

## DENNIS NETOFF - - VITA (2004 - 2011)

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### EDUCATION:

A.A. Cabrillo College, Aptos, CA , 1965  
B.A. Chico State College, Chico, CA, 1967  
M.A. University of Colorado, Boulder, CO, 1970  
Ph.D. University of Colorado, Boulder, CO, 1977

### AREAS OF SPECIALIZATION:

Weathering features on Earth and Mars  
Sandstone landforms  
Jurassic fluidization pipes

### MEMBERSHIPS:

American Quaternary Association (AMQUA)  
Geological Society of America (GSA)

### TEACHING EXPERIENCE:

Assistant, Associate, and full Professor of Geography and Geology, Sam Houston State University, Huntsville, TX 1990-2011  
Associate/Assistant Professor of Geography, Lincoln College, Lincoln, IL, 1973-1990

### ADMINISTRATIVE EXPERIENCE:

Supervisor, GEO 111 (*weather and climate*) labs, SHSU, 1990-2011  
Faculty Chairman, Lincoln College, Normal Campus, 1988-1990.  
Chairman, Science and Math Division, Lincoln College 1986-1988.  
Chairman, Faculty Committee, Lincoln College 1987-1988.  
Chairman, Department of Natural Science, Lincoln College 1978-1980.  
Chairman, Lincoln College Energy Committee, 1979-1980  
Chairman, Curriculum Committee, Lincoln College, 1975-1976.

### TEACHING EVALUATION

#### Instructional assignments

GEO 131 (weather and climate).....	spring and fall
GEO 111 (weather and climate lab).....	coordinate 13 labs every long semester
GEO 442 (geomorphology) .....	every other year
GEL 132 (geologic hazards ) .....	as needed
GEL 360 (environmental geology) .....	every other year
GEL 332 (forensic geology).....	team taught (fall 2008)
HON 161 (Honors Earth Science class)..	team taught (2004-2007)

**New courses:** GEL 132; GEL 332

**Student advising:** none

**Undergraduate research:** ~11

**Uncompensated overloads:** Geomorphology (lab), forensic geology

**FES summary** (submitted by the Chair)

IDEA teaching evaluation (typically within gray band)

## SERVICE

### Department

search committees for new faculty members

search committee for new Chair (2007)

new courses (proposals and acceptance) *Geologic hazards and resources* (lecture and lab), *Forensic geology*

coordinate weather and climate labs (hire, fire, train lab instructors)

author, *Weather and climate* lab manual, revised ed., 2009

co-author, *Geologic hazards and resources lab manual*

co-author, *eGeologic hazards and resources* book (830p, 2007)

co-author, *eWeather and climate* book (448p, 2006; revised ed. 2011)

acquisition of materials for GEL 112 (Hazards labs)

reconnaissance trip to Big Bend NP for Geology Field Modules, Nov. 2008

### College:

eBooks, new course proposals, development of new courses

### University:

eBooks (two; 2007, 2011). Lab manuals (2007, 2009)

### Profession: none

## PUBLICATIONS: chronological ascending order since 2004

**Mahaney, W.C., Milner, M.W., Netoff, D.I., Malloch, D., Dohm, J.M., Baker, V.R., Miyamoto, H., Hare, T., and Komatsu, G.,** (2004), Ancient wet aeolian environments on Earth: clues to presence of fossil/live microorganisms on Mars: *Icarus*, v. 171, issue 1, p. 39-53.

**Huuse, M., Shoulder, S., Netoff, D., and Cartwright, J.,** (2005) Giant sandstone pipes record basin-scale liquefaction of buried dune sands in the Middle Jurassic of SE Utah: *Terra Nova*, vol. 17, no. 1, p. 80-85. [Note: This paper was chosen by the editors of *Terra Nova* for inclusion in the list of 'selected papers' on the *Terra Nova* WEB site. This means that the paper is now (as of 7-29-05) available to the public, whether or not they have a subscription to *Terra Nova*.] We also had the featured front cover photo for the issue.

**Chan, M., Netoff, D., Blakey, R., Kocurek, G., and Alvarez, W.,** (2007) Clastic injection pipes and syndepositional deformation structures in Jurassic eolian deposits: examples from the Colorado Plateau, in A. Hurst and J. Cartwright, eds., *Sand injectites: Implications for hydrocarbon exploration and production: AAPG Memoir 87, chapter 21*, p. 233-244.

**Baldwin, C., Cooper, B., Netoff, D., Solum, J., and Degenhardt, J.,** (2007) *Geologic Hazards and Resources Lab Manual: The Advertising Agency*, Huntsville, TX, 172 p.

**Baldwin, C., Cooper, B., Netoff, D., Solum, J., and Degenhardt, J.,** (2007) *eGeologic Hazards and Resources: The Advertising Agency*, Huntsville, TX, 830 p.

- Chan, M.A., Ford, R. L., Netoff, D. I., Seiler, W.M., and Yonkee, W.A.,** (2008), Polygonal cracks in bedrock on Earth and Mars: weathering implications: *Icarus*, vol. 194, p. 65-71.
- Netoff, D. I.,** 2009, Weather and Climate: 5<sup>th</sup> Ed., First printing, *The Start Group*, Huntsville, TX, 183 p.
- Netoff, D.I., and Chan, M.A. ,** 2009, Aeolian activity at a giant sandstone weathering pit in arid south-central Utah: *Earth Surface Processes and Landforms*, vol. 34, p. 99-108.
- Netoff, D.I., Baldwin, C., and Dohrenwend, J.,** (2010) Non-seismogenic origin of fluid/gas escape structures and lateral spreads on the recently-exposed Hite Delta, Lake Powell, Utah: preliminary findings, *in* Carney, S.M., Tabet, D.E. and Johnson, C.L., eds, *Geology of South-Central Utah*, Utah Geological Association publication 39, 2010, p. 61-92.
- Chan, M.A., Cerling, T.E., Gosse, J. and Netoff, D.I.,** (2010) Weathering of Jurassic sandstones: Cosmogenic nuclide dating of geomorphic surfaces in Southern Utah, *in* Carney, S.M., Tabet, D.E. and Johnson, C.L., eds., *Geology of South-Central Utah*, Utah Geological Association publication 39, 2010, p. 1-18.
- Mahaney, W.C., Netoff, D.I., Dohm, J., Hancock, R.G.V. and Krinsley, D.,** (2010) Grain coatings: diagenesis of Jurassic sandstones in south-central Utah and implications for targeting fossil microbes on Mars: *Sedimentary Geology* v. 230, p. 1-9.
- Cooper, B., Netoff, D.I. and Hill, J.C.** (2010), Physical Geology Lab Manual: *The Start Group*, 4<sup>th</sup> ed., first printing, Huntsville, TX 190 p.
- Gillespi, M., Netoff, D., and Tiller, J.,** (2011) eWeather and Climate: 3<sup>rd</sup> ed. *The Start Group*, Huntsville, Texas. 467 p.

#### PAPERS PRESENTED:

- Milner, M.W., Mahaney, W.C., Netoff, D. I., and Dohm, J.M.,** 2004, Impact-seismic exhausts, and flows: Sandpipes, salt dome-diapirs, diatremes and plugs - a mineral deposit model: Geological Association of Canada and Mineralogical Association of Canada Joint Annual Meeting, Brock University, St. Catherines, Ontario, Canada, May 12-14.
- Netoff, D.I., Baldwin, C., and Dohrenwend, J.,** 2005, Continued activity and geomorphic evolution of fluid/gas escape structures in muddy surficial beds of the recently-exposed Hite delta, southeastern Utah: Geological Society of America Rocky Mountain Section Meeting, Grand Junction, CO., May 2005, abstract # 84953
- Mahaney, W.C., Milner, M.W., Dohm, J.M., Baker, V.R., Netoff, D.I., Malloch, D., Miyamoto, H., Hare, T.M., Komatsu, G.,** 2005, Piping structures on earth and possibly on mars: astrobiological implications: 36<sup>th</sup> Lunar and Planetary Science Conference, Houston, TX, March 2005
- Mahaney, W.C., Milner, M.W., Netoff, D.I., Dohm, J., Sodhi, R., Aufreiter, S., Bezada, M., and Kalm, V.,** 2006, Blueberries on Earth and Mars: some correlations between Andean mountain paleosols, the Jurassic Navajo Sandstone, and Terra Meridiani on Mars: 37<sup>th</sup> Lunar and Planetary Science Conference, Houston, March, 2006.
- Mahaney, W.C., Milner, M.W., Netoff, D.I., David Malloch, James Dohm, R.N.S. Sodhi, S. Boccia and V. Kalm,** 2006, Chemical composition of clay minerals on Mars inferred from analysis of Earth analogues: implications for presence of fossil/extant microorganisms on Mars: 43<sup>rd</sup> Annual Meeting of the Clay Minerals Society, University of Poitiers, France, June 3-7, 2006.

- Chan, M., Cerling, T., Gosse, J and Netoff, D. , 2006, Weathering of Jurassic sandstones: cosmogenic nuclide dating of geomorphic surfaces, S. Utah:** Geological Society of America National Convention, October, 2006, Philadelphia
- Chan, M. A., Yonkee, W. A., Ford, R. L., Netoff, D.I., and Seiler, W.M. ,2007, Polygonal crack systems in the Jurassic Navajo Sandstone: a weathering analog to Mars:** Geological Society of America National Convention, October, Denver
- Mahaney, W.C., Milner, M.W., Netoff, D.I., Krinsley, D., Sodhi, R.N.S., Kalm, V., and Malloch, D., 2008, Blueberries on Earth and Mars: some correlations between concretions in Navajo Sandstone and Terra Meridiani on Mars:** EOS Trans. AGU, 89(53), Fall Meet.. Supp., Abstracts P33B-1440.
- Havics, A.A., Mahaney, W.C., Milner, M.W., Netoff, D., Dohm, J., Kalm, V., Krinsley, D., Sodhi, R.N.S., Anderson, R.C., Boccia, S. and Malloch, D. (2009) Blueberries on Earth and Mars: correlations between concretions in the Navajo Sandstone and Terra Meridiani on Mars:** McCrone Research Institute, IM-2009, Chicago, IL July 7, 2009 (slide presentation)
- Young, R.W., Wray, R.A.L. and Young A.R.M. (2009), Sandstone Landforms:** Cambridge University Press, New York. 314 p. (*several Netoff pictures of sandstone landforms from the Glen Canyon region, Utah*).

## WORK IN PROGRESS

- Netoff, D.I.,** Megashakedown in the Jurassic ergs of the Colorado Plateau: unique events in earth history?
- Netoff, D.I.,** Potential landslide hazards in Glen Canyon National Recreation Area, Arizona-Utah.
- Netoff, D.I.,** Landscapes of Lake Powell (book)
- Netoff, D.I., and Shroba, R.,** Influence of joints, fluidization pipes, and deflation in the formation of giant sandstone weathering pits in south-central Utah: for possible submission to *Progress in Physical Geography*
- Netoff, D.I., and Mahaney, W.,** Quartz microtextures created by turbulence during sandstone fluidization, Entrada Sandstone, Utah:
- Netoff, D.I., and Chan, M.,** Origin and antiquity of rock doughnuts exposed on the Entrada Sandstone, Escalante Bench, southeastern Utah
- Netoff, D.I., Chan, M., and Blakey, R.** Influence of clastic pipes on landform evolution in Glen Canyon National Recreation Area, Utah
- Shoulders, S., Huuse, M., Netoff, D. and Cartwright, J.,** Middle Jurassic cylindrical sandstone intrusions of SE Utah: paleoseismites and long-term conduits for fluid flow: *Basin Research*.
- Shoulders, S., Netoff, D., DiFelice, R., Huuse, M. and Cartwright, J.,** Some considerations on the formation of large-scale pipes, SE Utah

## RESEARCH GRANTS AWARDED:

None for period 2004-2011

## OTHER PROFESSIONAL ACTIVITIES:

### ***Published photographs and graphics:***

- Sandstone landforms, Glen Canyon, Utah, in Young, Wray and Young (2009) Sandstone Landforms: Cambridge.
- Bungle Bungle Range, Australia, in, Twidale, R. (2007) Ancient Australian Landscapes,