

Bernard Bujard

Adjunct Instructor
Southwest Texas Junior College
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Office:
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EDUCATION

Master's Degree in Materials Science Engineering (Materials Engineer) University of North Texas at Denton (UNT). Master's Thesis: Hypotheses for Scratch Behavior of Polymer Systems that Recover. May, 2002.

Master's Degree in Chemistry University of North Texas at Denton (UNT) 1999.

Bachelor's Degree in Chemistry University of Texas at Arlington (UTA) 1983.

AP Chemistry certified teacher with College Board July, 2020

COLLEGE TEACHING/EXPERIENCE

Hired at Uvalde High School UCISD October 2008 to present as a science teacher. Presently, in third year of teaching Early College High School UECHS.

5 years as a college Teaching Assistant (TA) / Research Assistant while in graduate school at UNT. Freshman Chemistry Laboratory Manager for one of those years.

I am prepared to teach the following courses:

- a. Chemistry (face-to-face teaching)
- b. Dual Credit Chemistry (blended teaching)
- c. Materials Science Engineering

PREVIOUS EXPERIENCE

Worked at Earth-Core Pipe Systems in Bowie, Texas from June 2003 to May 2004 as Quality Control Technician within a manufacturing environment. Worked on polyethylene pipes for potable water, sewage and industrial usage.

Worked Fall as an intern for ALCON Laboratories, Inc. in Fort Worth, Texas from September 2002 to December 2002. Worked in polymer division researching ophthalmological medical hydrogels.

Worked at Boeing Petroleum in St. James, Louisiana from June 1991 to August 1993 as laboratory manager. Worked as analytical chemist in the Strategic Petroleum Reserve. The contract is awarded by the U.S. Department of Energy.

Worked at National Marine, Inc. in New Orleans, Louisiana from September 1989 to June 1991. Worked in Environmental and Safety monitoring chemical barge cargoes along the Mississippi River.

HONORS AND AWARDS

Alpha Chi Sigma Outstanding Freshman Chemistry Teacher Award in 2000 from UNT.

Assistant to the Council Administrator for the International Council on Materials Education in 2001 from UNT.

PUBLICATIONS

The three publications listed below involved viscoelasticity and scratch recovery of fluorine containing polymers.

W. Brostow, B. Bujard, P.E. Cassidy, H.E. Hagg and P.E. Montemartini, Effects of Fluoropolymer Addition to an Epoxy on Scratch Depth and Recovery (2002) *Mat Res Innovat* vol. 6:7-12

A. de la Isla, W. Brostow, B. Bujard, M. Estevez, J.R. Rodriguez, S. Vargas and V.M. Castano, Nanohybrid Scratch Resistant Coatings for Teeth and Bone Viscoelasticity Manifested in Tribology (2003) *Mat Res Innovat* vol.7:110-114

W. Brostow, B. Bujard, P.E. Cassidy and S. Venumbaka, Epoxy + Fluoropolymer Systems: Nanoscale Organization and Scratch Resistance (2004) *International Journal of Polymeric Materials* vol. 53, Issue 12: 1045-1060

PRESENTATIONS

Bujard, B. (January 7-11 2002). Scratch Behavior of Polymer Systems that Recover. Invited talk presented to the 10th International Conference on Polymer Characterization (POLYCHAR-10), January 7-11, 2002, Denton, Texas, USA. This continuing series of conferences has been held annually at the University of North Texas since 1992 until 2003 when it was decided to rotate the International Conference among other countries.
<https://polychar.unt.edu/>

Bujard, B. (January 7-11 2002). How quickly does Stainless Steel "Heal" Through Oxidation after Scratching? Invited talk presented to the 10th International Conference on Polymer Characterization (POLYCHAR-10), January 7-11, 2002, Denton, Texas, USA.

RESEARCH EXPERIENCE

Research in polymer chemistry at UNT in the polymer development division known as the Laboratory of Advanced Polymers and Optimized Materials (LAPOM) with Professor Witold Brostow.

PROFESSIONAL DEVELOPMENT

STATE OF TEXAS TEACHING CERTIFICATES

Science (Grades 8-12) expires 05/31/2021
Secondary Chemistry (Grades 6-12) expires 05/31/2021
Special Education (Grades EC-12) expires 05/31/2021

Flinn High School Laboratory Safety Course Training August 17, 2019, February 17, 2018 and September 23, 2017. The safety training is actually good for three years; however, some high school science teachers prefer to receive the training yearly.

College Board Texas Success Initiative Assessment (TSI test) Proctor.

PROFESSIONAL AFFILIATION

Knights of Columbus
Secular Order of Discalced Carmelites

Revised: 8/5/2020