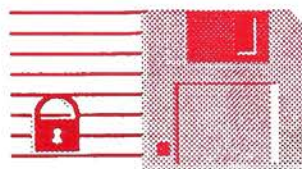




# THE WORLD'S PREMIER EVENT FOR INFORMATION TECHNOLOGY MANAGEMENT AND CONTROL

(INCORPORATING AN INTERNATIONAL  
EXHIBITION AND TUTORIALS)



## 8th International Information Security Conference



### T H E M E

SECURITY AND CONTROL:  
FROM SMALL SYSTEMS TO LARGE

### C O N F E R E N C E & E X H I B I T I O N

Date: 27-29 May 1992

Venue: Raffles City Convention Centre  
Singapore

### T U T O R I A L S

Date: 25-26 May 1992

Venue: Raffles City Convention Centre  
Singapore

#### *Organised by:*

Technical Committee 11,  
International Federation for  
Information Processing  
Singapore Computer Society

#### *Managed by:*

HQ Link Pte Ltd

*Official Publication:* Asia Computer Weekly

*Endorsing Publication:* I.T. Times

#### *Sponsored by:*

National Computer Board, Singapore  
Singapore Federation of the Computer Industry  
Microcomputer Trade Association (Singapore)  
EDP Auditor's Association, Singapore Chapter  
IEEE Singapore Section, Computer Chapter  
Data Processing Managers Association

The Official Airline  
**SINGAPORE AIRLINES**





# JOIN WORLD-RENOWNED EXPERTS AT THE WORLD'S PREMIER COMPUTER SECURITY CONFERENCE



New opportunities made possible by rapid advancements in computers and communications technologies have also generated concern in the area of security and control.

Users of both small systems and large constantly face the threat of a major disruption to their information processing systems, which could result in severe business losses – sometimes jeopardising the firm's very existence.

Together with various computing bodies in Singapore, IFIP and SCS are organising the largest-ever conference in Asia focusing on information security. The theme of this year's event is "Security and Control : From Small Systems to Large".

This three-day conference heralds the gathering of some of the world's renowned authorities, who will share their expertise and experience with different areas of computer security and control.

Apart from focusing attention on international computer security efforts into the 21st century, the keynote papers will also highlight the latest developments in the prevention and detection of IT fraud and the issues involved in securing transactions, including the use of cryptography.

The methodologies, design and implementation of security and control systems will be discussed. The comprehensive programme will also address subjects as diverse as reviews of local and regional experience in computer security and updates on the standardisation efforts for security in open systems.

For the first day of the conference, delegates will have a choice of attending the session on "Security Management" or "Network Security". A forum in the afternoon will bring together experts from around the world to debate the relative merits of recently adopted European and US security standards.

The second day will be devoted to "Security Management" and "Audit Security", with a parallel session on "Cryptography" and "Computer Crime".

On the morning of the third day, delegates will have a choice between the session covering "Database Security" and "Access Control/Detection", with the afternoon being dedicated to "UNIX Security".

8:45 **Opening Ceremony**  
9:45 **Coffee**  
10:00 **KEYNOTE ADDRESS: International Co-  
Cooperation Into the 21st Century**  
**MR. WAYNE MADSEN**  
Staff Computer Scientist  
Computer Sciences Corporation, United

## TRACK 1

### SECURITY MANAGEMENT I

- 11:00 **Data Security Model in Branch  
Offices of Big Organisations**  
Dr. Lech J. Janczewski  
University of Auckland  
Department of Management Science  
and Information Systems  
New Zealand
- 11:45 **PRAJORIS – A Pragmatic 'Joint'  
Method for Raising the Information  
Security Level in a Company**  
Dr. Steen Bentzen  
Computer Strategy Service  
Denmark

## 12:30 Lunch

- 2:00 **INVITED ADDRESS: Computer  
Disasters: The Impact on Business  
in the 1990s**  
**MR. ALAN REED**  
Intech International  
United Kingdom/Singapore
- 3:00 **Security Activities of Private  
Sectors in Europe**  
Mr. Alan Stanley  
European Security Forum  
c/o Coopers & Lybrand Deloitte  
United Kingdom

## 3:45 Coffee

- 4:00 **Findings of the Swedish CITI  
Project on Information Security  
Evaluation and Certification**  
Mr. Per Hoving  
Saab-Scania AB  
Security Technical Center  
Sweden

- 4:45 **FORUM: European vs American Secu**  
Chairman: Dr. Bertil Fortrie  
Participants: Professor W.J. Caelli  
Mr. Wayne Madsen  
Mr. Per Hoving  
Mr. Alan Reed

## 5:30 Close



# CONFERENCE PROGRAM

Computer Security

States

## DAY 1

May 27, 1992

### TRACK 2

#### NETWORK SECURITY

- 11:00 Secure Open Systems: An Investigation of Current Standardization Efforts for Security in Open Systems**  
Mr. Paul Overbeek  
TNO Physics and Electronics Laboratory  
The Netherlands
- 11:45 Network Security: A Design and Implementation**  
Mr. Weijun Wang  
National Computer Board  
Information Technology Institute  
Singapore  
Professor Tom Coffey  
University of Limerick  
Ireland

- 2:00 INVITED ADDRESS: ASEAN – Computer Crime and Corrective Action: A Status Report**  
**MR. CHEW TECK SOON**  
Director, Coopers & Lybrand  
Management Consultants Pte Ltd  
Singapore

- 3:00 A Probabilistic Approach to the Analysis of Secure Protocols**  
Mr. Edward Campbell  
Dr. Rel Safavi-Naini  
University of New England  
Department of Mathematics, Statistics and Computer Science  
Australia

- 4:00 MAPS Model For Automated Profile Specification**  
Mrs. Dalenca Pottas  
Professor S.H. von Solms  
Rand Africaans University  
Department of Computer Science  
South Africa

Security Standards

9:00 **KEYNOTE ADDRESS: Cryptography and the Art of Securing Transactions**

**MR. CHRIS HOLLOWAY**  
Security Consultant  
IBM, United Kingdom

10:00 Coffee

### TRACK 1

#### SECURITY MANAGEMENT II

- 10:15 Information Security: The Impact of End User Computing**  
Mr. John Beatson  
Databank Systems Ltd  
New Zealand
- 11:00 Practical Security for the Small Computer User**  
Mr. David Bachelor  
Sussex Systems Ltd  
Mr. Peter Kingston  
Kingston Goulbourn & Associates  
Canada
- 11:45 Information Security Awareness – Selling the Course**  
Mr. Kevin McLean  
Coopers & Lybrand Deloitte  
United Kingdom

12:30 Lunch

**2:00 KEYNOTE ADDRESS: Restating The Foundation of Information Security**

**MR. DONN B. PARKER**  
Senior Management Systems Consultant  
SRI International  
United States

- 3:00 A Company's Battle Against the Virus Plague**  
Mr. Peter Capiteijns  
Philips Security Office  
The Netherlands

3:45 Coffee

#### AUDIT SECURITY

- 4:00 How Expert are Auditors in the Computer Security Field? South African Findings and Interpretations**  
Dr. Dieter Fink  
Edith Cowan University  
School of Management Information Systems  
Australia
- 4:45 A Framework for IS Audit Research**  
Dr. Charlie Soh  
Asia Pacific Offshore Services Pte Ltd  
Dr. Guy G. Gable  
National University of Singapore  
Department of Information Systems & Computer Science  
Singapore

5:45 Close

7:00 Conference Banquet

## DAY 2

May 28, 1992

### TRACK 2

#### CRYPTOGRAPHY

- 10:15 Measuring the Strength of Ciphers**  
Ms. Helen Gustafson  
Dr. Edward Dawson  
Ms. Lauren Nielsen  
Queensland University of Technology  
School of Mathematics and Information Security Research Centre  
Professor W.J. Caelli  
Queensland University of Technology  
Information Security Research Centre  
Australia
- 11:00 Cryptography Protocols and Network Security**  
Mr. Patrick Horster  
Dr. Hans-Joachim Knobloch  
University of Kariaruhe  
European Institute for System Security  
Germany
- 11:45 A Solution to Generalized Group Oriented Cryptography**  
Dr. Chin-Chen Chang  
Dr. Horng-Chin Lee  
National Chung Cheng University  
Institute of Computer Science and Information Engineering  
Taiwan

- 3:00 A Language For Describing Information and Physical Security Architectures**  
Professor W.J. Caelli  
Professor Dennis Longley  
Mr. Alan Tickle  
Queensland University of Technology  
Information Security Research Centre  
Australia

#### COMPUTER CRIME

- 4:00 A Methodology For The Investigation of Computer Crime**  
Mr. Philip M. Stanley  
Ernst & Young  
Management Consultants  
Australia
- 4:35 Detering Highly Motivated Computer Abusers: A Field Experiment in Computer Security**  
Dr. Detmar Straub  
University of Minnesota  
Management Information Systems Research Centre  
Ms. Patricia J. Carlson  
Ms. Elizabeth H. Jones  
University of Hawaii, United States
- 5:10 Computer Crime: A Look at the Type of Offence and the Offenders**  
Mr. Bengt Angerfelt  
Computer Security Manager  
Security Service  
National Swedish Police Board  
Sweden



**9:00 KEYNOTE ADDRESS: An IT Crime Intelligence Report: The State-of-the-Art at the Turn of the Century**  
**DR. BERTIL FORTRIE**  
*President*  
*Cipher Management BV, Belgium*

**10:00 Coffee**

**DAY 3**  
**May 29, 1992**

TRACK 1		TRACK 2	
<b>DATABASE SECURITY</b>		<b>ACCESS CONTROL/DETECTION</b>	
<b>10:15 DISCO – A Discretionary Security Model for Object-Oriented Databases</b> Mr. Martin S. Olivier Professor S.H. von Solms Rand Afrikaans University Department of Computer Science South Africa		<b>10:15 Rule-Based Trusted Access Control</b> Mr. Marshall D. Abrams Ms. Ingrid M. Olson The MITRE Corporation Intelligence and CINC Support Systems Division United States	
<b>11:00 Referential Data Integrity in Multilevel Secure Database Management Systems</b> Ms. Vinti M. Doshi Dr. Sushil Jajodia The MITRE Corporation Security Technical Center United States		<b>11:00 Access Control: A Further Approach</b> Mr. Burkhard Lau University Bostock Germany	
<b>11:45 A Complex Approach to the Security of Statistical Databases Subject to Off-Line Sum Queries</b> Mr. Yeow Meng Chee Mr. Andrew Lim National Computer Board Information Technology Institute Singapore		<b>11:45 A Rule-Based Intrusion Detection System</b> Mr. Don Holden Digital Equipment Singapore Pte Ltd Singapore	
<b>12:30 Lunch</b>			
<b>UNIX SECURITY</b>		<b>UNIX SECURITY</b>	
<b>2:00 The New Security Paradigm in the Enterprise Computing</b> Mr. Craig Rubin UNIX System Laboratories United States		<b>2:00 Integrating B2 Security into a UNIX System</b> Mr. Kevin H. Brady UNIX Systems Laboratories Inc. United States	
<b>2:45 Coffee</b>			
<b>3:00 KEYNOTE ADDRESS: UNIX Operating System Security</b> <b>DR. JAMES CLARK</b> <i>President and Representative Director</i> <i>UNIX System Laboratories, Pacific Japan</i>			
<b>4:00 IFIP / Sec '93</b> Mr. David Bachelor Sussex Systems Ltd Canada			
<b>4:15 Closing Ceremony</b> Professor W.J. Caelli Chairman TC11 Australia			
<b>4:30 Close</b>			

## IFIP Sec's 92 Tutorials

Three tutorials – each of one-day duration – will precede the conference and exhibition. These in-depth sessions will be hosted by internationally renowned experts, who will share the breadth and scope of their industry experience.

### TUTORIAL 1:

*May 25, 1992*

#### International Data

#### Network Security

By: **Mr Wayne Madsen**

Staff Computer Scientist

Computer Sciences Corporation

### TUTORIAL 2:

*May 26, 1992*

#### Unix Operating System Security

By: **Dr James L Clark**

President and

Representative Director

UNIX System Laboratories, Pacific

### TUTORIAL 3:

*May 26, 1992*

#### Business Watch: A Practical Approach to Risk Management and Business Recovery

By: **Mr Alan Reed**

Director

Intech International

## IFIP/SEC '92 Exhibition

Taking place concurrently with the conference will be the 8th International Information Security Exhibition. Exhibitors involved in this very specialised sector will be present to apprise visitors of the latest in hardware, software and services in information security technology.

## Who Should Attend

Computer Security Managers • Internal Auditors • Disaster Recovery Managers • Data Processing Managers • Computer Operations Managers • PC Managers • Systems Designers • Information Resource Managers • EDP Managers • Software Specialists • Hardware Specialists • Systems Analysts • Systems Planners • Chief Information Officers • IT Directors • MIS Managers • Office Automation Specialists • Engineering Services Specialists • Financial Managers/Controllers • Operations Managers • Administrative Managers • Company Secretaries.

# BOOKING FORM A

## CONFERENCE AND TUTORIAL REGISTRATION FORM

### 8TH INTERNATIONAL INFORMATION SECURITY CONFERENCE AND EXHIBITION

Just follow these quick steps. Copy this form for multiple registrations. (Please use black pen or type).

#### STEP 1 : INDICATE NAME AND ADDRESS

Name: \_\_\_\_\_ Title: \_\_\_\_\_  
 Organisation: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_ Country: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Tlx: \_\_\_\_\_

A B C D E F G H I

#### STEP 2 : CIRCLE FEE

Category	Payment received By April 15	Payment received After April 15
<b>Conference (per attendee)</b>		
SCS Member	S\$1275	S\$1345
Non-member	S\$1325	S\$1395
<b>Tutorial (per attendee)</b>		
SCS Member	S\$ 615	S\$ 645
Non-member	S\$ 665	S\$ 695
Conference Delegate	S\$ 565	S\$ 595

Note: Conference delegates wishing to attend the tutorial can do so at a special rate of S\$565 (by April 15) and S\$595 (after April 15).

Conference fee includes lunch, refreshments, full documentation plus a conference banquet.

Tutorial fee includes lunch, refreshments and full documentation.

#### STEP 3 : CONFERENCE BANQUET FOR ACCOMPANYING PERSON(S)

Conference delegates are welcomed to register their accompanying person(s) for the conference banquet at S\$120 per person.

	No. of persons	Cost Per Person	Fees (S\$)
Conference Banquet for Accompanying person(s)		S\$120	

#### STEP 4 : SUMMARY OF PAYMENT

Check enclosed payable to "HQ LINK PTE LTD"

	Please tick	Fees(S\$)
Conference		
Tutorial 1		
Tutorial 2		
Tutorial 3		
Tutorial 4		
Additional Banquet for Accompanying Person(s)		
<b>TOTAL AMOUNT</b>		<b>S\$</b>

NOTE: Payment is requested with your registration. Please make all cheques to "HQ LINK PTE LTD", 150 South Bridge Road #13-01 Fook Hai Building, Singapore 0105. Tel: (65) 5343588 Fax: (65) 5342330 Tlx: RS 24603 MOLDC. A confirmation note will be sent to you upon receipt of payment.

#### STEP 5 : CHOOSE ONE OF 4 EASY WAYS TO REGISTER

1. Call us at (65) 534-3588 in Singapore
2. Fax us at (65) 534-2300 in Singapore
3. Telex us at RS 24603 MOLDC in Singapore
4. Mail us your registration to us today.

#### CANCELLATIONS

Should you be unable to attend, a substitute is welcomed at no extra cost. Cancellations between 20 April to 4 May will receive the full conference or tutorial documentation and 50% refund. Thereafter, we regret that no refund will be given.



**BOOKING FORM B**  
**HOTEL ACCOMMODATION / AIRPORT TRANSFER**  
**8TH INTERNATIONAL INFORMATION SECURITY CONFERENCE AND EXHIBITION**

**PARTICULARS**

Prof/Dr/Mrs/Miss: \_\_\_\_\_  
Surname Other name

Company/Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_ Tlx: \_\_\_\_\_

Accompanying Person's Name : 1. \_\_\_\_\_  
Surname Other name

2. \_\_\_\_\_  
Surname Other name

**I. HOTEL ACCOMMODATION**

I wish to confirm my accommodation at:

HOTEL NAME	DATE FROM	DATE TO	NO. OF NIGHTS	*SINGLE/ TWIN	NETT COST PER ROOM NIGHT (S\$)	FEES (S\$)
Westin Stamford					250.80	
Westin Plaza						
Carlton Hotel					205.20	
Peninsula Hotel					148.20	
					TOTAL AMOUNT	S\$

\* Please delete wherever necessary.

*Note: The price quoted is in Singapore Dollars (S\$) per room per night. The rate is inclusive of 10% service charge and 4% government tax. The one night room deposit will not be refunded if cancellation is received after the 27 April 1992.*

**II. AIRPORT TRANSFER AND MEETING SERVICES**

Private car transfer service inclusive of airport meeting are also available. Please indicate your requirement(s) below.

	No. of cars	Cost	Fees (S\$)
Airport Meeting and Transfer Services		S\$50	
Airport Meeting and Transfer Services after 11.00 pm		S\$65	

I enclose cheque / bank draft No. \_\_\_\_\_ of S\$ \_\_\_\_\_ for one night's deposit / airport transfer services for the above booking payable to "World Express Pte Ltd".

**CREDIT CARD PAYMENT**

Payment for ABOVE SERVICES may be made through one of the respective credit cards below, please ☒

I wish to pay my above fees by: ☐ American Express ☐ Diners ☐ MasterCard ☐ Visa

Name: \_\_\_\_\_ Card Number: \_\_\_\_\_

Expiry Date: \_\_\_\_\_

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

THIS FORM COMPLETED WITH DEPOSIT OR CREDIT CARD INSTRUCTION SHOULD BE RETURNED TO:

**John Chua**  
**Manager-in-charge of Conventions & Incentives**  
**World Express Pte Ltd**

114 Middle Road #05-01 Singapore 0718 Tel: (65) 336-3877 Fax: (65) 339-8625 Tlx 33372