

# JOSEPH H. REIBENSPIES PH.D.

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Department of Chemistry  
Texas A & M University  
College Station, Texas 77845

Associate Director of X-ray Laboratory  
Senior Research Instrument Specialist  
Member of the Graduate Faculty, Texas A & M University  
Born 1958 Married

## EDUCATION

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- PhD** Colorado State University, Chemistry January, 1987  
Dissertation: "Polynuclear Copper Coordination Complexes"  
Advisor: Oren Anderson
- MS** Wichita State University, Chemistry May 1982  
Thesis: "Linkage Isomerization and Phosphate Hydrolysis in  $\text{Co}(\text{NH}_3)_4\text{H}_2\text{P}_3\text{O}_{10}$ "  
Advisor: Richard Cornelius
- BS** Wichita State University, Chemistry May 1980  
Accreditation by the American Chemical Society  
Minored in Mathematics

## HONORS, AWARDS AND PROFESSIONAL ORGANIZATIONS

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- University Fellow, Wichita State University** 1980  
**Graduate Student Teaching Award, Colorado State University** 1982  
**Presidents Meritorious Service Award (2000) Texas A & M University** 2000  
**Member of the American Crystallographic Association** 1980-present  
**Member of the American Physical Society** 1980-present  
**Member of Texas A & M Radiation Safety Committee** 1998-2002, 2018-present  
**Member of the Texas A & M University Presidential Taskforce** 2007  
**Member of the National Science and Engineering Research Council of Canada** 2008  
**Secretary of the U.S. National committee for Crystallography NAS** 2010-2018  
**Member of Texas A & M University Diversity Committee** 2014-present

## EXPERIENCE

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- Manager of X-ray Diffraction Laboratory Colorado State University** 1982-1986  
**Instructor for first year chemistry, Blinn College, Bryan Texas.** 1998-2002  
**Associate Director of X-ray Diffraction Laboratory, Texas A & M** 1987-present

- Established the X-ray Diffraction Laboratory at the Department of Chemistry, Texas A & M University in 1987.
- Management experience with large laboratories and personal.
- Experienced crystallographer and X-ray powder diffractonist. Responsible for the maintenance two Bruker APEX2 single-crystal diffractometers, four Bruker D8 X-ray powder diffractometers with furnace attachment, a Bruker APEX2 duo source single-crystal X-ray diffractometer, a Bruker D8 GADDS powder/single-crystal diffractometer Bruker D8 Quest IuS CMOS X-ray Diffractometer and Bruker D8 Venture IuS CMOS X-ray Diffractometer.
- Experienced consultant in good laboratory practices (GLP), pharmaceuticals, process analytical control and nano-materials
- Extensive experience in the theory, operation and maintenance of single-crystal and powder x-ray diffractometers.
- Extensive knowledge of structure solution from single-crystal and powder data. Including structure solution, qualitative and quantitative analysis, polymorph identification and elucidation.
- Structural Chemist, with knowledge of absolute configuration, molecular structure and chemical processes.
- Specializing in crystal growth and powder handling techniques.
- Specializing in x-ray powder analysis of pharmaceuticals, organic and inorganic materials.
- Established X-ray training facilities in the Department of Chemistry.
- Experienced negotiator.
- Editor for the Journal of Arabian Science and Engineering (1998-1999)
- Editor/Author “Principles and Applications of Powder Diffraction”, Wiley, New York (2008)

## **PRESENTATIONS AND INVITED LECTURES**

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2005 Invited Speaker American Crystallographic Association  
 2006 Invited Speaker Pharmaceutical X-ray Powder Symposium, Somerset NJ, February  
 2006 Invited Speaker Frontiers in Pharmaceutical Research, Chicago May 2006  
 2006 Invited Speaker Frontiers in X-ray Diffraction Analysis, Boston, September  
 2007 Invited Speaker Denver X-ray Conference, Colorado Springs.  
 2007 Invited Speaker Frontiers in Pharmaceutical Research (West) San Diego, CA  
 2007 Invited Speaker Frontiers in Pharmaceutical Research (East) Baltimore, MD  
 2008 Denver X-ray Conference, Denver Co (invited speaker)  
 2009 Invited Speaker American Crystallographic Association  
 2010 Invited Speaker American Crystallographic Association  
 2011 Invited Speaker American Crystallographic Association  
 2012 Invited Speaker Frontiers in X-ray Diffraction Analysis (Albany, NY)  
 2013 Advanced Workshop for Structure Analysis (Dallas, Texas)  
 2015 Invited Speaker CAIS/International Space Station workshop (Huntsville, AL)  
 2018 Instructor American Crystallographic Association School (Notre Dame)  
 2019 Instructor American Crystallographic Association School (North Western)  
 2019 Invited Speaker American Crystallographic Association