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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, ca. 1970s-1980s

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, 8th - 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,"

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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 TiB₂" 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 TiB₂, 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 TiB₂ 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

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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