



MC 40

James S. Reed

Dean, Ceramic Engineering and
Materials Sciences, New York State
College of Ceramics at Alfred University

Collection:

Acquisition: 1999

Processed: JL? and Elizabeth Gulacsy

Updated: Laura Habecker, 2020

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

James Stalford Reed

(1938-)

Born: June 7, 1938

Died:

Married: Carol

Children:

Parents:

Education:

1960 B.S. Ceramic Technology, Penn State University. Thesis: *The formation of spinel and order-disorder phenomena in spinel, MgAl₂O₄*. [QE391.S68.RA 1960] Advisor G. W. Brindley

Fall 1960 Carnegie Institute of Technology. Metallurgy

1965 Ph.D. Ceramic Science, Alfred University. Thesis: *An Investigation of the Constitution of Transition Metal Ions in a Spinel Matrix*. [TP2.N36 1965 No.4] Advisor T. J. Gray

Work/Teaching:

1965 Assistant Professor, Ceramic Engineering, NYSCC at AU

1970-71 Visiting Professor, University of California at Berkeley

1977 Visiting Professor, Ecole Nationale Supérieure de Chimie, Paris, France

1978-1999 Professor, NYSCC at AU

1997-99 Dean, Ceramic Engineering and Materials Sciences, NYSCC at AU

? Emeritus?

Honors/Societies:

1987 SUNY Chancellor's Award for Excellence in Teaching

Danforth Associate at Alfred University

American Ceramic Society, fellow & member

National Institute of Ceramic Engineers

Phi Kappa Phi

Keramos

American Men of Science

Publications: **List moved to collection**

Patents:

"Novel Whiteware Body and Energy Efficient Processes for Same." U.S. Patent 4,212,924, July 15, 1980.

"Incipient Flocculation Molding of Particulate Inorganic Materials." U.S. Patent 5,908,588, June 1, 1999. With Syamal K. Ghosh, Dilip K. Chatterjee, Steven R. Arrasmith

Advisor for: **Lists moved to collection**

Theses (BS)

Theses (MS)

Series Descriptions

Faculty papers: Office files with course outlines and work. Includes student papers and correspondence. Reed's extensive publications, patents and student theses he was an advisor for (both BS and MS theses) added.

Collection

Box 1

Correspondence. 1987-1999.

BCC (Binder Coagulation Casting) Reports – William J. Walker, 1997

Professional Papers:

| | reference |
|--|--|
| | "Sintered permeable ceramic molds," with L. M. Holleran. |
| | "Pressure drop of extrusion in a square entry die," with Jingmin Zheng and William B. Carlson, 1991 |
| | "Driving force and retarding of densification in solid state sintering," with Jingmin Zheng and Paul F. Johnson, 1990. |
| | "Preliminary results for PVA adsorption on A16 SG and A30 aluminas (Alcoa Confidential), 1991 |
| | "Progress Report" with R. L. DeRosa and J. Trapasso, 1999. Submitted to the Polymer-Assisted Ceramic Manufacturing Research Center |
| | "FTIR spectral investigation of alumina surfaces and polyacrylate adsorption on them," with D. H. Lee and R. A. Condrate. |
| | "Influence of slurry parameters on granule characteristics," with William J. Walker and Surendra K. Verma |

Eastman Kodak Research (including patent)

"Spray dried granules for pressing"

"Pressing"

Proposals

Courses:

| number | title |
|---------|-------------------|
| CES 303 | Physical Ceramics |

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| CES 306 | Operational Techniques |
| CES 327 | High Temperature Reaction Processes |
| CES 509 | Ceramic Fabrication Process |
| CES 510 | Ceramic Fabrication Process |
| CES 515 | Research Seminar |
| CES 593 | ? |
| Short Course | Principles of plasticity and extrusion, 1993 |
| Short Course | Forming Ceramics By Powder Pressing: Principles, Technology, and Quality, 1996 |

Student papers from classes:

| Class | title |
|-------------------|--|
| CES 509 | Axelson, Scott. M.S. 1988. "Reaction-Bonded Silicon Nitride: a Chemical Method of Preparation," 1986 |
| CES 510 | Bihuniak, Peter. Ph.D. 1997. "Viscous Flow Sintering, "1976 |
| CES 510 | Carnahan, Gary. M.S. 1993. "Gelation Reactions in Aqueous Polymer Solutions," 1991 |
| CES 510 | Chakraborty, Indra. Ph.D. 1984. "Liquid Phase Sintering," |
| CES 510 | Chatfield, Lawrence. B.S. 1991."Cavitation Phenomenon: Theory and Optimization of Particle Dispersion," 1992 |
| CES 509 | Corah, Chip. M.S. 1991. "Preparation of Ceramic Powders Using Emulsion Techniques," 1986 |
| Independent Study | Dillon, Gregory. M.S. 1993. "The Adsorption of Organic Processing Additives in Oxide/ Aqueous Systems and Their Role in Modifying Interparticle Forces." |
| CES 510 | Dillon, Gregory. M.S. 1993. "The Use of Cylindrical Internal Reflectance FTIR to to Characterize Interfaces in Acqueous Processing Systems," 1991 |
| CES 510 | Dinger, Bruce. M.S. 1984. "Rheology and Stability of Clay-Water Systems," 1982 |
| ? | Doshi, Dilip. Ph.D. 1999. "Low Pressure Injection Molding: A Cost Effective Method for Complex and Near-Net Shape Formation of Ceramics," 1992 |
| ? | Doshi, Dilip. Ph.D. 1999. "Research Report," 1992 |

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|--------------------------------|--|
| Independent Study | Fleming, Mary. B.S. 1985. "Sintering in the Presence of a Liquid," 1985 |
| ? | Glassmire, Cathleen. M.S. 1989. "A Review of the Processing of Alpha and Beta Silicon Carbide," 1986 |
| CES 509 | Gressler, Carole. M.S. 1988. "Nonconventional Methods of Preparation of Ceramic Powders," 1986 |
| CES 509 | Hexemer, Richard. M.S. 1988. "Preparation and Sintering of Alumina Gels Derived from Pseudoboehmite" |
| CES 510 | Huffsmith, Sarah. B.S. 1989. "Hot Pressing of Ceramics," 1978 |
| CES 509 | Jain, Alka. M.S. 1989. "Effect of Powder Characteristics on the Microstructure," 1986 |
| CES 510 | Joseph, Innocent. Ph.D. 1985. "Sintering in the Presence of a Liquid Phase," |
| Ceramic Fabrication Processing | Kim, Sukyoung. M.S. 1986. "Deflocculation Theory," 1983 |
| ? | Krubner, Ales. M.S. 1994. "Gelcasting of Binary Composites," 1992 |
| CES 510 | Lee, Donghun. M.S. 1995. "Thermal Degredation of Polymers," 1994 |
| CES 510 | Lee, Donghun. M.S. 1995. "Polyelectrolytes Adsorption," 1994 |
| CES 510 | Likitvanichkul, Sumalee, Ph.D. 1997. "Gel Casting: A Novel Processing Technique," 1991 |
| CES 509 | Love, Mark. B.S. 1974. "Flow Patterns in Ram Pressed Ware," 1974 |
| CES 510 | Paisley, Robert. M.S. 1977. 1976 |
| ? | Pierce, Laurie. B.S. 1985 |
| CES 510 | Price, David. M.S. 1981. "Compressibility and Permeability of an Electrical Porcelain," 1979 |
| CES 509 | Rabidoux, Clifford. M.S. 1988. "Preparation and Characterization of Silicon Nitride Powders," 1986 |
| ? | Rao, Madhav. "Effects of Extrusion Papameters on Extrusion Force." |
| CES 509 | Sainamthip, Prinya. Ph.D. 1987. "Comparison of Particle Size Distribution of Wollastonite Using Microtrac and Sedigraph Analyzers," 1983 |
| CES 409 | Shattes, David. B.S. 1983. "Spray Drying," 1983 |

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|---------|--|
| CES 510 | Silsbee, Michael. M.S. 1984. "Gypsum Plaster Molds," 1982 |
| CES 510 | Stanford, Gerald. Ph.D. 1983. "The Compaction of Potassium Bromide and Alumina Powders," 1979 |
| CES 510 | Steere, Thomas. M.S. 1985. "The Effect of Sulfuric Acid on Some Plaster Mold Properties," 1981 |
| CES 509 | Vitch, Susan. M.S. 1988. "Ion Exchange Strengthening of Glass," 1986 |
| CES 509 | Votava, Ward. M.S. 1980. "Particle Size Characterization on the Scanning Electron Microscope," |
| CES 550 | Wight, John. Ph.D. 1996. "Injection Molding of Ceramic Powders," 1994 |

Lists added to collection in 2020:

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| Publications |
| Advisee Papers BS |
| Advisee Papers MS |
| Advisee Papers PhD |