

MC 47

William B. Crandall

Faculty

Collection

Acquisition: William B. Crandall

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The New York State College of Ceramics at Alfred University, Scholes Library

William Brooks Crandall

(1921-2020)

Born: February 24, 1921, Andover, New York

Died: May 7, 2020, Port, Charlotte, Florida

Married: Mary Burdick (died 2000), 1942 in Alfred, New York
Betty Amos, 2002

Children:

Parents: Hattie Brooks (1881-1969) father (1978-1968)

Education:

1942 B.S. Ceramic Engineering, NYSCC at AU. Thesis (with Esther Miller): "The Effect of Composition on the Opacity of Zirconium Opacified Enamel Slips and Fired Cover Coats : The Effect of Deairing on Ground Coat and Zirconium Opacified Enamel Slips and Fired Coats."

1944 M.S. Ceramic Engineering, NYSCC at AU. Thesis: "The Effect of the Addition of Certain Oxides on the Surface Tension of a Glass, an Enamel Frit, and a Glaze Measured by the Drop Weight Method "

Work/Teaching:

1957 Faculty (teaching and research), New York State College of Ceramics, at Alfred University

Honors/Societies:

American Ceramic Society

National Institute of Ceramic Engineers

Society of Automotive Engineers

International Plansee Society of Powder Metallurgy

Ceramic Association of New York

National Energy Policy Advisory Committee

Keramos.

Publications:

"Evaluation of Phosphatic Clay and Other Was for Construction Products: I Tile," *Florida Institute of Phospahte Research Publication 02-026-047*, December 1987.

Ceramics technician tape. Alfred, N.Y., 1981. [Overview of the six-month ceramics technician training program held at New York State College of Ceramics at Alfred

University, in cooperation with Steuben County CETA. Includes footage from classroom, labs, and a pilot plant, interviews with trainees, and an explanation of the program by William Crandall, director of Alfred University Research Foundation.

"Wastes and Byproducts." *Materials Science Research*, Vol. 8. New York: Plenum Press, 1974

"Space Processing of Chalcogenide Glasses," with D.C. Larsen and M.A. Ali, *Proceedings of Third Space Processing Symposium*, 1974

"Advances in Reclamation Technology by High Temperature Incineration," *Proceedings of Fourth Annual Symposium on Environmental Pollution*, September 1973.

"Surface Analysis of Glass by Charged Particle Analysis," (with J. W. Mandler), *Materials Science Research*, Vol. 7. New York: Plenum Press, 1973

"Glassed Steel" in " *Composite Engineering Laminates*, Cambridge: MIT Press, 1969

"Electron Microscopy," *Seminar for Scientific Glassblowers*. Alfred, N.Y: New York State College of Ceramics at Alfred University, 1961.

"The Mechanical Properties of Ultra-Fine Hot Pressed Alumina," in *Mechanical Properties of Engineering Ceramics*, New York: Interscience Publishers, 1961.

Cermets. Edited by J. R. Tinklepaugh and W. B. Crandall. New York, N.Y.: Reinhold, 1960.

"Heat Transfer Properties of Refractories," *Fundamentals of investment materials for the precision casting of metals: Summer course*, New York State College of Ceramics at Alfred University, 1960.

"High Temperature Materials and Methods of Evaluation," (with J. R. Tinklepaugh) in *International Plansee Seminar*, June 1955.

Articles in *Journal of Material Science Letters*, *Bulletin of the American Ceramic Society*, *Journal of the American Ceramic Society*, etc.

Patents:

Method for making a terra sigillata coated pan. US Patent 5492729 (with Karen Tufty-Wisniewski). Filed:1994.

Electric storage heating apparatus United States Patent 4395620 (with Robert A. Clyde)

Low thermal expansion ceramic and process. US Patent 4301214. Filed: 1980

Multi-purpose ceramic element. US Patent 4251239 (with Robert A. Clyde). Filed: 1978

Ceramic utensils. US Patent 4229494 (with Linda J. Wasserstein). Filed 1979

Terra sigillata coated ceramic cookware. US 4168334 (with Linda J. Wasserstein). Filed 1977

Method for baking in terra sigillata coated pan. US Patent 4162334 (with Linda J. Wasserstein). Filed 1978

Ceramic utensil. US Patent 4155788 (with Linda J. Wasserstein). Filed 1978

Self-calibrating dilatometer for high temperature use. US Patent 2831340 (with Alvin Lieberman). Filed July 16, 1952.

Series Description

Collection

Box 1

Alfred in pictures, 1968 to 2000. Many annotated and dated, including photos of the Village, University, College, and the bread pan project. Some negatives from the 1950s College of Ceramic faculty and students. Two folders.

Laboratory notebook for thesis, April 3, 1942. "Surface Tension of Molten Glasses, Enamel Frits and Glazes by Drop Weight Method.

Film "South Hall Gang" and "Ceramic College Gang"

CANY (Ceramic Association of New York). Correspondence, programs. 1969-1984.

Include Special Report by James Reed "Some Observations and Thoughts about the Plasticity of Particulate Systems," January 1981."

College History:

Ceramic Research at Alfred University, College of Ceramics, during the 1950s. (undated)

The Alfred University Research Foundation Pilot Plant (8/18/99)

The Origin of Alfred and the College of Ceramics with Some Personal Experiences (11/4/99)

Patent: *Self-calibrating dilatometer for high temperature use*. US Patent 2831340 (with Alvin Lieberman). Filed July 16, 1952.

Drawing for Ceramic Stove (12/30/80)