

## **Bruce Barnes**

### **Vita**

#### **Educational Preparation**

- Bachelors of Science degree, 1966, University of Wisconsin-Stout, Industrial Arts
- Master of Science degree, 1967, University of Wisconsin Stout, Industrial Arts
- 90 additional quarter credits from a variety of colleges, universities, and district inservice programs
- Life Teaching License, Industrial Arts/Technology Education 1967-present
- Amateur Radio License, KD0EYZ General Class, 2008

#### **Educational/Related Work Experience**

- Industrial Arts/Technology Education Instructor, Bloomington, Minnesota District 271, Olson Junior High School, Oak Grove Junior High School, 1967-2001
- Curriculum Facilitator, Hennepin Technical Center, 1986-1988
- Supervision of over 70 student teachers from UW-Stout, University of Minnesota, and Bemidji State University

#### **Teaching**

- Student Teaching Supervision, UW-Stout, 2001- present

#### **Scholarly Activities (APA format encouraged)**

- Wrote a series of student activity booklets, published by Scholastic Futures Publishing, a Division of Theta Industrial Products, Inc, Mound, Minnesota
  - Robotics, 1986
  - Laser, 1987
  - Energy & Power Utilization Unit, Fluid Power, 1988
  - Transportation, Boat Hull, 1988
  - Transportation Unit, Moving Goods & People on Land, The Car, 1988
  - Construction: Designing Shelters and Structures, 1988
  - CNC Machines, Computer Numerical Control, 1989
  - Bridges, Bridge Design and Construction, 1989
  - The Design of "Your Place," 1994
  - Communications Unit, Information Retrieval, 1994
  - Bar Codes, 1996
  - Plastisol Coating and Dipping
- Presented at the TIES Annual Technology Conference, 24 February 1994
- Conducted many workshops in Minnesota, Wisconsin, and North Dakota on implementing technology education activities beginning in 1985

- Wrote professional articles for December 1985 School Shop magazine, Manufacturing Forum, Wisconsin Technology Education Association Interface publication, and the MTEA Journal.
- Appointed to the Robotics Curriculum Writing Team to help develop the Information Technology curriculum for the State Board of Elementary and Secondary Rules for Minnesota, March 1985
- Presented curriculum materials at the “Technology Fair” at national American Industrial Arts Association conventions in Columbus, Ohio, and San Diego, California in 1984 and 1985
- Special Interest presenter and host at national AIAA/ITEA convention in Milwaukee, 1983 and San Diego, 1985.
- Presenter at the “Technology Conference,” November 1983 and the “Technology in Industrial Arts Conference,” March 1985
- Co-Editor of the Minnesota Industrial Arts Association’s “Program of Work” booklet, 1982-1983
- Presenter at “Symposium II” held at UW-Stout and sponsored by the AIAA, 1981
- Presented Oak Grove’s adaptation of the Occupational Versatility program at the national AIAA conventions in New Orleans, 1977 and San Antonio, 1979
- Developed and wrote a Title IV-C proposal that was awarded to Oak Grove to provide funds to adapt the Occupational Versatility program, 1976
- Granted a Fellowship under the Prospective Teacher Fellowship program, allowing me to complete my Master’s Degree program in Industrial Arts, 1966

**Service** (note leadership roles in each category when applicable)

- Published the MTEA Journal 3-4 times per year with about an average of 40 pages per issue as Publications Chairperson, Minnesota Technology Education, 1989-2006
- Technology Education department chairperson, Olson Middle School, 1994-2001
- Served on the Hubert Olson Middle School Leadership Council from 1995-2001
- Assisted new teachers in Bloomington as a member of the Bloomington Mentor Program, 1992-2001
- Elected Region 3 Director of the International Technology Education Association (ITEA), March 1987
- Elected President of the Minnesota Technology Education Association (MTEA), September 1987, serving 2 years as President-Elect, 2 years as President, and 2 years as Past-President.
- Industrial Technology department chairperson, Bloomington Oak Grove Junior High School, 1973-1986
- Elected Chairperson of the Bloomington Curriculum and Instruction Council (unable to fulfill office due to job change), 1986. Council member from 1979-1984, 1986

- Served on the Steering Committee for School District 271's Industrial Arts Assessment, Development, and Implementation program, 1983-1985
- Served as Minnesota Industrial Technology Education Association Secretary for 2 terms, 1981-1984
- Minnetonka Industrial Arts Club Exhibit Director, 1981-1984

### **Collaborative Initiatives**

- Helped develop the Minnesota Plan for Industrial Technology Education, 1986
- Oak Grove Junior High's curriculum for integrating computer and robotics into the industrial technology program was chosen as a demonstration site as part of a State funded program for disseminating technology education, September 1984
- One of two teacher members of the AIAA's Name Change Committee, 1984
- Member of State Department Curriculum Committee that developed a Mission Statement and Goals/Objectives for a Contemporary Industrial Arts program, 1983-1984
- Assisted in the development of Wisconsin's Manufacturing Guide for Industrial Arts, 1979
- Served on several North Central Association evaluation teams including: Hopkins, Minnesota 1998, White Bear Lake, 1995, Shakopee Public Schools, 1993, Eden Prairie, 1992, Mankato, 1991, Edina, Brooklyn Center, Spring Lake Park,

### **Other (awards, leadership, recognition, memberships, affiliations)**

- Recognized for friendship, vision, inclusive outreach and outstanding service to student with disabilities, June 2000
- Recognized as Minnesota's Technology Education Teacher of Excellence, 1996
- Recognized by Technology and Learning magazine as Minnesota's Technology Teacher of the Year, 1993
- Recognized by the Wisconsin Department of Public Instruction for a leadership role as a cooperating teacher, 1992
- Appointed to Bloomington School Districts Committee of Excellence, representing junior high teachers, October 1984
- First teacher to be honored by the School of Industry and Technology, University of Wisconsin-Stout, for curriculum development and work with student teachers, November 1984
- Recognized as Minnesota Industrial Arts Teacher of the Year, "runner-up," 1984
- Received an Outstanding Leader in Secondary Education award, 1976
- Recognized by the MTEA for years of service to the organization and leadership as the journal editor
- Active participant in the YMCA Indian Guide and Princess programs, serving as chief of Wapiti and Pueblo Tribes, 1979.