IFIP/Sec '84

**Second International Congress and
Exhibition on Computer Security
Toronto, Ontario, Canada**

Invitation

September 10-12, 1984

Inn-On-The-Park

COMPUTER SECURITY — A GLOBAL CHALLENGE

The second IFIP sponsored International Computer Security Congress will address the global challenge of how to confront the increasing problems of computer vulnerability and abuse. The proliferation of computers and data communications is causing major social, economic and political controversy and confrontation which will have severe long-term consequences worldwide. Attending the Congress will help you to *develop, implement,* and *refine* the secure systems strategy your organization needs in this environment.

This meeting will be of value to computer security professionals representing both industry and government. Also many presentations will be of special interest to management, technical specialists, auditors, investigators, and data processing system developers, as well as end users.

Come to this Congress to hear the world's foremost experts in computer security and privacy discuss such critical and controversial issues as:

- Can "user friendliness" continue to take precedence over the need for adequate internal control?
- Can new strategies overcome security's lag behind constantly changing technology?
- Are computer and software vendors responsive to the user's security needs and requirements?
- Is encryption viable or practical as a solution for secure data storage and communications?
- Will computer legislation actually help to deter computer crime and abuse?
- Are computer "hackers" a real or imagined threat?
- Will management really commit to security, or just pay it lip service?
- Is software piracy growing into a catastrophic economic crime?
- Is personal privacy a vanishing concern?

The Congress format will include general sessions, concurrent meetings, and panel discussions. The concurrent meetings will concentrate primarily on technical, administrative, investigative and auditor-oriented topics. The panels will address the above critical and controversial issues as well as allowing the presenters to discuss interactively their solutions with the attendees.

INVITED SPEAKERS INCLUDE:

Isaac L. Auerbach, Isaac L. Auerbach Inc., U.S..A
Jan Freese, Data Inspection Board, Sweden
Calvin C. Gotlieb, University of Toronto, Canada
Susan Nycum, Gaston, Snow, Ely, Bartlett, U.S.A.
G. Russel Pipe, Transnational Data Reporting Service, Netherlands
Colonel Roger Shell, Dept. of Defense, U.S.A.
Dennis Steinhauer, National Bureau of Standards, U.S.A.

DATA SECURITY EXHIBITION

The Congress will also feature a display of the latest technology in security hardware, software and services by major international suppliers.

SOCIAL PROGRAM

For Delegates and Accompanying Persons
Sunday, September 10, 7:00 — 9:00 p.m.
Open House
Delegates are invited to meet at the Inn on the Park for an informal gathering and welcome.

Monday, September 10, 6:00 — 7:00 p.m.
Reception
Delegates are invited to meet at the Inn on the Park for cocktails.

Tuesday, September 11, 6:00 p.m.
Banquet

The banquet will take place at the Inn on the Park and consists of several courses representing Canada's diverse ethnic and regional culinary specialties. Dinner includes wine, and will be followed by dancing and entertainment.

SPECIAL PROGRAM FOR ACCOMPANYING PERSONS

Monday, September 10
Toronto Highlights Tour

Toronto has come into its own as an exciting cosmopolitan centre. Among the highlights of this tour are quaint Yorkville, with its unique boutiques, cafes, and galleries; famed University of Toronto with its historical buildings, stately Provincial Parliament Buildings; the avant-garde architecture of the financial district; charming Old City Hall and award-winning ultra modern New City Hall; Casa Loma, turreted extravaganza of an eccentric millionaire; elegant mansions of winding Rosedale; St. Lawrence area, market and business heart of the Old Town of York and Toronto's theatre district; colourful Chinatown; the Art Gallery of Ontario, famed for its Henry Moore Collection; and the world's highest free-standing structure, the CN Tower.

Dining in the world's highest restaurant, which is twice as high as the Eiffel Tower, we will enjoy the excellent cuisine while experiencing the constantly changing panorama of views of the city, the Toronto Islands and Lake Ontario.

After lunch we will travel to the Ontario Science Centre to view the Computer Show, many other scientific exhibits and demonstrations for which this museum is world-famous. This is a place for fun and discovery where the wonders of science are imaginatively presented for us to see, hear and touch.
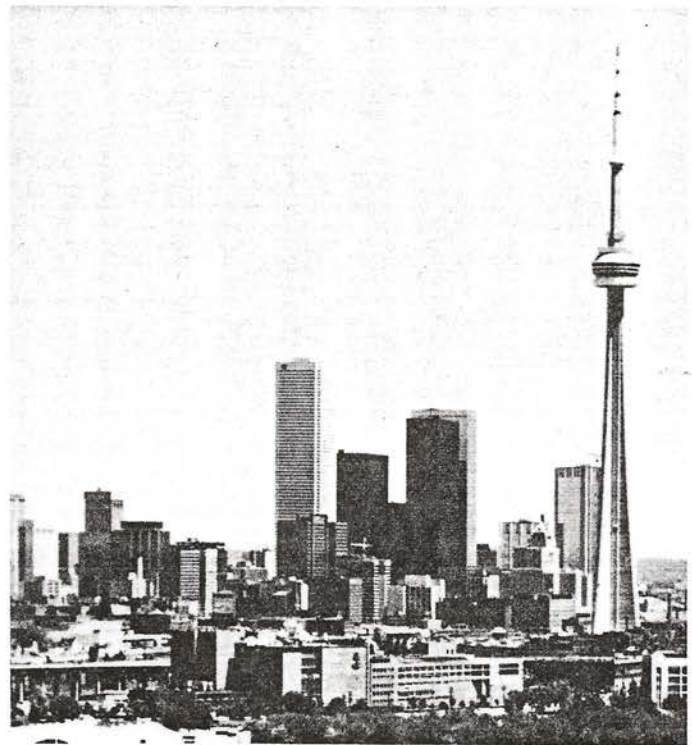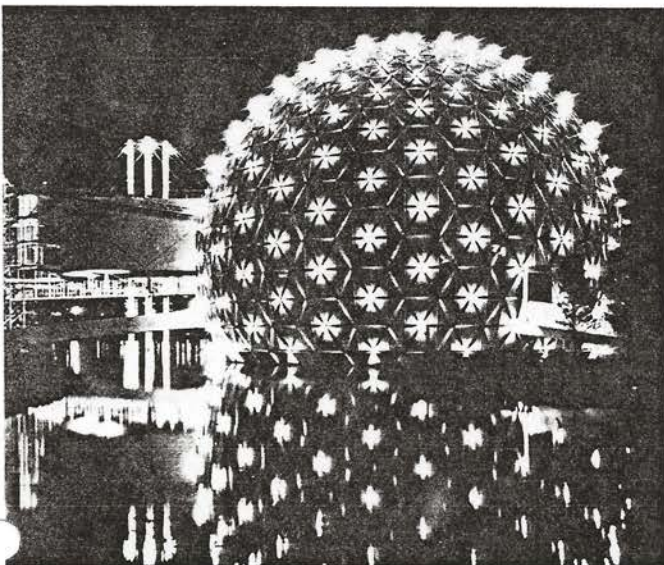
Tuesday, September 11
Harbourfront Tour

Travel by private coach to Toronto's lively harbour and board a glass-topped touring boat for a leisurely, commented cruise around the bustling harbour and idyllic Toronto Islands.

Browse among the varied and elegant shops in the exquisitely renovated Terminal Building overlooking Lake Ontario; stroll the Lakeshore promenade or hunt for treasures in the antique fleamarket.

Our nautical outing ends with lunch aboard the Jadran. Once a cruise ship on the Adriatic, she was brought to Canada under her own power and moored in Toronto harbour. The Jadran offers guests fine dining with a cruise ship atmosphere.

IFIP/SEC 84 GENERAL INFORMATION

Congress & Exhibition:

Place: Inn on the Park
         1100 Eglinton Avenue East
         Toronto, Ontario
         M3C 1H8

Times: 09:00 September 10 to 15:00 September 12

Registration:

Times: September 9   13:00 — 20:00 Hours
         September 10   07:00 — 09:00 Hours

Fees: All fees are in Canadian funds. The fee for the Congress is $695 CDN, however, the following early discount and late fees are applicable.

Before June 1, 1984	— $595
June 1 to June 30, 1984	— $645
July 1 to August 31, 1984	— $695
September 1 to September 10, 1984	— $745

Register early and save up to $150. The actual registration occurs only after payment has been received. Registration confirmation, including arrival information and the final program, will be sent after the payment has been processed.

A discount of $25 CDN per applicant applies when prepayment for two or more registrants is remitted on the same cheque (not applicable after September 1, 1984 or to invoiced payments).

The fee includes all Congress sessions, the Exhibition, Luncheons, Monday evening's Reception, the Banquet and the described tours.

The fee for the accompanying persons program is $165 CDN per person. This includes the Reception, the Banquet and the described tours.

Payments: Payment of the fees should be made in Canadian funds by cheque, bankers draft or credit card (American Express, Carte Blanche, Diner's Club or Mastercard). The cheque or draft should be made payable to International Security Congress 1984 Inc.

Please note that personal cheques cannot be accepted after July 1, 1984.

A cancellation charge of $50 CDN will be levied if a written request is received before August 15, 1984. No refunds will given after August 15, 1984. Registrant substitution will be accepted up to the time of Congress.

Language: The official language of the Congress is English.

Hotel Reservations: All registrants are requested to make advance hotel reservations on the enclosed registration form to obtain the special Congress room rate. All rooms are a flat rate of $82 CDN per night. Book your rooms early; the best rooms will go to the first registrants. To guarantee late arrival, payment of $82 CDN for the first night's hotel room must be included with a cheque payable to the Inn on the Park or a credit card number.

Pope John Paul II is scheduled to visit Toronto on September 14-15. The room rates will be substantially higher during this period.

The Inn on the Park: The Inn on the Park is conveniently located near the main Toronto expressways, a ten-minute drive from the city centre yet surrounded by parkland, including the beautiful Edwards Gardens with its year-round horticultural display. The hotel has a swimming pool and fully-equipped health club for your enjoyment, as well as complete dining, banquet and convention facilities.

Correspondence: All correspondence should be addressed to:

IFIP/Sec '84
International Security Congress 1984 Inc.
160 Duncan Mill Road
Don Mills, Ontario
Canada
M3B 1Z5
Telephone: (416) 447-1821

PROGRAM COMMITTEE

Chairman: **Jerome Lobel,** Honeywell Information Systems, U.S.A.

Kristian Beckman, Beckman + Beckman, Sweden
William Bound, CSC UK Computer Sciences Ltd., U.K.
Richard Koenig, Union Carbide Corp., U.S.A.
Colin C. Rous, Cerberus Computer Security Inc., Canada
Michael B. Wood, The National Computing Centre Ltd., U.K.
Proceedings Editor: **James H. Finch,** Cerberus Computer Security Inc., Canada

ORGANIZING COMMITTEE

Chairman: **Carol Lipsett,** Canadian Imperial Bank of Commerce, Canada
Doug Berry, Workers' Compensation Board
Dave Church, Stelco Inc.
Graham Dougall, Comshare Limited
Jo-Anne Doyle, Clarkson Gordon
Marc Duez, Canadian Imperial Bank of Commerce
Bill Eadie, Arthur Andersen & Co.
James Finch, Cerberus Computer Security Inc.
Pat Finch, Consultant
Dave Greenaway, Consultant
Tim Haist, Canada Systems Group
Ben Hollander, Gulf Canada Ltd.
Beth Kendall, Ontario Ministry of Labour
Peter Kingston, Kingston, Goulbourn & Associates
Sheila Parsons, Data Security Limited
Francine Pouliot, ADP Dealer Services Ltd.
Steve Tower, Arthur Andersen & Co.
Sally Woodhead, Cerberus Computer Security Inc.

IFIP

The International Federation for Information Processing was formed in Paris in 1960 by the representatives of eight national computer associations, that had worked together with UNESCO in preparation for the first World Computer Congress held there the previous year. As of January 1st, 1984, 44 national organizations representing 49 countries are members of IFIP.

At the IFIP Congress held in Paris, France during September, 1983, an IFIP Technical Committee on Computer Security (TC II) was established. The major aims of the committee are:

- to establish a frame of reference for security common to both EDP professionals and the public.
- to exchange experience of practical security work
- to evaluate data processing techniques from security viewpoints
- to inform on new protective techniques and their proper use
- to promote security as being an important integral part of data processing.
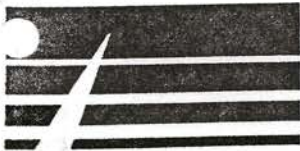
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International Security   Telephone: (416) 447-1821
Congress 1984 Inc.
160 Duncan Mill Road
Don Mills, Ontario
Canada M3B 1Z5

PRELIMINARY PROGRAM

Plenary Sessions
Invited Speakers

Isaac L. Auerbach, Isaac L. Auerbach Inc, U.S.A.
Donald Davis, National Physical Lab, U.K.
Jan Freese, Data Inspection Board, Sweden
Calvin Gotlieb, University of Toronto, Canada
Martin Hellman, Stamford University, U.S.A.
Susan Nycum, Gaston Snow, Ely and Bartlett, U.S.A.
Russel Pipe, Transnational Data Reports, Netherlands
Roger Shell, Department of Defense, U.S.A.
Dennis Steinauer, National Bureau of Standards, U.S.A.

Concurrent Sessions
Accepted Papers

Security Management	Operating Systems Security	Physical Security	Encryption
"Safeguards Selection Principles" **Donn Parker**, SRi International, U.S.A.	"A Topology for Secure MVS Systems" **Ronald Paans**, IBM, Netherlands	"Planning and Construction of large Computer Center Facilities" **Antero Mustonen**, Wartsila Helsinki Shipyard, Finland	"An Application of the Chinese Remainder Therom to File Encryption in Data Issues" **Wayne Patterson**, Universite de Moncton, Canada and **Rodey H. Cooper**, University of New Brunswick, Canada
"Problem Definitions: An Essential Prerequiste to the Implementation of Security Measures" **Robert Courtney Jr.** ,and **Mary Anne Todd**, Robert Courtney Inc., U.S.A.	"Measuring Computer System Security Using Software Quality Metrics" **Gerald E. Murine**, Metrigs Inc., U.S.A.	"Data Processing Security and Terrorism — How to Safely Pass Through the Plumb Years and Inherit a Trade Union Problem: the Italian Experience" **Eugenio Orlandi**, ACEA — Servizio Timo, Italy	"High Performance Encryption Algorithm" **W.E. Madryga**, Canadian Imperial Bank of Commerce, Canada
"Security and Productivity" **Edwin M. Jaehne**, Jaehne Assoc., U.S.A.	"Formal Verification — Its Purpose and Practice" **David A. Bonyun**, I.P. Sharp Assoc. Ltd, Canada		"Implementation for Master Key Distribution and Protected Keyload Procedures" **Goran Pagels Fick**, Philips Elektronikindustrier, Sweden
	"An Overview of Multics Security" **Benson I. Margolis**, Honeywell Information Systems, U.S.A.		

IFIP/Sec'84 is organized by the Toronto Chapter of the Canadian Information Processing Society

Please note, the early registration deadline of May 31, 1984 for the fee of $595 CDN has been extended to June 15, 1984 for North American registrants and to June 30, 1984 for the rest of the world.

EDP Auditing

"Integrity Analysis – A Methodology for EDP Audit and Data Quality Assurance"
Maija I. Savanks, Ontario Ministry of Revenue, Canada

"Retrofitting the EDP Auditor: EDP Security Skill Needs and Requirements"
Robert R. Moeller, Alexander Grant & Co., U.S.A.

Computer Crime

"The Programmers's Threat: Cases and Causes"
I.S. Herschberg, and Ronald Paans, Delft University of Technology, Netherlands

"Introduction to Computer Crime"
Jay Bloombecker, U.S.A.

"Deviancy by Bits and Bytes: Computer Abusers and Control Measures"
Detmar W. Straub Jr., and Cathy Spatz Widon, Indiana University, U.S.A.

"Characteristics of the Computer Environment that Provide Opportunitires for Crime"
James Miller, University of West Florida, U.S.A.

Risk Analysis

"An Expert System for Computer–Facility Certification"
J.M. Carroll, and W. Maciver, University of Western Ontario, Canada

"A Composite Cost/Benefit Risk and Threat Analysis Methodology"
John Miguel, U.S. Naval Underwater Systems Center, U.S.A.

"The SBA Method – A Method for Testing Vulnerability"
Gabbe Wrede, Infosec, Sweden

Access Control I

"A proposal for an Automated Logical Access Control Standard"
James A. Schweitzer, and Charles Symons, U.S.A.

"Computer System Access Control Using Passwords"
R. Leonard Brown, The Aerospace Corp., U.S.A.

"Algorithmic Authentication"
Fred Cohen, University of Southern California, U.S.A

Access Control II

"Selection Process for Security Packages"
Jan H.P. Eloff, Arthur Andersen & Assoc., South Africa

"Incorporating Access Control in Forms System"
Gee Kin Yeo, National University of Singapore, Singapore

"Characteristics of Good One–Way Encryption Functions for Passwords – Some Rules for Creators and Evaluators"
Viiveke Fak, Linkoping University, Sweden

Contingency Planning

"General Electric – An Approach to Disaster Recovery"
Douglas D. Walker, General Electric, U.S.A.

"Industrial Relations and Contingency Planning"
J.F. Donovan, Allied Irish Banks Ltd., Eire

"Experience with the Use of Alternative Sites for Disaster Recovery"
A.F. Mann, Datasolve Limited, U.K.

Data Base Security

"Lower Level Inference Control in Statistical Database Systems"
David L. Lipton, and Harry K.T. Wong, Lawrence Berkeley Laboratory, U.S.A.

"Some Security Aspects of Decision Support Systems"
Daniel I. Lavrence, Canada

"The Integrity Lock Support Environment"
Richard Graubart, Mitre Corp, U.S.A. and Steve Kramer, Axiom Technology, U.S.A

Communications & Network Security

"Information Integrity –An Architecture for Evolution"
Hal. B. Becker, U.S.A.

"EFT – Systems and Security, practical co–operation between banks in Finland"
Lars Arnkil, and Juhani Saari Skopbank, Finland

"Security & Privacy in Cellular Telephone Systems"
Roy Masrani, and Tom Keena University of Calgary, Canada

Office Information Security

"Access Control Models and Office Structures"
Franco Sirovich, and Giorgio Montini, Universita di Torino, Ita

"Security Management in Office Information Systems"
Giancarlo Martella, and Mariagrazia Fugini, Politenico d Milan, Italy

Micro, Small Systems & Personal Computer Security

"Microcomputer Security – Copy Protection, Data Compression and Encryption"
Harold Highland, Computers & Security, U.S.A.

"Cause–and–Effect Model for Personal Computers"
LeRoy A. Wickstrom, Honeywell Inc, U.S.A.

REGISTRATION FORM
(PLEASE PRINT)

IFIP/Sec '84
160 Duncan Mill Road
Don Mills, Ontario
Canada
M3B 1Z5
(416) 447-1821
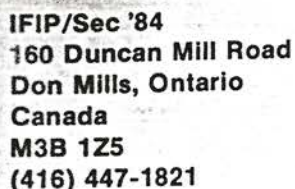
LAST NAME_____

FIRST NAME_____

POSITION _____

ORGANIZATION _____

MAILING ADDRESS _____

_____COUNTRY_____

TELEPHONE _____TELEX_____

REGISTRATION DETAILS		PRICE/PERSON CDN $	NO. OF PERSONS	AMOUNT
REGISTRATION FEES				
EARLY REGISTRATION	- TO JUNE 1/84	595	1	....
EARLY REGISTRATION	- TO JULY 1/84	645	1	....
CONGRESS FEE	- TO AUGUST 31/84	695	1	....
LATE REGISTRATION	- AFTER AUGUST 31/84	745	1	....
GROUP DISCOUNTS (2 OR MORE)		(25)	1	....
ACCOMPANYING PERSON				
SOCIAL PROGRAM (INCLUDES RECEPTION, BANQUET AND TWO GUIDED TOURS)		165		....
BANQUET ONLY (SEPT. 11)		65		

ACCOMPANYING PERSON LAST NAME	FIRST NAME	TOTAL

ACCOMMODATION:

☐ I wish to reserve a room at the Inn on the Park at a flat rate of $82 CDN applicable from Sept. 7/84 to Sept. 13/84. I will be arriving on Sept._____/84 and departing on Sept._____/84.

☐ I wish to guarantee late arrival on Sept._____/84 by including payment for the first night's room charge of $82 CDN with a cheque/draft payable to the Inn on the Park or by the credit card shown below.

METHOD OF PAYMENT:

☐ Invoice me or my organization: Purchase order number_____

or ☐ I enclose my payment of $_____by

☐ Cheque payable to International Security Congress 1984 Inc.

☐ Bank draft/money order payable to the International Security Congress 1984 Inc.

☐ Credit card   Card no. ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

Expiry date_____ _____

☐ AMERICAN EXPRESS ☐ CARTE BLANCHE ☐ DINERS CLUB ☐ MASTERCARD/EUROCARD/ACCESS

Signature_____   Date _____

CANCELLATIONS
A full refund less an administration charge of $50 CDN will be made for cancellations received before August 15/84. No refunds after August 15/84.

PLEASE MAIL TO: IFIP/SEC'84, INTERNATIONAL SECURITY CONGRESS INC.
160 DUNCAN MILL ROAD, DON MILLS, ONTARIO, CANADA   M3B 1Z5