Centre for Information Integrity and Information Systems Assurance

2011

identify, create and deliver

support, promote and communicate

U N I V E R S I T Y O F W A T E R L O O
TABLE OF CONTENTS

3 MISSION STATEMENT
4 BACKGROUND
5 DIRECTOR’S MESSAGE
5 OPERATIONS AND ACTIVITIES 2011
13 FUTURE PLANS
15 CENTRE PERSONNEL

WE WELCOME INQUIRIES, SUGGESTIONS AND COMMENTS!
J. Efrim Boritz, Director
Centre for Information Integrity and Information Systems Assurance
School of Accounting and Finance
University of Waterloo
Waterloo, ON N2L 3G1

PHONE: 519-888-4567, ext. 35774
FAX: 519-888-7562
WEB: accounting.uwaterloo.ca/uwcisa
EMAIL: jeboritz@uwaterloo.ca

MISSION STATEMENT

Background

Director’s Message

Operations and Activities 2011

Hosting the Centre’s Website and IS Assurance Weblog

Funding and supporting current and future activities

Alliances and relationships

“Thought Leadership”

Documenting best practices

Sponsoring research symposia, conferences and workshops

Developing courses, cases and other teaching material

Operating the learning centre

Sharing material with other educators

Future Plans

Hosting the Centre’s Website and IS Assurance Weblog

Funding and supporting current and future activities

Alliances and relationships

“Thought Leadership”

Sponsoring research symposia, conferences and workshops

Documenting best practices

Funding specific research and education projects

Developing courses, cases and other teaching material

Operating the learning centre

Sharing material with other educators

Centre Personnel

Board of Directors

William Swirsky, MBA, FCA, ICD.D
Chair, UWCISA

J. Efrim Boritz, PhD, FCA, CA•CISA, CA•IT
Ontario Chartered Accountants’ Chair in Accounting,
School of Accounting & Finance,
University of Waterloo;
Director, UWCISA

James Barnett, FCA
Director, School of Accounting & Finance,
University of Waterloo

Gord Beal, CA, MEd
Director, Guidance and Support,
Canadian Institute of Chartered Accountants

Don Cowan, PhD
Distinguished Professor Emeritus;
Director, Computer Systems Group,
University of Waterloo

Bob Cuthbertson, CA, CA•IT
Chief Operating Officer,
CaseWare IDEA Inc.

Richard Livesley, MBA, CGEIT
Director of Information Governance
and Quality, BMO

Robert Parker, MBA, FCA, CISA, CMC
Retired Partner, Enterprise Risk,
Deloitte, Toronto

Erik Peters, FCA
Retired Auditor General of Ontario,
Ottawa

Baskaran Rajamani, MEng, MBA,
PMP, CISA, CISSP
Vice-President, ISACA, Toronto Chapter
Associate Partner, Enterprise Risk,
Deloitte, Toronto

Theophanis Stratopoulos, PhD
Assistant Professor of Information Systems,
School of Accounting & Finance,
University of Waterloo
Mission Statement

The University of Waterloo Centre for Information Integrity and Information Systems Assurance (UWCISA) seeks to identify, create and deliver research addressing information integrity and information systems governance, control and assurance issues; to support and promote the delivery of educational activities and materials related to such issues; to communicate and promote information integrity, information systems governance, control and assurance issues that are important to professionals working in these areas; and to support and promote interaction on those issues among practitioners, educators and students.

Background

UWCISA is an administrative sub-unit within the Centre for Accounting Research and Education (CARE) at the University of Waterloo. UWCISA was established in 1998 by three founding sponsors: the University of Waterloo School of Accounting and Finance, the Canadian Institute of Chartered Accountants, and the Information Systems Audit and Control Association. CaseWare IDEA Inc. joined the sponsor group on January 1, 2006. The sponsors’ objective is to improve the quality of education; to increase dialogue between practitioners and academics; to improve use in practice; to expand research in information integrity and information systems assurance, governance and control; and to foster a continuing, close working relationship among the sponsors and other partners with an interest in information integrity and information systems governance, control and assurance. The Centre invites and welcomes new partners to share in its mission.
Director’s Message

Centre for Information Integrity and Information Systems Assurance

To the Board of Directors:

I am pleased to present this report on the operations and activities of the University of Waterloo Centre for Information Integrity and Information Systems Assurance during 2011, our fourteenth year of operation.

This year marks the fourth year in a renewed five-year funding commitment by the Centre’s sponsors for the period 2008-2012, inclusive. The highlight of the year was our very successful Seventh Biennial Research Symposium on Information Integrity and Information Systems Assurance. We video and audio taped the event and have posted extracts on the UWCISA website. We received a record number of submissions from both practitioners and academics. The program is detailed in the report and is available on our Website.

During the year, we continued our thought leadership role through service on the CICA’s Information Technology Advisory Committee (ITAC), the Trust Services/Data Level Assurance Task Force of the AICPA, and both the International Assurance and International Academic Committees of XBRL. We also continued our research activities related to information integrity, IT governance, online privacy, XBRL and data level assurance and presented our research at a number of conferences as detailed in the report. During the year, we saw a number of publications result from these efforts as detailed in this report. Our work in progress includes projects addressing IT governance, IT controls, online privacy, XBRL, information integrity, business process documentation, and data level assurance.

We have begun to work with centres with similar purposes to create an international network for mutual support of our respective missions. We are also expanding our relationship with the Institute of Internal Auditors (IIA). We continue to welcome new partners to share in our mission. I thank the Centre’s Board Members and founding sponsors for their continued support. I look forward to working closely with all of you in future.

Respectfully,

J.E. Boritz, PhD, FCA, CA•CISA, CA•IT
Director
Operations and Activities for 2011

**HOSTING THE CENTRE’S WEBSITE AND IS ASSURANCE WEBLOG**

UWCISA’s website, accounting.uwaterloo.ca/uwcisa, serves as the Centre’s ISA Portal. It includes calls for papers and research proposals, a resources section, a number of links and downloadable files, and the IS Assurance blog.

Gerald Trites continues to maintain our blog at uwcisa-assurance.blogspot.com. Our website, through Theophanis Stratopoulos’ initiative, hosts part of the LinkedIn network. This social network gives us an opportunity to share information (like the flyer for the Symposium) with people who would not normally be closely tied to our Centre. During the coming year we will explore the use of other social networks, such as Twitter, Facebook and others.

UWCISA’s Annual Reports are posted to the website and summarize the Centre’s year-by-year activities. These reports are disseminated both electronically and in hardcopy formats.

For the second year, articles in ISACA’s Toronto Chapter Newsletter have been used to communicate UWCISA’s activities to Chapter members.

**FUNDING AND SUPPORTING CURRENT AND FUTURE ACTIVITIES**

UWCISA’s funding comes from operating grants provided by our generous sponsors, research grants from various agencies and publication revenues. UWCISA is exploring new fundraising options to help the Centre establish a full-time staff to conduct its research, education and outreach activities on a long term, sustainable basis.

We welcome new partners to help us achieve the Centre’s mission.

**ALLIANCES AND RELATIONSHIPS**

As part of its mission to interact with academe and practice, the Centre seeks to create and sustain relationships with academic units with similar objectives and professional associations with an interest in information integrity and information systems assurance.

During the year, the Centre supported the following activities:

- As a representative of the Institute of Internal Auditors (IIA), Colin Shaw has joined UWCISA Board meetings as an observer in order to help develop the relationship between the Centre and IIA.
- The Director continued to participate on the CICA’s Information Technology Advisory Committee (ITAC).
- The Director served on both the Assurance and Academic Committees of XBRL International.
- The Director was a member of the 23rd XBRL International Conference organizing committee and along with Ami Beers, AICPA, co-chaired the Assurance track in Montréal, October 25-27, 2011.
- The Director is a member of the AICPA Trust Services/Data Integrity Task Force. The group has completed a guideline for providing assurance on Security, Availability, Processing Integrity, Confidentiality or Privacy; like a SAS 70/SSAE16 but for non-financial reporting systems. The group is also working on principles and criteria for data integrity assurance.
- We continued to work with academic units with similar purposes to create an international network for mutual support of our respective missions.

Robert Parker’s environmental scans for 2010 and 2011 are posted on the Centre’s website and are available at accounting.uwaterloo.ca/uwcisa/resources/videos.htm.
“THOUGHT LEADERSHIP”

The Centre provided thought leadership in several areas during 2011. Copies of working papers are available on the UWCISA’s website.

INFORMATION MANAGEMENT & TECHNOLOGY ADVISORY COMMITTEE

Malik Datardina, a Research Fellow of the Centre, provides support for CICA’s IMTAC (Information Management & Technology Advisory Committee). The Director is a member of IMTAC. Information about IMTAC is available at: www.cica.ca/research-and-guidance/it-advisory-committee/index.aspx.

INFORMATION INTEGRITY

» The Director is a member of the AICPA’s data integrity task force. This Group is developing criteria for assessing and reporting on the integrity of data.

» The Director was a keynote speaker on Information Integrity at the 8th International Conference on Enterprise Systems, Accounting and Logistics (ICESAL) in Thassos Island, Greece, July 10-13, 2011.

» Information Integrity Control Guidelines. Project team is Efrim Boritz and Malik Datardina. Funding is being provided by CICA. Members of the project advisory board are: Chris Anderson, CA (NZ), CISA, CMC, CISSP, Grant Thornton LLP, Toronto, (Ontario); Usuff Curim, FCCA, CISA, CPA, PricewaterhouseCoopers, Toronto, (Ontario); Ray Henrickson, CA•IT/CISA, Scotiabank, Toronto, (Ontario); Darren James, ACA, CISA, Deloitte LLP, Toronto, (Ontario); Richard Livesley, BMO, Financial Group, Toronto, (Ontario); Madhavan Nayar, Infogix Inc., Naperville, (Illinois, USA); Sheryl A. Teed, FCA, CA•IT/CISA, CFE, Ernst & Young LLP, Toronto, (Ontario). The Project Director is Andrée Lavigne, CA, CICA, Montréal, (Québec). Research is in progress.

» Accounting Students Sensitivity to Attributes of Information. Research team is Efrim Boritz and Leslie Berger. Funded by SAP/CAAA grant. Paper presented at the American Accounting Association (AAA) IS section mid-year meeting in Charleston, SC, January 2009; the CAAA Annual Conference, June 2009; and the AAA annual meeting, August 2009. It is under revision at the AAA’s Journal Issues in Accounting Education.

IT & INFORMATION GOVERNANCE

Objective: 1) to define information governance and to identify risk and controls for mitigating those risks; 2) to define assurance practices for IT and information governance services; 3) interview or survey audit team members about their views on IT and information governance risks, controls and assurance practices. Research team is Jee-Hae Lim and Efrim Boritz.

» IT Control Weaknesses, IT Governance and Firm Performance. Paper presented at the AAA IS Conference in Redondo Beach, CA, January 2008 - winner of best paper award; and at the CAAA Conference in Winnipeg, May 2008. This work is being extended.

» Impact of Top Management’s IT Knowledge and IT Governance Mechanisms on Financial Performance. This paper is being revised for publication.

» Are there Consequences for Executives who Permit Material Weaknesses in Financial Reporting Systems? Received SSHRC Grant for 2010-2013.
IT RISKS AND INTERNAL CONTROL

Objective: 1) to describe IT risks and controls for mitigating those risks; 2) to define assurance practices for IT control related services; 3) interview or survey audit team members about their views on IT risks, controls and assurance practices. Research team is Efrim Boritz, Jee-Hae Lim and Louise Hayes.

» A Content Analysis of Auditors’ Reports on IT Internal Control Weaknesses. The comparative advantages of an automated approach to IT control weakness identification. Paper presented at the UWCISA Symposium October 2009; the AAA IS section mid-year meeting in Clearwater, FL, January 2010; the European Accounting Association Annual Conference, May 2010; the CAAA Annual Conference May 2010; and the AAA Annual Conference, August 2010. This paper is forthcoming in 2012 in the International Journal of Accounting Information Systems.

» On IT Control Weaknesses in Auditors’ Reports on Internal Control. Paper presented at the AAA-IS mid-year meeting in Clearwater, FL, January 2010; the European Accounting Association Conference in Istanbul, May 2010; the CAAA Annual Conference in Vancouver, May 2010; and the AAA Conference in San Francisco, July 2010. This paper has been accepted for presentation at the CAAA Annual Conference in Charlottetown, PEI, May 31-June 3, 2012.

ONLINE PRIVACY

Objective: 1) to describe online privacy risks and controls for mitigating those risks; 2) to define assurance practices for online privacy services; 3) interview or survey various stakeholders and audit team members about their views on online privacy risks, controls and assurance practices.

» The Effect of Involvement and Privacy Policy Disclosure on Individuals’ Privacy Behaviour. Research team is Efrim Boritz, Won Gyun No, Iowa State University, and R.P. Sundarraj, Indian Institute of Technology Madras. Paper presented at the AAA IS section mid-year meeting in Redondo Beach, CA, January 2008. This paper is being revised.

» An Exploratory Study of Country Level and Industry Level Differences in Privacy Policies. Research team is Efrim Boritz, Won Gyun No, Iowa State University, and R.P. Sundarraj, Indian Institute of Technology Madras. Paper presented at the AAA IS section mid-year meeting in Redondo Beach, CA, January 2008. Nominated for best paper award. This paper is being revised.


» Privacy in Shared Screen Environments. Research team is Mark Hancock, Arezoo Irannejad, and Efrim Boritz, University of Waterloo. Work in progress.

» Internet Privacy: Framework, Review and Opportunities for Future Research. Research team is Won Gyun No, Iowa State University and Efrim Boritz. This paper was published in the fall 2011 issue of the AAA’s Journal of Information Systems.
XBRL/XARL

Objective: 1) to define XBRL-related risks and controls for mitigating those risks; 2) to define assurance practices for XBRL-tagged information; 3) interview or survey various stakeholders and audit team members about their views on XBRL-related risks, controls and assurance practices.

» The Director was invited to participate on the panel “Using XBRL Data in the Financial Audit” at the 5th University of Kansas International Conference on XBRL, April 28-30, 2011.

» The Director was a member of the 23rd XBRL International Conference organizing committee and along with Ami Beers, ACICPA, co-chaired the Assurance track in Montréal, October 25-27, 2011.

» The Director is serving on the AICPA task force to update Trust Services principles and criteria.

» Whatever Happened to WebTrust and SysTrust? Research team is Efrim Boritz and Louise Hayes. The purpose of this project is to produce a paper summarizing the current status of these assurance services. A review of literature and a structured interview guide have been prepared to use in gathering data for the paper. To be completed in 2012.

SYSTRUST

Objective: 1) to define information integrity and to identify risks and controls for mitigating those risks; 2) to define assurance practices for information integrity services; 3) interview or survey various stakeholders and audit team members about their views on information integrity risks, controls and assurance practices.

» He will be a member of the scientific committee for the 24th World Continuous Auditing and Reporting Symposium “Continuous Auditing and XBRL Coming of Age” in Malatya, Turkey, May 3-4, 2012.

» Data Quality for XBRL. Research team is Efrim Boritz and Hans Verkruysse, Ernst & Young NL, Rotterdam, Netherlands. This paper was presented at the 22nd XBRL International Conference in Brussels, May 17-19, 2011.

» Computer-Assisted Tools for Auditing XBRL-Related Documents. Research team is Efrim Boritz and Won Gyun No, Iowa State University. This paper was presented at the AAA mid-year meeting in Charleston, SC, January 2009; the XBRL International Conference in Paris, June 2009; the UWCISA Symposium, October 2009; and the 5th University of Kansas International Conference on XBRL, April 28-30, 2011. It is being revised for journal submission.
DATA LEVEL ASSURANCE

Objective: 1) to define data level assurance; 2) to define practices for data level assurance services. This topic area is closely related to information integrity and XBRL. Work is in progress.

CONTINUOUS REPORTING, MONITORING AND ASSURANCE

Objective: 1) to identify risks associated with continuous reporting, monitoring and assurance, and controls for mitigating those risks; 2) to define assurance practices for continuous reporting and assurance services; 3) interview or survey various stakeholders and audit team members about their views on continuous reporting and monitoring risks, controls and assurance practices.

- The Director organized a panel on “Continuous Reporting” at the Canadian Conference on IT Audit, Governance and Security, co-sponsored by the CICA and the Toronto Chapters of IIA and ISACA in Toronto, March 30-31, 2011.

- Continuous Monitoring and Assurance. Research team is Malik Datardina and Efrim Boritz. A report was produced with funding from CaseWare IDEA Inc. This report will be updated in 2012.

DOCUMENTING BEST PRACTICES

BUSINESS MODEL AND BUSINESS PROCESS DOCUMENTATION

Objective: 1) to summarize approaches to representing entity business models using diagrams for enhanced business risk analysis; 2) interview partners of major firms about how such diagrams could be used for risk assessment; 3) create hypotheses for testing findings in an experimental setting and submit for additional funding consideration to support such testing. Research team is Efrim Boritz, Carla Carnaghan, University of Lethbridge, Paulo Alencar, Computer Systems Group, University of Waterloo. Funding for this project is provided by the KPMG/University of Illinois Business Measurement Program.

- Approaches to Documenting Business Models. Presented at the ASAC Annual Conference May 2008; the ISAR Conference, May 2008; the CAAA annual meeting, June 2008; and the AAA annual meeting, August 2008. A paper is being revised for publication.

Objective: 1) to summarize approaches to documenting business processes for risk assessment and control purposes; 2) create an illustrative case based on practice; 3) interview audit team members about their views on alternative presentation. The research team is Efrim Boritz, Faye Borthick, Georgia State University and Adam Presslee, University of Waterloo. Funding for this project was provided by the CAAA/Deloitte Research Fund.

- The Effects of Business Process Representation Type on the Assessment of Business and Control Risk: Diagrams Versus Narratives. This paper was presented at the AAA IS section mid-year meeting in Atlanta, GA, January 4-6, 2011; and the College of Management Studies in Tel Aviv, Israel, November 17, 2011. It is forthcoming in 2012 in Issues in Accounting Education.

- A new version of the paper with more experienced participants will be included in a Research Roundtable session at the AAA Auditing section mid-year meeting in Savannah, GA, January 13-14, 2012; has been accepted for presentation at the CAAA Annual Conference in Charlottetown, PEI, May 31-June 3, 2012; and the AAA annual meeting in Washington, DC, August 4-8, 2012.
SPONSORING RESEARCH SYMPOSIA, CONFERENCES WORKSHOPS

INFORMATION INTEGRITY AND INFORMATION SYSTEMS ASSURANCE SYMPOSIUM

The 7th Biennial Research Symposium was held October 20-22, 2011 at the Renaissance Hotel, Blue Jays Way, Toronto, Canada. The symposium was sponsored by the University of Waterloo, the Canadian Institute of Chartered Accountants, CaseWare IDEA Inc., ISACA Toronto Chapter, and the International Journal of Accounting Information Systems.

PROGRAM

» THURSDAY, OCTOBER 20, 2011

Opening Reception, Renaissance Hotel

RESEARCH REPORTS FROM WATERLOO (POSTER SESSION)

» Risk Management as a Strategic Governance Mechanism in IT-Enabled Transnational Supply Chains
  Presenter: Clark Hampton

» What do Auditor’s Reports on Internal Control Tell Us about IT Control Weaknesses in Financial Reporting Systems?
  Presenter: Louise Hayes

» SOX 404: The Role of the Chief Information Officer
  Presenter: Jee-Hae Lim

» The Effects of Business Process Representation Type on the Assessment of Business and Control Risk: Diagrams versus Narratives
  Presenter: Adam Presslee

» Reciprocity Between Senior IT Executives and IT Capable Firms
  Presenter: Theophanis Stratopoulos

» Firm-Specific Characteristics of the SEC’s XBRL Voluntary Filing Program Participants
  Presenter: Lev Timoshenko

» FRIDAY, OCTOBER 21, 2011

OPENING REMARKS

William Swirsky, Chair, UWCISA
Andreas Nicolaou, Editor, International Journal of Accounting Information Systems

KEYNOTE PRESENTATION

Information Systems Assurance Practices in China: Where they are and where they are going?
Moderator: Efrim Boritz, UWCISA
Presenter: Philip Yang, Partner PricewaterhouseCoopers Beijing, China

On IT Governance Structures and their Effectiveness in Collaborative Organizational Structures
Moderator: William Swirsky, UWCISA
Presenter: Acklesh Prasad, University of the South Pacific; Peter Green, and Jon Heales*, University of Queensland
Discussants: Kevin Kobelsky, University of Michigan – Dearborn; Jerry Gaertner, Soberman

IT Governance Drivers of Process Maturity
Moderator: William Swirsky
Presenters: Roger Debreceny*, University of Hawaii at Mānoa; and Glen Gray, California State University at Northridge
Discussants: Uday Murthy, University of South Florida; Joseph Braithwaite, Deloitte
The Impact of SOX Information Technology Material Weaknesses on Corporate Governance: Evidence from CEO, CFO and BOD Turnover and Changes in IT Knowledge
Moderator: William Swirsky
Presenters: Jacob Z. Haislip*, Adi Masli, Vernon J. Richardson, and Juan Manuel Sanchez, University of Arkansas
Discussants: Elaine Mauldin, University of Missouri; Baskaran Rajamani, Deloitte

The Relationship between Internal Audit and Information Security: An Exploratory Investigation
Moderator: William Swirsky
Presenters: Paul John Steinbart*, Arizona State University; Robyn L. Raschke, University of Nevada, Las Vegas; Graham Gal, University of Massachusetts; and William N. Dilla, Iowa State University
Discussants: Severin Grabski, Michigan State University; Ann Marie Yamamoto, PricewaterhouseCoopers

Panel on Cloud Computing
Moderator: Gary Baker, UWCISA
Presenters: Malik Datardina, UWCISA; Richard Livesley, BMO; Barnaby Jeans, VMware; Clinton (Skip) White, University of Delaware; Chris Anderson, Grant Thornton

Identifying Value-Added Roles for Internal Auditors in Green IT Activities
Moderator: Bob Cuthbertson, CaseWare IDEA Inc.
Presenters: Glen L. Gray*, California State University at Northridge; Won Gyun No*, Iowa State University; and David W. Miller, California State University at Northridge
Discussants: Urton Anderson, University of Texas – Austin; Henry Grunberg, Ernst & Young

Model-Based Auditing Using REA
Moderator: Bob Cuthbertson
Presenters: Dr. Hans Weigand*, Tilburg University; and Philip Elsas, ComputationalAuditing.com
Discussants: Guido Geerts, University of Delaware; Eckhardt Kriel, EK & Associates

* indicates presenting author
The Antecedents of Internal Auditors’ Adoption of Continuous Auditing Technology: Exploring UTAUT in an Organization Context

**Moderator:** Bob Cuthbertson

**Presenters:** George C. Gonzalez, Pratyush N. Sharma*, and Dennis F. Galletta, University of Pittsburgh

**Discussants:** Mary Curtis, University of North Texas; Ray Henrickson, Bank of Nova Scotia

The Acceptance and Adoption of Continuous Auditing by Internal Auditors: A Micro Analysis

**Moderator:** Bob Cuthbertson

**Presenters:** Miklos A. Varsahelyi, Michael Alles, Siripan Kuenkaikaev*, Rutgers Business School; and James Littley, KPMG

**Discussants:** Douglas Havelka, Miami University; Denease Prinold, KPMG

A special issue of the International Journal of Accounting Information Systems will be published in 2012, containing selected papers from UWCISA’s 2011 Symposium.

---

DEVELOPING COURSES, CASES, AND OTHER TEACHING MATERIAL

A review of literature and a structured interview guide were prepared to use in gathering data for the paper “Whatever happened to WebTrust and SysTrust? ” To be completed in 2012.

BUSINESS RISK ASSESSMENT

e-Vision case. Spearheaded by Theo Stratopoulos, a case was created on risk assessment in a software development company. It is being revised for publication.

OPERATING THE LEARNING CENTRE

UWCISA is considering professional development courses in aspects of advanced technologies for assurance professionals.

In 2011 the Centre sold 200 copies of the 15th edition of its long-running publication, *Computer Control and Audit Guide (CCAG)* which is revised every other year to keep it current.

SHARING MATERIAL WITH OTHER EDUCATORS

The UWCISA website contains a variety of materials from various Centre-supported initiatives including research papers, reports, videos, and podcasts. These materials are available for use by academics and practitioners.
Future Plans

In the next twelve months, UWCISA will maintain its current activities in research, education and communication, and will undertake new initiatives as well. Plans for each key category are outlined below.

HOSTING THE CENTRE’S WEBSITE AND IS ASSURANCE WEBLOG

» Robert Parker will provide an environmental scan for 2012 that will be posted on the UWCISA website in summer of 2012.

» Gerald Trites will continue to manage the IS Assurance blog on behalf of the UWCISA.

» LinkedIn Network will continue to be used. We will also explore the use of social networks such as Twitter and Facebook in the coming year.

» UWCISA plans to continue to improve the site in 2012. Your comments are welcome

FUNDING AND SUPPORTING CURRENT AND FUTURE ACTIVITIES

UWCISA’s fundraising committee will continue seeking ways to expand the funding base for the Centre. We invite partners to join us in our mission to improve the integrity of information and the quality and reliability of information systems and the processes used to create, implement, operate, maintain and change them.

ALLIANCES AND RELATIONSHIPS

As part of its mission to interact with academe and practice, the Centre seeks to create and sustain relationships with academic units with similar objectives and professional associations with an interest in information integrity and information systems assurance. In the coming year we will continue our outreach to academic and professional units with similar goals and objectives to develop an international network for mutual support.

“THOUGHT LEADERSHIP”

UWCISA will continue working on the following projects during 2012:

» Information Integrity. One monograph on this topic is being prepared for publication, one paper will be completed and a new project will be started.

» IT and Information Governance. Two papers on this topic are being groomed for publication.

» IT Risks and Internal Control. Two papers on this topic will be completed.

» Online Privacy. Four papers on this topic are being prepared for publication.

» XBRL. Three papers on this topic will be presented at various conferences and prepared for publication.

» Trust Services. One paper on this topic will be completed.

» Data Level Assurance. One paper on this topic will be completed.

» Business Process Documentation. Two papers on this topic will be completed.

» Business Model Documentation. Two papers on this topic will be completed.

SPONSORING RESEARCH SYMPOSIA, CONFERENCES, WORKSHOPS

CONFERENCES AND WORKSHOPS

UWCISA will organize an updated workshop on computer-assisted auditing techniques for XBRL in 2012.

Visit accounting.uwaterloo.ca/uwcisa for information about upcoming conferences and workshops.
DOCUMENTING BEST PRACTICES

UWCISA will complete the projects in progress as previously described. In particular, UWCISA will complete or begin the following research projects during 2012:

- Alternative ways of representing business models and business processes for use by auditors.
- A project on Information Integrity Control Guidelines.
- System Reliability. How it is currently being addressed and prospects for the future.
- Continuous Reporting, Monitoring and Assurance. We will update our report on this topic.

FUNDING SPECIFIC RESEARCH AND EDUCATION PROJECTS

RESEARCH PROPOSALS
For Research Proposal Guidelines, visit arts.uwaterloo.ca/ACCT/uwcisa.

FELLOWSHIPS AND SCHOLARSHIPS
UWCISA will make funds available for Visiting Fellows and doctoral students. For details, contact the Director.

DEVELOPING COURSES, CASES AND OTHER TEACHING MATERIAL

COMPUTER-ASSISTED AUDITING TECHNIQUES
Malik Datardina and Efrim Boritz plan to update their paper on CAATs In the Classroom which is available on the Centre’s website.

INFORMATION INTEGRITY

The Centre plans to offer a Workshop on Information Integrity and Information Integrity Controls.

XBRL
The Centre has developed a Workshop on XBRL for preparers. During 2012 a Workshop for auditors will be offered.

CASES
UWCISA plans to host a Case Development workshop for faculty teaching IS Assurance courses with the assistance of ISACA’s Toronto Chapter.

The Centre plans to develop the following cases during 2012.

- Software Risk Assessment
- CAATs: System testing vs. Data testing
- Assessing the Segregation of Incompatible Functions
- Business Process Documentation
- Business Model Documentation

COMPUTER CONTROL AND AUDIT GUIDE
This publication will be updated in the fourth quarter of 2012.

OPERATING THE LEARNING CENTRE

UWCISA will continue developing its suite of online courses, focusing on short “self-serve” professional development courses for practitioners.

SHARING MATERIAL WITH OTHER EDUCATORS
The Centre will continue to share its material with educators around the world. For information, please visit our website or contact the Director.
Centre Personnel

J. Efrim Boritz
PhD, FCA, CA•CISA, CA•IT
Director

Gary Baker
CA, CGEIT
Research Fellow

Leslie Berger
PhD, CA, CPA
Research Associate

Darren Charters
JD, MBA
Professor

Malik Datardina
MAcc, CA, CISA
Research Fellow

Louise Hayes
BSc, MBA, CA
Research Fellow

Jee-Hae Lim
PhD
Professor

Won Gyun No, Iowa State University
PhD
Research Associate

Theophanis Stratopoulos
PhD
Professor

R.P. Sunderraj
PhD
Research Associate

Lev Timoshenko
BBA, BSc, CGA
Research Fellow

Gerald Trites
FCA, CA•IT/CISA
Research Fellow

Ann Bisch
Administrative Assistant

Lia Boritz
Webmaster
The University of Waterloo Centre for Information Integrity and Information Systems Assurance gratefully acknowledges the generous support of our founding partners and sponsors.

accounting.uwaterloo.ca/uwcisa

Centre for Information Integrity and Information Systems Assurance

The University of Waterloo Centre for Information Integrity and Information Systems Assurance gratefully acknowledges the generous support of our founding partners and sponsors.