***Curriculum Vitae* of Lincoln S. Hollister**

Degrees: A.B., Harvard College, 1961 (Geology, cum laude); Ph.D., California Institute of Technology, 1966 (Geology and Geochemistry)

Areas of Specialization: Petrological and field studies in British Columbia and Alaska continuously since 1963; in Bhutan since 1987. Co-investigator and Principal Investigator in lunar program 1969-1978; contributions toward understanding petrologic significance of compositional zoning in minerals, interpretation of fluid inclusions in metamorphic rocks, tectonic implications of metamorphic processes, origin and evolution of continental crust, origin of natural quasicrystals.

Positions:

Assistant Professor, Department of Geology, UCLA, 1966-1969
Visiting Assistant Professor, Princeton University, 1968
Assistant Professor, Department of Geological and Geophysical Sciences, Princeton University, 1969-1971
Associate Professor, Princeton University, 1971-1976
Professor of Geosciences, Princeton University, 1976-2011
Professor Emeritus and Senior Geologist, Princeton University, 2011-present

NATO Postdoctoral Fellow to C.R.P.G., Nancy, France, 1972-73
Visiting Scientist, Geological Survey of Canada, Vancouver, Spring, 1980
Visiting Professor, Rand Afrikaans Universitaat, South Africa, March, 1985
Guest Lecturer, IMP-ETH, Zurich, Switzerland, 1987-88
Geologist, Alaskan Branch, U.S. Geological Survey, 1985-87
Lecturer, University of Turin (Italy), 1987-1985
Lecturer, Siena (Italy) Summer School, 1988, 1989, 1990
Adjunct Professor, Cornell University, 2009-2011

Honors and Awards:

NASA Group Achievement Award, 1973
Past Presidents' Medal, Mineralogical Association of Canada, 1990
Fellow, Mineralogical Society of America
Fellow, Geological Society of America
Bellagio Residency, Rockefeller Foundation (May 17 – June 17, 2005)

Panels and Committees:

Lunar Sample Review Panel, 1972-1975; NSF panel on Graduate Fellowships, 1976-76; Mineralogical Society of America Committee on officers (1976, 1984), on publication (1977-78; Chairman,1978), for Roebling Medal (1985); Mineralogical Association of Canada Council (1982-1985) and Hawley award

Committee (1985; 1990, chm); AGU Committee for VGP award (1984-86; Chairman, 1985); International Committee on the Lithosphere (1982-1984); AGU Public Affairs Committee (1986-88); Review Committee, Department of Geology, University of Maryland (1985); Associate Editor, GSA Bulletin (1982-88), Metamorphic Geology (1983-1993), Schweizerische Mineralogische und Petrographische Mitteilungen (1988- 1998); Canadian Mineralogist (1990-1993).

Teaching:

Undergraduate and graduate courses in igneous and metamorphic petrology, crystal chemistry, optical mineralogy, field geology, operation of the electron microprobe, lunar evolution, evolution of the continental crust, and tectonics.

Invited seminars and lectures:

At domestic colleges and universities (including Canada):

Universities of California at Berkeley (2), Los Angeles, Santa Barbara, and Davis (2); Universities of Washington (3), British Columbia (4), Alabama, Colorado, Calgary, North Carolina, Wyoming (2), Southern California, and Connecticut; Virginia Polytechnic Institute (2); Rensselaer Polytechnic Institute; MIT (2); Duke, Harvard (2), Yale, Cornell (3), Brown, McMaster, Rutgers (4), Columbia (3), Johns Hopkins, Southern Methodist, Washington University (2), SUNY-Albany, University of Binghamton, Stanford University; Lafayette and Bryn Mawr Colleges; University of Arizona, University of Texas at El Paso, Princeton (2).

At government and industrial laboratories:

U.S. Geological Survey (2), Carnegie Institute of Washington, Geological Survey of Canada (2), Pacific Geoscience Centre, Los Alamos, Sandia, and Woods Hole; Geological Society of Washington (2).

Abroad:

Hebrew University, Ruhr University, Ecole Polytechnique at Nancy, France, University of Paris, University of Glasgow, Rand Afrikaans University (2), University of Capetown, Geological Society of Southwest Africa (Windhoek), Centre Rescherche Petrologique et Geochimique (Nancy, France); ETH, Zurich (4); University of Turin, Italy (2); University of Siena, Italy (3); University of Rennes; Sherubtse College, Bhutan; University of Freiburg; University of Sydney; Charles University (CTS), Prague.

Supervised Ph.D. theses completed: 21

T. Loomis, W. Maresch, G. Woodsworth, A. Lappin, L. Ashwal, C. Kenah, R. Burruss, J. Grambling, S. Bergman, B. Douglas, M. L. Hill, J. Sisson, J. Crisp, B. J. Wanamaker, H. Stowell, C. Davidson, D. Thompson, H. Cohen, Triparna Das, Chris Andronicos, T.Tobgay.

External Ph.D. thesis committees:

S.K.Dobos, 1978, Macquarie University, New South Wales,, Australia.
K.-W. Kasch, 1981, University of Capetown, South Africa.
E. W. Sawyer, 1984, University of Toronto, Canada.
C. Ramboz, 1988, C.R.P.G., Nancy, France.
Prakash Narasimha K.N., 1992, University of Mysore, India.
Dominique Chardon, 1996, Rennes, France
Eric Beam, 1996, University of Texas, Austin
Guiseppi Biino, 1996, Univ. of Freiberg, Switzerland
Joyia Chakungal, 2006, Dalhousie University, Canada

Recent activities:

Lead Principal Investigator of NSF sponsored eight university project "ACCRETE", 1993 -2000.
Leader of geologic expeditions to Kingdom of Bhutan, 1993, 1996, 1999
Organized planning trip to Bhutan for establishment of a seismic network, May, 2001
Principal Investigator of NSF sponsored 7-university project "BATHOLITHS", 2003-2009.
Outreach efforts for environmental permitting for BATHOLITHS
Study Leader, Princeton Journeys: southeast Alaska, 2006; Bhutan, 2007; Himalayan Kingdoms, 2012.
Keynote speaker, Penrose Conference on Arc Crustal Genesis and Evolution, Valdez, AK, June 9-15 2006.
Director Graduate Studies, 2006-2009.
Board of Trustees, Sterling Hill Mining Museum, NJ.
Organized reunion of PhD geology graduates (55 participants), New Mexico, 2014.
Taught one-weeh geology classes at Ghost Ranch, NM, 2011, 2013, 2014.

Publications:

Hollister, L. S., 1966, Garnet zoning: an interpretation based on the Rayleigh fractionation model. Science, v. 154, 1647-1651.

Hollister, L. S. and A. E. Bence, 1967, Staurolite: sectoral composition variations. Science, v. 158, 1053-1056.

Hollister, L. S., 1969, Metastable paragenetic sequence of andalusite, kyanite, and sillimanite, Kwoiek area, British Columbia: American J. Science, v. 267, 352-370.

Hollister, L. S., 1969, Contact metamorphism in the Kwoiek area of British Columbia: an end member of the metamorhpic process. Bulletin Geological Society America, v. 80, 2465-2494.

Dollase, W. A. and **L. S. Hollister**, 1969, X-ray evidence of ordering differences between sectors of a single staurolite crystal. Geolical Society of America discussion paper, Abstracts with Programs for 1969, part 7, 268-270.

Hollister, L. S., 1970, Origin, mechanism, and consequences of compositional sector zoning in staurolite. American Mineralogist, v. 55, 742-766.

Hargraves, R. B., **L. S. Hollister**, and G. Otalora, 1970, Compositional zoning and its significance in pyroxenes from three coarse-grained lunar samples. Science, v. 167, 631-633.

Hollister, L. S. and R. B. Hargraves, 1970, Compositional zoning and its significance in pyroxenes from two coarse-grained Apollo 11 samples. Geochimica. Cosmochimica. Acta, Supplement 1, Proceedings of the Apollo 11 Lunar Science Conference, v. 1, 541-550.

Hollister, L. S. and A. Gancarz, 1971, Compositional sector-zoning in clinopyroxene from the Narce Area, Italy. American Mineralogist, v. 56, 959-979.

Hollister, L. S., W. E. Trzcienski, Jr., R. B. Hargraves, and C. G. Kulick, 1971, Petrogenetic significance of pyroxenes in two Apollo 12 samples. Proceedings of the Second Lunar Science Conference, v. 1, 529-557.

Hollister, L. S., 1971, Metamorphism in the Canadian Cordillera. Geotimes, v. 16, no. 5, 25-26.

Hess, H. H., J. L. Maxwell, **L. S. Hollister**, and E. Moores, 1971, Peridotites and related ultramafic rocks. In: Upper Mantle Project, final report, NAS-NRC, 202-203.

Hollister, L. S., W. E. Trzcienski, Jr., R. B. Hargraves, and C. G. Kulick, 1972, Crystallization histories of two Apollo 12 basalts. In: Hess Memorial Volume (editor R. Shagam), Geological Society of America Memoir 132, 641-650.

Hollister, L. S. and C. G. Kulick, 1972, Lunar 16 sample G36: Another Crystalline Product of an Extremely Mafic Magma. Earth and Planetary Science Letters, v. 13, 312-315.

Hollister, L. S., 1972, Implications of the relative concentrations of Al, Ti and Cr in lunar pyroxenes. In: Lunar Science III. (ed. L. Watkins) Lunar Science Institute Contribution, v. 88, 389-391.

Hollister, L. S., W. E. Trzcienski, Jr., R. Dymek, C. G. Kulick, P. W. Weigand and R. B. Hargraves, 1972, Igneous fragment 14310, 21 and the origin of the mare basalts. In: Lunar Science III. (ed. L. Watkins) Lunar Science Institute Contribution, v.88, 386-388.

Weigand, P. W. and **L. S. Hollister**, 1972, Pyroxenes from breccia 14303. Geochimica Cosmochimica Acta, Supplement 3, v. 1, 471-480.

Hargraves, R. B. and **L. S. Hollister**, 1972, Mineralogic and petrologic study of lunar anorthosite slide 15415, 18. Science, v. 175, 430-432.

Weigand, P. W. and **L. S. Hollister**, 1973, Basaltic vitrophyre 15597: An undifferentiated melt sample: Earth Planetary Science Letters, v. 19, 61-74.

Hollister, L. S., 1973, Sample 67955: A description and a problem. Proceedings Fourth Lunar Science Conference, Supplement 4, Geochimica Cosmochimica Acta, v. 1, 633-641.

Dalton, J., **L. S. Hollister**, C. G. Kulick and R. B. Hargraves, 1974, The nature of the chromite to ulvospinel transition in mare basalt 15555. Lunar Science V, Lunar Science Institute, 160-162.

Crawford, M. L. and **L. S. Hollister**, 1974, Feldspathic basalt 14310, a lunar mantle derived magma. Lunar Science V, Lunar Science Institute, 145-147.

Dalton, J. and **L. S. Hollister**, 1974, Spinel-Silicate Co-crystallization relations in sample 15555. Proceedings Fifth Lunar Science Conference, Supplement 5, Geochimica Cosmochimica Acta, v. 1, 421-429.

Crawford, M. L. and **L. S. Hollister**, 1974, KREEP basalt; a possible partial melt from the lunar interior. Proceedings Fifth Lunar Science Conference, Supplement 5, Geochimica Cosmochimica Acta, v. 1, 399-419.

Burruss, R. C. and **L. S. Hollister**, 1974, Self-consistent P, T data relevant to "freezing" studies of CO_2-rich fluid inclusions. Fluid Inclusion Research, v. 7, 30-31.

Hollister, L. S., 1975, Memorial of David Robert Waldbaum. American Mineralogist, v. 60, 514-517.

Hollister, L. S., 1975, Outline of a model for lunar evolution. Lunar Science VI, Lunar Science Institute, 381-383.

Schaeffer, J. and **L. S. Hollister**, 1975, The petrology of two coarse-grained clasts in breccia sample 60255. Lunar Science VI, Lunar Science Institute, 705-706.

Hollister, L. S., 1975, Evolution of the moon between 4.6 and 3.3 AE. Proceedings Sixth Lunar Science Conference, Supplement 6, Geochimica Cosmochimica Acta, v. 1, 1159-1178.

Hollister, L. S., 1975, Granulite facies metamorphism in the Coast Range crystalline belt. Canadian Journal Earth Science, v. 12, 1953-1955.

Hollister, L. S., and R. C. Burruss, 1976, Phase equilibria in fluid inclusions from the Khtada Lake Metamorphic Complex. Geochimica Cosmochimica Acta, v. 40, 163-175.

Harkins, E., and **L. S. Hollister**, 1977, Sector zoning of clinopyroxene from a weakly metamorphosed diabase. American Mineralogist, v. 62, 390-394.

Hollister, L. S., 1977, The reaction forming cordierite from garnet, the Khtada Lake Metamorphic Complex, British Columbia. Canadian Mineralogist, v. 15, 217-229.

Hollister, L. S., and M. L. Crawford, 1977, Evidence for a direct genetic connection between Apollo 15 KREEP and Apollo 12 and 15 basalts. Lunar Science VIII, Lunar Science Institute, 452-454.

Hollister, L. S., 1977, Lunar Crust. Geotimes, v. 22, no. 5, 22-23.

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Crawford, M. L., and **L. S. Hollister**, 1977, Evolution of KREEP: further petrologic evidence. Proceedings Eighth Lunar Science Conference, Geochimica Cosmochimica Acta, v. 2, 2403-2418.

Murck, B. W., R. C. Burruss, and **L. S. Hollister**, 1978, Phase equilibria in fluid inclusions in ultramafic xenoliths. American Mineralogist, v. 63, 40-46.

Hollister, L. S., 1978, The reaction forming cordierite from garnet. Reply: Canadian Mineralogist, v. 16, 277-279.

Hollister, L. S., R. C. Burruss, D. L. Henry and E. M. Hendel, 1979, Physical conditions during uplift of metamorphic terranes as recorded by fluid inclusions. Bulletin Societe France, Mineralogie Crystallographie, v. 102, 555-561.

Crawford, M. L., D. W. Kraus and **L. S. Hollister**, 1979, Petrologic and fluid inclusion study of calc-silicate rocks, Prince Rupert, British Columbia. American Journal Science, v. 279, 1135-1159.

Burruss, R. C., and **L. S. Hollister**, 1979, Evidence from fluid inclusions for a paleogeothermal gradient at the geothermal test well sites, Los Alamos, New Mexico. Journal Volcanology and Geothermal Research, v. 5, 163-177.

Hollister, L. S., 1979, Metamorphism and crustal displacements: new insights. Episodes, v. 1979, 3-8.

Lappin, A. R., and **L. S. Hollister**, 1980, Partial melting in the Central Gneiss Complex near Prince Rupert, British Columbia. American Journal Science, v. 280, 518-545.

Selverstone, J., and **L. S. Hollister**, 1980, Cordierite-bearing granulites from the Coast Ranges, British Columbia. P-T conditions of metamorphism. Canadian Mineralogist, v. 18, 119-129.

Hendel, E. M., and **L. S. Hollister**, 1981, An empirical solvus for CO_2 - H_2O - 2.6 wt. % salt. Geochimica Cosmochimica Acta, v. 45, 225-228.

Hollister, L. S., and M. L. Crawford, Editors, 1981, Fluid Inclusions: Applications to Petrology. Mineralogic Association of Canada, Ontario, Short Course Handbook, v. 6, 304 pp.

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Hollister, L. S., 1981, Techniques for analyzing fluid inclusions. In: ibid, 272-277.

Hollister, L. S., M.L. Crawford, E, Roedder, R.C. Burruss, E.T.C. Spooner, and J. Touret, 1981, Practical aspects of microthermometry. In: ibid, 278-304.

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Crawford, M.L., and **L. S. Hollister**, 1982, Contrast of metamorphic and structural histories across the Work Channel Lineament, Coast Plutonic Complex, British Columbia. Journal Geophysical Research, v. 87, 3849-3860.

Hollister, L. S., 1982, Metamorphic evidence for rapid (2mm/yr) uplift of a portion of the Central Gneiss Complex, Coast Mountains, British Columbia. Canadian Mineralogist, v. 20, 319-332.

Kenah, C. and **L. S. Hollister**, 1983, Anatexis in the Central Gneiss Complex, British Columbia. In: Migmatites, Melting and Metamorphism (Atherton and Gribble, eds.), Proceedings of the Geochemical Group of the Mineralogical Society, Shiva Geology Series, 142-162.

Woodsworth, G. J., M. L. Crawford, and **L. S. Hollister**, 1983, Metamorphism and structure of the Coast Plutonic Complex and adjacent belts, Prince Rupert and Terrace areas, British Columbia. Geological Association Canada Field Trip Guidebook 14, Victoria, B.C.

Crawford, M.L., and **L. S. Hollister**, 1983, Correction to "Contrast of metamorphic and structural histories across the Work Channel lineament, Coast Plutonic Complex, British Columbia". Journal Geophysical Research, v. 88, 10645-10646.

Hollister, L. S., J. A. Crisp, C. G. Kulick, W. Maze, and V. B. Sisson, 1984, Quantitative energy dispersive analysis of rock-forming silicates. In: Microbeam Analysis - 1984 (Romig and Goldstein, eds.), 143-144, San Francisco Press.

Hollister, L. S., 1985, Review of Fluid Inclusions by E. Roedder. Canadian Mineralogist, v. 23, 682.

Crawford, M. L., and **L. S. Hollister**, 1985, Metamorphic fluids: The evidence from fluid inclusions. Advances in Physical Geochemistry, v. 5 (J.V. Walther and B.J. Wood, eds.), 1-35.

Hollister, L. S., and M .L. Crawford, 1986, Melt-enhanced deformation - a major tectonic process. Geology, v. 14, 558-561.

Hollister, L. S., 1986, Review of Migmatites, edited by J.R. Ashworth. American Journal Science, v. 286, 733-735.

Hollister, L. S., 1986, Review of A Practical Guide to Fluid Inclusion Studies, by T. Shepherd, A.H. Rankin, and P.A.M. Alderton. American Mineralogist, v. 71, 1284.

Hollister, L. S., G. C. Grissom, E .K. Peters, H. H. Stowell, and V. B. Sisson, 1987, Confirmation of the empirical correlation of aluminum in hornblende with pressure of solidification of calcalkaline plutons. American Mineralogist, v. 72, 231-239.

Crawford, M. L., **L. S. Hollister**, G. J. Woodsworth, 1987, Crustal deformation and regional metamorphism across a terrane boundary: Coast Plutonic Complex, British Columbia. Tectonics, v. 6, 343-361.

Van Reenen, D. D., and **L. S. Hollister**, 1988, Fluid inclusions in hydrated granulite facies rocks, southern marginal zone of the Limpopo Belt, South Africa. Geochemica Cosmochemica Act., v. 52, 1057-1064.

Hollister, L. S., 1988, On the origin of CO_2-rich fluid inclusions in migmatites. Journal Metamorphic Geology, v. 6, 467-474.

Sisson, V. B. and **L. S. Hollister**, 1988, Low-pressure facies series metamorphism in an accretionary sedimentary prism, southern Alaska. Geology, 16, 358-361.

Hollister, L. S., 1988, CO_2-rich fluid inclusions in greenschists, migamatites, granulites, and hydrated granulites. In: The Deep Continental Crust of South India: Lunar Planetary Sciences Institute, Technical Report 88-06, 70-71.

James, T.S., **L. S. Hollister**, and W.J. Morgan, 1989, Thermal modeling of the Chugach Metamorphic Complex. Journal Geophysical Research, v. 94, 4411-4423.

Hollister, L. S., 1989, Loosening NSF's purse strings. Geotimes, v. 34, 8.

Sisson, V. B., **L. S. Hollister**, and T. C. Onstott, 1989, Petrologic and age constraints on the origin of a low pressure/high temperature metamorphic complex, southern Alaska. Journal Geophysical Research, v. 94, 4392-4410.

Sisson, V. B. and **L. S. Hollister**, 1990, A fluid inclusion study of metamorphosed pelitic and carbonate rocks, south-central Maine. American Mineralogist, v. 75, 59-70.

Hollister, L. S., 1990, Enrichment of CO_2 in fluid inclusions in quartz by removal of H_2O during crystal plastic deformation. Journal Structural Geology, v. 12, 895-901.

Hollister, L. S., and M. L. Crawford, 1990, Crustal formation at depth during continental collision. In: Exposed Cross-Sections of the Continental Crust (M. Salisbury and D. Fountain, eds.), Kluwar Academic Publishers, 215-225.

ACCRETE Workshop Steering Committee (**L. S. Hollister**, chm), 1991, ACCRETE: A study of continental growth. EOS, Transactions, American Geophysical Union, v. 72, 297-301.

Wood, D. J., H. H.Stowell, T. C. Onstott, and **L. S. Hollister**, 1991, 40Ar/39/Ar constraints on the emplacement, uplift, and cooling of the Coast Plutonic Complex sill, southeast Alaska. Bulletin Geological Society America, v. 103, 849-860.

Swapp, S., and **L. S. Hollister**, 1991, Inverted metamorphism within the Tibetan slab of Bhutan. Canadian Mineralogist, v. 29, 1019-1041.

Hollister, L. S., 1992, Fluid flow during deep crustal metamorphism, an introduction to new data from the Southern Marginal Zone of the Limpopo Belt, South Africa. Precambrian Research, v. 25, 321-326.

Davidson, C., **L. S. Hollister**, and S. Schmid, 1992, The role of melt in the formation of a deep-crustal shear zone: The Maclaren Glacier metamorphic belt, south-central Alaska. Tectonics, v. 11, 348-359

Hollister, L. S., M. L. Crawford, and S. McGeary, 1992, ACCRETE: a proposed plan to study the deep crust under the accreted terranes of southeast Alaska. LITHOPROBE report no. 24, p.61-75.

Hollister, L. S.,1993, The role of melt in the uplift and exhumation of orogenic belts. Chemical Geology, v. 108, 31-48.

Davidson, C., S.M. Schmid, and **L. S. Hollister**, 1994, Role of Melt during deformation in the deep crust. Terra Nova, v. 6, 133-142.

Winslow, D. M., P. K. Zeitler, C. P. Chamberlain, and **L. S. Hollister**, 1994, Direct evidence for a steep geotherm under conditions of rapid denudation, western Himalaya, Pakistan. Geology, v. 22, 1075-1078.

Hollister, L. S., 1994, The crystal chemistry of staurolite: discussion. Canadian Mineralogist, v. 32, 713-714.

Johnson, E. L., and **L. S. Hollister**, 1995, Syndeformational fluid trapping in quartz: determining the pressure-temperature conditions of deformation from fluid inclusions and the formation of pure CO2 fluid inclusions during grain-boundary migration. Journal of Metamorphic Geology, v. 13, 239 -249.

Cesare, B., and **L. S. Hollister**, 1995, Andalusite-bearing veins at Vedrette di Ries (eastern Alps, Italy): fluid phase composition based on fluid inclusions. Journal of Metamorphic Geology, v. 13, 687-700.

Hollister, L. S., 1995, Talking to the public - an example. GSA Today, v. 5, no. 2, 36

Grujic, D., M. Casey, C. Davidson, **L. S. Hollister**, R. Kundig, T. Pavlis, and S. Schmid, 1996, Ductile extrusion of the Higher Himalayan Crystalline in Bhutan: evidence from quartz microfabrics. Tectonophysics, v. 260, 21-43.

Hollister, L.S., 1997, ACCRETE discussion paper. Catalyst, v. 40, no.2, 13-16.

Davidson, C., D. Grujic, **L. S. Hollister**, and S. Schmid, 1997, Metamorphic reactions related to decompression and synkinematic intrusion of leucogranite, High Himalayan Crystallines, Bhutan. Journal Metamorphic Geology , v. 15, 593-612.

Hollister, L. S., and C.L.Andronicos, 1997, A candidate for the Baja British Columbia fault system in the Coast Plutonic Complex. GSA Today, v. 7, no.11, 1-7.

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Andronicos, C. L., **L. S. Hollister**, C. Davidson, D. Chardon, 1999, Kinematics and tectonic significance of transpressive structures within the Coast Plutonic Complex, British Columbia. Journal Structural Geology, v. 21, 229-243.

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Hollister, L. S., and C. L. Andronicos, 2000, The Central Gneiss Complex, Coast Mountains, British Columbia. Geological Society of America, Special Paper 343, 45-59.

Bonini, W. E., **L. S. Hollister**, and W. J. Morgan, 2000, Memorial to Sheldon Judson. Geological Society of America Memorials, v. 31, 51-54.

Morozov, I. B., S. B. Smithson, J. Chen, and **L. S. Hollister**, 2001, Generation of new continental crust and terrane accretion in southeastern Alaska and western British Columbia: constraints from P- and S- wave wide-angle data (ACCRETE). Tectonophysics, v. 341, 49-67.

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