

# **GERHARD H. STEINKE, PH.D.**

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Seattle Pacific University  
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## **EDUCATION**

- CISSP, (Certified Information Systems Security Professional), August 2000
- Ph.D., University of Passau, Germany, 1992  
Dissertation: Task-based Security for Knowledge Base Systems  
Supervisor: Prof. Dr. Matthias Jarke
- M.Div., Anderson University, School of Theology, Anderson, IN, June 1985
- M.A. Religion, Anderson School of Theology, Anderson, IN, June 1984
- M.B.A., Ball State University, Muncie, IN, May 1984
- B.S., Honors in Computer Science, University of Alberta, Edmonton, Alberta, May 1975

## **TEACHING / RESEARCH INTERESTS**

Teaching and research in the areas of Information Systems Management, Information Security, IS Project Management, IT Governance and Healthcare Informatics, as well as Privacy, Legal and Ethical issues.

## **COURSES OFFERED AT SEATTLE PACIFIC**

- Management Information Systems
- Information Systems Security
- System Development and Project Management
- Telecommunication and Networking
- IT Organization and Role of CIO
- Health Informatics

## **PROFESSIONAL EXPERIENCE**

Professor of Management and Information Systems, Seattle Pacific University, School of Business and Economics, Seattle, WA, from 9/97 to present.

Adjunct Professor of Management and Information Systems, The University of Texas at Dallas, from 2012 to present.

Guest Professor, Duy Tan University, Danang, Vietnam. Taught Information Systems, IT Project Management, Database Management, and Information Security, 2009-10.

Adjunct Professor of Management and Information Systems, Infotec, Mexico City, Mexico, from 2003 to present.

Adjunct Professor of Management and Information Systems, Emanuel University, Oradea, Romania, from 1999 to present.

Associate Professor of Management and Information Systems, Seattle Pacific University, School of Business and Economics, Seattle, WA, from 9/92 to 8/97.

Researcher-Programmer, University of Passau, Faculty of Mathematics and Computer Science, Prof. Dr. M. Jarke, Passau, Germany, from 8/88 to 8/92.

Lecturer, Senior Lecturer, Center for Computing Studies and Services, Hong Kong Baptist University, Hong Kong, from 8/85 to 6/88.

Assistant Professor, Department of Computer Science, Anderson University, Anderson, Indiana, from 9/81 to 6/85.

Lecturer, University of Alberta, University of British Columbia - RIA (Registered Industrial Accountants) and Chamber of Commerce programs, from 1979 to 1981.

Consultant, Systems West Consultants, Edmonton, Alberta, from 1979 to 1980  
consulting assignments clients included:  
- Alberta Government Telephones  
- Alberta Vocational Center, Government of Alberta  
- Department of Finance, Government of the Northwest Territories.

Systems Analyst, Alberta Government Services, Computing Systems and Development Department, Edmonton, Alberta, from 1977 to 1978.

Programmer Analyst, Government of Canada, Systems Directorate Group at Customs and Excise Department, Ottawa, Ontario, from 1975 to 1976.

Analyst, City of Edmonton, Edmonton Transit, Edmonton, Alberta, from 1973 to 1975.

Teaching Assistant, University of Alberta, Edmonton, Alberta, from 1973 to 1975.

## **RECENT CONSULTING ASSIGNMENTS**

IT Security Risk Assessment Examinations: Conduct Information System and Technology Security Audits of credit unions in the state of Washington

Seminar Presentations: Presented seminars on "Information Security" in Mexico, Dubai and Malaysia. Presented seminar on "Organizing the IT Function" to IT Managers at PEMEX and government Chief Information Officers (CIOs) in Mexico City.

AT&T Wireless: Responsibility for examining security policies and procedures related to electronic commerce, working on a Computer Emergency Response Team (CERT) process and evaluating various security issues facing the organization.

Microsoft: Consultant in the Corporate Security Department and MSN Security Team. Participated with their Red Team in finding security vulnerabilities and developing an Operation Security Policy.

The Boeing Company: Awarded a Boeing Faculty Fellowship to evaluate computer security initiatives in their Research and Applied Technology section.

## **PUBLICATIONS**

### **Books**

“Consumer Adoption of Electronic Commerce: The US Perspective”, Chapter in Doing Business on the Internet, published by Springer Verlag in 1999.

Task-Based Security for Knowledge Base Systems, Reihe Informatik, Shaker Verlag, Aachen, Germany 1992. (Dissertation)

### **Journals**

Steinke, Gerhard, Emanuel Tundrea and Kenmoro Kelly. "Towards an Understanding of Web Application Security Threats and Incidents." *Journal of Information Privacy & Security* 7.4 (2011): 54-69.

“Mitigating the Adversity of Outsourcing: Outsourcing from the Employee’s Perspective”, with Sarah Schillen, *Communications of the IIMA*, Volume 11.1, pp. 63-74, 2011.

"Integrating Failure Mode Effect Analysis into the Medical Device Approval Process", with Vania Kurniawati and Jim Nindel-Edwards, *Communications of the IIMA*, Volume 10.3, pp. 49-58, 2010.

"Ethical Issues in the Software Quality Assurance Function”, with J. Nindel-Edwards, *Communications of the IIMA*, Volume 8. 1, pp. 53-58, 2008.

"The Development of a Thorough Test Plan in the Analysis Phase leading to more Successful Software Development Projects", with J. Nindel-Edwards, *Journal of International Technology and Information Management*, Volume 16, Number 1, 2007.

“A Full Life Cycle Defect Process Model That Supports Defect Tracking, Software Product Cycles, And Test Iterations”, with J. Nindel-Edwards, *Communications of the IIMA*, Volume 6, Issue 1, 2006.

“Review of IT Offshore Outsourcing Issues”, with H. Carothers, *Communications of the IIMA*, Volume 4, Issue 2, 2004.

“Business Rules as the Basis of an Organization’s Information Systems”, with C. Nickolette, *Journal of Industrial Management and Data Systems*, pp. 52-63, Vol 103, Number 1, 2003.

"Biometrics and Privacy", with Paul Tolo, *Communications of the IIMA Journal*, Volume 2, Issue 1, 2002.

Data Privacy Approaches from US and EU Perspectives", *Telematics and Informatics Journal*, Jan. 2002.

"The Development of Computer Ethics: Contributions from Business Ethics and Medical Ethics", with Kenman Wong, *Science and Engineering Ethics*, Vol. 6, 2000.

"Crossing the International Teaching Divide: The Evaluation of an Internet Based Teaching Project" with D. Scott, C. Cramton, S. Gauvin and B. Lobert-Jones in *Jouranl of Teaching in International Business*, Vol. 10, No. 3-4, 1999.

"A Task-based Approach to Implementing Security", *Journal of Computer Information Systems*, Fall 1997.

"Security vs. Integrity in Information Systems", *Journal of International Information Management*, Spring 1997.

"Design Aspects of Access Control in a Knowledge Base System", *Computers & Security*, November 1991, Vol. 10, 612-625 (revised version of paper delivered at SECURICOM 90).

"Ethical Considerations when using Computers in the Educational Environment", *Hong Kong Computer Journal*, July 1988, pp. 22-29.

#### **Trade Journals and Newsletters**

"Back to School" with H. Brelsford, Microsoft Certified Professional Magazine, November/December 96 issue.

"Network Security", with S. Bare, American Institute of Certified Public Accounts, *AICPA InfoTech Update*, Summer 1995.

"Call for Discussion on Computer Ethics", *Newsletter*, Center for Applied Ethics, Hong Kong Baptist University, Vol. 3, No. 1, May 1995.

#### **Conference and Symposium Proceedings**

"Integrating Human Computer Interaction Testing into the Medical Device Approval Process", with J. Nindel-Edwards, 20<sup>th</sup> Annual International Information Management Association Conference at Prairie View A&M University, Houston, Texas, Oct. 2009.

"Another Way of Teaching Management Information Systems", with R. LaBrie, CBFA, Indianapolis, Nov. 2008.

"A Test Plan as an Essential Component of Requirements Engineering" with J. Nindel-Edwards, 16<sup>th</sup> Annual International Information Management Association Conference, Dublin, Ireland, Sept. 22-24, 2005.

"The Future of Academic Publishing and JITIM", Panel Chair, 14<sup>th</sup> Annual International Information Management Association Conference in Las Vegas, Oct. 8-10, 2003.

“Business Rules as the Basis for Effective Information Systems Management” with C. Nickolette, IIMA, Breckenridge, Oct. 2001.

“Privacy and E-Commerce: US vs. the European Community”, Information Resources Management Association (IRMA), Toronto, May 2001.

“Banks as Intermediaries in Small Business to Business Electronic Commerce”, with Mareika Schoop, Institute for Operations Research and the Management Sciences, INFORMS, Salt Lake City, May 2000.

“Developing a Repository for Course Materials Accessible via the Web”, Western Decision Sciences, Hawaii, April, 2000.

“Issues holding back Consumer Adoption of Electronic Commerce”, IIMA, San Bernardino, October 1998.

“Student Collaboration using the WWW” with Robert Schaffer, 27<sup>th</sup> Annual Western Decision Sciences Institute, Reno, Nevada, April 7-11, 1998

“The Development of Computer Ethics: Contributions from Business Ethics and Medical Ethics” with Kenman Wong, ETHICOMP 98, Erasmus University, The Netherlands, March 25-27, 1998

“Emerging Information Technologies and Innovation Diffusion in Higher Education”, IIMA, Toronto, December 1997.

“Preparing Students to Communicate in a Virtual Environment”, ACM, The First Society in Computing Special Interest Group on Computer Personnel Research, The Impact of the New Connectivity, April 3-5, 1997

“Virtual Learning using the WWW”, Western Decision Sciences Institute, March 25-29, 1997

“Ethical Concerns in Developing Expert Systems”, with M. Hendrix, Annual Conference of the International Association for Computer Information Systems, Las Vegas, Nevada, September 26-28, 1996.

“On the Effectiveness of Teamwork in Virtual Environments”, with S. Gauvin, B. Lobert and U. Gupta, 12th International Conference on Industrial Marketing and Purchasing, Karlsruhe, Germany, September 5-7, 1996.

“Information Security Issues facing Virtual Enterprises”, with R. Leamon, 1996 International Conference on Engineering and Technology Management, IEEE Engineering Management Society, Vancouver, B.C., August 18-20, 1996.

“Protecting Knowledge in Virtual Organizations”, International Workshop on Enterprise Security, IEEE Fifth Workshops on Enabling Technologies: Infrastructure for Collaborative Enterprises, Stanford, California, June 19-21, 1996.

“Providing Security Constraints in Knowledge Base Systems”, *Proceedings of the 6th Annual Conference of the International Information Management Association*, Georgia, October 11-13, 1995.

"Electronically Mediated Business Education", *Proceedings of the Christian Business Faculty Association Annual Conference*, Canton, Ohio, October 5-8, 1995.

"Protecting Knowledge Bases in Virtual Organizations", with C. Olsen, *Proceedings The First South China International Business Symposium*, Macau, March, 1994.

"Managing End-User Computing: The Potential and Risks of User-Developed Applications", with R. Leamon, *Proceedings Fifth Annual Conference of the International Information Management Association*, Las Vegas, Nevada, October 1994.

"Security Modeling for Organizational Information Systems", with M. Jarke, *Proceedings ICSC 92, Second International Computer Science Conference, Data and Knowledge Engineering: Theory and Applications*, Hong Kong, December 1992.

"Support for Security Modeling in Information Systems Design", with M. Jarke, *Proceedings of the IFIP TC11/WG 11.3 6th Working Conference on Database Security*, Vancouver, Canada, August 1992.

"Mandatory and Discretionary Security for the Object-Oriented Environment", *Proceedings SUUG National Annual Conference*, Vladimir, Soviet Union, September 23-28, 1991.

"Towards a Strategy for Achieving Security and Multi-User Integrity in Knowledge Base Systems", *Proceedings Second International Workshop on the Deductive Approach to Information Systems and Databases*, Costa Brava, Spain, September 9-11, 1991.

"Task-based Security Considerations in a Knowledge Base System", *Proceedings HCI International 91, International Conference on Human Aspects of Computing and Information Management*, Stuttgart, Germany, September 2-6, 1991.

"Modularization in an Object-Oriented Knowledge Base System", *Proceedings SAC, IEEE Symposium on Applied Computing*, Kansas City, MO, April 3-5, 1991.

### **Seminars and Presentations**

"A Call for Deeper Integrating of IT Ethics into the Business Curriculum". Poster presentation at the Christian Business Faculty Association (CBFA) Annual Conference. Lakeland, FL, October, 2010.

"Creating a Secured Virtual Organization", confirmed presenter at the Annual Meeting and Science Innovation Exposition, AMSIE 97, which is sponsored by the American Association for the Advancement of Science, AAAS, in Seattle, February 13-18, 1997.

"Security in Virtual Organizations", Seminar at RWTH Aachen, August 2, 1996.

"Sharing Knowledge in a Virtual Environment", Education on the Information Superhighway Track at Edu.Tech@Work Conference organized by the Northwest Center for Emerging Technologies (NWCET), Keynote speakers: Bill Gates, Phil Condit, May 2-3, 1996.

"Virtual Assignment: A Collaborative Business Course with Students in Four Countries using E-mail", International Business Education Panel, Northwest International Education Association, Battelle, Seattle, April 26, 1996.

**CLEP Test Development Committee (2009-)**

Appointed to the College Level Examination Program (CLEP) Test Development Committee, serving on the Information Systems and Computer Applications Committee. This committee reviews and shapes exam questions and specifications on a regular basis.

**Reviewer/Referee for:**

- *ACM Transactions on Database Systems*
- IFIP WG 11.3 Working Conference on Database Security
- *Journal of Computer Security*
- *Data and Knowledge Engineering Journal*

**NSF Review Panels**

Served as reviewer and panel member on several panels, including:

- Security (05SB1IT-19) August 11, 2004
- NSF SBIR G.3.1 Security Technology September 4, 2003
- NSF SBIR A.6.1 Information Security September 12, 2003
- NSF SBIR G.3.2 Authentication September 10, 2003

**Held Membership in following Organizations**

- ACM - Association for Computing Machinery
- AIS -Association for Information Systems
- CBFA - Christian Business Faculty Association
- IAIM - International Academy for Information Management
- IEEE - Institute of Electrical and Electronics Engineers
- IEEE Computing Society
- IIMA - International Information Management Association

**Editorial Review Board Member**

- *Journal of International Technology and Information Management*
- *Journal of International Information Management*
- *Advances in Business Marketing and Purchasing Journal Series*
- *Communications of the IIMA (2011-)*

**Honor Societies**

- Lifetime Achievement Award presented by the International Information Management Association, October, 14, 2009.
- Fellow of the International Information Management Association (IIMA) Nov, 2002
- Beta Gamma Sigma - National Honor Society for Business Administration Students
- Sigma Beta Delta - National Honor Society in Business, Management and Administration

**Committees**

- Founding Member, Information Systems Academic Heads International, 2005
- President for the International Information Management Association 1998, 2001
- Conference Chair for the Eleventh Annual Conference of the International Information Management Association, Seattle, Oct. 2000.
- Boeing University Interchange, Planning Group, Fall 1995, 1996, 1997.

**Other Activities**

- VIP Member, Tech Execs in Seattle, 2009-, [www.techexecs.net](http://www.techexecs.net)
- Member of the SPU Fulbright Committee (2006-7)
- Awarded Boeing Faculty Fellowship, Summer 1998
- Participant in “Development of Skill Standards for Information Technology” group for the Northwest Center for Emerging Technologies (NWCET), July 1996.
- Involved in planning for DCS offering of Microsoft Certified Systems Engineer Education Program, Spring 1996.
- Contributor to *Computerworld* report, “IS Schools: Need Improvement” by Joseph Maglitta, February 19, 1996.