

Kenneth J. Knapp
Curriculum Vitae

Current Position

Lieutenant Colonel, United States Air Force
Deputy for Operations
Assistant Professor
Department of Management
United States Air Force Academy, CO

Previous Academic Positions

1999 – 2002 Assistant Professor, Director of Curriculum
Department of Management
United States Air Force Academy, CO

1998 – 1999 Instructor of Business
Hardin-Simmons University, Abilene, TX

Education

PhD, Management, 2005
Management of Information Technology and Innovation program
Auburn University, Auburn, AL

Air Command and Staff College Seminar, 2000
Air University, Maxwell AFB, AL

Master of Business Administration – Information Systems, 1994
Auburn University, Montgomery, AL

Bachelor of Science – Computer Science, 1988
DeSales University, Center Valley, PA

Dissertation

Knapp, K. J. “A Model of Managerial Effectiveness in Information Security: From Grounded Theory to Empirical Test.” Auburn University. Dissertation Chair: Thomas E. Marshall. December 16, 2005.

Journal Publications

Knapp, K. J., Marshall, T. E., Rainer, R. K, and Ford, F. N. “Information Security Effectiveness: Conceptualization and Validation of a Theory,” *International Journal of Information Security and Privacy*. Forthcoming 2007.

Knapp, K. J., Ford, F. N., Marshall, T. E., and Rainer, R. K. "The Information Security Common Body of Knowledge: A Framework to Promote Relevant Information Security Research", *Journal of Digital Forensics, Security, and Law*. Volume 2, Issue 1, 2007, pp 9-34.

Rainer, R. K., Marshall, T. E., Knapp, K. J., Montgomery, G. H. "Do Information Security Professionals and Business Managers View Information Security Issues Differently?" *Information Systems Security*. Forthcoming 2007.

Knapp, K. J., Marshall, T. E., Rainer, R. K., and Morrow, D. W. "The Top Information Security Issues Facing Organizations: What Can Government Do to Help?" *Information Systems Security*. 15(4), September/October 2006, pp 51-58.

Knapp, K. J., and Boulton W. R., "Cyber Warfare Threatens Corporations: Expansion into Commercial Environments", *Information Systems Management* (23:2), Spring 2006, pp 76-87.

- 2006 Emerald Citation of Excellence – Top 50 Paper Award

Knapp, K. J., Marshall, T. E., Rainer, R. K., and Ford, F. N. "Information Security: Management's Effect on Culture and Policy", *Information Management & Computer Security* (14:5), 2006, pp 24-36.

Knapp, K. J., Morris, R., Rainer, R. K., and Byrd, T.A. "Defense Mechanisms of Biological Cells: A Framework for Network Security Thinking," *Communications of the Association for Information Systems* (12:47), December 2003, pp 701-719.

Knapp, K. J. "An Integrated Command and Control System", *CrossTalk, The Journal of Defense Software Engineering* (formerly *Crosstalk, The Air Force Journal of Software Engineering*), November 1992.

Book Chapters

Knapp, K. J. and Morris R. "Security Architecture of Biological Cells: An Example of Defense in Depth." in: *Information Security Management Handbook* (2008 edition), H.F. Tipton and M. Krause (eds.), Auerbach Publications, New York. Forthcoming.

Knapp, K. J. and Marshall, T. E. "Top Management Essential for Effective Information Security" in: *Information Security Management Handbook* (2007 edition), H.F. Tipton and M. Krause (eds.), Auerbach Publications, New York. Forthcoming.

Knapp, K. J. and Boulton W. R., "Ten Information Warfare Trends" in *Encyclopedia of Cyber Warfare and Cyber Terrorism*, L. J. Janczewski & A. M. Colarik (eds.), Idea Group Publishing, Hershey, Pennsylvania. 2007. Forthcoming.

Research Reports

Knapp, K. J., Marshall, T. E., Rainer, R. K, and Ford, F. N. “Managerial Dimensions in Information Security: A Theoretical Model of Organizational Effectiveness”. October 15, 2005. (ISC)² Inc., Framingham, Massachusetts and Auburn University, Auburn, Alabama.

Knapp, K. J., Marshall, T.E., Rainer, R.K., and Morrow, D.W. (2004). “Top Ranked Information Security Issues: The 2004 International Information Systems Security Certification Consortium (ISC)² Survey Results.” February 2004. (ISC)² Inc., Framingham, Massachusetts and Auburn University, Auburn, Alabama.

Knapp, K. J. (editor). “Air Force Command and Control System (AFC2S) Lessons Learned”. A collection of 18 short papers about the potential pitfalls of modernizing complex software systems. Standard Systems Group, Gunter AFB, Alabama, December 1993.

Conference Presentations

Knapp, K. J. & Morris R. *Development of an Information Security Policy Process Model*. RSA Information Security Conference. Presented with commentary from Steve Lipner, Microsoft Corporation’s Senior Director of Security Engineering Strategy. Session sponsored by (ISC)². San Francisco, California. February 8, 2007.

Knapp, K. J., & Marshall T. E. *Information Security and Task Interdependence: An Exploratory Study*. Presented at the Hawaii International Conference on System Sciences (HICSS-40). January 3-6, 2007.

Knapp, K. J. & Marshall T. E. *Managerial Dimensions in Information Security: A Theoretical Model of Organizational Effectiveness*. Presented at RSA Conference, (ISC)² Reception. San Jose, California. February 15, 2006.

Knapp, K. J. *Network Firewall Configuration and Operation: Strategy & Tactics*. Presented at the Air Force Information Technology Conference. Montgomery, Alabama. August 2002.

Media Coverage of Research

Media coverage of research includes outlets such as *Computerworld*, *Network World*, *CIO*, and *CSO* magazines and (ISC)² press releases. A complete list is available upon request. Examples:

Christiane, P. “Top-Management an Sicherheitsfragen interessiert.” *CIO Magazine* (German Edition). February 24, 2006. Site: www.cio.de

Top Management Support Essential For Effective Information Security Program, Says Auburn University Study. (ISC)² Press Release via *Business Wire*. San Jose, Calif., February. 16, 2006.

Other Scholarly Work

Knapp, K. J. "Perspectives of Information Security." Seven-hour presentation to 23 doctoral students at Colorado Technical University. January 12, 2007.

Research Proposal Reviewer and Evaluator for the *Institute for Information Technology Applications (IITA)*. USAF Academy. 2002-2003, 2005-Current.

Knapp, K. J. "Top Management Essential for Effective Information Security". Research Colloquium. USAF Academy, Department of Management. April 11, 2006.

Knapp, K. J. "Top Ranked Information Security Issues: The 2004 International Information Systems Security Certification Consortium (ISC²) Survey Results". Research Colloquium. Auburn University, School of Business. April 21, 2004.

Knapp, K. J. & Morris, R., "Defense Mechanisms of Biological Cells: A Framework for Network Security Thinking," Research Colloquium. Auburn University, School of Business. September 12, 2003.

Knapp, K. J. "Information Technology Coverage in the Curriculum." Research Colloquium. USAF Academy, Department of Management. April 25, 2001.

Manuscript Reviewer

Communications of the Association for Information Systems (CACM)
Journal of Digital Forensics, Security and Law (JDFSL)
International Conference on Information Systems (ICIS)
Hawaii International Conference on System Sciences (HICSS)

Other Publications

Knapp, K. J. "COMPUSEC Focus Key to Winning Information War", *Peacemaker* (Dyess AFB). 19 February 1999.

Professional Experience

1997 – 1999 Information Systems Flight Cmdr, Dyess AFB, TX
▪ 1998 *Air Combat Command Information Assurance Organization of the Year*
1993 – 1996 Computer Network Manager, HQ AFSOC, Hurlburt Field, FL
1992 – 1993 Executive Officer, Standard Systems Grp, Gunter AFB, AL
1989 – 1992 Information System Analyst, Standard Systems Grp, Gunter AFB, AL

USAF Academy Teaching Experience

Management Perspectives (Mgt 303, Spring 02, Fall 05, 06)
Management Information Systems (Mgt 391, Spring 01, 02, 06)

Information Technology for Organizations (Mgt 391, Spring 07)
Electronic Commerce (Mgt 392, Fall 00, 01, 06)
Organizational Networks in Cyberspace (Mgt 391, Fall 07)
Introduction to Management (Mgt 210, Fall 99, 01)
Introduction to Computer Science (Comp Sci 110, Fall 99)

Other Teaching Experience

Adjunct Professor, Colorado Technical University, Colorado Springs, CO.
Doctorate of Computer Science program
Software System Metrics and Risk Analysis (CS 840, Fall 2006)

Hardin-Simmons University, School of Business. Abilene, TX.
Information Systems Analysis (CSCI 4322, Fall 1998)
Information Systems Design (CSCI 4326, Spring 1999)

New Courses Developed or Substantially Revised

Information Technology for Organizations (Mgt 391)
Electronic Commerce (Mgt 392)
Information Systems Analysis (CSCI 4322)
Information Systems Design (CSCI 4326)

Vita Current as of March 2007