

IFIP

The TENTH

International

Conference

on Information

Security

# SEC 1994



Technical Committee 11

May 23 - 27, 1994

Combined  
Convention  
Facilities

CURACAO  
Dutch Caribbean

SECURITY AND PROTECTION OF  
INFORMATION PROCESSING SYSTEMS

FIVE DAYS - multiple parallel tracks - over FIFTY vigorously refereed  
unique presentations - specially invited speakers - dedicated tutorials -  
workshops - working group sessions - lively panel discussions and much,  
much more...

Organized by Technical Committee 11 of the International Federation for Information Processing, IFIP/TC11  
-in cooperation with the Special Interest Group on Information Security of the Dutch Computer Society - and  
hosted by the Caribbean Computer Society



## ABOUT IFIP'S TECHNICAL COMMITTEE 11

The International Federation for Information Processing was established in 1960 under sponsorship of the United Nations Educational, Scientific and Cultural Organization, UNESCO. In 1984 the Technical Committee for Security and Protection in Information Processing Systems, Technical Committee 11, came into existence. Its aim is to increase the reliability and general confidence in information processing, as well as to act as a forum for security managers and others professionally active in the field of information processing security. Its scope encompasses the establishment of a frame of reference for security common to organizations, professionals and the public; and the promotion of security and protection as essential parts of information processing systems. Eight working groups: information security management, small systems security, database security, network security, systems integrity and control, security legislation, information security education, and IT related crime investigations, all chaired by seasoned international experts, cover a major part of the actual TC 11 workload.

## ABOUT THE TENTH INTERNATIONAL INFORMATION SECURITY CONFERENCE

This event is the Tenth in a series of conferences on information security. Something to celebrate. The organizers have compiled a truly exceptional, unique, and especially upgraded conference in a setting suitable for celebrating its Tenth birthday. Over 75 sessions will cover just about all aspects of information security, on a most senior and advanced level. The formal language of SEC'94 is English, though selected sessions of IFIP SEC'94 will be simultaneously translated in Spanish. The proceedings are published by Elsevier-North Holland.

### **There are evidently some astounding surprises within SEC'94.**

As key-note's SEC'94 will feature major players. Ten invited speakers, doubtless seasoned seniors in their field, will contribute with their vision of the future. Ranging from the legislative aspects of data privacy, to the international impact of the Clipper chip, and the dimensions of new cryptographic standards and applications. Global policy making and breaking in respect of the international harmonization efforts of information technology security evaluation criteria, and other most enticing issues encompassing the various invited lectures.

Within the framework of the Tenth Annual International Information Security Conference, a series of special lectures are built in, dedicated to one most important aspect. SEC'94 encompasses a UNIX system security workshop and a cryptology tutorial. Special sessions are devoted to information security in developing nations, and information security in the banking and financial Industry. Two major full day tutorial mini-conferences "IT Security evaluation criteria" and "Open Systems Network Security" are included in the program as well. SEC'94 offers a panel discussion of the editors of Elseviers Journal Computers and Security, IFIP TC 11's formal journal. And later on a roundtable debate is organized between the leading international publishers of IT Security information material. (Some sessions have not yet been set for a particular time schedule in the current published program brochure)

## ABOUT YOU

Each of the past ten years you have shown IFIP and TC 11 in particular your commitment to information security by attending the IFIP SEC conferences. The visitors and delegates to IFIP SEC are a broad audience, from everywhere: the Pacific Rim, Europe, Africa, the North and Latin America's and the Far East. The level of authority/positions is as usual: within practical, management, legal and technical level, the delegate to IFIP SEC is considered the top grade. As to professions: bankers, security directors, accountancy partners, technical auditors, EDP-auditors, network security managers, security analysts, lawyers, data integrity specialists, computer security managers, legal counsils, etc. This Tenth event will prove to be the best held ever, for the largest audience ever. You certainly may not miss SEC'94.

## SOMETHING EXTRA

The organizers wanted to do something extra for this Tenth event. Beside compiling an unique conference program, we extended its length to five days, we added an extra track, we reduced the delegate fee considerably and offer those not yet being a member of the World's largest and most influencial computer society a free of charge membership for 1994! And that's not all!

Yet, we want to save some surprises for the event itself.

**IFIP TC 11's SEC'94 welcomes you to Curaçao, Bonbini !**

PROGRAM SCHEDULE IFIP SEC'94

This schedule is for general orientation purposes only. Slot switches may be made.

◆ PLENARY ♦ MULTIPLE TRACKS ♦ COFFEE/TEA ★ LUNCH ♦ SOCIAL ACTIVITY \* To be announced



## INVITED PRESENTATIONS

- COMPUTER BASED CRYPTANALYSIS: MAN VS MACHINE APPROACH - DR. N. BALASUBRAMANIAN - FORMER DIRECTOR OF THE CIPHER BUREAU /CRYPTOGRAPHIC SERVICES OF THE GOVERNMENT OF INDIA - INDIA [ ⇒ 03 ]
- ESTABLISHING A CERT: COMPUTER EMERGENCY RESPONSE TEAM - KEN VAN WYK - DEPARTMENT OF DEFENSE - DISA/ASSIST - UNITED STATES [ ⇒ 04 ]
- PRIVACY ASPECTS OF DATA TRAVELLING ALONG THE NEW HIGHWAY - WAYNE MADSEN - COMPUTER SCIENCE CORP. - UNITED STATES [ ⇒ 18 ]
- ISSUES IN DESIGNING AND IMPLEMENTING A PRACTICAL ENTERPRISE SECURITY ARCHITECTURE - ROSS PAUL - THE WORLD BANK - UNITED STATES [ ⇒ 51 ]

KEYNOTE AND OTHER INVITED SPEAKERS TO BE ANNOUNCED BY SPECIAL BULLETIN

## IFIP TC 11 POSITION PAPER IN DISCUSSION

- SECURITY EVALUATION CRITERIA - POSITION PAPER - H. SCHOONE - THE NETHERLANDS [ ⇒ 61 ]

- WORKING GROUP 11.8: COMPUTER SECURITY EDUCATION - CHAIRMAN: EM. PROF.DR. HAROLD J. HIGHLAND FICS - IFIP TC 11 - UNITED STATES [ ⇒ 42 ]
- WORKING GROUP 11.5: SYSTEM INTEGRITY AND CONTROL - CHAIRMAN: WILLIAM J. LIST - THE KINGSWELL PARTNERSHIP - UNITED KINGDOM [ ⇒ 52 ]
- WORKING GROUP 11.1: IT SECURITY MANAGEMENT - CHAIRMAN: PROF. S.H. VON SOLMS - RAND AFRIKAANS UNIVERSITY - DEPT. OF COMPUTER SCIENCE - SOUTH AFRICA [ ⇒ 63 ]

## SPECIAL APPEARANCE

- INFORMATION WARFARE: WAGING AND WINNING CONFLICT IN CYBERSPACE - WINN SCHWARTAU - INTER PACT - UNITED STATES

## PANEL DISCUSSION

- PANEL DISCUSSION OF THE EDITORS OF ELSEVIER'S JOURNAL COMPUTERS & SECURITY - JOHN MEYER - ELSEVIER ADVANCED TECHNOLOGY - UNITED KINGDOM

## ROUNDTABLE

- ROUNDTABLE DISCUSSION OF THE PRINCIPAL EDITORS OF THE INTERNATIONAL I.T. SECURITY PUBLISHERS

## EXTENDED UNIX TUTORIAL

- UNIX MEETS NOVELL NETWARE - KEVIN H. BRADY - UNIX SYSTEMS LAB. - USA [ ⇒ 44 ]

## EXTENDED VIRUS TUTORIAL

- TECHNOLOGICALLY ENABLED CRIME: SHIFTING PARADIGMS FOR THE YEAR 2000 - SARA GORDON - UNIVERSITY OF INDIANA AT SOUTH BEND - UNITED STATES [ ⇒ 53 ]
- VIRUSES: WHAT CAN WE REALLY DO? - PROF. DR. HENRY B. WOLFE - UNIVERSITY OF OTAGO, INF. SCIENCE DEPT. - COMMERCE DIVISION - NEW ZEALAND [ ⇒ 60 ]
- FUTURE TRENDS IN VIRUS WRITING - VESSELIN VLADIMIROV BONTCHEV - UNIVERSITY OF HAMBURG - GERMANY/BULGARIA [ ⇒ 64 ]
- VIRAL TIDINGS - A. PADGETT PETERSON - MARTIN MARIETTA & COMPANY - USA [ ⇒ 68 ] AND OTHERS

## REFEREED PRESENTATIONS

- OPERATIONS SECURITY: THE REAL SOLUTION TO THE PROBLEM - MARTIN HERSHKOWITZ & A. DON TEMPLE - DEPARTMENT OF ENERGY - OFFICE OF SAFEGUARDS AND SECURITY - USA [ ⇒ 05 ]
- SECURITY IN VIRTUAL REALITY: VIRTUAL SECURITY - AMUND HUNSTAD - DEPT. ELECTR. ENGIN. LINKOPING UNIVERSITY - SWEDEN [ ⇒ 06 ]
- PROHIBITING THE EXCHANGE ATTACK CALLS FOR HARDWARE SIGNATURE - PROF. DR. REINHARD POSCH & D.I. WOLFGANG MAYERVIESER - GRAZ UNIVERSITY OF TECHNOLOGY - INST. FOR APPLIED INFORMATION PROCESSING - AUSTRIA [ ⇒ 07 ]
- TOWARDS SECURE OPEN SYSTEMS - DR. IR. PAUL L. OVERBEEK - TNO FEL DEFENSE RESEARCH ESTABLISHMENT - THE NETHERLANDS [ ⇒ 08 ]
- A SECURITY OFFICER'S WORKBENCH - PROF. DR. DENNIS LONGLEY & IAM FOR KWOK - CITY POLYTECHNIC OF HONG KONG - DEPT. OF COMPUTER SCIENCE - HONG KONG [ ⇒ 09 ]
- AN INTRODUCTION TO CITADEL: A SECURE CRYPTO CO-PROCESSOR FOR WORKSTATIONS - ELAINE PALMER - IBM THOMAS J. WATSON RESEARCH CENTER - UNITED STATES [ ⇒ 10 ]
- ON THE CALCULATION AND ITS PROOF DATA FOR  $\pi$  109 - SHENGLI CHENG, ET AL - CENTRE OF COMPUT. OF COMP. SCIENCE DEPT. - WUHAN UNIVERSITY OF WATER TRANSPORTATION ENGINEERING -PEOPLES REPUBLIC OF CHINA [ ⇒ 11 ]
- SECURENET: A NETWORK-ORIENTED INTELLIGENT INTRUSION PREVENTION AND DETECTION SYSTEM - ASS. PROF. DIMITRIS GRITZALIS, ET AL - UNIVERSITY OF THE AEGEAN - DEPT. OF MATHEMATICS - GREECE [ ⇒ 12 ]
- A METHODOLOGY FOR THE DESIGN OF SECURITY PLANS - DRs FRED DE KONING - PAARDEKOOPER & HOFFMAN M.C. - THE NETHERLANDS [ ⇒ 13 ]
- AN OPEN ARCHITECTURE FOR SECURITY FUNCTIONS IN WORKSTATIONS - STEFAN SANTESSON - ACCURATA A.B. - SWEDEN [ ⇒ 14 ]
- SECURITY SYSTEMS BASED ON EXPONENTIATION PRIMITIVES, TESS - PROF.DR. THOMAS BETH -UNIVERSITY OF KARLSRUHE - FACULTY FOR INFORMATICS - GERMANY [ ⇒ 15 ]
- THE STRUCTURE AND FUNCTIONING OF THE COST PRIVACY ENHANCED MAIL (PEM) SYSTEM - PROF. DR. SEAD MUFTIC, NADA KAPIDZIC & ALAN DAVIDSON - UNIVERSITY OF STOCKHOLM - DSV DEPT. - SWEDEN [ ⇒ 16 ]
- THE NEED FOR A NEW APPROACH TO INFORMATION SECURITY - JEAN HITCHINGS - UNIVERSITY OF NOTTINGHAM - ICL INSTITUTE OF INFORMATION TECHNOLOGY -UNITED KINGDOM [ ⇒ 17 ]
- A PRACTICAL DATABASE ENCRYPTION SYSTEM - PROF.DR. C.C. CHANG - COLLEGE OF ENGINEERING/ INST. COMP. SCIENCE/INF. ENG. - NATIONAL CHUNG CHENG UNIVERSITY - TAIWAN REPUBLIC OF CHINA [ ⇒ 19 ]
- SECURITY ANALYSIS AND STRATEGY OF COMPUTER NETWORK - JIE FENG, ET AL - DALIAN OCEAN RESEARCH & DEVELOPMENT CENTRE - PEOPLES REPUBLIC OF CHINA [ ⇒ 20 ]
- DURESS TERMINATIONS AND INFORMATION SECURITY - CHARLES C. WOOD - INFORMATION INTEGRITY INVESTMENTS - UNITED STATES [ ⇒ 21 ]

■ **INFORMATION SECURITY, LEGAL THREATS AND OPPORTUNITIES** - DR. IAN J. LLOYD - CENTRE FOR LAW, COMPUTERS & TECHNOLOGY - UNIVERSITY OF STRATHCLYDE - UNITED KINGDOM [ ↳ 22 ]

■ **SECURE COMMUNICATION IN LANS USING A HYBRID ENCRYPTION SCHEME** - PROF. DR. MAHMOUD T. EL-HADIDI, DR. NADIA H. HEGAZI & HEBA K. ASLAN - INF. DEPT. ELECTRONICS RESEARCH INST. - EGYPT [ ↳ 23 ]

■ **SECURE NETWORK MANAGEMENT** - BRUNO STUDER - UNIVERSITY OF ZURICH - INSTITUTE FOR INFORMATICS - SWITZERLAND [ ↳ 24 ]

■ **RAMEX: A PROTOTYPE EXPERT SYSTEM FOR COMPUTER SECURITY RISK ANALYSIS AND MANAGEMENT** - MUNINDER KALAY & PROF. DR. PETER JARRETT - UNIVERSITY OF BIRMINGHAM - SCHOOL OF COMPUTER SCIENCE - UNITED KINGDOM [ ↳ 25 ]

■ **THE NEED FOR DECENTRALIZATION AND PRIVACY IN MOBILE COMMUNICATIONS NETWORKS** - D.I. FRANK STOLL - ALBERT-LUDWIGS UNIVERSITY OF FREIBURG - INSTITUTE FOR INFORMATICS - GERMANY [ ↳ 26 ]

■ **IS LACK OF QUALITY SOFTWARE A PASSWORD TO INFORMATION SECURITY PROBLEMS ?** - PETER FILLERY & NICHOLAS CHANTLER - CURTIN UNIVERSITY OF TECHNOLOGY - CURTIN BUS. SCHOOL/SCHOOL OF INF. SYST. - WESTERN AUSTRALIA [ ↳ 27 ]

■ **SECURITY NEEDS IN THE PUBLIC SWITCHED NETWORK AND A METHOD TO IDENTIFY SHORTFALLS IN STANDARDS AND GUIDELINES TO PROTECT AGAINST ELECTRONIC INTRUSIONS** - ELEANOR HARRIS - THE MITRE CORP. - WASHINGTON C3 CENTER - UNITED STATES [ ↳ 28 ]

■ **SMART: STRUCTURED MULTI-DIMENSIONAL APPROACH TO RISK TAKING FOR OPERATIONAL INFORMATION SYSTEMS** - INC PAUL P.A. VAN DAM, ET AL - THE NETHERLANDS [ ↳ 29 ]

■ **IT AUDIT: THE SCOPE, RELEVANCE AND THE IMPACT IN DEVELOPING COUNTRIES** - DR. K. SUBRAMANIAN - MINISTRY OF FINANCE - COMPUTER DIVISION - INDIA [ ↳ 30 ]

■ **PROGRAM STRUCTURE FOR SECURE INFORMATION FLOW** - DR. JINGSHA HE - VDG INC. - USA [ ↳ 31 ]

■ **SECURITY, AUTHENTICATION AND POLICY MANAGEMENT IN OPEN DISTRIBUTED SYSTEMS** - RALPH HAUSER & STEFANO ZATTI - IBM RESEARCH DIV, ZURICH RESEARCH LAB./EUROPEAN SPACE AGENCY - SWITZERLAND/ITALY [ ↳ 32 ]

■ **A COST MODEL FOR MANAGING INFORMATION SECURITY HAZARDS** - LOVE EKENBERG, SUBHASH OBEROI & ISTVAN ORCI - STOCKHOLM UNIVERSITY & ROYAL INST. OF TECHNOLOGY - DEPT. OF COMPUTER AND SYSTEMS SCIENCES - SWEDEN [ ↳ 33 ]

■ **CORPORATE COMPUTER CRIME MANAGEMENT: A RESEARCH PERSPECTIVE** - JAMES BACKHOUSE & GURPREET DHILLON - THE LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE - I.S.D./C.S.R.C. UNITED KINGDOM [ ↳ 34 ]

■ **A HIGH LEVEL SECURITY POLICY FOR HEALTH CARE ESTABLISHMENTS** - ASS. PROF. DIMITRIS GRITZALIS, PROF. SOKRATIS KATSIKAS & JOHN DARZENTAS - T.E.I. OF ATHENS/AEgean UNIVERSITY - DEPT. OF INFORMATICS - GREECE [ ↳ 35 ]

■ **MOSS: A MODEL FOR OPEN SYSTEM SECURITY** - PROF. S.H. VON SOLMS, P.W.J. VAN ZYL & M.S. OLIVIER - RAND AFRIKAANS UNIVERSITY - DEPT. OF COMPUTER SCIENCE - SOUTH AFRICA [ ↳ 36 ]

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■ **EXPLORING MINIMAL BAN LOGIC PROOFS OF AUTHENTICATION PROTOCOLS** - A. MATHURIA, R. SAFAVI-NAINI & P. NICKOLAS - DEPT. OF COMP. SCIENCE - UNIVERSITY OF WOLLONGONG - AUSTRALIA [ ↳ 39 ]

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■ **APPLYING SECURITY CRITERIA TO A DISTRIBUTED DATABASE EXAMPLE** - DR. MARSHALL ABRAMS & MICHAEL JOYCE - THE MITRE CORP. - UNITED STATES [ ↳ 50 ]

■ **A COMPARISON OF INTERNATIONAL INFORMATION SECURITY STANDARDS BASED ON DOCUMENTARY MICRO-ANALYSIS** - PROF. WILLIAM J. CAELI & EM. PROF. DR. JOHN CARROLL - INFORMATION SECURITY RESEARCH CENTRE - QUEENSLAND UNIVERSITY OF TECHNOLOGY/UNIVERSITY OF WESTERN ONTARIO - AUSTRALIA/CANADA [ ↳ 54 ]

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[ ↳ \_\_ ] = TIME SLOT

# 10 years



# 10 years

## IFIP TC 11 - SEC'94

May 23-27, 1994 CURAÇAO, N.A.

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#### Registration fee US \$ 1,295\*

\* If you are a member of a national computer society you may be eligible for an extra discount. Fill in and sign this form completely, mark here  to apply for the discount, and fax the form before April 1, 1994 to the Conference Secretariat. I understand and agree to abide by the conditions as set out in the conference registration brochure. Date:

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#### 1B. CONFERENCE PAYMENT

I will wiretransfer the applicable amount to the High Tech Port Curaçao Foundation within 5 days after my fax-registration, or  I enclose a cheque for the applicable amount made payable to the High Tech Port Curaçao Foundation

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The conference registration fee amounts US \$ 1,295 for regular registrations per individual. If you are a member of a national computer society you may be eligible for a discount. Late charges and cancellations: Registrations received after May 1, 1994 are charged with an extra late charge of 10 %. Substitutions may be made at any time, though please advise us of a change of name. If you find it necessary to cancel the place completely, please telephone the conference office immediately and ask for a cancellation number. Please confirm in writing quoting your cancellation number. Provided written notice is received by May 1, 1994 a full refund will be given, less a 15 % administration charge. It is regretted that cancellations received after May 1, 1994 are liable for the full registration fee. Payment: The registration fees are immediately due upon registration and all cheques should be made payable to the High Tech Port Curaçao Foundation, accompanying the signed registration form. Alternatively registrations by fax and electronic mail are accepted, provided the payment for the full amount due in US dollars is released by wiretransfer in favour of the High Tech Port Curaçao Foundation within one week after the registration is confirmed by fax/electronic mail. Fax and/or electronic mail registrations must be completed before May 1st, 1994. If payment is not received within stated period the registration is automatically cancelled and voided. Forms not signed or correctly filled in are not valid registrations. Conference registration fees should be paid in US \$ only, to prevent excessive exchange charges. It is possible to pay by credit card, however a surcharge of 25 % is levied due to local monetary restrictions and policies. A separate credit card form is available upon request. Immediately after registration you will receive a registration-confirmation. Included in the conference fee is the admittance to all sessions of all tracks of the conference; the lunches during Tuesday, Wednesday Thursday and Friday; coffee and tea during the intermissions; a welcome cocktail at your hotel; one admission ticket per delegate to the formal conference dinner/banquet; the handout of the conference procedures. Registrations made after April 15th are on a space available basis only. If you apply for a discount the registration form and payment must be received before April 15, 1994. All other services ordered, are separately billed, payable upon receipt of the respective order confirmation.



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Prof. Ronald Rivest - United States - Massachusetts Inst. of Technology  
Mr. Juhani Soari MBA - Finland - International Baseline Security  
Prof. Dr. Ravi Sandhu - United States - George Mason University  
Dr. Ing. Ingrid Schoumueli-Bichl - Austria - Genesis Consulting  
Ir. Ger J. Schuringa - Netherlands - Robobank Netherlands  
Prof. Dr. Bart de Schutter - Belgium - Free University Brussels  
Dr. Sanford Sherizen - United States - Data Security Systems

## AWARDS

Technical Committee 11 of the International Federation for Information Processing presents during its 10th event two prestigious awards.

The **Kristian Beckman Award** has been established by the IFIP Technical Committee 11 to commemorate the first chairman of the committee, Kristian Beckman from Sweden, who was also responsible for promoting its founding in 1983. Granted annually to a successful nominee it is presented at the annual IFIP Security Conference. The objective is to publicly recognise an individual, not a group or organization, who has significantly contributed to the development of information security, especially with an international perspective.

To specially celebrate the tenth annual conference the organizers have decided to also present a **Best Paper Award** to be given to the individual presenting the most significant paper at SEC'94. The audience will select the winning presentation/individual.

## SEE YOU THERE!

May 23-27, 1994

Combined Convention

Facilities

Curaçao

Dutch Caribbean

