

University Senate Chair Award Information Packet
Tom L. Roberts, Ph.D.

Part A. Courses Taught and Teaching Evaluation Ratings

I joined the faculty at Louisiana Tech University in Fall 2006. Since arriving I have taught at the Undergraduate, Master's, and Doctoral Level. I am currently serving on five doctoral dissertation committees.

Term	Course	Course Title	Rating	Prep
Winter 2008	*CIS 521	Introduction to Information Assurance	3.6	New Prep
Winter 2008	*CIS 421	Introduction to Information Assurance	3.9	New Prep
Fall 2007	CIS 444	Computer Networking	3.9	
Spring 2007	CIS 444	Computer Networking	3.9	
Winter 2007	CIS 646	Doctoral MIS Research	4.0	New Prep
Fall 2006	CIS 642	Doctoral Systems Analysis and Design	4.0	New Prep
Fall 2006	CIS 444	Computer Networking	3.8	

*1st Time Course Taught at Louisiana Tech

Doctoral Students

Abdullah Bari Operations Management DBA Student – Committee Member
Sam Sale Operations Management DBA Student – Committee Member
Clay Posey Computer Information Systems DBA Student – Committee Chairman
Jim Watkins Computer Information Systems DBA Student – Committee Chairman
Shalini Wunnava Computer Information Systems DBA Student – Committee Co-Chairman

Part B. Statement of Beliefs Concerning Teaching, Research, and Service to the Mission of the University

Teaching

Teaching is at the core of the mission of the university. The classroom is where ideas are developed and knowledge is exchanged between faculty and students. This learning experience is what a university should be about at all levels including undergraduate, graduate and doctoral education. Our goal should be to develop students' minds and intellectual curiosity. The exciting part about teaching is that it is a "two way street." The exchange of knowledge rarely is a one way and in almost every course taught, it is a tremendous learning opportunity for faculty as well as students. Learning is a lifelong experience.

Teaching is also a challenge to the faculty member because it is dynamic not static. Faculty must adapt to their environment because of these changes in topical areas relative to their academic field or maybe in order to keep up with technology in the classroom. The goal should be to provide the best product possible for the students at Louisiana Tech University.

The most gratifying component of teaching is the success of our students after they leave the university. Nothing should be more gratifying to faculty than to have a student returning to the university to tell them that their course made a difference. This could be in any field. In my academic field, computer information systems, it might be some project that my class completed in designing a network or maybe how they managed a cyber attack situation with ease. It possibly could be a doctoral student who publishes a seminal article or who gets high teacher evaluations. It varies depending on the student, however, with the university mission, it literally means preparing students for their future careers.

Research

For the true academic, just simply absorbing knowledge is not enough. The goal should be to extend knowledge and explain new or existent phenomena and develop theory. This goal should be primary to the university's mission across all academic fields. The mission should be to improve our knowledge about the world so that people can live better and safer lives. Research allows the university to make a real difference. Ironically, research also helps faculty stay current in the classroom.

Universities are different than other research settings simply because of the ability to have so many researchers from different fields in the same location. Currently, I am a member of a doctoral dissertation committee that has members from Industrial Engineering, Quantitative Analysis, Operations Management and Computer Information Systems. The ideas that are exchanged are fascinating. I am always amazed at the different research that faculty are doing at Louisiana Tech University. Every field is important with regard to research and the university through its ability to bring many disciplines together creates opportunities to extend knowledge through multi-disciplinary research. CENIT is a good example, where faculty and students in several colleges bring their expertise to develop new technologies then teams from other disciplines join to identify uses for the new technologies. In the end, students and faculty may come from engineering, business, liberal arts, and many more disciplines to develop new products. It is an amazing opportunity and should be a large part of a university's mission.

Community and University Service

The role of the university in the community is one of direct support and service to the needs of multiple communities. These surrounding communities include local cities, states, countries, and the world or the various academic disciplines. For instance, Louisiana Tech University's mission should be to support and serve Ruston, North Louisiana, the State of Louisiana, the United States and the World. This support can come in many forms and possibly could range from helping small businesses get started, it could be a research park, or it could be to develop programs to help the Air Force Cyber Command. This can only happen if members of the university community are willing to take extra time to help in these endeavors. Ironically, this service helps bring students to the university, spawn research ideas, or make the lives of citizens better.

Within our many disciplines, service is necessary to move our academic fields forward. Members of the academic community should be involved in supporting their disciplines. This means serving in academic organizations, being editors, reviewers or editorial review board members for journals, it might mean putting together academic workshops for various communities (local to international), or it might mean consulting. Participation in these endeavors is vital to the university completing its mission.

Finally, the university can only operate if it receives internal service by its constituents. Faculty must be willing to serve on committees, governing bodies, supporting student organizations, and many other roles. There are many examples of how this internal support is vital to the successful operation of the university. The University Senate is vital to the university in setting policy. Curriculums are developed and achieved by various committees that are able to brainstorm many ideas. The bottom line is this internal university service is what drives the university and its mission.

Part C. Selected Publications and Activities 2003-Present

Research Articles

College of Business – Level I (A Rated Publication)

Lowry, P., Roberts, T., Dean, D., and Marakas, G., "Toward Building Self-sustaining Groups in PCR-based Tasks through Implicit Coordination: The Case of Heuristic Evaluation," *Journal of the Association of Information Systems (JAIS)*, conditional acceptance, forthcoming.

College of Business – Level Elite (A+ Rated Publication)

Leigh, W., Frohlich, C., Hornik, S., Roberts, T. and Purvis, "Trading with a Stock Chart Heuristic," *IEEE Transactions on Systems, Man, and Cybernetics, Part A*, Vol. 38, No. 1, January 2008, pp. 93-104.

College of Business – Level I (A Rated Publication)

Henry, R., McCray, G., Purvis, R., and Roberts, T., "Exploiting organizational knowledge in developing IS project cost and schedule estimates: An empirical study," *Information and Management*, Vol. 44, September 2007, pp. 598-612.

College of Business – Level II (B Rated Publication)

Romano, N., Lowry, P., and Roberts, T., "Technology-Supported Small Group Interaction: Building on a Tradition of Leading Research for Global Organizations," *Small Group Research*, Vol. 38, No. 1, February 2007, pp. 1-15.

College of Business – Level II (B Rated Publication)

Lowry, P., Roberts, T., Romano, N., Cheney, P., and Hightower, R., "The Impact of Group Size and Social Presence on Small Group Communication," *Small Group Research*, Vol. 37, No. 6, December 2006, pp. 1-31.

College of Business – Level Elite (A+ Rated Publication)

Roberts, T., Lowry, P., and Sweeney, P., "An evaluation of the impact of social presence through group size and the use of collaborative software on group member "voice" in face-to-face and computer-mediated task groups," *IEEE Transaction on Professional Communication*, Vol. 49, No. 1., January 2006, pp. 28-43..

College of Business – Level Elite (A+ Rated Publication)

Roberts, T., Cheney, P., Sweeney, P., and Hightower, R., "The effects of information technology project complexity on group interaction," *Journal of Management Information Systems*, Winter 2004-2005, Vol. 21, No. 3, pp. 223-248.

College of Business – Level II (B Rated Publication)

Purvis, R., McCray, G., and Roberts, T., "Heuristics and biases in information system project management," *Engineering Management Journal*, June 2004, Vol. 16, 2, pp. 19-27.

Book Chapters

Srivastava, R.P., Buche, M.W., and Roberts, T.L. "Belief Function Approach to Evidential Reasoning in Causal Maps," (2005), in *Causal Mapping for Research in Information Technology*, V.K. Narayanan and Deborah J. Armstrong (Eds.), Idea Group Publishing: Hershey, PA, pp. 109-141.

Proceedings and Presentations

Lowry, P., Twyman, N., Gaskin, J., Hammer, B., Roberts, T., and Bailey, A., "Proposing the Interactivity-Stimulus-Attention Model (ISAM) to Explain and Predict the Enjoyment, Immersion, and Adoption of Purely Hedonic Systems," HCI Workshop 2007, Montreal Canada, December 2007. Nominated for Best Paper.

Posey, C., Roberts, T., Ellis, S., and Bennett, R., "A New Perspective on Computer Abuse and Organizational Disincentives," Decision Science Institute – National Conference, Phoenix, AZ, November 2007.

Lowry, P., Roberts, T., and Higbie, T., "First Impressions with Websites: The Effect of the Familiarity and Credibility of Corporate Logos on Perceived Consumer Swift Trust of Websites," HCI 2007, Beijing, China, July 2007.

Roberts, T., Lowry, P., Cheney, P., and Hightower, R., "Examining differences in communication among groups working in working in Traditional face-to-face, computer-mediated face-to face, and computer-mediated virtual groups," HICSS-39 Kauai, HI, January 3-7, 2006.

Roberts, T., Lowry, P., Cheney, P. and Hightower, R., "The impact of collaborative software on group communication," 2005 National Meeting of the Decision Sciences Institute, November 19-23, 2005, San Francisco, CA.

Lowry, P., Roberts, T., and Craine, B., "Familiar logos of websites designed for small user interfaces," HCI 2005 Las Vegas, NV July 2005.

Roberts, T., Lowry, P., and Romano, N., "Improving design artifact reviews with group support systems and an extension of heuristic evaluation techniques," HICSS-38 Waikoloa, HI, January 3-6, 2005. Nominated for Best Paper.

Roberts, T., Strong, D., Srivastava, R., and Bovee, M., "Information Quality in Today's Business Environment," Panel Discussion, 2004 National Meeting of the Decision Sciences Institute, November 20-23, 2004, Boston, MA.

Roberts, T., Li, C., Lowry, P., and Romano, N., "Nomological Network of Trust In Virtual Teams," 2004 National Meeting of the Decision Sciences Institute, November 20-23, 2004, Boston, MA.

Lim, J. and Roberts, T., "Feedback seeking among Information Systems Professionals," 2004 National Meeting of the Decision Sciences Institute, November 20-23, 2004, Boston, MA.

Roberts, T. and Li, C. "Using software and the Internet to support a network design project," 2004 National Meeting of the Decision Sciences Institute, November 20-23, 2004, Boston, MA.

Roberts, T., Sweeney, P., McFarlin, P., and Cheney, P., "Assessing trust among IS personnel: A view of general trust, trust of management, and inter-organizational trust," *Proceedings of the Hawaii International Conference on Systems Sciences HICSS-37*, January 2004, Kona, Hawaii.

Lim, J., Richardson, V., and Roberts, T., "Information technology investment and firm performance," *Proceedings of the Hawaii International Conference on Systems Sciences HICSS-37*, January 2004, Kona, Hawaii.

Roberts, T. and Lowry, P., "The impact of proximity, group size, and tool choices on the "voice effect": A comparison of individual voicing in traditional face-to-face, computer-mediated face-to face, and virtual computer-mediated groups," The Second Annual Workshop on HCI Research in MIS, International Conference on Information Systems (ICIS), Seattle, WA, December 12-13, 2003.

Roberts, T., Sweeney, P., and McFarlin, D., "Internal and external trust among accountants in the post Enron and Andersen Environment," 2003 Meeting of the Decision Sciences Institute, November 22-25, 2003.

Lowry, P. and Roberts, T., "Improving the usability evaluation technique, heuristic evaluation, through the use of collaborative software," Americas Conference on Information Systems (AMCIS), Tampa, August 4-5, 2003. Nominated for Best Paper.

Part D. University and Community Service 2003-Present

University Service

Project Lead - developed the Graduate Information Assurance Certificate Program.

Designed all four courses for the Graduate Information Assurance Certificate Program including:

CIS 521 Introduction to Information Assurance
CIS 522 Incident Response and Computer Forensics
CIS 523 Disaster Recovery and Business Continuity
CIS 524 Information Assurance Risk Assessment

**Designed the undergraduate Information Assurance Courses for the Undergraduate CIS Program.
Project Lead for securing National Security Agency certification of Information Assurance Courseware.**

**Co-Founder of Center for Information Assurance with Dean James Lumpkin.
Director Center for Information Assurance – April 2008- Present**

Guest Lecturer October (2007) on Information Assurance for AFCEA (Armed Forces Communications and Electronics Association) at Barksdale AFB.

**University Committee Work:
CIS Faculty Representative – CENIT Board of Directors**

**College of Business Committee Work:
CIS Representative GPAC (Graduate Program Assessment Committee) – Fall 2007 to Present**

**Department Committee Work:
CIS Graduate Curriculum (Chairman)
Undergraduate Curriculum (Member)
CIS Faculty Search Committee 2007 (Chairman) – hired Jim Courtney (2nd Endowed Chair in Louisiana Tech College of Business) and Christi Fuller (Computer Forensics and Database)**

National Service Activity

Decision Sciences Institute (DSI)
Member of National Officer Nominating Committee (2007 to Present)
Doctoral Consortium Panelist and Mentor for Strategic Research Planning Workshop (Washington D. C. 2003) and (Boston 2004)
Mini Conference Chairman for Technology in the Classroom – Boston (2004)

Association of Information Systems (AIS)
Special Interest Group Human Computer Interaction
Charter Member
Vice Chairman for Sponsorship - (September 2005 – July 2006)
Vice Chairman for Membership – (Fall 2003 - August 2005)
Executive Committee (2001-2006)
Program Committee (2001 to Present)

Journal Reviewer
All top Information Systems Journals: MISQ, JMIS, ISR, CACM, IEEE TPC, JAIS, JCIS, and others.

Special Issue Senior Editor February 2007 - *Small Group Research: An International Journal of Theory, Investigation, and Application* –on “Technology-Supported Small Group Research”; with co-guest editors (Nicholas C. Romano, Jr., Oklahoma State University; Paul Lowry, Brigham Young University).