>3. Audit Tools &amp; Techniques</b></p> <ul style="list-style-type: none"> <li>• Audit Testing Approaches</li> <li>• Audit Checklist</li> <li>• Vulnerability and Penetration Testing</li> </ul> <p><b>4. Security &amp; Audit Resources</b></p> <ul style="list-style-type: none"> <li>• Audit &amp; Security References</li> <li>• Useful Web Sites</li> <li>• Mailing Lists/Advisories</li> </ul>	<p>John is an independent Information Security and Audit Services Consultant. His current consulting work areas are focused on information security in large information systems environments and networks, requiring detailed knowledge of the major operating systems encountered. Particular areas of technical security expertise include:</p> <ul style="list-style-type: none"> <li>• Windows 2003/2008</li> <li>• Unix (including Solaris, AIX &amp; Linux)</li> <li>• Oracle; Microsoft SQL Server &amp; DB2</li> <li>• Network and Firewall security.</li> </ul> <p>John is a frequent speaker in Canada; USA and Europe on the subject of Information Security. He is a member of the Institute of Chartered Accountants of Scotland.</p>