

CURRICULUM VITAE

Personal

Name: Dimitri Alexander Sverjensky
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Education

Yale University, New Haven, CT: Ph.D. in Geology (1980)
 Yale University, New Haven, CT: M. Phil. in Geology (1977)
 University of Sydney, Australia: B.Sc. (First Class Honors, 1974)

Academic Honors

2011: Fellow of the Geochemical Society & the European Association of
 Geochemistry
 1988: Lindgren Award (Society of Economic Geologists)
 1979: William E. Ford Prize in Mineralogy (Yale University)
 1975: Australian-American Education Foundation Travel Grant
 1974-75: Australian Commonwealth Government Postgraduate Scholarship
 1974: Deas-Thompson Prize for Geology (University of Sydney)
 1972: Quodling Prize for Crystallography and Petrology (Univ. of Sydney)

Positions Held

2015: Visiting researcher, Université Claude Bernard 1, Lyon, France.
 2005 - 2015: Senior Visiting Investigator, Geophysical Laboratory, Carnegie
 Institution of Washington
 2001 – 2012: Associate Editor, Geochimica et Cosmochimica Acta
 1995 - 1997: Member, Board of Directors, The Geochemical Society
 1991 - Present: Professor, Dept. Earth and Planetary Sciences, The Johns
 Hopkins University
 1987-1991: Associate Professor, Dept. Earth and Planetary Sciences, The
 Johns Hopkins University
 1986 - 1991: Associate Editor, Economic Geology
 1984 - 1987: Assistant Professor, Dept. Earth and Planetary Sciences, The
 Johns Hopkins University
 1981-1984: Assistant Professor, Department of Earth and Space Sciences,
 SUNY at Stony Brook, NY 1994
 1980-1981: Staff Scientist, Lawrence Berkeley Laboratory, Berkeley, CA 94710

Teaching and Research Interests

Deep Earth Carbon, Nitrogen, Sulfur and Water Cycles
 Astrobiology
 Geochemistry
 Environmental Geochemistry
 Geobiological Surface Geochemistry
 High temperature/pressure aqueous solution chemistry
 Chemical equilibria and mass transfer

Contributions to Symposia and University Seminars

1979-1980: Wesleyan University, Harvard University

1980-1981: University of California, Berkeley, S U N Y at Stony Brook,
Gordon Research Conference on Ore Deposits

1981-1982: University of Toronto, Canada, Stanford University, California
Institute of Technology, Rutgers University; Penrose Conference, Geol.
Soc. America, Lake of the Ozarks, Missouri

1982-1983: Columbia University; Geological Society of America
Centennial Symposium: Hydrodynamics and Geochemistry of
Ore Generation in Sedimentary Environments (Indianapolis, Indiana)

1983-1984: Johns Hopkins University; Princeton Univ. Workshop:
"Tectonics and Ore Deposits"; Massachusetts Institute of
Technology, University of California, Berkeley

1984-1985: Geophysical Laboratory (Carnegie Institution), U S
Geological Survey (Reston)

1985-1986: University of Texas (Austin), University of Maryland, Dept. of
Geology (College Park)

1986-1987: The University of Leeds (England)

1987-1988: Ecole des Mines (Paris) and Bureau of Mining Geology (Orleans)
Symposium: Mobility and Concentration of Base Metals under
Sedimentary Cover (France); Univ. Michigan (Ann Arbor)

1988-1989: Washington University (St. Louis, Mo.); Co-chairman 1989
Gordon Conference on Hydrothermal Ore Deposits, Proctor
Academy, New Hampshire.

1989-1990: Society of Economic Geologists Symposium: Mississippi
Valley-type deposits (St. Louis, Missouri). Du Pont Titanium
Resources and Beneficiation Conference (Split Rock, Pennsylvania);
Princeton-Conoco Symposium: Computation and Data Analysis in the Earth
Sciences (Princeton, New Jersey).

1991-1992: American Geophysical Union Symposium: Physics and
Chemistry of Mineral Surfaces (San Francisco).

1992-1993: Gordon Research Conference on Ore Deposits

1993-1994: University of Maryland, Dept. of Chemistry (College Park)
University of Toronto, Dept. of Geology; Organizer of
Geochemical Soc. Symposium AGU (Baltimore): "Geochemistry of the Mineral-Water Interface"

1994-1995: Organizer of Geochemical Society Symposium AGU Meeting
(Baltimore): "Surface Geochemistry and Reaction Rates"

1995-1996: Visiting Lecturer, CNRS-Université de Paul Sabatier, Toulouse,
France

1996-1997: Washington University (St. Louis, Mo.); Université de Pierre et
Marie Curie, Paris, France

1997-1998: Plenary Lecturer DuPont Engineering Meeting; Geophysical
Laboratory (Carnegie Institution)

1998-1999: University of Delaware, Dept. of Soil Science

1999-2000: Materials Research Society Symposium, San Francisco

2000-2001: ETH Zurich, International Workshop on "Surface Chemical
Processes in Natural Environments", Ascona, Switzerland.

2001-2002: University of Illinois at Chicago, Dept. Chemical Engineering;
Environmental Molecular Science Laboratory "Mineral-
Water Interface Session" (Pacific Northwest National Laboratory.

- 2002-2003: "Surficial Geochemical Processes Symposium" (Argonne National Laboratory).
- 2003-2004: George Washington University, Dept. Earth and Environmental Sciences.
- 2005-2006: Geophysical Laboratory (Carnegie Institution of Washington).
- 2006-2007: Univ. of Wisconsin, Madison, Dept. of Geology & Geophysics.
- 2006-2007: Arizona State Univ., School of Earth & Space Exploration.
- 2007-2008: Sloan Foundation Workshop "Deep Carbon Cycle" (Carnegie Institution of Washington).
- 2008-2009: Geophysical Laboratory (Carnegie Institution of Washington); NASA Astrobiology Workshop, Phoenix, AZ.
- 2009-2010: Deep Carbon Observatory Workshop in Beijing, China.
- 2010-2011: Pennsylvania State University, Dept. of Geosciences.
- 2011-2012: Geophysical Laboratory (Carnegie Institution of Washington)
- 2012-2013: Arizona State Univ., School of Earth & Space Exploration.
- 2012-2013: Dept. Geological Sciences, Stockholm University, Sweden.
- 2013-2014: Geophysical Laboratory (Carnegie Institution of Washington)
- 2013-2014: Origin of Life Gordon Conference (Galveston, TX).
- 2013-2014: Invited Lecture, University College London, UK.
- 2013-2014: Invited Lecture, Lawrence Berkeley Laboratory, Berkeley, CA.
- 2013-2014: American Geophysical Union, San Francisco, CA.
- 2014-2015: American Geophysical Union Meeting, San Francisco, CA.
- 2014-2015: Invited Lecture, Ecole Normale Supérieur de Lyon, France.
- 2014-2015: Geochemistry Group, Univ. of Maryland, College Park, MD.

Abstracts and Reviews

- 1978: Sverjensky, D.A. and Wasserman, M.D., "Hydrothermal alteration around a Mississippi Valley-type deposit in the Viburnum Trend, southeast Missouri": Geol. Soc. America Abstracts with Programs, v. 10, p. 501.
- 1980: Sverjensky, D.A., "The origin of a Mississippi Valley deposit in the Viburnum Trend, southeast Missouri": Geol. Soc. America Abstracts with Programs, v. 12, p. 531.
- 1982: Hart, S.R., Shimizu, N. and Sverjensky, D.A., "An ion microprobe study of lead isotope variations within single galena crystals from the Viburnum Trend; A technique of mapping isotopic changes in hydrothermal ore fluids": Intl. Conf. on Mississippi Valley-type lead-zinc Deposits, Rolla, Missouri.
- 1982: Sverjensky, D.A., "Oil-field brines as ore-forming solutions": Geol. Soc. America Abstracts with Programs, v. 14, p. 628.
- 1983: Sverjensky, D.A., "Prediction of Gibbs free energies of calcite-type carbonates and trace element distribution between carbonates and aqueous solutions": EOS Trans. v. 64, no. 18, p. 346.
- 1983: Stormo, S. and Sverjensky, D.A., "Silicate hydrothermal alteration in a Mississippi Valley-type deposit, Viburnum, southeast Missouri": Geol. Soc. America Abstracts with Programs, v. 15, p- 699.

- 1983: Sverjensky, D.A., "Free energies of silicate minerals and trace element distribution during hydrothermal alteration processes": EOS Trans. v. 64, p. 874.
- 1983: Review of "Carbonate Buildups - A Core Workshop." Society of Economic Paleontologists and Mineralogists Core Workshop 4, Dallas, April 16-17, 1983 (P.M. Harris, ed.): Econ. Geol. v. 78, p. 1532.
- 1984: Sverjensky, D.A. "Review of Hydrothermal Processes at Seafloor Spreading Centers" edited by P.A. Rona, K. Bostrom, L. Laubrer, and K.L. Smith: Science. v. 226, pp. 1067-1068.
- 1984: Sverjensky, D.A., "Mobility of trace elements during hydrothermal alteration processes": Geol. Soc. America. Abstracts with Programs. v. 16, p. 671.
- 1985: Sverjensky, D.A. "Review of "Carbonate Sands - A Core Workshop." Society of Economic Paleontologists and Mineralogists Core Workshop 5, San Antonio, Texas, May 19-20, 1984 (P.M. Harris, ed.): Econ. Geol. v. 80, p. 1669.
- 1986: Shelton, K.L., Rye, D.N. Sverjensky, D.A., and Wasserman, M.D., Carbon oxygen isotope systematics of the Bonneterre Formation, southeast Missouri: A dynamic basin-evolution model, in Gregg, J.M., and Hagni, R.D., eds., Symposium on the Bonneterre Formation (Cambrian), southeastern Missouri; stratigraphy, sedimentology, diagenesis, geochemistry, and economic geology (abs.): Rolla Missouri, Department of Geology and Geophysics, University of Missouri-Rolla, p. 21.
- 1986: Sverjensky, D.A., "Chemical evolution of basinal brines that form sediment-hosted Cu-Pb-Zn deposits: Geol. Soc. Canada. Abstracts with Programs. v. 11, p. 132.
- 1986: Sverjensky, D.A., "A model for the origin of the metal ratios of sediment-hosted base-metal sulfide ore deposits": EOS Trans. v. 67, p. 388.
- 1986: Shock, E.L., Helgeson, H.C., and Sverjensky, D.A., "Calculation of acid dissociation constants and the aqueous solubilities of gases under hydrothermal conditions": EOS Trans. v. 67, p. 388.
- 1987: Sverjensky, D.A., "Theoretical prediction of the distribution of trace elements during hydrothermal alteration": Fifth Intl. Symposium on Water-Rock Interaction, Reykjavik, Iceland, pp. 550-552.
- 1987: Sverjensky, D.A. Review of "Roles of Organic Matter in Sediment Diagenesis." SEPM Spec. Publ. 38 (D.L. Gautier, ed.): Econ. Geol., v. 82, p. 776.
- 1987: Sverjensky, D.A., Shock, E.L., and Helgeson, H.C., "Prediction of the dissociation constants of aqueous metal complexes to 1000°C and 5 kb": Geol. Soc. Amer. Abstr., v. 19, p. 861.
- 1988: Sverjensky, D.A., and Hemley, J.J., "Alkali feldspar-mica-aluminosilicate equilibria with hydrothermal alkali chloride solutions": Geol. Soc. Amer. Abst., v. 20, p. A42.
- 1989: Sverjensky, D.A., and Garven, G., "Chemical mass transfer in regional flow systems associated with the formation of Mississippi Valley-type deposits in the mid-continent": Geol. Soc. Amer. Abstr., v. 21, p. 9.

- 1989: Garven, G., and Sverjensky, D.A., "Hydrogeology of regional flow systems associated with the formation of Mississippi Valley-type ore deposits in the mid-continent": Geol. Soc. Amer. Abstr., v. 21, p. 9.
- 1989: Shock, E.L., and Sverjensky, D.A., "Hydrothermal organometallic complexes of base metals": Geol. Soc. Amer. Abstr., v. 21, p. 8.
- 1989: Molling, P.A., and Sverjensky, D.A., "Thermodynamic analysis of ore fluids at the Questa Mo-porphyry deposits": Geol. Soc. Amer. Abstr. v. 21, p. 151.
- 1989: Sverjensky, D.A., Review of "Origin and migration of subsurface sedimentary brines. SEPM Short Course #21 (J.S. Hanor): Econ. Geol., v. 84, p. 2033.
- 1990: Sverjensky, D.A., "Weathering of unconformity-type uranium deposits and the formation of secondary uranyl phosphate mineralization": V.M. Goldschmidt Conference, Abstr. p. 84.
- 1990: Sverjensky, D.A., Molling, P.A., and Zhu, C., "Chemical mass transfer calculations for magmatic hydrothermal systems": V.M. Goldschmidt Conference, Abstr. p. 85.
- 1991: Sverjensky, D.A., "Linear free energy correlations for crystalline solids and divalent aqueous cations." Geol. Soc. Amer. Abstr., v. 23, p. 212.
- 1991: Sverjensky, D.A., "Trace element partitioning minerals and hydrothermal fluids in the oceanic lithosphere to 30 km depths." EOS Trans., v. 72, p. 538.
- 1992: Sverjensky, D.A., "A General Method for Prediction of the Gibbs Free Energies of Crystalline Silicates and Oxides": V.M. Goldschmidt Conference, Abstr. (in press).
- 1992: Sverjensky, D.A., "The Effect of Crystal Structure on Equilibria and Reaction Rates." Geol. Soc. Amer. Abstr., v. 24, p. 209.
- 1992: Sverjensky, D. A., "New Linear Free Energy Relations for Prediction of Equilibria, Reaction Rates and Sorption." EOS Trans., v. 73, p. 609.
- 1993: Sverjensky, D. A., "A New Equation for Prediction of Standard Gibbs Free Energies and Dissolution Rates of Crystalline Solids." Amer. Chem. Soc., (in press).
- 1993: Sverjensky, D. A., "A Physical Surface Complexation Theory for Sorption at the Mineral-Aqueous Solution Interface." EOS Trans., v. 74, p. 319.
- 1993: Komninou, A., and Sverjensky, D.A., "Chloritization of metamorphic muscovite from an unconformity-type uranium deposit." Geol. Soc. Amer. Abstr., v. 25, p. A-80.
- 1994: Sverjensky, D. A., "A theoretical model for prediction of surface protonation of oxides and silicates in water." EOS Trans., v. 75, p. 138.
- 1994: Sverjensky, D.A., "Crystal chemical basis for surface protonation and reaction rates." Geol. Soc. Amer. Abstr., v. 26, p. 350.
- 1995: Komninou, A., and Sverjensky, D.A., "Hydrothermal alteration and ore-forming fluid chemistry in an unconformity-type uranium deposit." Terra Nova, v. 7, p. 210.
- 1995: Sverjensky, D. A., and Sahai, N., "Theoretical model for prediction of surface protonation of oxides and silicates in water". Terra Nova, v. 7, p. 66.

- 1995: Sverjensky, D. A., Criscenti, L. J., Koretsky, C. M., and Sahai, N. "A Constant Capacitance Model for Dissolution Rates of Oxides and Silicates in Water." EOS Trans., v. 76, pp. S101-S102.
- 1995: Koretsky, C. M. and Sverjensky, D. A., "Detection of Surface Hydroxyl Species on Quartz and Feldspars using Reflectance Infrared Spectroscopy". EOS Trans., v. 76, pp. S101.
- 1995: Sverjensky, D. A. and Sahai, N. " Theoretical prediction of the equilibrium constants and enthalpies of surface protonation of oxides and silicates in water". Geol. Soc. Amer. Abst., v. 27, p. A43.
- 1995: Koretsky, C. M. and Sverjensky, D. A. " A comparison of andalusite, kyanite, sillimanite, γ -alumina, quartz and feldspar surface hydroxyl groups using surface infrared spectroscopy". Geol. Soc. Amer. Abst., v. 27, p. A182.
- 1995: Sahai, N. and Sverjensky, D. A. " Extended triple-layer model for prediction of ion adsorption". Geol. Soc. Amer. Abst., v. 27, p. A182.
- 1996: Koretsky, C. M., Sahai, N., and Sverjensky, D. A. " Calculation of surface site densities on a variety of oxide and silicate minerals using crystal structures and morphologies". Geol. Soc. Amer. Abst., v. 28, p. A146.
- 1996: Sahai, N. and Sverjensky, D. A. " Extended triple-layer model for prediction of specific electrolyte". Geol. Soc. Amer. Abst., v. 28, p. A146.
- 1997: Koretsky, C. M. and Sverjensky, D. A. " Structure of surface sites predicted from crystal chemistry: Implications for interpretation of infrared and X-ray absorption fine structure spectroscopy". 7th Annual V. M. Goldschmidt Abst., p. 116, LPI Contribution No. 921, Lunar and Planetary Institute, Houston.
- 1997: Koretsky, C. M. and Sverjensky, D. A. "Predicting dissolution rates using a triple-layer surface complexation model". Geol. Soc. Amer. Abst., v. 29, p. A152.
- 1997: Criscenti, L. C. and Sverjensky, D. A. " Transition metal adsorption onto metal oxides: ionic strength dependence". Geol. Soc. Amer. Abst., v. 29, p. A27.
- 1997: Sverjensky, D. A. "The reaction order of the dissolution rates of silicates derived from theoretically predicted surface protonation equilibrium constants". Geol. Soc. Amer. Abst., v. 29, p. A27.
- 1998: Sverjensky, D. A. Review of "Geochemistry of Hydrothermal Ore Deposits", 3rd edn., H. L. Barnes (ed.), Geochim. Cosmochim. Acta. v. 62, pp. 728-730.
- 1998: Criscenti, L. C. and Sverjensky, D. A. " Ionic strength dependence of transition and heavy metal adsorption onto metal oxides: ". 8th Annual V. M. Goldschmidt Abst., Mineralogical Magazine, 62A, pp. 356-357.
- 1998: Sverjensky, D. A. "A predictive model of surface charge on oxide surfaces in aqueous electrolyte solutions: The extended triple-layer model (ETLM)". 8th Annual V. M. Goldschmidt Abst., 8th Annual V. M. Goldschmidt Abst., Mineralogical Magazine, 62A, pp. 1483-1484.
- 1999: Criscenti, L. C. and Sverjensky, D. A. " A single-site model for metal adsorption over a range of surface coverages: ". 9th Annual V. M.

- Goldschmidt Abst., Lunar and Planetary Institute, Houston, LPI Contrib. No. 971, p. 63.
- 1999: Criscenti, L. C. and Sverjensky, D. A. " A single-site model for metal adsorption onto oxides over a range of ionic strengths and surface coverages". Geol. Soc. Amer. Abst., v. 31, p. A69.
- 2000: Sverjensky, D. A. "Interpretation of model capacitances in terms of the structure of the electric double-layer at the oxide-water interface". Materials Research Society Abstr., Spring 2000 (San Francisco), p. 225.
- 2000: Sverjensky, D. A. and Criscenti, L. C. "Speciation of Alkaline Earth Adsorption on the Surfaces of Oxide and Hydroxide Minerals in Salt Solutions". 10th Annual V. M. Goldschmidt Abst., Cambridge Publications, p. 972.
- 2001: Sverjensky, D. A. "Comparison of surface complexation models for metal adsorption with spectroscopic studies". 221st National Meeting American Chemical Society (San Diego, California).
- 2002: Sverjensky, D. A. " Standard states for surface sites and surface species". 223rd National Meeting American Chemical Society (Orlando, Florida).
- 2002: Sverjensky, D. A., Standard states for the equilibrium constants of surface adsorption reactions: Practical implications. 12th Annual V. M. Goldschmidt Abst Geochimica et Cosmochimica Acta, v. 66,15A, p. A756.
- 2003: Sverjensky, D. A., Prediction of chemical reactions at the solid-water interface. "Surficial Geochemical Processes Symposium" 10th DOE Geosciences Research Program Symposium (Argonne National Laboratory).
- 2004: Sverjensky, D. A. Prediction of surface charge and metal adsorption on oxides in salt solutions. 227th Amer. Chem. Soc. National Meeting (Anaheim, CA).
- 2004: Sverjensky, D. A. Integration of model surface speciation for Mg, Ca, Ba, Cd and Co with X-ray evidence for Sr and Zn on rutile. 227th Amer. Chem. Soc. National Meeting (Anaheim, CA).
- 2004: Piasecki, W. and Sverjensky, D. A. Trivalent metal ion adsorption onto oxides in electrolyte solution. 227th Amer. Chem. Soc. National Meeting (Anaheim, CA).
- 2005: Sverjensky, D. A. Prediction of alkaline earth speciation on mineral surfaces in salt solutions. 229th Amer. Chem. Soc. National Meeting (San Diego, CA).
- 2005: Fukushi K. and Sverjensky, D. A. Sulfate, selenate and silicate adsorption on oxides. 229th Amer. Chem. Soc. National Meeting (San Diego, CA).
- 2005: Sverjensky, D. A. and Fukushi, K. A new extension of the triple-layer model for selenite and arsenite adsorption to account for the electrostatic consequences of ligand exchange. European Geosciences Union, General Assembly (Vienna, Austria).
- 2005: Fukushi, K. and Sverjensky, D. A. Extension of the triple-layer model to include water desorption during for sulfate, arsenite and arsenate

- adsorption on oxides. 13th International Clay Conference (Tokyo, Japan).
- 2006: Sverjensky, D. A. and Fukushi K. New model for the prediction of anion speciation on oxide surfaces in salt solutions. 231st Amer. Chem. Soc. National Meeting (Atlanta, GA).
- 2006: Fukushi K. and Sverjensky, D. A. A predictive model (ETLM) for As(III)/(V) adsorption and surface speciation on oxides consistent with spectroscopic data. 231st Amer. Chem. Soc. National Meeting (Atlanta, GA).
- 2006: Sverjensky, D. A. and Fukushi, K. The attachment of aqueous organic species to oxide mineral surfaces: prediction of the surface speciation as a function of environmental parameters. European Geosciences Union, General Assembly (Vienna, Austria).
- 2006: Sverjensky, D. A. and Fukushi K. Integration of spectroscopic, theoretical molecular, and surface complexation model evidence of inorganic and organic anionic speciation at the oxide-electrolyte-water interface. 232nd Amer. Chem. Soc. National Meeting (San Francisco, CA).
- 2006: Sverjensky, D. A. and Fukushi K. A new approach for modeling the reactions of oxyanions at the mineral-water interface. Geol. Soc. Amer National Meeting (Philadelphia, PA).
- 2007: Sverjensky, D. A. and Fukushi K. Prediction of the surface properties of poorly crystalline oxyhydroxides at the solid-electrolyte-water interface. 233rd Amer. Chem. Soc. National Meeting (Chicago, IL).
- 2007: Sverjensky, D. A. and Fukushi K. Probing the structure of the organic species-oxide mineral-water interface. Frontiers in Mineral Science Symposium, Mineralogical Society (Cambridge, England).
- 2008: Sverjensky, D. A. and Fukushi K. Role of water dipoles in adsorption reactions. 235th Amer. Chem. Soc. National Meeting (New Orleans, LA).
- 2008: Sverjensky, D. A., Jonsson, C. M., Jonsson, C. L., Hazen, R. M., and Cleaves, H. J. Multiple surface species of glutamate attached to hydrous ferric oxide: changes as a function of environmental parameters. 235th Amer. Chem. Soc. National Meeting (New Orleans, LA).
- 2008: Jonsson, C. M., Jonsson, C. L., Sverjensky, D. A., Cleaves, H. J., and Hazen, R. M. Surface speciation of aspartic and glutamic acid on titanium dioxide in electrolyte solutions: Integration of spectroscopic and surface complexation results. 235th Amer. Chem. Soc. National Meeting (New Orleans, LA).
- 2008: Sverjensky, D. A., Jonsson, C. M., Jonsson, C. L., Hazen, R. M., and Cleaves, H. J. Glutamate surface speciation on amorphous titanium dioxide and hydrous ferric oxide. Goldschmidt Geochemistry Conference (Vancouver, BC).
- 2008: Jonsson, C. M., Jonsson, C. L., Sverjensky, D. A., Cleaves, H. J., Hazen, R. M., and Cody, G. D. Surface speciation of aspartate and glutamate on titanium dioxide. Goldschmidt Geochemistry Conference (Vancouver, BC).

- 2008: Lee, N., Sverjensky, D. A., and Hazen, R. M. Oxidation state during weathering on the early Earth. Goldschmidt Geochemistry Conference (Vancouver, BC).
- 2008: Hazen, R. M., Papineau, D., Bleeker, W., Downs, R. T., Ferry, J. M., McCoy, T. J., Sverjensky, D. A., and Yang, H. Mineralogical Coevolution of the Geo- and Biospheres. Goldschmidt Geochemistry Conference (Vancouver, BC).
- 2008: Cleaves, H. J., Sverjensky, D. A., Jonsson, C. M., Jonsson, C. L., and Hazen, R. M., Distinguishing multiple surface species of glutamate on hydrous ferric oxide. Amer. Geophysical Union National Meeting, San Francisco.
- 2008: Jonsson, C. M., Jonsson, C. L., Parikh, S. J., Sverjensky, D. A., Cleaves, H. J., and Hazen, R. M. Surface speciation of glutamate and aspartate on titanium dioxide. Amer. Geophysical Union National Meeting, San Francisco.
- 2008: Estrada, C. F., Jonsson, C. M., Jonsson, C. L., Parikh, S. J., Sverjensky, D. A., Cleaves, H. J., and Hazen, R. M. The adsorption of aspartic acid on rutile: implications for biochirality. Amer. Geophysical Union National Meeting, San Francisco.
- 2008: Sverjensky, D. A. and Hazen, R. M. MoS₂ and ReS₂ stabilities as indicators of oxidation state on the early Earth. Amer. Geophysical Union National Meeting, San Francisco.
- 2008: Ewing, R. C., Hazen, R. M., and Sverjensky, D. A.. Mineral evolution of uranium and thorium. Amer. Geophysical Union National Meeting, San Francisco.
- 2009: Sverjensky, D. A., Surface complexation of oxyanions: unity of the inorganic and organic realms. 237th Amer. Chem. Soc. National Meeting (Salt Lake City, UT).
- 2009: Jonsson, C. M., Jonsson, C. L., Sverjensky, D. A., Cleaves, H. J., and Hazen, R. M., Surface speciation of aspartate and glutamate on titanium dioxide. 237th Amer. Chem. Soc. National Meeting (Salt Lake City, UT).
- 2009: Jonsson, C. M., Jonsson, C. L., Sverjensky, D. A., Cleaves, H. J., and Hazen, R. M. Surface speciation of glutamate and aspartate on rutile as a function of environmental conditions. 238th Amer. Chem. Soc. National Meeting (Washington, DC).
- 2009: Sverjensky, D. A., Jonsson, C. M., Jonsson, C. L., Hazen, R. M., and Cleaves, H. J. Surface complexation models of glutamate and aspartate on rutile. 238th Amer. Chem. Soc. National Meeting (Washington, DC).
- 2009: Cleaves, H. J., Jonsson, C. M., Jonsson, C. L., Sverjensky, D. A., and Hazen, R. M. Adsorption of Nucleic Acid Components on Rutile (TiO₂) Surfaces. 238th Amer. Chem. Soc. National Meeting (Washington, DC).
- 2009: Hazen, R. M., Jonsson, C. M., Jonsson, C. L., Cleaves, H. J., and Sverjensky, D. A., Molecule-mineral interactions and the origins of life. 238th Amer. Chem. Soc. National Meeting (Washington, DC).
- 2009: Marshall-Bowman K. J., Cleaves H. J. , Sverjensky D. A., Hazen R. M., Interactions between glycine derivatives and mineral surfaces:

- Implications for the origins of life on planetary surfaces. AGU Fall Meeting Poster.
- 2009: Kopstein M., Sverjensky D. A., Hazen R. M., Cleaves H. J., Adsorption of short single-stranded DNA oligomers on mineral surfaces. AGU Fall Meeting Poster.
- 2009: Hazen, R.M., Ewing, R. J., and Sverjensky, D. A., Evolution of uranium and thorium minerals. AGU Fall Meeting Invited talk.
- 2009: Sverjensky, D. A., Lee, N. and Hazen, R. M., Weathering in the late Archean and perturbations by oxygenic photosynthesis. AGU Fall Meeting Invited talk.
- 2010: Sverjensky, D. A., Predictive surface complexation modeling for all oxides in all electrolyte solutions. 239th Amer. Chem. Soc. National Meeting (San Francisco, CA).
- 2010: Lee, N., Jonsson, C. M., Jonsson, C. L., Klochko, K., Cleaves, H. J., Sverjensky, D. A. and Hazen, R. M. Interactions of L-lysine with rutile in NaCl solutions. 239th Amer. Chem. Soc. National Meeting (San Francisco, CA).
- 2010: Klochko, K., Jonsson, C. M., Jonsson, C. L., Lee, N., Cleaves, H. J., Sverjensky, D. A. and Hazen, R. M. L-arginine adsorption and surface complexation on rutile in NaCl solutions. 239th Amer. Chem. Soc. National Meeting (San Francisco, CA).
- 2010: Klochko, K., Jonsson, C. M., Jonsson, C. L., Lee, N., Cleaves, H. J., Sverjensky, D. A. and Hazen, R. M. Role of Environmental Conditions on the Interaction of L-Arginine with Oxide Mineral Surfaces. Astrobiology Science Conference (League City, TX).
- 2010: Lee N., Jonsson C. M., Jonsson C. L., Ohara S., Cody G., Klochko K., Cleaves J. H., Sverjensky D. A. & Hazen R., L-Lysine Adsorption on Oxide Surfaces as a Function of Environmental Conditions. Astrobiology Science Conference (League City, TX).
- 2010: Sverjensky D. A., Jonsson C. M., Jonsson C. L., Estrada C., Lee N., Klochko K., Cleaves H. J., Hazen R. M., Parikh S., Kubicki J. D. & Sparks D. L., Attachment of Acidic Amino Acids to Mineral Surfaces: Implications for Prebiotic Chemistry. Goldschmidt Geochemistry Conference (Knoxville, TE).
- 2010: Lee N., Jonsson C. M., Jonsson C. L., Ohara S., Cody G., Klochko K., Cleaves J. H., Sverjensky D. A. & Hazen R., Adsorption of Amino Acids on Oxide Surfaces as a Function of Environmental Conditions. Goldschmidt Geochemistry Conference (Knoxville, TE).
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