

October 13, 2009

**UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION**

BEFORE THE ATOMIC SAFETY AND LICENSING BOARDS

In the Matter of	Docket No. 63-001-HLW
U.S. DEPARTMENT OF ENERGY	ASLBP Nos. 09-876-HLW-CAB01
(High-Level Waste Repository)	09-877-HLW-CAB02
	09-878-HLW-CAB03
	09-892-HLW-CAB04

**CLARK COUNTY, NEVADA'S
INITIAL IDENTIFICATION OF PARTY WITNESSES**

Pursuant to Section C.1 of "CAB Case Management Order #2" ("CMO #2") issued on September 30, 2009, Clark County, Nevada ("Clark County") hereby submits this identification of Party Witnesses. Thirteen (13) of Clark County's contentions have been admitted to the proceeding.¹ Ten (10) of Clark County's admitted contentions are identified in CMO #2 as being associated with Phase I discovery.² Clark County hereby identifies the witnesses it currently intends to call at hearing to provide testimony in support or defense of those ten contentions ("Party Witnesses").

¹ See Memorandum and Order (Identifying Participants and Admitted Contentions), at Attachment A (May 11, 2009) (admitting CLK-SAFETY-002 through 011 and CLK-NEPA-001 through 003).

² See CAB Case Management Order #2, at "Appendix to Case Management Order."

PARTY WITNESS NO. 1:³

Name: Eugene I. Smith, Ph.D.

Affiliations: Geoscience Consultants and Department of Geoscience at the University of Nevada, Las Vegas (UNLV)

Addresses: Geoscience Consultants
543 British Ct.
Henderson, NV 89014

Lilly Fong Geoscience Building (LFG) 104B
Department of Geoscience
University of Nevada, Las Vegas (UNLV)
4505 S. Maryland Parkway
Las Vegas, NV 89154-4010

Curriculum Vitae: Dr. Smith's *curriculum vitae* is attached hereto as Attachment 1.

Contentions to be Addressed: CLK-SAFETY-003 through 011; INY-SAFETY-003.⁴

General Statement of Subject Matter: Dr. Smith is expected to testify regarding the Department of Energy's failure to adequately analyze or consider the risks to the proposed repository associated with igneous activity.

All Relevant Publications Authored by the Witness in the Last Ten Years: Dr. Smith's relevant publications are listed in his *curriculum vitae*.

All Cases in which the Witness has Testified at Trial or by Deposition Within the Last Four Years: None.

³ Concurrent with this filing, Clark County, the State of Nevada and Inyo County, California will be filing a joint proposal to consolidate certain contentions pertaining to igneous activity. Pursuant to that proposal, counsel for Inyo County has authorized counsel for Clark County to state that Inyo County joins in this disclosure of Eugene I. Smith, Ph.D., as a Party Witness for INY-SAFETY-003. The State of Nevada will file its disclosure of its Party Witnesses separately.

⁴ *Id.*

PARTY WITNESS NO. 2:

Name: Sheila Conway, Ph.D.
Affiliation: Urban Environmental Research, LLC
Address: 1120 N. Town Center Drive, Suite 100
Las Vegas, NV 89144

Curriculum Vitae: Dr. Conway's *curriculum vitae* is attached hereto as Attachment 2.

Contentions to be Addressed: CLK-SAFETY-002.

General Statement of Subject Matter: Dr. Conway is expected to testify regarding the Department of Energy's failure to analyze the risks to the proposed repository associated with ground-to-ground missile testing at the Nevada Test Site.

All Relevant Publications Authored by the Witness in the Last Ten Years: Dr. Conway's relevant publications are listed in her *curriculum vitae*.

All Cases in which the Witness has Testified at Trial or by Deposition Within the Last Four Years: None.

Respectfully submitted,

/s/ filed electronically
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ATTACHMENT 1

**CURRICULUM VITAE
EUGENE I. SMITH**

October 1, 2009

Mailing Address: Department of Geoscience
University of Nevada (UNLV)
Las Vegas, Nevada 89154-4010

and

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543 British CT
Henderson, Nevada 89014

gene.smith@unlv.edu

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Educational Background:

<u>University</u>	<u>Degree</u>	<u>Year</u>
University of New Mexico	Ph.D.	1970
University of New Mexico	M.S.	1968
Wayne State University	B.S.	1965

Specialties: Volcanology, Igneous Petrology, Geochemistry, Tectonics, Planetary Geology

Professional Experience:

8/88 to present: Professor of Geology, UNLV
7/83-7/86: Chair, Department of Geoscience, UNLV
9/80 to 8/88: Associate Professor of Geology, UNLV
9/76-8/80: Associate Professor of Earth Science, University of Wisconsin-
Parkside

- 9/72-9/76: Assistant Professor of Earth Science, University of Wisconsin-Parkside
- 9/70-6/72: Post-doctoral Research Associate to Professor W.E. Elston, Department of Geology, University of New Mexico
- 9/68-8/70: Graduate Research Assistant to Professor W.E. Elston, Department of Geology, University of New Mexico
- 8/68-8/80: Geologist WAE, U.S. Geological Survey, Branch of Astrogeology, Flagstaff, AZ
- 6/66-7/68: Geological Field Assistant WAE, U.S. Geological Survey, Branch of Astrogeology, Flagstaff, AZ
- 6/64-9/64: Undergraduate Research Assistant to Professor A.J. Mozola, Department of Geology, Wayne State University, Detroit, MI

Professional Society Memberships:

American Association for the Advancement of Science
 American Geophysical Union
 Geological Society of America (Fellow)
 Geological Society of Nevada
 IAVCEI-International Association of Volcanology and Chemistry of the Earth's Interior
 Mineralogical Society of America
 Phi Kappa Phi
 Sigma Gamma Epsilon
 Sigma Xi

Grants and Contracts: * indicates current contracts or grants:

Studies of Yucca Mountain Nevada

- *Clark County Nevada contract to study basaltic volcanism about Yucca Mountain (July 2007-July 2010)
- *Inyo County California contract to study the geology of the Greenwater Range, Death Valley (January 2008-January 2010).
- *Nevada Agency for Nuclear Projects contract to study basaltic volcanism about Yucca Mountain (1986-1996, 2000-2010).
- Nevada Agency for Nuclear Projects and Clark County Nuclear Waste Office-contract to study basaltic volcanism about Yucca Mountain (July 2005-July 2007).

Bureau of Land Management Contracts

- *Bureau of Land Management contract to study the geology of the Sloan Canyon NCA (2005-2010).
- Bureau of Land Management contract to prepare a compilation of the geology of the Eldorado Valley, Nevada to evaluate gold in calcrete mining claims (2003).

U.S. Navy Geothermal Project Office Contracts

- U.S. Navy Geothermal Office Grant to study volcanic rocks in the Lava Mountains, (1998-1999).
- U.S. Navy Geothermal Office Grant *with Rodney Metcalf* to study volcanic rocks in the Lava Mountains, California and the Mt. Perkins Pluton, Arizona (1996-1998).

Lake Mead and River Mountain Projects

- *Lake Mead Intake #3 project; contract with CH2M Hill (2008-2010).
- *SCOP project; contract with Black and Veatch (2007-2010).
- State Route 710 California project; contract with CH2M Hill (2009).

Previous Grants of Note

- NSF Grant with J. Faulds and P. Gans to study the structural and geochemical development of the northern Colorado River extensional corridor (1991-1993).
- UNLV Research Council grant to support the study of Tertiary volcanic rocks in Clark County, Nevada (1983).
- NASA Grant NGR 50-009-001 for the study of volcanic fields in California, New Mexico and Wisconsin. The grant also funded the study of volcanic domes and craters on Mars, Mercury, Moon and Earth (6 years of funding)(1973-1979).
- Four University of Wisconsin research grants to support the study of Precambrian igneous rocks of south-central Wisconsin (1973-1977).

Awards:

- Recipient of the Harry Reid Nevada Star Award for Research (2006).
- Recipient of UNLV College of Sciences Distinguished Researcher Award (1999).
- National Defense Education Act (NDEA) Title IV Fellowship, 9/65-6/68

Current Research:

1. Geology of Quaternary-Pliocene basalts in the southern and central Great Basin and Colorado Plateau.
2. Volcanic hazard studies related to placing a nuclear waste repository at Yucca Mountain, Nevada.
3. Geology of basalts in the Yellowstone Plateau volcanic field, implications for the future development of the Yellowstone volcanic system.

4. Geochemical, structural and field study of the volcanic and plutonic rocks of the Lake Mead Volcanic Field.
5. The formation of intermediate composition igneous rocks in an extensional environment.

Editorial Responsibilities

- Associate editor of the Geological Society of America Bulletin 1999-2008
- Associate editor of the Journal of Geophysical Research (Geochemistry and Volcanology)- 1996-1999

Research Advisor for the following students:

University of New Mexico:

- Anthony Sanchez

University of Wisconsin-Parkside:

- James Grimes
- Bill Stupak
- Jill Hartnell
- Ray Spangers
- Cliff Brandon

UNLV:

- **Crow, H. Clay, III**, 1984, *Geochemistry of shonkinites, syenites, and granites associated with the Sulfide Queen carbonatite body, Mountain Pass, California [MS thesis]*: Las Vegas, University of Nevada, 56 p.
- **Myers, Ingrid A.**, 1984, *Geology and mineralization at the Cyclopic mine, Mohave County, Arizona [MS thesis]*: Las Vegas, University of Nevada, 64 p.
- **Mills, James G., Jr.**, 1985, *The geology and geochemistry of volcanic and plutonic rocks in the Hoover Dam 7 1/2 minute quadrangle, Clark County, Nevada and Mohave County, Arizona [MS thesis]*: Las Vegas, University of Nevada, 119 p.
- **Timm, John J.**, 1985, *Age and significance of paleozoic sedimentary rocks in the southern River Mountains, Clark County, Nevada [MS thesis]*: Las Vegas, University of Nevada, 62 p.
- **Feuerbach, Daniel L.**, 1986, *Geology of the Wilson Ridge pluton : a mid-Miocene quartz monzonite intrusion in the northern Black Mountains, Mohave County, Arizona and Clark County, Nevada [MS thesis]*: Las Vegas, University of Nevada, 79 p.
- **Naumann, Terry R.**, 1987, *Geology of the central Boulder Canyon quadrangle, Clark County, Nevada [MS thesis]*: Las Vegas, University of Nevada, 68 p.
- **Schmidt, Casey S.**, 1987, *A mid-Miocene caldera in the central McCullough Mountains, Clark County, Nevada [MS thesis]*: Las Vegas, University of Nevada, 78 p.
- **Sewall, Angela J.**, 1988, *Structure and geochemistry of the upper plate of the Saddle Island detachment, Lake Mead, Nevada [MS thesis]*: Las Vegas, University of Nevada, 84 p.

- **Cole, Erin D.**, 1989, *Petrogenesis of late Cenozoic alkalic basalt near the eastern boundary of the Basin-And-Range: Upper Grand Wash trough, Arizona and Gold Butte, Nevada [MS thesis]*: Las Vegas, University of Nevada, 68 p.
- **Larsen, Lance L.**, 1989, *The origin of the Wilson Ridge pluton and its enclaves, northwestern Arizona: Implications for the generation of a calc-alkaline intermediate pluton in an extensional environment [MS thesis]*: Las Vegas, University of Nevada, 81 p.
- **Bridwell, Hayden L.**, 1991, *The Sloan Sag: A mid-Miocene volcanotectonic depression, north-central McCullough Mountains, southern Nevada [MS thesis]*: Las Vegas, University Of Nevada, 147 p.
- **Cascadden, Tracy E.**, 1991, *Style of volcanism and extensional tectonics in the eastern Basin and Range Province: northern Mojave Co., Arizona [MS thesis]*: Las Vegas, University Of Nevada, 156 p.
- **Morikawa, Shirley A.**, 1993, *The Geology of the Tuff of Bridge Spring: southern Nevada and northwestern Arizona [MS thesis]*: Las Vegas, University of Nevada, 165 pp.
- **Rash, Kelly B.**, 1995, *Geology and geochemistry of Tertiary volcanic rocks in the northern Reville and southern Pancake Ranges, Nye County, Nevada [MS thesis]*: Las Vegas, University of Nevada, 171 p.
- **Sánchez, Alexander**, 1995, *Mafic volcanism in the Colorado Plateau / Basin-and-Range transition zone, Hurricane, Utah [MS thesis]*: Las Vegas, University of Nevada, 92 p.
- **Boland, Kelly A.**, 1996, *The petrogenesis of andsites produced during regional extension: Examples from the northern McCullough Range, Nevada and Xitle volcano, Mexico [MS thesis]*: Las Vegas, University of Nevada, 127 p.
- **Dickson, Loretta D.**, 1997, *Volcanology and geochemistry of Pliocene and Quaternary basalts on Citadel Mountain, Lunar Crater volcanic field, Pancake Range, Nevada [MS thesis]*: Las Vegas, University of Nevada, 146 p. (Received the UNLV Alumni Association award for the most outstanding thesis for the academic year 1997-98)
- **Downing Reina**, 2000, *Imaging the Mantle in Southwestern, Utah Using Geochemistry, and Geographic Information Systems [MS thesis]*: Las Vegas, University of Nevada, 129 p.
- **Keenan, Deborah L.**, 2000, *A study of the Lava Mountians, San Bernadino County, California [MS thesis]*: Las Vegas, University of Nevada, 81p.
- **Herrington, Juliana**, 2000, *Significance of the prevolcanic conglomerate of the Colorado River extensional corridor, Nevada and Arizona [MS thesis]*: Las Vegas, University of Nevada, 83p.
- **Sanford, Aaron L.**, 2000, *Geologic history of the McCullough Pass caldera [MS thesis]*: Las Vegas, University of Nevada, 111p.

- **Elizabeth Stickney**, 2004, *Quaternary basaltic volcanism in the northern part of the Lunar Crater volcanic field, Nevada.*, 103 p.
- **Matt Faust**, 2005, *Petrogenesis and geochemistry of Pleistocene and Pliocene basalt flows of the Pine Valley Volcanic Field, Utah and their relationship to the tectonics of the Utah Transition Zone* [MS thesis]: University of Nevada), 116 p.
- **Denise Honn**, 2005, *Nested Calderas of the northern Kawich Range, central Nevada* [MS thesis]: University of Nevada), 92 p.
- **Denise Honn Ph.D.** *Linking a volcanic-plutonic system in the River Mountains and Wilson Ridge Pluton.* (work in progress).
- **Shara Leavitt**, 2006, *Volcanology and Petrogenesis of the Navajo Lake Volcanic Field, Utah* : [MS thesis]: University of Nevada, 94 p.
- **Kristeen Bennett**, 2006, *Petrogenesis of Pleistocene basalts in the Norris-Mammoth Corridor, Yellowstone National Park* : [MS thesis]: University of Nevada, 120 p.
- **Matt McKelvey**, 2007, *Geology of the southern Reveille Range, Nye County Nevada:* [M.S. thesis]: University of Nevada, 97 p.
- **Audrey Rager (Ph.D.)**, *Fragmentation of Martian regolith and the formation of pedestal craters* (work in progress).
- **Ashley Tibbetts**, *Geology of the Death Valley volcanic field* (work in progress).
- **Christi Emery**, *Volcanology of the southern Quinn Canyon Range, central Nevada* (work in progress).
- **Racheal Johnsen (Ph.D.)**, *Bimodal volcanism from the Miocene to Recent: a study of three volcanic fields* (work in progress).

Students who left UNLV before completing their degrees

- Jeff Nejedly
- Robert Yasek
- Tom Wickham
- Joe Blaylock
- Heather Putnam

Post-Doctoral Research Associates

- Jim Faulds (now an research scientist with the Nevada Bureau of Mines and Geology)
- Mark Martin (now a geologist at Shell Oil in Houston, Texas)
- Jim Mills (now an associate professor at DePauw University, Indiana)
- Tim Bradshaw (now a science advisor to the House of Lords, London)
- Gene Yagodzinski (now an assistant professor at the University of South Carolina)

Research Associates (*Professional Staff with M.S. degrees*)

- Dan Feuerbach
- Terry Naumann
- Alex Sánchez
- Shirley Morikowa
- Deb Keenan
- Denise Honn
- Racheal Johnsen

PUBLICATIONS:

A. Journal Articles in refereed journals, symposium volumes and maps:

1. Elston, W.E., Lambert, P.W. and Smith, E.I., 1968, Striated cones: wind abrasion features, not shatter cones: in Short, N.M., and French, B.M., eds., Shock Metamorphism of Natural Materials, Mono Book Corporation, Baltimore, p. 287- 290.
2. Mozola, A.J. and Smith, E.I., 1969, Glacial drift thickness map of Wayne County, Michigan: in Mozola, A.J., Geology for land and ground-water development in Wayne County, Michigan: Geological Survey of Michigan, Report of Investigation 3, 25 pp.
3. Elston, W.E., and Smith, E.I., 1970, Determination of flow direction of rhyolite ash-flow tuffs from fluidal textures: Geological Society of America Bulletin, v. 81, p. 3393- 3406.
4. Elston, W.E., Aldrich, M.J., Smith, E.I., and Rhodes, R.C., 1971, Non-random distribution of lunar craters: Journal of Geophysical Research, v. 76, no. 23, p. 5675- 5682.
5. Smith, E.I., 1971, Determination of the origin of small lunar and terrestrial craters by depth-diameter ratio: Journal of Geophysical Research, v. 76, no. 23, p. 5683- 5689.
6. Rhodes, R.C., and Smith, E.I., 1972, Directional fabric of ash-flow sheets in the northwest part of the Mogollon Plateau, New Mexico: Geological Society of America Bulletin, v. 83, p. 1863-1868.
7. Smith, E.I., and Rhodes, R.C., 1972, Flow direction of lava flows: Geological Society of America Bulletin, v. 83, p. 1869-1874.
8. Rhodes, R.C., and Smith, E.I., 1973, Geology and tectonic setting of the Mule Creek Caldera, New Mexico, USA: Bulletin Volcanologique, v. 36, no. 3, p. 401-411.
9. Smith, E.I., 1973, Mono Craters, California: A new interpretation of the eruptive sequence: Geological Society of America Bulletin, v. 84, p. 2685-2690.

10. Smith, E.I., 1973, Identification, distribution and significance of lunar volcanic domes: *The Moon*, v. 6, nos. 1/2, p. 3-31.
11. Smith, E.I., and Sanchez, A.G., 1973, Fresh lunar craters: morphology as a function of diameter, a possible criterion for crater origin: *Modern Geology*, v. 4, p. 51-59.
12. Elston, W.E., Damon, P.E., Coney, P.J., Rhodes, R.C., Smith, E.I., and Bickerman, M., 1973, Tertiary volcanic rocks, Mogollon Plateau, New Mexico and surrounding regions: K-Ar dates and patterns of eruption: *Geological Society of America Bulletin*, v. 84, p. 2259-2274.
13. Elston, W.E., and Smith, E.I., 1973, Mars, evidence for dynamic processes from Mariners 6 and 7: *Icarus*, v. 19, p. 180-194.
14. Smith, E.I., and Rhodes, R.C., 1974, The Squirrel Springs volcanotectonic depression, a buried cauldron in southwestern New Mexico: *Geological Society of America Bulletin*, v. 85, p. 1865-1868.
15. Smith, E.I., 1974, Rumker Hills, a lunar volcanic dome complex: *The Moon*, v. 10, no. 2, p. 175-182.
16. Smith, E.I., and Sanchez, A.G., 1975, Fresh lunar craters: morphology as a function of diameter, a possible criterion for crater origin, Reply: *Modern Geology*, v. 5, p. 175-176.
17. Smith, E.I., 1976, Comparison of the crater morphology-size relationship for Mars, Moon and Mercury: *Icarus*, v. 28, p. 543-550.
18. Rhodes, R.C., and Smith, E.I., 1976, Stratigraphy and structure of the northwestern rim of the Mogollon Plateau volcanic province, Catron County, New Mexico: *New Mexico Geological Society Special Publication No. 5*, p. 57-62.
19. Smith, E.I., 1976, Structure and morphology of the John Kerr Peak dome complex, southwestern New Mexico: *New Mexico Geological Society Special Publication No. 5*, p. 71-78.
20. Smith, E.I., Aldrich, M.J., Deal, E.G., and Rhodes, R.C., 1976, Fission track ages of Tertiary volcanic rocks, Mogollon Plateau, southwestern New Mexico: *New Mexico Geological Society Special Publication No. 5*, p. 117-118.
21. Smith, E.I., 1978, Introduction to the Precambrian rocks of south-central Wisconsin: *Geoscience Wisconsin*, v. 2, p. 1-17.
22. Smith, E.I., Paull, R.A., and Mudrey, M.G., 1978, Precambrian inliers in south-central Wisconsin: *Wisconsin Natural History and Geological Survey Field Trip Guide Book No. 2*, 89 pp.

23. Smith, E.I., 1978, Precambrian rhyolites and granites in south-central Wisconsin: field relations and geochemistry: Geological Society of America Bulletin, v. 89, p. 975- 980.
24. Smith, E.I., and Stupak, W.A., 1978, A Fortran IV program for the classification of volcanic rocks using the Irvine and Baragar classification: Computers and Geoscience, v. 4, p. 89-99.
25. Smith, E.I., and Hartnell, J.A., 1978, Crater size-shape profiles for the Moon and Mercury: The Moon and Planets, v. 19, p. 479-511.
26. Smith, E.I., Slagle, M.J., and Luzader, S., 1980, Impact cratering experiment for a course in lunar and planetary geology: Journal of Geological Education, v. 28, p. 204-209.
27. Bell, J., and Smith, E.I., 1980, Geological map of the Henderson quadrangle, Clark County, Nevada: Nevada Bureau of Mines and Geology, Map 67.
28. Parolini, J.R., Smith, E.I., and Wilbanks, J.R., 1981, Fission track dating of gravity slide blocks in the Rainbow Gardens, Clark County, Nevada: Isochron/West, no. 30, p. 9-10.
29. Smith, E.I., 1982, Geology and geochemistry of the volcanic rocks in the River Mountains, Clark County, Nevada and comparisons with volcanic rocks in nearby areas: in Frost, E.G., and Martin, D.L. eds., Mesozoic-Cenozoic tectonic evolution of the Colorado River Region, California, Arizona and Nevada: San Diego, California, Cordilleran Publishers, p. 41-54.
30. Smith, E.I., 1984, Geochemistry and evolution of the early Proterozoic Post-Penokean rhyolites and granites, and related rocks of south-central Wisconsin: Geological Society of America Memoir 160, p. 113-128.
31. Smith, E.I., 1984, Geologic map of the Boulder City quadrangle, Nevada: Nevada Bureau of Mines and Geology, Map 81.
32. Choukroune, Pierre, and Smith, E.I., 1985, Detachment faulting and its relationship to older structural events on Saddle Island, River Mountains, Clark County, Nevada: Geology, v. 13, p. 421-424.
33. Myers, I.A., Smith, E.I., and Wyman, R.V., 1986, Control of gold mineralization at the Cyclopic Mine, Gold Basin District, Mohave County, Arizona: Economic Geology, v. 81, no. 6, p. 1553-1557.
34. Smith, E.I., 1986, Field Guide to the Geology of the eastern River Mountains and the Hoover Dam area, Clark County, Nevada: in Rowland, S.R., Field Guide to the Geology of Southern Nevada, prepared for the NAGT-FWS Meeting, Las Vegas, Oct. 3-5, 1986, p. 22-64.

35. Smith, E.I., Anderson, R.E., Bohannon, R.J. and Axen, Gary, 1987, Structure, volcanology, and sedimentology of mid-Tertiary rocks in the eastern Basin-and- Range Province, Southern Nevada: in Davis, G.H. and VandenDolder, Geologic Diversity of Arizona and its Margins: Excursions to Choice Areas: Arizona Bureau of Geology and Mineral Technology, Geological Survey Branch Special Paper 5, p. 383-397.
36. Weber, M.E., and Smith, E.I. 1987, Structural and geochemical constraints on the reassembly mid-Tertiary volcanoes in the Lake Mead area of southern Nevada: *Geology*, v. 15, p. 553-556.
37. Guth, Peter and Smith, E.I., 1987, Discussion of the paper by Ron and others, "Strike-slip faulting and block rotation in the Lake Mead Fault System", *Geology*, v. 15, p. 579-580.
38. Smith, E.I., Schmidt, C.S., and Mills, J.G., 1988, Mid-Tertiary volcanoes of the Lake Mead area of southern Nevada and Northwestern Arizona: in Weide, D.L., and Faber, M.L., This Extended Land, Geological Journeys in the southern Basin and Range, Geological Society of America, Cordilleran Section Field Trip Guidebook; UNLV Department of Geoscience, Special Publication No. 2, p. 107-122.
39. Faulds, J.E., Hillemeier, F.L., and Smith, E.I., 1988, Geometry and kinematics of a Miocene "Accommodation Zone" in the central Black and southern Eldorado Mountains, Arizona and Nevada: in Weide, D.L., and Faber, M.L., This Extended Land, Geological Journeys in the southern Basin and Range, Geological Society of America, Cordilleran Section Field Trip Guidebook; UNLV Department of Geoscience, Special Publication No. 2, p. 293-310.
40. Smith, E.I., Feuerbach, D.L., Naumann, T.R. and Faulds, J.E., 1990, The area of most recent volcanism about Yucca Mountain, Nevada: Implications for volcanic risk assessment: in Proceedings of the International Nuclear Waste Symposium, v. 1, American Nuclear Society and American Society of Civil Engineers, p. 90-97.
41. Smith, E.I., Feuerbach, D.L., Naumann, T.R. and Mills, J.E., 1990, Geochemistry and evolution of mid-Tertiary igneous rocks in the Lake Mead area of Nevada and Arizona: in Anderson, J.L., Cordilleran Magmatism: Geological Society of America Memoir 176, p. 169-194.
42. Larsen, L.L. and Smith, E.I., 1990, Mafic enclaves in the Wilson Ridge Pluton, northwestern Arizona: Implications for the generation of a calc-alkaline intermediate pluton in an extensional environment: *Journal of Geophysical Research*, v. 95, p. 17693-17716.
43. Duebendorfer, E.M., Sewall, A.J., and Smith, E.I., 1991, The Saddle Island Detachment fault, an evolving shear zone in the Lake Mead area of southern Nevada: in Wernicke, B., Mid-Tertiary extension at the latitude of Las Vegas: Geological Society of America Memoir 176, p. 77-97.

44. Duebendorfer, E.M. and Smith, E.I., 1991, Tertiary structure, magmatism and sedimentation in the Lake Mead region, southern Nevada, *in* Seedorf, E., ed., Tertiary geology and volcanic-hosted gold deposits of the southern Great Basin: Geological Society of Nevada Special Publication 13, p. 66-95.
45. Naumann, T.R., Smith, E.I., Shafiqullah, M., and Damon, P.E., 1991, New K-Ar ages for mafic to intermediate volcanic rocks in the Reveille Range, Nevada: *Isochron West*, p. 12-16.
46. Feuerbach, D.L., Smith, E.I., Shafiqullah, M., and Damon, P.E., 1991, New K-Ar dates for mafic late-Miocene to Pliocene volcanic rocks in the Lake Mead area, Arizona and Nevada: *Isochron West*, p. 17-20.
47. Ho, Chih-Hsiang, Smith, E.I., Feuerbach, D.L. and Naumann, T.R., 1991, Eruptive probability calculation for the Yucca Mountain site, USA: statistical estimation of recurrence rates: *Bulletin of Volcanology*, v. 53.
48. Metcalf, R.V., Smith, E.I., and Mills, J.G., 1993, Magma mixing and commingling in the northern Colorado River extensional corridor: constraints on the production of intermediate magmas: *in* Lahren, M.M., Trexler, J.H., and Spinosa, C., eds., *Crustal evolution of the Great Basin and Sierra Nevada: Cordilleran/Rocky Mountain Section*, Geological Society of America Guidebook, Department of Geological Sciences, University of Nevada, Reno, p. 35-56.
49. Smith, E.I., , 1993, 1.76 b.y. old granites and rhyolites in the conterminous United States: *in* Reed, J.C., Bickford, M.E., Houston, R.S., Link, P.K., Rankin, D.W., Sims, P.K., and Van Schmus, W.R., *Precambrian: Conterminous U.S.*, Geological Society of America, *Decade of North America Geology (DNAG)*, v. C-2, p. 64-66.
50. Feuerbach, D.L., Smith, E.I., Walker, J.D. and Tangeman, J.A., 1993, The role of the mantle during crustal extension: constraints from geochemistry of volcanic rocks in the Lake Mead area, Nevada and Arizona: *Geological Society of America Bulletin*, v 105, p. 1561-1575.
51. Rowell, A.J., Rees, M.N., Duebendorfer, E.M., Wallin, E.T., Van Schmus, W.R., and Smith, E.I., 1993, An active Neoproterozoic margin: evidence from the Skelton Glacier area, Transantarctic Mountains: *Journal of the Geological Society*, London, v. 150, p. 677-682.
52. Duebendorfer, E.M., Smith, E.I., and Faulds, J.E., 1994, Geologic setting of the area between Lake Mead Nevada, and Needles, California *in* Sherrod, D. and Nielson, J., eds., *Tertiary stratigraphy of highly extended terranes: U.S. Geological Survey Bulletin 2053*, p. 1-5.

53. Wallin, E.T., Duebendorfer, E.M. and Smith, E.I., 1994, Tertiary stratigraphy of the Lake Mead region in Sherrod, D. and Nielson, J., eds., Tertiary stratigraphy of highly extended terranes: U.S. Geological Survey Bulletin 2053, p. 33-35.
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92. Smith, E.I., Sánchez, A., Keenan, D.L., and Monastero, F.C., 1999, Stratigraphy and geochemistry of volcanic rocks in the Lava Mountains, California: implications for the Miocene development of the Garlock Fault: Geological Society of America Abstracts with Programs, v. 31, no. 7, p. 262.
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96. Stowell, Shara and Smith, E.I., 2003, Volcanology of the Navajo Lake Volcanic Field, Southwestern Utah: Geological Society of America Abstracts with Programs, v. 35, no. 5, p. 12.
97. Smith, E.I., Keenan, D.L., Ho, C.-H., and Freeman, Elizabeth, 2003, Buried volcanic centers near Yucca Mountain, Nevada: Significance for volcanic hazard studies and the Neotectonics of southern Nevada: Geological Society of America Abstracts with Programs, v. 35, no. 7, p. 475.

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99. Bennett, Kristeen and Smith, E.I., 2004, The Panther Creek Volcano: a newly discovered basaltic vent in Yellowstone National Park: Geological Society of America Abstracts with Programs, Vol. 36, No. 4, p. 8.
100. McKelvey, Matt and Smith, E.I., 2004, Mid-Miocene calderas in the Reville Range, Nevada: Geological Society of America Abstracts with Programs, Vol. 36, No. 5, p. 431.
101. Druschke, Peter; Honn, Denise; McKelvey, Matt; Nastanski, Nicole; Rager, Audrey; Smith, E.I., and Belliveau, Robert, 2004, Volcanology of the northern Eldorado Mountains, Nevada: new evidence for the source of the tuff of Bridge Spring: Geological Society of America Abstracts with Programs, Vol. 36, No. 5, p. 431.
102. Spell, T.E., Smith, E.I., Nastanski, N., Bennett, K., 2004, Establishment and Evolution of a new Silicic Magma System North of Yellowstone Caldera: Geochronology, Geochemistry and Petrographic Relationships of Extracaldera Basalts and Rhyolites in the Norris-Mammoth Corridor: Eos Transactions of the American Geophysical Union, v. 85, no. 47, Abstract V52B-08.
103. Faust, M.E. and Smith, E.I., 2005, Volcanology of the Santa Clara and Diamond Valley Lava flows, Snow Canyon State Park, Utah: Geological Society of America Abstracts with Programs, Vol. 37, No. 4, p. 67.
104. Honn, Denise and Smith, E.I., 2005, Coalescing calderas and volcanic debris avalanche deposits in the northern Kawich Range, central Nevada: Geological Society of America Abstracts with Programs, Vol. 37, No. 4, p. 65.
105. Honn, Denise and Smith, E.I., 2005, Volcanoes of the McCullough Range, southern Nevada: A window into the pre-extensional history of the Colorado River extensional corridor: Geological Society of America Abstracts with Programs, Vol. 37, No. 7, p. 229-230.
106. Smith, E.I. and Keenan, D.L., 2005, Defining the Boundaries of the Volcanic Field about Yucca Mountain, Nevada: Implications for Volcanic Hazard Studies: Eos Transactions of the American Geophysical Union, v. 86, no. 52, Fall Meeting Supplement, Abstract V31E-03.
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C. Open File and Technical Reports

1. Anderson, J.L., Young, E.D., Clarke, H.S., Orrell, S.E., Winn, M., Schmidt, C.S., Weber, M.E., and Smith, E.I., 1985, The geology of the McCullough Range Wilderness area, Clark County, Nevada: U.S. Geological Survey, Final Technical Report, 26p.
2. Eggleton, R.E., and Smith, E.I., 1967, Geologic map of the Rumker Quadrangle of the Moon: U.S. Geological Survey Open File Report.

Plus over 300 reports to the Nevada Nuclear Project Office, U.S. Navy's Geothermal Project Office and the Bureau of Land Management.

ATTACHMENT 2

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EDUCATION

Arizona State University: Ph.D. Environmental Planning and Design
Arizona State University: MA Environmental Geography
University of South Florida: BA Geography

EMPLOYMENT HISTORY

Urban Environmental Research, LLC

Managing Partner

1999-Present

In charge of the Critical Infrastructure Protection Program (Silver Shield) for the State of Nevada which identifies critical infrastructure, assets, systems, networks and functions critical to the state's economic security, public health and safety, responsible for conducting socioeconomic impact analysis, including property value diminution; public safety impacts; government/fiscal impact; and regulatory compliance for Clark County, Nevada. Synthesized over a decade of research data addressing socio-economic, demographic, and behavioral research in order to identify key relationships that influence risk perception and behavior. Conducted statistical analysis of a survey of local businesses to determine their perception of risk from the proposed transport of high-level radioactive waste. Analyzed a draft Environmental Impact Statement for NEPA and NWPA compliance. Conducted property value diminution studies and studies analyzing public safety impacts for the following Nevada cities: Las Vegas, North Las Vegas, Mesquite, Henderson, Boulder City. Also, conducted three property value studies for the State of Nevada.

Environmental Synergy, Inc.

President

1994-1997

Established this environmental consulting firm to provide socio-economic impact analysis, property value diminution studies, regulatory compliance planning, and analysis for complex hazardous waste management and other environmental issues.

Colorado Center for Environmental Management

Executive Director

1991-1993

Helped this non-profit organization define its vision and mission; secured an initial seven million dollar grant from the US Department of Energy and managed all of the organization's hazardous work research and community outreach. Analyzed socio-economic impact of DOE clean-up activities at six weapons facilities. Designed and tested a model consensus building strategy for the testing and acceptability review for new environmental technologies. This work is summarized in two books *Environmental Decision-Making. Conflict and Consensus and Methods for Assuring the Use of Innovative Technologies*

ICF Kaiser Engineers

Project Manager

1985-1991

Experienced in socio-economic impact assessment, risk assessment and management, property valuation studies, key trend analysis, economic impact analysis, and regulatory analysis. Provided extensive technical support in environmental assessment, permitting, and regulatory and public acceptance of sensitive environmental projects. Directed or participated in over a hundred projects, specializing in hazardous waste, high and low level radioactive waste, solid waste and related environmental concerns.

Utah Department of Community and Economic Development

Public and Regulatory Affairs Information Officer

1983-1984

Experienced in energy planning, environmental management, regulatory analysis, public policy, strategic public participation, risk assessment and management. Directed or participated in over a hundred projects, including seven Environmental Impact Statements (EISs), spanning a broad range of energy, hazardous waste, high-level radioactive waste and solid waste.

John Short and Associates

Senior Management Consultant

1982-1983

Provided socio-economic impact assessment related to energy development projects including coal mines, gasification facilities, and synthetic fuels development.

Utah Energy Office

Federal/State Natural Resource Coordinator

1979-1982

Provided energy planning, socio-economic impact assessment, environmental management, regulatory analysis, and policy analysis on a wide number of energy resources and environmental issues.

Utah Office of Labor

Research Analyst

1977-1979

Conducted energy manpower and training analysis for the Tristate Energy Consortium of Utah, Colorado and Wyoming.

AWARDS AND APPOINTMENTS

Letter of Commendation for Signo-Mount Vernon Emergency Response from Regional USEPA Administrator Christopher Daggett, 1991.

New York State Civil Service Commission: Department of Environmental Conservation Subcommittee, 1989-1991

Letter of Commendation for Flood Emergency Management and Preparation from Utah Public Safety Commissioner Larry Lunnen, 1984.

Letter of Commendation for Wilderness Designation Analysis from Governor Scott M. Matheson, 1983.

PUBLICATIONS

Aguero, J., Conway, S., & Navis, I. Community monitoring in a tourism-dependent economy. *Sustainable Tourism II* (pp.297-309). Ed. C.A. Brebbia & F.D. Pineda. WIT Press, Wessex: UK. 2006.

Conway, S. Fourteenth International Conference on Urban Transport and the Environment in the 21st Century, Malta, 1 - 3 September 2008

Conway, S. "The 2007 Projected Impacts to Clark County and Local Governmental Public Safety Agencies Resulting from the Transportation of High-Level Nuclear Waste to Yucca Mountain." Waste Management Symposium. Tucson, AZ. Feb 2008.

Conway, S., *Monitoring Program* (Quality of Life Institute, Vermont; 2007).

Conway, S., *Bringing ITS All Together* (Trafford Press, United Kingdom, 2007).

Conway, S. "Yucca Mountain Bottom line: The Cost of Increased Public Safety Services." Midwest Political Science Association. Chicago, Illinois. 2007.

Conway, S. "Clark County, Nevada's Assessment of Land use Conflicts." Waste Management Symposium. Tucson, AZ. Feb 2007.

Conway, S. "Yucca Mountain Bottom Line: The High Cost of Increased Public Safety Services." Waste Management Symposium. Tucson, AZ. Feb 2007.

Conway, S. "Clark County Monitoring Program." The 11th International Conference on Environmental Remediation and Radioactive Waste Management. Bruges, Belgium Sep 2-6 2007.

Conway, S. "Clark County Monitoring Program." Waste Management Symposium. Tucson, AZ. Feb 2006.

Conway, S. "Clark County Monitoring Program." Sustainable Tourism. Bologna, Italy. Sep 2006.

Conway, S. "Clark County Monitoring Program: Economic Impacts of High-level Nuclear Waste Shipments." Environmental Economics. Mykonos, Greece. Sep 2006.

Conway, S. "Spent Fuel Transportation Initiatives." The 10th International Conference on Environmental Remediation and Radioactive Waste Management. Glasgow, Scotland. Sep 4-8 2005.

Conway, S., *Environmental Decision-Making: Conflict and Consensus* (Denver, Colorado: USDOE, 1993).

Conway, S., *Methods for Assuring the Use of Innovative Technologies* (Denver, Colorado: USDOE, 1993).

Conway, Sheila, *Technology/Regulatory Integration Project Summary Report* (Denver, Colorado: USDOE, 1993).

Conway, S., *Improving the Superfund Peer Review Process* (New York, New York: USEPA, 1990).

Conway, Sheila, *Socio-Economic Monitoring Report: Skyline Mines* (Grand Junction, Colorado: USOSM, 1982).

Conway, S, & Navis, I. "Clark County Monitoring Program: Stigma induced property value diminutia from nuclear waste transportation." 24th International Symposium on Forecasting. International Institute of Forecasters. Sydney, Australia. Jul 4-7 2004.

Conway, S, & Navis, I. Commodity Flow Study- Clark County, Nevada, USA. *Urban Transport XIII: Urban Transport and the Environment in the 21st Century*. Ed. C.A. Brebbia. WIT Press, Wessex: UK. 2007.

Conway, S, Washeba, P., & Navis, I. Impact Assessment and public outreach strategies of local governments. *Environmental Health Risk III*. Ed. C.A. Brebbia, Popov, V., & Fayzieva, D. WIT Press, Wessex: UK. 2007.

Conway, S, Washeba, P., Thomas, R., Cameron, R. Silver Shield: A Local Governments Approach to Critical Infrastructure Protection. C.A. Brebbia, D. WIT Press, Wessex: Rome, Italy 2009.

Conway, S., Navis, I., Wadhwa, A. Community indicators provide an “early warning system” and measure progress of sustainability initiatives. C.A. Brebbia, D. WIT Press, Wessex: Chianciano Terme, Italy 2009.

Conway, S., Mantranga, E., Mushkatel, A., Navis, I. - Director – Clark County Comprehensive Planning Office of Nuclear Waste. Hazardous Commodity Flows in Clark County, Nevada: 2005. Waste Management: Phoenix, AZ, 2008.

Conway, S., Mushkatel, A., Navis, I. - Director – Clark County Comprehensive Planning Office of Nuclear Waste and Palladino, C., Principal, The Palladino Company Inc. The Projected Fiscal Impacts To Public Safety Agencies From Shipments of High-Level Nuclear Waste To Yucca Mountain, Nevada: The 2007 Study Findings. Waste Management: Phoenix, AZ, 2008.

PAPERS PRESENTED

2004 American Nuclear Society’s Waste Management Conference

2003 American Nuclear Society’s International High Level Nuclear Waste Management Conference

1997 Southwest Association of Geographers

1994 United States DOE Technology Information Exchange

1993 United States DOE Technology Information Exchange

USEPA Innovative Technologies and Waste Cleanup Workshop, Washington, DC

Federal Facility Compliance, Government Institutes, Inc., Las Vegas, Nevada

DOE/Industry Technology Roundtable

National Association of Professional Environmental Communicators, Chicago, IL

1992 Superfund ‘92, Washington, DC

Environmental Careers Symposium, University of Denver

National Environmental Health Association Annual Conference

Waste Minimization Research and Development Priorities, Colorado State University

Cleanup Research and Development Priorities Roundtable, Washington, DC

University/Institutional Environmental Research Opportunities Workshop, Washington

USEPA Innovative Technologies and Waste Cleanup Workshop, Washington, DC

Working Together for a Cleaner Colorado, Denver, Colorado

Spectrum ‘92, Boise, Idaho

1990 Superfund ‘90, Washington, DC

1982 *Environmental Planning*, Westminster College

1981 *Synfuels: Does It Make Sense?* University of Utah

PAST AND PRESENT ASSOCIATIONS

Urban Land Institute

Lied Institute Roundtable

City of Las Vegas Chamber of Commerce

Nevada Development Authority

Infraguard

Association of American Geographers

National Association of Environmental Professionals

National Association of Environmental Communicators

Association of Pacific Coast Geographers

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U.S. Environmental Protection Agency State of Utah

U.S. Department of Interior Colorado Council on Rocky Flats

U.S. Department of Defense Western Governors' Association

New York: Department of Environmental Protection Lowry Air Force Base

New Jersey: Hazardous Waste Siting Commission Rocky Flats Citizens Review Group

New Jersey: Department of Environmental Protection Tyndall Air Force Base

October 13, 2009

**UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION**

Before the Atomic Safety and Licensing Board

In the Matter of	Docket No. 63-001-HLW
U.S. DEPARTMENT OF ENERGY	ASLBP Nos. 09-876-HLW-CAB01
(High-Level Waste Repository)	09-877-HLW-CAB02
	09-878-HLW-CAB03
	09-892-HLW-CAB04

CERTIFICATE OF SERVICE

I hereby certify that copies of the foregoing Clark County, Nevada's Initial Identification of Party Witnesses have been served on the following persons this 13 day of October, 2009 by Electronic Information Exchange.

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