

Vita
Dr. Ray L. Shackelford

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Date of Appointment: August 1977

Education:

1967	B.S., Industrial Education, Indiana State University
1969	M.S., Industrial Education, Indiana State University
1976	Ed.D., Vocational Administration, New York University

Experience:

2001 – Present	Assistant Department Chair — Department of Industry and Technology, Ball State University
1977 - Present	Professor — Department of Industry and Technology, Ball State University
1987 - 2001	Coordinator — Teaching Major in Technology Education, Department of Industry and Technology, Ball State University
1987 - 1992	Coordinator — Teaching the Technology of Teaching Program, Ball State University
1990 - 1991	Faculty Developer — Center for Teaching and Learning, Ball State University
1983 - 1985 (Summers)	Visiting Professor — Department of Technology and Industrial Education, New York University
1976 (Summer)	Acting Chairperson — Department of Technology and Industrial Education, New York University
1972-1977	Assistant Professor — Department of Technology and Industrial Education, New York University
1967-1972	Technology Teacher — Westville High School, Westville Community Schools, Westville, IL

Selected Publications (2006-1998)

2006 Shackelford, R., Brown, R., & Smith, J. (2006, March). Designing effective
visuals. ties: The online magazine for design & technology education:
www.tiesmagazine.org, March 06, 7-11.
Griffis, K., & Shackelford, R. (2006, February). Small Craft Advisory. Tech
Directions, 65(7), 12-17.
Griffis, K., & Shackelford, R. (2006, March). Small Craft Advisory. Tech
Directions, <http://www.techdirections.com/projects.html>, Electronic, 1-21.

- Shackelford, R. & Griffis, K. (2006, January). Creating an effective newsletter. *Tech Directions*, 65(6), 15-18.
- 2005 Troyer, S., Griffis, K., & Shackelford, R. (2005, September). Structural truss elements. *Tech Directions*, 65(2), 13-15.
- Troyer, S., Griffis, K., & Shackelford, R. (2005, September). Structural truss elements and forces. *Tech Directions* <http://www.techdirections.com/projects.html>, Electronic, 1-9.
- Shackelford, R. & Griffis, K. (2005, December). Creating an effective newsletter. *Tech Directions* <http://www.techdirections.com/projects.html>, Electronic, 1-6.
- 2004 Shackelford, R., Brown, R. & Warner, S. (2004). Using concepts and theoretical models to support the standards for technological literacy, *The Technology Teacher*, 63(5), 7-11.
- 2002 Shackelford, R. (2002). Individual material test or manufacturing process proposal. *The Journal of the Technology Educators of Indiana*, 15, 14-16.
- 1998 Shackelford, R. (1998). Introduction to acoustical energy. *The Technology Teacher*, 57(8), 6-9.

Books

- 2004 Shackelford, R. (2004). *Materials and processes: A middle school guide*. Ewing, NJ: Innovation through Design & Technology.

Selected Presentations (2006-1999)

- 2006 Shackelford, R. (2006). Supporting interdisciplinary activities: Through service-learning. 68th Annual Conference of the International Technology Education Association, Baltimore.
- 2005 Shackelford, R. (2005). Constructing and assessing rubrics: Do your rubrics really work. Lilly Conference on College & University Teaching – North, Travis City.
- Shackelford, R. (2005). Materials and processes: A standards based course. 67th Annual Conference of the International Technology Education Association, Kansas City.
- Shackelford, R. (2005). Rubric construction and assessment. 67th Annual Conference of the International Technology Education Association, a CTTE Presentation, Kansas City.
- 2004 Shackelford, R. (2004). Preparing Students to learn, live, and work in the 21st century. American Association for Higher Education Assessment Conference, Denver.
- Shackelford, R. (2004). Change: The process of revising and assessing a CORE curriculum. Association for General and Liberal Studies, Kansas City.
- Shackelford, R. (2004). Characteristics of good teachers: What do you have in your wallet?. Lilly Conference on College & University Teaching – North, Travis City.
- Shackelford, R. & Seymour, R. (2004). Preparing master's level courses for on-line delivery. 66th Annual Conference of the International Technology Education Association, a CTTE Presentation, Albuquerque.
- Shackelford, R. (2004). Are your rubrics measuring intended learnings. Lilly Conference on College & University Teaching – Miami University. Oxford, OH

- 2003 Kellogg, H. & Shackelford, R. (2003). Teaching with a hook and a purpose. Lilly Conference on College & University Teaching – North, Travis City.
- Shackelford, R. & Smith, J. (2003). Designing effective PowerPoint visuals. 65th Annual Conference of the International Technology Education Association, Nashville.
- 2002 Shackelford, R. & Brown, R. (2002). Placing technological studies in the core curriculum. 64th Annual Conference of the International Technology Education Association, Columbus.
- Shackelford, R. & Smith, J. (2002). The design doctor: What faculty should know about designing effective visuals. 2002 Lilly Conference on College Teaching – North, Big Rapids, Michigan.
- Shackelford, R. & Fisher, M. (2002). Preparing students to learn, live, and work in the 21st century: The process. Association for General and Liberal Studies, Louisville, Kentucky.
- 2001 Shackelford, R. & Brown, R. (2001). Designing career portfolios: Standard and virtual. 63rd Annual Conference of the International Technology Education Association, Atlanta.
- Shackelford, R. (2001). Expanding technological education programs through on-campus offerings. CTTE Trends and Issues in Technology Teacher Education Carousel Session. 63rd Annual Conference of the International Technology Education Association, Atlanta.
- Shackelford, R., Baird, E., Montgomery, A., Smith, J., & Warner, J. (2001). Designing student portfolios: Standard and electronic. Lilly Conference on College Teaching, Miami University, Oxford, OH.
- 2000 Shackelford, R., Keach, J., & Schocke, B. (2000). Geodesic domes from newspaper. 62nd Annual Conference of the International Technology Education Association TECH FEST, Salt Lake City.
- Shackelford, R. (2000). Portfolios: A process for documentation. Lilly Conference on College Teaching, Miami University, Oxford, OH.
- Shackelford, R., Keach, J., & Schocke, B. (2000). Making the study of technology a core subject. 62nd Annual Conference of the International Technology Education Association, Salt Lake City.
- Fisher, M., Hanson, L., Hightower, J., Shackelford, R., & Whitaker, D. (2000). Strategies for success: Assessing the core curriculum. 40th Annual Conference of the Association for General & Liberal Studies, Chicago.
- Shackelford, R., Brown, J., Burns, L., Hoagland, S., & Warner, J. (2000). Student portfolios: A tool for documenting student abilities and characteristics. Lilly Conference on College Teaching, Miami University, Oxford, OH.
- Shackelford, R. (2000). Portfolios at BSU: Faculty share perspectives and approaches – “Using student portfolios to document student performance”. Ball State University, Muncie, IN.
- 1999 Shackelford, R. (1999). Introduction to Assembly. 61st Annual Conference of the International Technology Education Association TECH FEST, Indianapolis, IN
- Shackelford, R. (1999). Using student portfolios to document hard to measure skills and abilities. Lilly Conference on College Teaching, Miami University, Oxford, OH.

Shackelford, R. (1999). Using career student portfolios to enhance learning and understanding of one's abilities, behaviors, and characteristics. Lilly Conference on College Teaching, Miami University, Oxford, OH.

Shackelford, R. (1999). Integrated technological studies: A school-wide approach. 61st Annual Conference of the International Technology Education Association, Indianapolis, IN.

Grants/Proposals (2006-1998)

- 2006 Proposal to Assess the Facility (i.e., teaching, research and training environments) Needs of the Department of Industry and Technology.
- 2004 Proposal to English Works to develop "A survey to determine the need for Hispanic Construction Mangers/Supervisors in the State of Indiana"
- 2004 Proposal to Goodwill to develop "A survey to determine the need for Hispanic Construction Mangers/Supervisors in the State of Indiana"
- 2003 Proposal to English Works/Goodwill to "Survey the need for Hispanic Construction Mangers/Supervisors in the State of Indiana"
- 2001 Proposal to Vincennes University for "Forming a Partnership to Provide Faculty Development Experiences at Vincennes University"
- 2000 Grant from the George and Frances Ball Foundation Fund for Academic Excellence to "Enhance Student Learning in the College of Applied Sciences and Technology"
- 1999 Grant from the George and Frances Ball Foundation Fund for Academic Excellence to "Enhance Student Learning in the College of Applied Sciences and Technology"
- 1998 Grant from the Technology Fund to support "Beginning and Advanced PowerPoint Seminars in the College of Applied Sciences and Technology"
- 1998 Grant from George and Frances Ball Foundation Fund for Academic Excellence to support "A Retreat to Facilitate the Development of Teaching/Learning Activities in the Teaching Major in Technology Education"
- 1998 Proposal to the World Bank "Terms of Reference (TOR) -- Ghana Productivity Enhancement Project", TOR Developed by Martin Limbird, Jeanette Miller, and Ray Shackelford
- 1998 Grant to "Support Special Needs Activities Between Ball State University ITEDU 396 Students and Students from Morrison-Moch"

Creative Endeavor

- 2002 Shackelford, R. (2002). Instructional Strategies and Materials for Teaching Technology Education. An Online course developed for Ball State University.

Selected Contracted Work / Consulting (2006-1998)

- 2003 Shackelford, R. (2003). *Manufacturing Materials and Processes: A contextual learning unit in math, science & technology – A one week workshop*. Innovation through Design & Technology, Trenton, NJ.
- Shackelford, R. (2003). Served as a facilitator/consultant for a one week summer *University Core Curriculum Workshop (UCC)*. Workshop included 20 faculty who teach in the UCC Program, Ball State University.

- 2002 Shackelford, R. (2002). *Manufacturing Materials and Processes – Course outline development*. Innovation through Design & Technology, Trenton, NJ.
- Seymour, R. & Shackelford, R. (2002). Under contract to Teacher’s College (Ball State University) to *develop NCATE and INTASC materials for the Teaching Major in Technology Education Program*.
- Shackelford, R. (2002). Served as a facilitator/consultant for a one week summer *University Core Curriculum Workshop (UCC)*. Workshop included 20 faculty who teach in the UCC Program, Ball State University.
- 2001 Shackelford, R. (2001). *Teaching Portfolios: What, Why, and How – All day faculty development workshop*. Oakland Community College, Bloomfield Hills, MI.
- 2000 Shackelford, R. (2000). *Teaching Portfolios – All day faculty development workshop*. Oakland Community College, Bloomfield Hills, MI.
- Shackelford, R. (2000). Lake Ridge Schools, Calumet, IN. *Facility and curriculum planning*.
- 1999 Shackelford, R. (1999). Kenosha Unified School District No. 1, Kenosha, WI. *Review of “Stage Two” building plans and equipment needs*.
- Shackelford, R. (1999). Drexel University, Philadelphia, PA. *One week teaching portfolio workshop for University Faculty*.
- Shackelford, R. (1999). Lake Ridge Schools, Calumet, IN. *Facility and curriculum planning*.
- 1998 Shackelford, R. (1998). Kenosha Unified School District No. 1, Kenosha, WI. *Facility and curriculum planning*.
- Shackelford, R. (1998). Maconaquah High School, Bunker Hill, IN. *Technology Education Implementation*.
- Shackelford, R. (1998). Lake Ridge Schools, Calumet, IN. *Facility and curriculum planning*.
- Shackelford, R. (1998). College of Applied Sciences and Technology, Ball State University. *CAST PowerPoint faculty development program*.
- Shackelford, R. (1998). Department of Industry and Technology, Ball State University. *Curriculum and learning experience development*.
- 1995-2000 College of Applied Sciences and Technology, Ball State University. (Coordinator/facilitator), *CAST PowerPoint Faculty Development Workshops*. From 1995 to 2000 I conducted beginning and advanced instructional technology workshops for the College of Applied Science and Technology. During these workshops, I worked with approximate 100 of the college’s faculty to enhance their use of instructional technology. Assessments of these workshops were extremely high with the overall workshop ratings of 4.9 on a 5 point scale.

Institutional service (Selected Service, 2006-1998)

Departmental

- 2000-Pres. Assistant Department Chair — Department of Industry and Technology
- 2000-2006 Chair – Departmental Promotion and Tenure Committee
- 2000-2006 Member – Teaching Major in Technology Education Committee
- 1998-2000 Chair – Teaching Major in Technology Education Committee
- 1998-2006 Member – Graduate Education Committee
- 1998-2000 Member – Departmental Curriculum Review Committee
- 1998-2003 Chair – Faculty Search Committees
- 1998-2003 Member – Faculty Search Committees

1998-2006 Trustee – Epsilon Pi Tau

College (2006-1998)

2002-2004 Selected College Representative to the University Core Curriculum Task Force

2005-2006 Member – College Promotion and Tenure Committee

2002-2004 Member – College Promotion and Tenure Committee

2000-2001 Secretary – College Promotion and Tenure Committee

2001-2002 Chair – College Promotion and Tenure Committee

1998-2000 Elected representative to Undergraduate Education Committee (UEC)

University (1998-2006)

2005-2006 Member – University Senate

2005-2006 Member – University Faculty Council

2005-2006 Member – Undergraduate Education Committee (UEC)

2002-2004 Member – University Core Curriculum Task Force

2005-2006 Member – University Core Curriculum Subcommittee

1999-2004 Member – University Core Curriculum Subcommittee

2002 Member – Outstanding Faculty Awards Committee

2001-2002 Member – University Promotion and Tenure Committee

2000 Member – UEC Subcommittee to Revise Program Revision and Submission Procedures/Forms

1998-2000 Member – Undergraduate Education Committee (UEC)

Professional service

Regional (Selected Regional Service, 2006-1998)

2004-2006 Member — Technology Educators of Indiana Executive Committee

1994-2000 Conference Negotiator — Technology Educators of Indiana

1988-2000 Member — Technology Educators of Indiana Executive Committee

International (Selected National Service, 2006-1998)

2004 Candidate for the International Technology Education Board of Directors

1996-2003 Co-Editor — Council of Technology Teacher Education Newsletter

2001-2003 Member — International Technology Education Association's – Special Events Committee

1997-2001 Member — International Technology Education Association's - Membership Committee

1995-1998 Member -- Council on Technology Teacher Education Collegiate Student Association Committee

Honors, Awards (Selected Awards, 2006-1998)

2000 Distinguished Technology Educator Award “DTE” – Presented by: International Technology Education Association (ITEA)

1999 Departmental Outstanding Teacher Award

Professional Memberships

a) International Technology Education Association

b) Epsilon Pi Tau

- c) Council on Technology Teacher Education Association
- d) Technology Educators of Indiana