

11/4/28  
Engineering  
Ceramic Engineering Department  
Wendell S. Williams Papers, 1968-2000

**Box 1:**

Professional Biographical Information  
Publications (authored or co-authored by Williams), including research notes and raw data  
    Abstract and Progress Report of M.S. Thesis, 1978  
    Publications Previous to Joining UIUC, 1961-1967  
    Publications, 1968-1974  
    Publications, 1975-1979  
    Publications, 1980-1989

**Box 2:**

Publications Continued  
Subject File  
    Ancient Technologies and Archaeological Materials (ATAM)  
        ATAM- University of Illinois, 1987-1999  
        ATAM Book, 1989-1993  
        ATAM Course "Materials and Civilizations," 1994  
        "Some Things that Glitter ARE Gold" Lecture, 1995  
    Articles on Bones in the "Champaign-Urbana News-Gazette" and "Urbana Courier" by  
        Williams, 1973-1974  
    Articles Williams Reviewed or Commented On  
        Gruzalski Papers on Carbides  
        "Neutron Scattering in Carbides" by Ron Berliner  
        "Carbon Vacancies in TiC" by DG Pettifor  
        "Non-Stoich Carbides" by A. Rempel  
    Awards  
        Campus Award for Excellence in Undergraduate Teaching, 1986  
        Wittke Award and Faculty Appointment Papers from Case Western Reserve  
            University, 1989-1993

**Box 3:**

Bioelectrical Repair and Growth Society (BRAGS) Transactions of Annual Meetings,  
    3rd-6th Annual Meetings, 1983-1986  
Bioelectrical Repair and Growth Society (BRAGS) Transactions of Annual Meetings, 8<sup>th</sup>  
    - 11th Annual Meetings, 1988-1991  
"Case Alumnus Magazine," Case Institute of Technology/Case Western Reserve  
    University Spring 1988  
Conferences and Symposiums Williams Attended or Presented At or Lectures Given

American Ceramic Society Annual Meeting and Exposition, "Ancient Ceramics"  
 April 25, 1983

American Institute of Physics Meeting, "Mondrian Precipitation Patterns in Single  
 Crystals of Titanium Carbide" Paper, February 1-4, 1961

American Physical Society "Electrical Resistance of TiB<sub>2</sub>" Programme of the  
 Spring Meeting, 1959

Application of Science in Examination of Works of Art, Boston Museum of Fine  
 Arts, September 1983

Conférence Internationale sur la Diffusion des Phonons dans les Solides, Paris,  
 July 3-6, 1972

ICSHM-6 Conference Paper "Electrical Properties of Hard Metals" 1998

International Symposium on Archaeometry, Smithsonian Institution, 1984

International Symposium on Archaeometry, UIUC, 1996

International Symposium on Archaeometry, Hungarian National Museum,  
 Budapest, Hungary, 1998

International Symposium on Archaeometry, Mexico City, Mexico, May 15-19,  
 2000

Materials Research Society, Boston Symposium, Fall 1978

MRS Talk TiC TiB<sub>2</sub>, Fall 1993

Second Annual Allerton Conference on Bioengineering, May 23-24, 1971

TMS Talks, "Metallic Ceramics as Interconnects" 1955

World Heritage Museum Guild Fall Lecture, "Black Magic" November 12, 1995

Correspondence and Memos, 1974-1984

Course Lecture Notes and Advertisements for Courses

Center for Materials Research in Archaeology and Ethnology, Massachusetts  
 Institute of Technology, 1998-1999

Ceramic Engineering 245 (Physical Chemistry) Transparency Notes

EMSE 318 Archaeological Materials

EMSE 413 Notes for Material Science Course, Fall 1988

EMSE 424 Properties of Metallic Ceramics

Endogenous Electrical Signals in Bone Transparencies

Hardening of TiC by TiB<sub>2</sub> and Vice Versa

Low Electrical Resistivity of Titanium Diboride

New College, Florida

North Carolina (NC) Student Papers

Thermal Conductivity Transparencies

Transparencies for Lecture, MOCUD

Transparencies for Talk- Not Labeled or Dated

**Box 4:**

Granato, A.V. Review Articles, 1997-2001

"Materials Science in Archeology and Art" Proposal under the Hewlett Initiative

National Science Foundation Proposals

Gold and Silver Alloys, 1997

Undergraduate Course and Curriculum (UCC) Proposal and Elemental Analyses  
of Archaeological Materials, 1987, 1993

Organic Contents of Ancient Vessels: Materials Analysis and Archaeological  
Investigation MASCA, the University Museum of Archaeology and  
Anthropology, Volume 7, 1990

Popov-Richter, Vida Master's Degree Program Admission

Publications that Cite Williams Research

- "Stacking Faults in TiC" by J. Venables, 1966
- "Microhardness of TiC" by R.H.J. Hannink, 1971
- Ceramics in Czechoslovakia, 1989

Research Laboratory for Archaeology and the History of Art, Report(s) on Current  
Research, 1991-1993

Research Projects and Interests, includes raw data and physical samples

- Anasazi Sherds from Mesa Verde (contains actual shreds of Mesa Verde Pottery),  
1999-2000
- BDT, Hardness, 1995
- Bronze Mirror- TEM, 1997
- Don Krummel Iron Specimens, 2001
- Dumbarton Oaks- Materials Analysis of Byzantine Pottery, 1996
- Kaolin Clay, 1999
- Lustreware
- Maine Antiques Digest (MAD)
- Marble from Parthenon (contains photographs)
- Mesa Verde National Park
- Paktong
- Paper Conservation
- Parian Ware (contains actual shreds of Parian Ware), 2 Folders
- Péruvien Cortage (contains polaroid photographs)
- Photos of Renaissance Drawing
- Roman Coins (contains photographs and negatives)
- Shroud of Turin
- Statue of Liberty
- Wedgwood China, 3 Folders

Semi-Conductor International Papers, Centers for Advanced Technologies and  
Partnerships for Industry Competitiveness Correspondence and Research Papers,  
1992-1997

Thermal Expansion Notes and Research Papers, 1992-1997