UWCISA is an administrative sub-unit within the Centre for Accounting Education and Research (CARE) at the University of Waterloo. UWCISA was established in 1998 by three founding sponsors: the UW School of Accountancy, the Canadian Institute of Chartered Accountants, and the Information Systems Audit and Control Association. The sponsors’ objective was to improve the quality of education, dialogue between practitioners and academics, use in practice, and research in information systems assurance, governance and control, and to foster a continuing, close working relationship among the founding sponsors and other partners with an interest in information systems assurance, governance and control. The Centre invites and welcomes new partners to share in its mission.

Mission Statement

The University of Waterloo Centre for Information Systems Assurance (UWCISA) seeks to identify, create and deliver relevant research addressing 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 systems governance, control and assurance issues that are important to professionals working in these areas; and to support and promote interaction around those issues among practitioners, educators and students.

Information systems assurance involves review, evaluation and reporting on the quality of information systems and the information they produce, and the processes used to develop, operate, manage and control these systems. Assurance services include objective assessments of: information systems risks, strengths and weaknesses in information systems controls, compliance with management policies and standards, the efficiency and effectiveness of information systems development activities and operations; and other assessments designed to provide assurance about information systems and the information they produce to a variety of stakeholders.
To the Board of Directors:

I am pleased to present this Five Year Report on the operations and activities of the University of Waterloo Centre for Information Systems Assurance (UWCISA).

The establishment of UWCISA in 1998 with a broad, demanding mandate to support the growth and development of the information systems assurance (ISA) field came about through the inspiration, vision and leadership of the Toronto chapter of the Information Systems Audit and Control Association (ISACA) and through the support and encouragement of the Canadian Institute of Chartered Accountants, the international headquarters of ISACA, and the University of Waterloo School of Accountancy, which provided a university-based home for the Centre.

The last five years have seen a dynamic evolution of the Centre and the attainment of many objectives. With only modest funding, we have accomplished a great deal. The Centre has held top-flight research and education symposia, conferences and workshops. It has sponsored well-recognized publications, and it has emerged as a significant thought leader in the ISA field.

While these activities and accomplishments, summarized in this report, give us much to be proud of, we must achieve even more in the future. Recently revised terms of reference for the next five years give the Centre a renewed focus on its mission, objectives and priorities. We are now working on an expanded fundraising program to raise our capabilities and human resources to a higher level, so that we can extend our services to the ISA community.

With its track record of success, the Centre is now poised to become a major focal point for new developments in the ISA field. This report outlines our future plans and initiatives – including an online Learning Centre offering courses in key ISA topics. I welcome and invite new participants and partners to share in UWCISA’s exciting future.

I also thank our Board Members and founding sponsors for their continued support. I look forward to working closely with all of you as we embark on the next five years of academic and professional accomplishment.

Respectfully,

J.E. Boritz, PhD, FCA, CA•CISA, CA•IT

Director
From its inception, UWCISA has sought to provide thought leadership in ISA by organizing periodic meetings or think-tanks of senior information assurance practitioners. These meetings, normally one-half day in length, involve professional services firms, industry, government and leading academics in the ISA field. The format and purpose is that of an open, free-flowing forum, with discussion centred on important developments in the field. In addition to addressing the need for dialogue on current issues, such sessions help populate the Centre’s best practices database.

During the period covered in this Report, the Director maintained active membership on the AICPA/CICA Systems Reliability/Trust Services Task Forces. The Centre started fulfilling its mandate in thought leadership by organizing a panel of experts to consider ISA issues as part of UWCISA’s first Research Symposium, held at Toronto in fall 1999. This initial think tank focused on SysTrust Principles and Criteria. Discussion at this event led the AICPA/CICA SysTrust Task Force to make important changes in its next version of the SysTrust Principles and Criteria.

In 2000, the Centre began work on assurance implications of information transmitted over the Internet and, in particular, the assurance implications of XBRL (Extensible Business Reporting Language). This led to the development of XARL (Extensible Assurance Reporting Language), presented at the International Conference on “XBRL Taxonomies: Current Issues and Future Directions,” held at the University of Kansas in October 2001, and at the XBRL Annual Conference in Toronto in June 2002. This work was published in 2003 as a chapter in a research monograph funded by PricewaterhouseCoopers and edited by Saeed Rohani. The monograph is entitled “Trust and Data Assurances in Capital Markets: The Role of Technology Solutions.”

Also in 2000, the Director became a member of the CICA Committee working on an Information Technology Specialist designation that ultimately led to the creation of the CICA-designated IT specialty identified as CA•IT. Currently, the Director is a member of the successor body to that committee, the Board of the IT Alliance, and co-chair of its education committee. Since 2001 the Director has served on an ISACA-sponsored model curriculum task force.

In 2001 the Centre supported research on systems reliability assurance by funding a study by Efrim Boritz and James Hunton of the University of South Florida on the impact of auditor-provided systems reliability assurance on potential service recipients. This work was published in the Journal of Information Systems. Also in 2001 the Centre upheld its mandate for holding think-tank sessions by organizing a panel of experts to consider e-privacy issues as part of its second Research Symposium, held in the fall of that year.

In 2002 the Centre began work on a framework for information integrity with funding provided by ISACA. Part of this work involves holding think tank workshops on information integrity in Toronto and Chicago.
SPONSORING RESEARCH SYMPOSIUMS

The Centre sponsors a bi-annual research symposium with a focus on academic and practitioner views on the current state of IS assurance. ISA models such as the CobiT model for IT governance and control, SysTrust, WebTrust and other key frameworks are highlighted and promoted within this event. The gathering offers opportunities for presentations on research and education topics plus debate and discussion. The Centre undertakes to have the research papers published in academic journals in the field: The Journal of Information Systems (from 1999 to 2001) and The International Journal of Accounting Information Systems (since 2002). All other presentations are summarized in CICA or ISACA publications, or are posted to the Centre’s ISA Portal.

1999 Research Symposium

The Centre and the IS section of the American Accounting Association, plus CICA and ISACA, co-sponsored the first ISA Research Symposium, which was held at the CISA offices in Toronto in October 1999. The Centre issued a call for papers in relevant newsgroups and newsletters, and worked with the AAA to publicize the event and attract quality submissions. The event brought together more than 60 academics and practitioners from across North America, and set the standard for symposia that would follow. Sessions are outlined at right. The Journal of Information Systems produced a special issue for the proceedings.

1999 RESEARCH SYMPOSIUM SESSIONS

- **AICPA/CICA SysTrust Principles and Criteria**
  - **Presenter:** Doug McPhie, Partner and National Director of Information Systems Assurance and Advisory Services, Ernst & Young; Chair of SysTrust Task Force. **Discussant:** Andrew Bailey, Jr., U. of Illinois

- **Control Frameworks for Assurance Services**
  1. **ISACF Control Objectives for Information Technology (CobiT).**
     - **Presenter:** John Lainhart, Partner, PricewaterhouseCoopers; Member, CobiT Steering Committee.
     - **(2) CICA Information Technology Control Guidelines (ITCG).**
     - **Presenter:** Gerald Trites, St. Francis Xavier U.; Chair, ITCG Steering Committee; **Discussant:** James Hunton, University of South Florida

- **Information Technology-Related Activities of Internal Auditors.**
  - **Authors:** Dana Hermanson, Mary Callahan Hill, Kennesaw State U.; Daniel M. Ivancevich, U. of Tampa. **Discussants:** Cynthia Jackson, Northeastern U.; Richard Burton, Director of Internal Audit, McCain Foods

- **An Analysis of the Market for Systems Reliability Assurance Services.**
  - **Authors:** Vicky Arnold, James Lampe, John Masselli, Steve Sutton, Texas Tech U. **Discussants:** Susan McCracken, U. of Toronto; Leon Bloom, Partner, Deloitte & Touche

- **An Analysis of the Group Dynamics Surrounding Internal Control Assessment in IS Audit and Assurance Domains.**
  - **Authors:** Ed O’Donnell, Arizona State U.; Steve Sutton, Texas Tech U. **Discussants:** Carla Carnaghan, U. of Waterloo; Tim Leech, CARD® decisions, Inc.

- **Analysis of Design from a Community of Practice Dialogue: Negotiating the Meaning of Auditing Information Systems Development.**
  - **Author:** Fay Borthick, Georgia State U. **Discussants:** Gary Holstrum, U. of South Florida; Brian Leader, Director of Education, ICAO

- **Information Systems Risks and Assurance Requirements (Panel/Forum).**
  - **Panelists:** Jim Haw, Vice-president, Systems Security & Standards, Mackenzie Financial; Ray Henrichson, Vice-president Internal Audit, CIBC; Spence Latimer, Director, Internal Audit, Rogers Communications Inc.; Keith Rose, Vice-president, Regulatory Policy, Investment Dealers Association; Rick Wood, Partner, Grant Thornton; Bob Widdowson, Partner, KPMG
2001 Research Symposium

The Centre’s second Research Symposium, held in Toronto from October 4 to 6, 2001, had E-commerce and Information Systems Assurance as its theme. Sessions are outlined at right. The symposium included four research presentations later published in the Journal of Information Systems.

2003 Research Symposium

In 2002 the Centre sent out a call for papers for its third Research Symposium, to be held in October 2003 on the theme of “Governance, Transparency and Integrity: The Role of Information Technology.” Proceedings will appear in the International Journal of Accounting Information Systems.
DOCUMENTING BEST PRACTICES

The Centre seeks to gather data relating to best practices in various areas of interest. Data is collected primarily through surveys and by hosting think tank sessions and the bi-annual ISA Research Symposium. This work benefits both practitioners and academics. In addition, the Centre is working towards organizing a “benchmarking” facility allowing practitioners to contribute to, and retrieve data from, a database housed on the Centre’s ISA Portal. As well, the Centre will conduct an annual survey of academics and practitioners to develop a database of trends in ISA practices and outlooks. CICA and ISACA will assist in distributing this survey to their members.

The Centre has taken an active role in developing standards for reliable systems and related services such as WebTrust and SysTrust. In 2002 the Centre won approval of two projects: one on Information Integrity in the Information Era, to be completed during 2002-03 and funded by ISACA; the other on A Secure E-Business Infrastructure, to be completed during 2003 and funded by CICA.

FELLOWSHIPS AND SCHOLARSHIPS

The Centre offers Fellowships and Scholarships to outstanding candidates who desire an opportunity to participate in the Centre’s ISA research activities and whose scholarly contributions will advance the Centre’s mission. For details, contact the Director.

Fellowships

John H. Kearns (MBA, FCA, CISA, CMC) was appointed the Centre’s first Fellow. Formerly director of Ernst & Young’s Information Systems Audit Practice and chair of its International Information Systems Audit Committee, John helped deliver the University of Waterloo School of Accountancy’s information system control and audit course, and advised on course revisions. He also produced two papers, “Assurance Reporting in Service Organizations” and “A Survey of Auditors’ Reports on Service Organizations,” which were later incorporated into Computer Control and Audit Guide, and published an article on Y2K in the Globe and Mail (7 March 1998).

In 2002 the Centre began hosting Malik Datardina (MAcc, CA•CISA) as a Visiting Fellow for a two-year period. He is involved in developing the Centre’s online education delivery capabilities and a variety of research projects. His paper “Bubbles Burst: A History of Investment Bubbles” will appear in the proceedings of the 2003 conference of the Administrative Sciences Association of Canada.

Scholarships

In 2000 the Centre awarded its first research scholarships to two University of Waterloo graduate students: Mr. Won No (pictured at right), for audit applications of XBRL (Extensible Business Reporting Language); and Ms. Min Qian for a project on SysTrust.
**FUNDING RESEARCH PROJECTS**

The Centre undertakes and sponsors ISA research projects with other organizations, professional groups or firms. It publishes calls for research proposals addressing ISA topics of interest to academics and practitioners, and constructs surveys to collect information about trends and services being performed. Projects larger in scope than brief surveys of trends are performed by vendors on the Centre’s behalf.

The Centre has posted a Call for ISA Research Proposals on its website, with the aim of attracting submissions from both academics and practitioners. *See page 17 of this Report.*

**CENTRE RESEARCH PUBLICATIONS**

The Centre’s commitment to advancing research and education in the ISA field is also expressed in a traditional academic form, namely the publication of scholarly works by the Director and colleagues.

During the 1998-2002 period, the Centre produced the publications listed below.

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**PUBLICATIONS**


EDUCATION

The Centre undertakes and sponsors ISA education initiatives with other organizations, professional groups or firms. These initiatives include development and sharing of cases and other teaching materials, and holding periodic conferences or workshops on ISA education topics. The Centre, through its ISA Portal, promotes the development and availability of such materials to students, educators and practitioners. The Portal provides access to cases and other materials as they become available.

DEVELOPING COURSES, CASES AND OTHER TEACHING MATERIAL

Because academics must deliver the best qualified and best prepared individuals into practice, cases dealing with ISA fulfil an important educational purpose. The Centre plans to sponsor a case writing competition periodically, in areas of concern to the broad ISA community.

In 1998 the Centre took its first steps in this area by producing a casebook based on CICA UFE cases for use in information system control and audit courses. The following year would see the Centre produce the tenth edition of Computer Control and Audit Guide (CCAG), a Centre-sponsored publication that is used by universities in Canada and the United States. This publication is updated every two years (most recently in 2003), and is available on the Centre’s portal. During the 1998-2002 period, copies of CCAG were purchased for use in courses at Canadore College, Erindale College, Laurentian University, McMaster University, Scarborough College, University of Toronto, University of Saskatchewan, University of Waterloo, York University, University of Tennessee, University of Mississippi and Oklahoma State University.

In both 1999 and 2000 the Centre updated cases used in a computer auditing course conducted by Efrim Boritz, Don Sheehy (Grant Thornton) and John Kearns (Ernst & Young). Students in this course participated in a hands-on workshop, offered by Grant Thornton, on computer-assisted auditing techniques with Caseware’s IDEA (Interactive Data Extraction and Analysis) software. The workshop team was led by Scott Shannon (MAcc ’90), a partner in the firm’s Hamilton, ON office.

With additional funding from CICA, the Centre developed an outline for an e-commerce course including concepts, implementation issues and controls. The course made its trial run at the University of Waterloo in Fall 1999 and has been offered annually since then.

Grant Thornton Workshop  Scott Shannon
In 2000 the Centre commissioned a paper by Elliott Gold of Ridout & Maybee on the key principles of Business Technology Law, with a view to developing it into a course. Then in Fall 2001 the Centre sponsored the creation and delivery of that course by Darren Charters.

During 2000-01 the Director wrote and revised three self-study courses for AICPA and CICA:


**2001 EDUCATION CONFERENCE**

In 2001 the Centre organized its first Education Conference. This event focused on ERP in the accounting curriculum, in partnership with the Institute of Chartered Accountants of Ontario and the Gordon H. Cowperthwaite Centre for Accounting Education. Speakers were Nancy Zowkewych (Centennial College), Julie Smith-David (Arizona State), Gerald Trites (St. Francis Xavier), and Clinton (Skip) White (University of Delaware). Educational materials were distributed to participants, who represented most Ontario universities. During the same year the Centre produced three educational videos – WebTrust on Trial, e-Privacy, and Information Integrity – all products of its second Research Symposium, held in Fall 2001. See this Report, page 17, for descriptions. Additionally, the Centre began creating online courses for people interested in pursuing a CA•CISA or CA•IT specialization.

The Centre produced studies and materials for IFAC’s Education Committee (EDCOM) in the period surveyed in this Report. In 1999 EDCOM commissioned a literature review by the Director and Carla Carnaghan on competency-based assessment for a study of IT competencies. This work provided input into IFAC’s Discussion Paper on the subject and led to the preparation of an article, “A Critical Review of Competency-Based Education” published in *Canadian Accounting Perspectives*, 2003. In 2001 the Director completed a project for EDCOM on identifying IT competencies for professional accountants and revising International Education Guideline 11, on *Information Technology for Professional Accountants*. This Guideline was published in January 2003.
SHARING MATERIAL WITH OTHER EDUCATORS

The Centre encourages the exchange of material and teaching methods among educators in the ISA field. The Centre seeks to make this material available for the general public through its ISA Portal. Among items produced and disseminated by the Centre every year is its Computer Control and Audit Guide, as noted above.

Starting in 1998, the Centre registered its Information System Audit course with the Accounting website sponsored by the American Accounting Association. In 1999 the Centre’s own website was updated to contain text, case materials and other items for courses on Computer Control and Audit, and on Electronic Commerce. The same year would see the Centre produce the tenth edition of Computer Control and Audit Guide (CCAG). The process of regularly revising and marketing this widely used reference continued through the period surveyed in this Report, as noted earlier. In 2002 the Centre distributed copies of its “WebTrust on Trial” video to universities across Ontario through the sponsorship of KPMG. See this Report, page 17, for video details.

INTERNATIONAL ACTIVITIES

The Centre accepts a responsibility for assisting colleagues from the international community. This entails receiving, considering and responding to inquiries from representatives of countries that are interested in developing IT and ISA programs for academics and practitioners.

In recent years, enquiries have been received from Brazil (Ministry of Finance), Pakistan (Institute of CAs) and China (National Accounting Institute). In 2002, the Centre won an international competition to develop a training program in ISA for the National Accounting Institute of China. The Centre’s proposal, involving a partnership with PricewaterhouseCoopers, is to develop an ISA course and training materials customized for practice in China. The project will be completed between September 2003 and April 2004.
COMMUNICATIONS / ISA PORTAL

Using its website www.arts.uwaterloo.ca/ACCT/uwcisa as an ISA Portal, the Centre continuously promotes all of its current, future and past activities. As open standard materials are collected or developed, they are also made available. As of 2003 the Centre is taking steps to link this site to other organizations around the globe that have ISA as a common goal, including the Centre’s sponsors. The Centre seeks to keep its sponsors, supporters and other interested parties informed of its activities and operations by means of an annual newsletter. In addition, Centre personnel regularly make presentations at conferences and other gatherings of academics and practitioners.

WEBSITE

Launched in 1998, the Centre’s website has attracted many visitors during its first five years of operation. The site, now evolving into an ISA Portal, includes calls for papers and research proposals, a discussion forum, a resources section, numerous downloadable, and other features. The site is updated continuously, and visitors wanting to be kept informed of the latest developments are notified automatically when new information is added. In 2002 the website added reciprocal links with the Information Integrity Coalition and ISACA’s Toronto chapter. Information gathered for a Best Practices benchmarking database will also be housed on the site, allowing practitioners to contribute to, and to retrieve, information kept in the database. For a guide to the website, see page 9 of this Report.

NEWSLETTER

Starting in 1998 the Centre’s Annual Report has served as its newsletter. The present Five Year Report performs the same function for the year 2002. Reports are disseminated both electronically and in hardcopy. Among recipients every year are registered members of the Centre as well as participants in annual meetings of the American Accounting Association and the Canadian Academic Accounting Association.
PRESENTATIONS AT CONFERENCES

During the period covered in this Report, Centre personnel made numerous presentations at conferences and meetings of ISA academics and practitioners, as listed below.

PRESENTATIONS


In the next twelve months, the Centre will maintain its current activities and projects, and will undertake new initiatives in keeping with its mandates in education and research as well. Plans for each main category are outlined below.

**RESEARCH**

**THOUGHT LEADERSHIP ON INFORMATION SYSTEMS ASSURANCE**

The Centre will organize and promote its third bi-annual Research Symposium and accompanying Education Conference, both scheduled for Toronto in Fall 2003. The Symposium is titled “Governance, Transparency and Integrity: The Role of Information Technology,” and will include presentations on IT governance, information integrity, questions a board should ask about IT, and Sys Trust/Web Trust. The third bi-annual Education Conference, immediately preceding the Symposium, will focus on Business Information Technology (BIT). See page 15 of this Report for details.

**DOCUMENTING BEST PRACTICES**

The Centre will conduct a project on A Secure E-business Infrastructure under a CICA grant.

**FUNDING SPECIFIC RESEARCH PROJECTS**

Academics and practitioners are invited to submit proposals for research projects on Information Systems Assurance. Funding of up to $10,000 Cdn is available per project. The Centre encourages proposals on Best Practices, IT Governance, Project Management, Privacy, Information Integrity, Virtual Organizations, Continuous Process Monitoring, IS Quality, Software Certification, Intellectual Property, or other areas of interest to the ISA community. For Research Proposal Guidelines, contact the Centre.

**SPONSORING CONFERENCES, SEMINARS, WORKSHOPS, ETC.**

Academics and practitioners are invited to submit papers on ISA topics for the 2005 Research Symposium. Papers should be at an advanced stage of completion and must conform to the style of the International Journal of Accounting Information Systems. See announcement, page 17 of this Report.

**EDUCATION**

**DEVELOPING COURSES, CASES, AND OTHER TEACHING MATERIAL**

The Centre will maintain its current ISA courses at the University of Waterloo, and will also develop and offer new ISA courses there: Business Technology Law (Winter 2003), System Reliability (Winter 2003) and IT Security (Fall 2003).
LEARNING CENTRE

In Fall 2003, UWCISA expects to launch a series of online courses (see chart below) designed to meet the needs of people interested in pursuing a CISA or BIT specialization. These courses, the first offerings of UWCISA’s Learning Centre, will be available through distance education (Internet, video conferencing and other modes). Courses cover IT assurance and computer-assisted auditing techniques, IT strategic planning, business process enablement and project management, enterprise IT architecture and configuration management, system reliability principles and controls, e-commerce, business technology law, and IT security. Advisory Board members for this initiative are Claxton Martyr, chair (KPMG), Gary Baker (Deloitte & Touche), Carolee Birchall (Bank of Montreal), Bob Darlington (CPR), John Fraser (Clarica), Doug Johnston (Royal Bank), Ian McKillop (Wilfrid Laurier University), Dan McPhee (PricewaterhouseCoopers), and Bill Swirsky (CICA).

COURSE STRUCTURE

<table>
<thead>
<tr>
<th>Pre-requisites</th>
<th>Common Core Courses</th>
<th>Information Systems Assurance Courses</th>
<th>Business Information Technology Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT User Skills</td>
<td>ACC 620 Enterprise IT Architecture and Configuration Management</td>
<td>ACC 624 IT Security</td>
<td>ACC 625 IT Strategic Planning</td>
</tr>
<tr>
<td>Intro to Business Systems</td>
<td>ACC 621 Systems Reliability Principles and Controls</td>
<td>ACC 626 a IT Assurance Services (1/2 course)</td>
<td>ACC 627 a Business Process Enablement (1/2 course)</td>
</tr>
<tr>
<td>System Acquisition, Development, Implementation and Maintenance</td>
<td>ACC 623 Business Technology Law</td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>Work experience</td>
<td>ACC 622 E-Commerce</td>
<td>ACC 629 a IS Assurance Project</td>
<td>ACC 629 b IT Strategy Project</td>
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<td></td>
<td>Speaker Series</td>
<td>ISA Conference</td>
<td>BIT Conference</td>
</tr>
</tbody>
</table>

Each course consists of 10 modules. The total time for each course is estimated at 150 hours. Courses are offered through distance education. Each course consists of weekly tasks such as directed readings, self-directed research, self-assessment quizzes, chat room participation and online discussions with instructors. Bi-weekly cases and hand-in assignments focus on professional competencies, and a project allows in-depth study of a major topic.
SHARING MATERIAL WITH OTHER EDUCATORS

UWCISA will transfer text and case materials to a new Learning Centre on its ISA Portal. As in the past UWCISA will prepare a new edition – the 13th – of Computer Control and Audit Guide (CCAG). This edition will comprise two parts – a System Reliability Book and IT Audit Book. UWCISA will market these new items to established and prospective customers at universities and colleges across Canada and the US. As well, it will maintain and extend contacts with other institutions.

INTERNATIONAL ACTIVITIES

The Centre will negotiate the final terms of an ISA project for the National Accounting Institute of China, and will execute that project, in partnership with PricewaterhouseCoopers.

COMMUNICATIONS / ISA PORTAL

WEBSITE

In 2003 the Centre will promote its website and add links to other relevant websites.

NEWSLETTER

The Centre will produce a five year retrospective report on its operations and activities, and will distribute it and post it on the UWCISA website.

PRESENTATIONS

Centre personnel will continue to make presentations on ISA issues to gatherings of academics and practitioners. Examples of presentations scheduled for 2003 are: “Governance, Transparency, Integrity: The Role of Information Technology,” to be given by the Director at the Tenth Annual AIS Conference (Phoenix, AZ, in February); and “Bubbles Burst: A Review of Investment Bubbles Throughout History,” to be given by Malik Datardina at the conference of the Administrative Sciences Association of Canada (Halifax, NS, in June).
2003 UWCISA Education Conference

BUSINESS INFORMATION TECHNOLOGY (BIT)

Thursday, 30 October 2003
Toronto, Ontario

Trends in BIT education
Competency requirements and approaches for BIT
Learning and the Internet
Learning technologies and innovations in BIT education
Integrating business IT and other business courses
Infrastructure issues and BIT
Accounting and BIT – Friends or foes?

Co-sponsored by CICA, the Gordon H. Cowperthwaite Centre for Accounting Education, and the Centre for Business, Entrepreneurship and Technology (University of Waterloo)

For more details, visit http://www.arts.uwaterloo.ca/ACCT/uwcisa

2003 UWCISA Research Symposium

GOVERNANCE, TRANSPARENCY AND INTEGRITY:
THE ROLE OF INFORMATION TECHNOLOGY

31 October - 1 November 2003
Toronto, Ontario

Friday, 31 October

RESEARCH ON IS ASSURANCE
How does corporate governance relate to IT governance?
What are the consequences of poor governance/control?
Providing assurance on information transmitted over the Internet

Saturday, 1 November

INFORMATION INTEGRITY
What are the key elements of information integrity?
How can information integrity be improved?
Which initiatives on information integrity are most cost effective?

Sponsored by CICA, ISACA, the International Journal of Accounting Information Systems, and the Information Integrity Coalition

For more details, visit http://www.arts.uwaterloo.ca/ACCT/uwcisa
Board of Directors

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

Carla Carnaghan, PhD
Assistant Professor of Information Systems,
University of Waterloo

Robert Darlington
Senior Auditor, CPR

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Manager, Information Risk Management, KPMG,
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Alister Mason, PhD, FCA, FCMA
Director, School of Accountancy, University of Waterloo

William Swirsky, MBA, FCA
Vice-president, Professional Affairs, CICA

THE LAST WORD

We welcome inquiries, suggestions and comments!

Please contact the Director.

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Sean Speers
Technical Support

Stephen Jones
MA, Communications
Call for Research Proposals

Academics and practitioners are invited to submit proposals for research projects on Information Systems Assurance. Funding of up to $10,000 Cdn is available per project. We encourage proposals on Best Practices, IT Governance, Project Management, Privacy, Information Integrity, Virtual Organizations, Continuous Process Monitoring, IS Quality, Software Certification, Intellectual Property, or other areas of interest to the Information Systems Assurance community.

Educational Videos on Information Systems Assurance

Informative and provocative presentations from UWCISA's Fall 2001 Symposium

WEBTRUST ON TRIAL (97 min.)
- Statement by the plaintiff (Karim Jamal, Univ. of Alberta)
- Statement of the defence (Chris Leach, Partner, Grant Thornton; Chair, AICPA/CICA Trust Services Task Force)
- Questions from the jury
- Jury's verdict (Jim Hunton, Univ. of South Florida)

e-PRIVACY (92 min.)
- Presentation (Robert Parker, Partner, Deloitte & Touche)
- Discussant’s comments (Darren Charters, Univ. of Waterloo)
- Moderated panel discussion (Paul Darlaston, President, PSD Information Management Solutions; W. Peter Cullen, Corporate Privacy Officer, Royal Bank Financial Group; Brian Ford, Senior Mgr., Ernst & Young)
- Questions from the audience

INFORMATION INTEGRITY (32 min.)
- Presentation: Madhavan Nayar, CEO, Unitech Inc. and founder of the Information Integrity Coalition
- Moderated panel discussion (Paul Darlaston, President, PSD Information Management Solutions; W. Peter Cullen, Corporate Privacy Officer, Royal Bank Financial Group; Brian Ford, Senior Mgr., Ernst & Young)
- Questions from the audience

Call for Papers

Information Systems Assurance Research Symposium

Fall 2005

Academics and practitioners are invited to submit papers on topics pertinent to the symposium themes. Papers should be at an advanced stage of completion and must conform to the style of the International Journal of Accounting Information Systems. Submission deadline: 1 June 2005.

Contact UWCISA for Guidelines for Research Proposals and Symposium Papers, video ordering details, and other information.

WEB: www.arts.uwaterloo.ca/ACCT/uwcisa/  PHONE: 519 888-4567, ext. 5774
E-MAIL: jeboritz@uwaterloo.ca  FAX: 519 888-7562
The University of Waterloo Centre for Information Systems Assurance gratefully acknowledges the generous support of our founding partners and sponsors.

University of Waterloo
School of Accountancy

Canadian Institute of Chartered Accountants (CICA)

Information Systems Audit and Control Association (ISACA)

www.arts.uwaterloo/ACCT/uwcisa