

George D.H. Hertzberg, MS, CIA, CDP

Businessman; College professor/administrator; Public servant; Manager; Pioneer in computer languages, data communications and in systems security, audit and control. Founder/leader of learned professional associations; Salesman; Crusader against waste, inefficiency, and corruption; Whistle-blower; Soldier. Civil rights activist; Singer, songwriter, event planner; Community service volunteer; Fighter against bigotry and injustice; Proponent of the arts and multicultural understanding; Husband and father.

BRIEF BIO

Mr. Hertzberg is founder and senior officer of Data Day Inc. and of its two subsidiaries, PAGE Assured Systems and Hertzberg, Harellick & Co. He has been in computing since 1958, and focused on systems security, audit and control since 1969. A lifelong educator, he was Curriculum Coordinator, computer curricula at NYU and Assoc. Professor, Information Sciences, Fairleigh Dickinson University and at Baruch College, CUNY. He created and directs The Users' Partnerships and their chapters.

George was a founder and senior officer of the New York Metro chapters of the Information Systems Security Association (ISSA) and the Information Systems Audit and Control Association (ISACA). He created ISSA and ISACA Annual Conferences and provides worldwide seminars, training programs and symposia for these and other professional organizations. His Formulae on Risk Analysis and Control are now the standard. His initiation and direction of the Single-Sign-on and Internet Security committees of the ISSA have received wide acclaim.

Professor Hertzberg was a pioneer in programming languages for the late Admiral Grace Hopper in the development of COBOL and an early implementer of data communications. He served as a project manager, systems analyst and programmer of human resources and materials requirements applications for Exxon. George was Director of EDP Audit and Systems Security for Empire Blue Cross/Blue Shield; and Chief, Bureau of EDP Audit, Comptroller's Office, New York City. He also participated in President Reagan's Private Sector Survey on Cost Control (The Grace Commission.) and was the only Democrat on the Board of Directors of the New Jersey Action Committee for the Grace Commission.

Hertzberg received the coveted *Thomas J. Fitzgerald Award* for outstanding achievement in the field of Systems Security and for his career-long service to IT Audit and Control. His engagements include management, control, security, and contingency planning as well as evaluation and audit of data communications. He provides architecture, design & integration for security and audits of UNIX, Win NT & XP, SUN and other platforms. He has been cited for his outstanding reviews and cost-containment and security solutions for internet applications.

NORWOOD COMMUNITY SERVICE ACTIVITIES

Member of Emergency Response Planning Committee; Board of Education; Shade Tree Committee; Cable Television Committee; Centennial Committee.
Chairman of Green Acres/Open Space Planning Committee.

OTHER COMMUNITY SERVICE ACTIVITIES

Volunteer in President's Private Sector Survey on Cost Control (Grace Commission)
Member of Board of Directors - New Jersey Action Committee for the Grace Commission;
Member of Northern Valley Lodge Northern Valley B'nai B'rith, ADL chairman 18 years, President.
Director of Americans All, NGO (Providing events of Multicultural/Multi Ethnic Celebration)
Active in Civil Rights movement, provided entertainment on bus to 1963 March on Washington.
Director of the Rose Hertzberg Legacy Foundation (Funding education for women in the arts.)
Member of Temple Emanuel (Woodcliff Lake) Men's Club:
Chairman, Civics Committee - Organizing political and issue debates and presentations
Chairman, Arts and Culture Committee - Organizing presentations, performances, exhibits
Active in Fund raising and Holocaust yellow candle committees

ACADEMIC POSITIONS and RESPONSIBILITIES:

- Baruch College, C.U.N.Y. Lecturer, DP Center Manager New York, NY
Taught graduate and undergraduate statistics, computer science & security courses; created new computer laboratory
- Fairleigh Dickinson University Associate Professor Rutherford, NJ
Taught undergraduate statistics, computer science & created the first advanced graduate IT audit/security courses in USA
- New York University, SCE Curriculum Coordinator New York, NY
Designed curriculum, managed registration for IT courses and taught graduate IT audit/security courses

PUBLIC AND CORPORATE POSITIONS and RESPONSIBILITIES:

- UNISYS Corp. Analyst/Programmer 1st & 2nd Generation computers, Newark, NJ, Philadelphia, PA
Developed/programmed customer business applications; helped develop/test COBOL programming language
- ITT Corp. Analyst/Project Manager 2nd Generation & switching computers Paramus, Washington
Designed/programmed Strategic Air Command & Navy inventory systems; pioneered Army data communications systems
- Exxon Corp. Sr. Project Manager/IT Auditor, 3rd Generation computers New York, Caracas, Venez.
Managed, implemented oil business applications converted inventory systems to 3rd generation; pioneered systems audit
- Empire Blue Cross Blue Shield Director, EDP Audit and Security New York, NY
Created/managed IT audit & IT Security departments directed audits of insurance applications designed systems controls
- New York City Comptroller Chief, Bureau of EDP Audit New York, NY
Introduced/ directed IT audit function; responsible for auditing all city agencies, including OTB, Planning, FISA, DOT

CURRENT BUSINESS RESPONSIBILITIES:

Data Day, Incorporated, CEO and Chairman - Data Day offers total security, quality assurance, risk reduction, loss prevention, cost containment, control and management solutions of information systems, communications, networks and Internet applications. The firm develops, markets/sells superior products and has a strong international reputation in IT consulting, audit, training, personnel, administrative and vendor advisory services. There are two Subsidiaries of Data Day: PAGE Assured Systems, Inc, President & Senior Partner - a firm of 47 network & IT management consultants and educators in development, audit, security and control. PAGE regularly receives high praise for its thoroughness.

Hertzberg, Harelick & Co, President - provides worldwide seminars and training programs and runs conferences for professional societies on the role of IT audit and security in computing, data communications and the Internet. The firm is also currently responsible for the development of membership, membership services, sponsor acquisition, sponsor services, educational programs and meeting planning for the chapters of The Users' Partnerships, as well as chapter expansion.

SELECTED CONSULTING, ENGAGEMENTS, RESPONSIBILITIES & ACHEIVEMENTS:

- Conducted reviews, analyses and tests of the IT security / data integrity architectures of major utilities, financial institutions and government agencies – revealing substantial exposures and vulnerabilities.
- Lead team of systems auditors + security specialists in an IT security controls and cybercrime audit of the New York City School Construction Authority utilizing compliance evaluations and substantive tests of control.
- Providing detailed analysis of security products for the distributed networks of a very large national telecommunications company and one of its customers, an international bank. This effort included design of criteria, development of exhaustive test scripts, rigorous testing and reporting.
- Designing systems security mission, policies, standards & procedures and disaster recovery/continuity programs and auditing for a nationwide network of 24 multi-platform data centers for a large machine tool distributor. The project included risk analysis as well as security architecture development, testing and training
- Risk analysis and audit of the large payment system of US Treasury's Financial Management Service, uncovering \$billions in security exposures and millions in actual cash flow losses. See NY Times, Feb 1986.

- Audit of the US Selective Service System's, Automated Draft Registration System (North Chicago, IL) from receipt of draft registrations through data entry and storage to retrieval and interactive registrant interface.
- Planning and directing Year 2000 processes for large clients in investment banking, real time trading, insurance and government. These included: assessment, inventory, impact analysis, planning, source code and systems documentation, date search, program and database renovation. These efforts were integrated with QA, change management and security procedures plus disaster recovery/continuity programs and test implementation.

SOME RECENT PAPERS, PUBLICATIONS and PRESENTATIONS:

- *Auditing Internet, Intranet and World Wide Web Utilization*
- *Computer & Network Security - Barrier or Aid to Realizing the IT Promise*
- *Disaster and Business Interruption – Prevention, Detection, response and Recovery*
- *IT Downsizing: You Bet Your Business Either Way*
- *The Design, Implementation, Control, Audit and Certification of Y2K Change Management, and Testing*
- *Integrating Firewalls and Client/Server/Distributed Computing Security Software*
- *Protecting Corporate Assets with Internet Firewalls, VPNs, PKI*
- *Inside the Periphery - Point-of-Asset Security*
- *Are My Application & System S/W Auditable & Secure?*

PROFESSIONAL ASSOCIATIONS, ACTIVITIES and ACCOMPLISHMENTS

Information Systems Security Association, • Advisor and Past President, NY Chapter, Created Annual Conference
 • Chairman ISSA Single Sign-on Committee, • Coordinator ISSA Internet Security Committee
Information Systems Audit/Control Association, Founder, Past Vice Pres. NY Chapter, Conduct National Courses
Institute of Internal Auditors, Former Director & Treasurer, NJ Chapter
Computer Assisted Audit Tools & Software Auditability Users' Partnerships National Executive Director
IT Security Practitioners Users' Partnerships National Executive. Director
Association for Computing Machinery; Former Board Member, NY Chapter
Association for Systems Management; Former Board Member, NJ Chapter

POLITICAL ACTIVITIES

Norwood Democratic Club: Municipal Chairman, County Committeeman, Newsletter Editor, Fund raiser
 Member of Bergen County Adlai Stevenson for President, organized motorcade to Palisades Park rally

EDUCATION

- University of Vermont, Bachelor of Arts, Major: Mathematics, Minor: Biology 1962
- Stevens Institute of Technology, Master: Management Science,
 Major: Operations Research, Minor: Computer Science 1970
- Rutgers University/Stevens Institute of Technology, Pursued Ph.D.: Business Admin.
 Major Economics and Information Systems Technology, Minor in Applied Psychology

AWARDS and CERTIFICATIONS

CDP (Certificate in Data Processing) 1966
 Psi Chi - Honorary Society in Psychology 1973
 CIA (Certified Internal Auditor) 1984
Thomas J. Fitzgerald Award (ISSA) 1995

OTHER QUALIFICATIONS

Languages: Spoken Spanish
 Defense Security Clearance - Secret, and temporary Top Secret
 US Army, Honorably Discharged, 1959
 1956-65: Professional folk singer, entertainer