

Richard J. Thompson, Jr.

Education

- Ph.D., Astronomy & Astrophysics, 1994, The Pennsylvania State University
- B.S., Astronomy, 1989, University of Florida
- A.A., 1986, Polk Community College

Current Position

- Dean, School of Mathematics & Sciences, The College of Saint Rose, 2005 – Present
- Director, Saint Rose Institute for Science and Math Education 2006 - Present
- Professor of Physical Science, The College of Saint Rose, 2005 - Present

Previous Positions

- Professor of Physics, McMurry University 1994 - 2005
- Chair, Department of Physics 1996 - 2005
- McWhiney Scholar in Residence, Buffalo Gap Historic Village, Spring 2002
- Kiva Research Fellow, McMurry University, 2004-2005

Professional Organizations

- American Astronomical Society
- American Association of Physics Teachers
- Project Kaleidoscope/Exxon Foundation Faculty for the 21st Century
- National Undergraduate Research Observatory, Steering Committee
- Society for the History of Technology
- *Sigma Pi Sigma* National Physics Honor Society
- *Kappa Mu Epsilon* National Mathematics Honor Society
- *Sigma Xi* Scientific Research Society
- Council of Colleges of Arts and Sciences
- American Conference of Academic Deans

Teaching Experience

- Instructor for undergraduate Astronomy and Mathematics classes at The College of Saint Rose, 2005 – present
- Instructor for undergraduate Physics, Astronomy, Mathematics, and Freshman Seminar courses at McMurry University, 1994 - 2005
- Taught University Honors courses, McMurry University
- Instructor for Teacher-Education course offered through the Texas Education Agency and Hardin-Simmons, McMurry, and Abilene Christian Universities, 1995
- Adjunct Professor, Hardin-Simmons University, 1995, 2000
- Honors Thesis Chairman, 2000 – 2002

Grants, Fellowships, and Awards

- NASA Astrophysics Data Program grant 1996
- Sam Taylor Fellowship 1997, 2001
- Arizona Space Grant 2000, 2001, 2002

- Who's Who Among America's Teachers, 2002
- Kiva Research Fellowship, 2004
- NASA Chandra Observatory, 2005

Selected Publications

Books

Crystal Clear: The Struggle for Reliable Communications Technology in World War II, IEEE Press (in cooperation with John Wiley & Sons, Inc.), October 2006

Magazine Articles

Thompson, R. J. 2004, *...And We Had Crystals*, **QST Magazine**, Vol 88, No 1, pg 43

Refereed Journals

Thompson, R. J., 2005, *The Development of the Quartz Crystal Oscillator Industry of World War II*, IEEE Transactions, 52, 694

Thompson, R. J., 2003, *How Big Science Gets Funded – An Introduction For Students To The Politics Of Space Science Funding*, Astronomy Education Review, Volume 2, Issue 3

Thompson, R. J., 1999, *Toward a More Research-Rich Teaching Environment: A Short Course on Observational Astronomy*, The Physics Teacher, 37, 530

Thompson, R. J., Shelton, R. G., & Arning, C. A. 1998, *Initial Results of a Comprehensive Ultra Soft Survey of the Einstein IPC Database: Source List and Confirmation of the Selection Procedure*, Astronomical Journal, 115, 2587

Thompson, R. J. 1995, *Modeling the Multiwavelength Accretion Disk Spectrum of X-Ray-Selected Active Galactic Nuclei*, Astrophysical Journal, 454, 660

Thompson, R. J. & Co'rdova, F. A. 1994, *A Statistical Analysis of the Broadband 0.1 to 3.5 keV Spectral Properties of X-ray-Selected Active Galactic Nuclei*, Astrophysical Journal, 434, 54

Contributed Papers

Thompson, R. 2004, *Building an Industry from Scratch: The Quartz Crystal Oscillator Industry of World War II*, in Proceedings of the IEEE International Ultrasonics, Ferroelectrics, and Frequency Control 50th Anniversary Joint Conference, Montreal, Canada

Thompson, R. J. 1998, *A New X-ray Survey for Accreting Objects* in Proceedings of the 8th Annual Astrophysics Conference in Maryland, *Accretion Processes in Astrophysics*, eds. S. Holt & T. Kallman, (New York: American Institute of Physics), p. 479

Invited Talks

Thompson, R. 2004, *Building an Industry from Scratch: The Quartz Crystal Oscillator Industry of World War II*, invited talk at the IEEE International Ultrasonics, Ferroelectrics, and Frequency Control 50th Anniversary Joint Conference, Montreal, Canada