



Dr. Van Derck Frechette

Faculty

Collection:

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

Van Derck Frechette

(1916-2001)

Born:	January 5, 1916, Ottawa, Ontario, Canada
Died:	March 21, 2001, Alfred, New York
Married:	Sarah (Sally) Houghton, April 4, 1940
Children:	Kate (Bill) Forshee; Jude Frechette, Derck (Janis) Frechette, William (Ginny) Frechette, Chris (Wyn) Frechette
Parents:	Howells and Lena Derck Frechette
Education:	
1929-1934	Nepean High School, Westboro, Ontario, CN
1934-1936	Victoria College, University of Toronto. Honour Mathematics and Physics
1936-1939	BS in Ceramic Engineering, Alfred University. Thesis: Study of the recrystallization of MgO
1938-1940	MS in Ceramic Engineering, University of Illinois
1942	Ph.D. in Ceramic Engineering, University of Illinois. Thesis: An investigation of the reactions of simple magnesia spinels with alkalin earth orthosilicates in the solid state
Work/Teaching:	
1935	Geological Survey of Canada, Field Survey in the Thunder Bay District (summer)
1936	M. J. O'Brien, Ltd. Prospecting gold near White River, Ontario (summer)
1937	Canadian Refractories Ltd. (summer)
1938-1941	Engineering Experiment Station Fellowship, University of Illinois. Research Assistant
1941-1942	New York State College of Ceramics at AU. Instructor
1942-1944	Corning Glass Works. Research physicist
1944-1987	New York State College of Ceramics at Alfred University (Emeritus 1987)
1955-1956	Institute for Physical Chemistry, University of Goettingen, Germany. Guest Professor
1956	Pratt and Whitney Division of United Aircraft, Hartford, CT. Summer Research
1957	Oak Ridge National Laboratory, Oak Ridge, TN. Summer Research

1960-1965	Lawrence Radiation laboratory, Livermore, CA. Summer Research
1965-1966	Max Planck Institut for Silicate Research, Wuerzburg, Germany. Guest Professor
1973	Institute for Materials Science, University of Erlangen- Nurnberg, Germany. Guest Professor
Honors/Societies:	
1954	American Ceramic Society, Fellow
	Gordon Research Conference Award
1955	Fulbright Senior Research Award
1963	Swedish Royal Academy of Arts and Sciences, Honorary Member
1968	American Society for Engineering Education, Western Electric Fund Award
1983	American Ceramic Society, Outstanding Education Award
1985	Alfred University, Order of Merit
1991	Alfred University, Doctor of Science, honoris causa
Dalas alsa	American Ceramic Society, Bleininger Award
Dates unknown	Academy of Ceramics American Society for V. Bay and Floatron Diffraction
	American Society for X-Ray and Electron Diffraction ASTM Committee on Fracture Mechanics
	ASTM Committee on Glass
	British Ceramic Society
	Canadian Ceramic Society
	Ceramic Educational Council
	Delta Sigma Phi
	Deutsche Keramische Gesellschaft
	Eta Mu Alpha
	Keramos (honorary ceramic engineering fraternity)
	Mineralogical Society of America
	National Institute of Ceramic Engineers
	New York Academy of Sciences Phi Kappa Phi
	Phi Kappa Epsilon
	Phi Kappa Phi
	Sigma Xi (honorary scientific research)
Publications:	(Books) in chronological order

and Insley, Herbert. Microscopy of Ceramics and Cements, Including Glasses, Slags, and Foundry Sands. New York: Academic Press, 1955 (2nd printing, 1962).

Non-Crystalline Solids. New York: Wiley, 1960. <u>Conference on Non-crystalline solids, 1958</u>, Alfred University

and Gray, Thomas James. Kinetics of reactions in Ionic Systems [Proceedings]. New York: Plenum Press, 1969. International Symposium on Special Topics in Ceramics, 1967, Alfred University.

and LaCourse, William C., Burdick, Vernon L. Surfaces and Interfaces of Glass and Ceramics [Proceedings]. New York: Plenum Press, 1974. International Symposium on Special Topics in Ceramics, 1973, Alfred University.

and Pye, L. David, Reed, James S. Ceramic Engineering and Science: Emerging Priorities. New York: Plenum Press, 1974. Conference on Emerging Priorities in Ceramic Engineering and Science, 1974, Alfred University.

Crystallography: A Primer. Alfred, NY: New York State College of Ceramics at AU, 1977. (2nd edition published in 1982)

and Pye, L. David, Kreidl, N. J. Borate Glasses: Structure, Properties, Applications. New York: Plenum Press, 1978. Conference on Boron in Glass and Glass Ceramics, 1977, Alfred University.

and Setari, Stephen. Alfred Community Resource Manual. Alfred, NY: Office of Governmental Grants and Projects, Alfred University, 1979.

and Pye, L. David, Rase, Daniel E. Quality Assurance in Ceramic Industries [Proceedings]. New York: Plenum Press, 1979. Conference on Quality Assurance in Ceramic Industries, 1978, Alfred University.

and Pye, L. David., O'Keefe, John A. *Natural Glasses* [*Proceedings*]. Amsterdam: North-Holland Physics, 1984. International Conference on Glass in Planetary and Geological Phenomena, 1983, Alfred University

and Varner, James R. Fractography of Glasses and Ceramics [Proceedings]. Westerville, OH: American Ceramic Society, 1988. <u>Conference on the Fractography of Glasses and Ceramics, 1986</u>, Alfred University

Failure Analysis of Brittle Materials. Westerville, OH: American Ceramic Society, 1990. Translated into Japanese: Zeisei zairyo hamen kaiseki maniaru. Tokyo: Shingijutsu Kaihatsu Senta, 1997.

and Varner, James R. Fractography of Glasses and Ceramics II [Proceedings]. Westerville, OH: American Ceramic Society, 1991. Conference on the Fractography of Glasses and Ceramics, 1990, Alfred University

and Varner, James R, Quinn, G. D. Fractography of Glasses and Ceramics III [Proceedings]. Westerville, OH: American Ceramic Society, 1996. <u>Conference on the Fractography of Glasses and Ceramics, 1995</u>, Alfred University

Series Descriptions

Box 1

Personal notebooks with addresses and notes. Correspondence from 1946 through 1972. Lecture notes, publications (reprints and original typescripts (1946-1973).

Student papers, including exam reports from different classes.

Box 2

Reel to reel tapes of lectures presented at the New York State College of Ceramics, including symposia, College events. 1950s. Not all tapes are identified.

Collection

Box 1

Personal Data (including 1942 Commencement Program). Obituary.

The Van Derck Frechette Professor of Ceramic Science Endowed Chair.

Dr. Alastair Cormack. Inaugural Lecture (1999): Ceramic Science Through the Computer: An Atom's Eye View. Program.

Correspondence 1946-1951

Correspondence 1952-1959

Correspondence 1960-1969

Correspondence 1970-1972

List of outgoing correspondence 1960-1965

Lectures: Borelius, Guinier, Kreidl, Buerger, Hedvall, Eitel, Bragg, Kerr:

Publications in chronological order.

"Silicates." Undated. Prepared for the Encyclopaedic Dictionary of Physics, Pergammon Press.

and Hedvall, J. A. "Cermets, the new ceramics." <u>Pulverteknik</u>, No. 15 (no date). and Sephton, H. I. "A method of particle size determination by means of the microscope." <u>Technical Paper No.</u> 37, 1949.

and Crandall, W. B., Burzycki, M. "Improved Roberts Control for laboratory furnaces." <u>Technical Paper No. 40</u>, 1950.

and Bassett, L. B. "Microsampling of ceramic materials." <u>Technical Paper No. 50,</u> 1950.

and Tao, Yung. "Graphitization of carbon." Annual Progress Report. NYO-3760 Unclassified. Contract No. AT(30-1)1297. December 31, 1952.

- and Tao, Yung. "Graphitization of carbon." Technical Progress Report. NYO-3762 Unclassified. Contract No. AT (30-1) 1297. June 30, 1953.
- and Tao, Yung. "Graphitization of carbon." <u>Technical Progress Report. NYO-3764</u> Unclassified. Contract No. AT (30-1) 1297. December 31, 1953.
- "Microscopy and molding sands." AFS Transactions, 63 (1955).
- "Solid State Reactivity in Relation to Progress in Refractories Technology." <u>Tercera Reunion Internacional sobre Reactividad de los Solidos,</u> 1956.
- "Measurement and control of particle size." Summer Course, 1960.
- "Progress on the 2070 C BeO transformation." Memo to Dr. J. S. Kahn, 1961.
- Notes prepared and distributed by A. J. Rothman, 1960
- and Cline, Carl F. "The cleavages of BeO and other minerals having the wurtzite structure." <u>Technical Paper No. 124</u>, 1963.
- "Nuclear Reaction Ceramics for Nuclear Applications." Lecture prepared for CE 102, April 28, 1964.
- "Scholarship and the University." Honors Convocation, Alfred University, 1964.
- "Die Ausbildung von Keramik-Studentin in the USA." <u>Ber.Dtsch.Keram.Ges.</u> 45 (1966)
- "Characteristics of fracture-exposed surfaces." Technical <u>Paper No. 133</u>. No. 5, Feb. 1966.
- "Model construction as an aid to teaching symmetry." <u>Journal of Engineering</u> Education, 56 (9) 347-349 (May 1966).
- and Oel, H. J. "Stress distribution in multiphase systems: 1, composites with planar interfaces." <u>Technical Paper No. 140</u>. 1967.
- and Cline, Carl. "Laser damage in transparent glasses and crystals." <u>Interaction of Radiation with Solids</u>, Plenum Press, 1967.
- and Cline, Carl. "Stimulation of thermoluminescence in LiF by ruby laser light." <u>Applied Physics Letters</u>, 10 (2) 39-40 (Jan. 1967).
- "Report of the Solid State Conference in Cairo." <u>Deutsche Keramische Gesellschaft</u>, 44 (2) 77-78 (1967).
- and Harris, J. D. "Basic refractory attack in copper converters." <u>Journal of the Canadian Ceramic Society</u>, Vol. 38, 1969.
- and Cline, C. F. "Fractography of ballistically tested ceramics." <u>American Ceramic Society Bulletin</u>, 49 (11), 1970.
- "Fractology of glass." Tutorial Symposium, June 8-19, 1970.
- and Varner, James R. "Mechanisms of slow crack propagation in glass" in Amorphous Materials: Papers Presented to the 3rd International Conference on the Physics of Non-crystalline Solids. London: Wiley Interscience, 1972
- and Quackenbush, C. L. "Slow fracture of glass in alkanes and other liquids." International Symposium on Special Topics in Ceramics, 1973

"Initiation and propagation of fracture in ceramics." Plenary Lecture, 3rd International Congress on Fracture, 1973.

Student Papers, Undated.

Treffner, Walter S. "Petrographic Studies of Basic Oxygen Furnace Slags and Used Refractories."

Bjorck, Gordon L. "Suggestions for Enameling Rhenium Electrodes for Service at 2000 C in an Oxidizing Atmosphere."

Clare, S. D. "Electrical Conductivity and Semi-Conductors."

Copley, David. "Ithaca Magnetic Survey."

Newton, William. "Petrography of Slogs."

Seigal, Pamela K. "The Development of the Hot State Attachment to the Microscope." - Petrography 302

Student Papers, 1963-1966

Neuman, Bruce H. "Effect of Microstructure on the Mechanical Properties of Materials." (1963, C.E. 423)

Gilluly, Daniel A. "Recent Developments in Microscopic Analysis of Materials." (1963, Petrography 302)

Sumer, Guner. "A Literature Review of the Microscopic Examination of Hydrated Portland Cement." (1966, Petrography 401G)

Sites, Royal H. "Glass Defects, Their Determination and Causes." (1966)

Ringler, Edward. "Origins of Color in Glass: A Practical View." (1966)

Pasto, Arvid. "Enamel Coatings to Decrease Oxidation of Metals at High Temperatures" (1966, Ceramic Engineering 418: Enamels

Moffit, Richard. "Gas Evolution During the Firing of Porcelain Enamels to Iron." (1966)

Lent, Susan B. "Zirconium Oxide in Enamels." (1966

Hargrave, Robert M. "One Coat Enamels." (1966)

Harris, Donald. "The Use of the Petrographic Microscope in the Examination of Refractions." (1966)

Bugala, John J. "Specialized Uses of the Petrographic Microscope." (1966)

Aguirre, Carlos. "Weathering Action." (1966, Ceramic Engineering 418)

Tollerup, Winston R. "Final Examination." (1966, Ceramic Engineering 418: Enamels)

Ringler, Edward. "The Boston Stove Company." (1966)

Lazares, Carlos A. "Factors Which Contribute To or Detract From the Acid Resistance of Enamels." (1966, Ceramic Engineering 418: Enamels)

Hargrave, Robert M. "Enameling Magnesium." (1966, Ceramic Engineering 418: Enamels)

Aguirre, Carlos. "Acid Resistance of Enamels." (1966, Ceramic Engineering 418: Enamels)

Student Papers, 1967-1968

Bjorck, Gordon. "High-Temperature Enamels." (1967)

Pasto, Arvid Eric. "Phase Transformations: General Theory and Means of Study." (1967, C.E. 424 Advanced Ceramic Technology)

Galusha, Richard E. "Crystalline Coatings." (1967, C.E. 418)

Galusha, Richard E. "Final Exam." (1967, C.E. 418)

Wright, Parke H. Jr. "The Properties and Fabrication of Oxide Fuels." (1968)

Quackenbush, Carr Lane. "The Basic Principles of Breeder Reactors." (1968, C.E. 424 Advanced Ceramic Technology)

Moyles, Mark M. "Non-Oxide Ceramic Nuclear Fuels." (1968, C.E. 424 Advanced Ceramic Technology)

Smith, Peter C. "Plasma Sprayed Ceramic Coatings." (1968)

Menendez, Fernando. "A Microscopic Study of Portland Cements." (1968)

Kooy, Nellie Vander. "Recent Developments in P.E. Microscopy Techniques." (1968)

Sanders, David. "The Petrographic Study of Basic Refractories." (1968)

Rodriguez, F. J. "Advances in Study of Glass." (1968)

Langer, William H. (1968, Petrography 302)

Drosendahl, Glenn A. "Slags." (1968)

Crick, Roger "Porcelain Enamel Microscopy." (1968, Petrography 302)

Baty, Douglas W. "Microscopy of Glasses." (1968)

Cole, Thomas A. "Microscopic Examination of Glass." (1968)

Student Papers, 1969-1970

Nitchman, Peter P. "Special Project." (1969, Advanced Petrography)

Quackenbush, Carr Lane. "Cerment: Microstructure, Properties and Optical Microscopic Analysis." (1969)

Cronin, David. "Identification of Cords." (1969)

Miranda, Fernando. "Petrography." (1969)

Nastasi, Rosalia. "Microscopic Examination of Whiteware Bodies and Glazes." (1969)

Boysen, Stuart. "Holography and Some of Its Applications" (1969, Advanced Ceramic Technology"

Powell, Bob R. Jr. "Microscopy of Cements." (1969)

Wright, Jeffrey F. "Microscopy of Carbon Refractories." (1969)

Mandaville, David W. "Glass Stones." (1969)

Wells, Robert E. "Microscopic Techniques for the Study of Refractories." (1969)

Harris, R. K. "Fracture Mechanism in Glass Subjected to High Impact." (1969)

Snowden, William E. "Developments in Refractories." (1969, C.E.)

McCarroll, Edwin P. "Microscopy in Refractories." (1970)

Laubenstein, Dick. "The Use of the Microscope in Determining Carbon Refractory." (1970)

Prideaux, Peter H. "Yttrium Iron Garnet Growth." (1970)

PHOTOGRAPHS (mainly negatives)

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Box 2A tapes

SYMPOSIUM ON CERAMIC EDUCATION. Sponsored by the New York State College of Ceramics, June 12, 1950.

Reel 1. Moderator: Robert Campbell, Head of Ceramic Engineering Dept.

Speaker: Dr. R.K. Hirsch, University of Illinois.

Reel 2. Speaker: Prof. Charles Harder, Head of Department of Ceramic Design.

Topic: Ceramic Art and Design.

Dr. Paul Kerr, Research Coordinator, Dept. of Geology, Columbia University.

Reel 1. Geology and Clay Mineral Resources. Feb. 27, 1951.

Reel 2. The Modern Role of Clay Minerals. Feb. 27, 1951. 2 copies.

Prof. G. Borelius, Royal Institute of Technology, Stockholm, Sweden. Experiments on Transformations in Selenium. Lecture. March 5, 1951. 2 Reels.

Calorimetric Investigation of Transformations in Solids. Seminar. March 5, 1951. 2 Reels.

Dr. R. H. Boque, Director Portland Cement Association Fellowship, National Bureau of Standards.

Research in Portland Cement. Lecture. April 3, 1951. 2 Reels.

Minerals of Portland Cement. Seminar. April 4, 1951. 2 Reels.

Box 2B tapes

Dr. Jost. Evening talk. October 7, 1952. 3 Reels.

Enamel Adherence Conference. Sept. 24. Prof. J. Benard, University of Paris. Reel 3.

Cornerstone Laying Ceremony. New York State College of Ceramics.

Dr. Samuel R. Scholes, Associate Dean. Introduction to the glass blowing exhibition at the New York State College of Ceramics. St. Pat's annual open house. March 15, 1950. 1 Reel.

Crystal Chemistry Symposium. May 24 and 25, 1951. 10 Reels.

Reel 1. Introduction by McMahon.

Reels 1, 2 and 3. Dr. Ordway. Cements and Crystal Chemistry. Question period.

Reel 3. Introduction for D.P. Johnson by McMahon. Lecture by Johnson.

Reels 8 and 9. Dr. Paul Smith. Mechanical Properties and Recrystallization of non-metallic crystals.

Reels 9, 10 and 11. Dr. W. Merz. Ferro Electric Crystals.

Reels 12, 13 and 14. Dr. Sanford Cole. Precipitation of TiO2 from Glass.

Bickford, Ferrites, 1 Reel.

Barrer. 3 Reels.

Heuss. The script. 3 Reels.

Tower. 1 Reel.

2 Unidentified reels