

**EDWARD F. REDENTE**  
**Résumé**

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**CURRENT ADDRESS**

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2417 Brookwood Drive  
 Fort Collins, CO 80525  
 Email: [Edward.Redente@colostate.edu](mailto:Edward.Redente@colostate.edu)

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**ACADEMIC TRAINING**

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B.A.	Geography and Biology	Western Michigan University	1972
M.S.	Range Science	Colorado State University	1974
Ph.D.	Range Science	Colorado State University	1980

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**PROFESSIONAL EXPERIENCE**

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1974 – 1976 Environmental Engineer, Utah International Inc., San Francisco, CA  
 1976 – 1980 Research Associate, Range Science Department, Colorado State University  
 1980 – 1984 Assistant Professor, Range Science Department, Colorado State University  
 1984 – 1988 Associate Professor, Range Science Department, Colorado State University  
 1988 – 2007 Professor, Rangeland Ecosystem Science Department, Colorado State University  
 1996 – 2007 Director, Center for Ecological Risk Assessment and Management, Colorado State University  
 2002—2005 Head of Forest, Rangeland, and Watershed Stewardship Department, Colorado State University  
 2003—2006 Associate Dean for Research, College of Natural Resources, Colorado State University  
 2005—2006 Interim Associate Vice President for Research, Colorado State University  
 2006—2007 Interim Dean, Warner College of Natural Resources, Colorado State University  
 2007—Pres. Professor Emeritus, Warner College of Natural Resources, Colorado State University  
 2007—2010. Vice President and Principal Ecologist, MWH Americas, Inc., Fort Collins, CO  
 2010—Pres. President of Redente Ecological Consultants, Fort Collins, CO

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## AWARDS

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Outstanding Professor of the Year	1982	Range Science Department, CSU
Outstanding Faculty Award	1992	College of Natural Resources, CSU
Outstanding Professor of the Year	1994	Range Science Department, CSU
Outstanding Achievement Award	1994	Society for Range Management
John E. Cermak Advising Award	1995	Colorado State University
Outstanding Faculty Award	1998	College of Natural Resources, CSU
Favorite Professor Award	2000	CNR College Student Council, CSU
Outstanding Professor Award	2000	College of Natural Resources, CSU
Outstanding Undergrad. Teacher	2001	Society for Range Management
Outstanding Professor of the Year	2002	Range Science Department, CSU
University Dist. Teaching Scholar	2003	Colorado State University
Theodore M. Sperry Award	2007	Society for Ecological Restoration
James A. Pendleton Award	2008	Colorado Division of Reclamation and Mining

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## HONORS

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1989-1990	Governor's Commission on Mountain Scars to address issues of mining scars along front range of Colorado
1999	Nomination to the National Academy of Sciences' Committee on Hardrock Mining on Federal Lands

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## COMMITTEE ASSIGNMENTS

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### *National*

- U.S. Department of Energy Oil Shale Task Force, 1980-1985
- U.S. Department of Energy Oil Shale Executive Committee, 1980-85
- Soil Conservation Society of America, Native Plant Materials Committee, 1980-1983
- Executive Committee for DOE's Arid Lands Ecology Program, 1985-1990
- American Society for Surface Mining and Reclamation, National Meeting Organizational Committee, 1986
- Society for Range Management, Publications Committee, 1989-1992
- Society for Range Management, Annual Meeting Planning Committee, 1992-1994
- Editorial Board, Arid Soil Research and Rehabilitation, 1998-2001
- Society for Range Management, Annual Meeting Program Co-Chair, 2000
- Editorial Board, Arid Land Research and Management, 2001-2006
- Society for Range Management, Publications Committee, 2001-2006

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**INVITED PAPERS**

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- 1979 Ecological Society of America/AIBS Symposium, Tucson, AZ
- 1980 U.S. Department of Energy, Second US DOE Environmental Control Symposium, Reston, VA
- 1980 U.S. Department of Energy, Oil Shale Environmental Challenges I Symposium, Vail, CO
- 1981 U.S. Department of Energy, Oil Shale Environmental Challenges II Symposium, Vail, CO
- 1982 National Academy of Sciences, National Research Council, Workshop of Oil Shale Research Needs, Denver, CO
- 1983 American Association for the Advancement of Science, Annual Meeting, Detroit, MI
- 1984 2nd International Rangeland Congress, Adelaide, Australia
- 1985 American Society for Surface Mining and Reclamation, Denver, CO
- 1985 14th International Grassland Congress, Kyoto, Japan
- 1986 High Altitude Revegetation Workshop, Fort Collins, CO
- 1986 American Association for the Advancement of Science, Annual Meeting, Philadelphia, PA
- 1987 XIV International Botanical Congress, West Berlin, Germany
- 1988 III International Rangeland Congress, New Delhi, India
- 1990 George Wright Society, 6th Conference on Research and Management in the National Parks, El Paso, TX
- 1991 American Society for Surface Mining and Reclamation, Annual Meeting, Durango, CO
- 1992 Symposium on Ecological Management and Restoration of Intermountain Annual Rangelands, Boise, ID
- 1993 Symposium on Forest Research, Belo Horizonte, Brazil
- 1994 High Altitude Revegetation Workshop, Fort Collins, CO
- 1994 Peruvian Ministry of Energy and Mines, Cerro De Pasco, Peru
- 1998 Montana State University, Distinguished Scientists Series, Bozeman, MT
- 1999 6th International Rangeland Congress, Townsville, Australia
- 1999 Geological Society of America, Denver, CO
- 2000 High Altitude Revegetation Workshop, Fort Collins, CO
- 2000 Colorado Section, Society for Range Management, Annual Meeting, Fort Collins, CO
- 2001 Society for Range Management, Annual Meeting, Kona, HI
- 2003 Society for Range Management, Annual Meeting, Salt Lake City, UT
- 2004 EPA Hazardous Substance Research Center Meeting, Las Vegas, NV
- 2005 American Society of Mining and Reclamation, Breckenridge, CO

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**GRADUATE STUDENTS**

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Total number of graduate students advised to completion: 66

Total number of postdoctoral candidates mentored: 6

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**CONTRACT WORK (abbreviated list)**

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1978-1990	U.S. Department of Energy
1978-1981	CF&I Steel Corporation
1980-1983	Mining and Minerals Resources Research Institute (USDI)
1984-1986	National Science Foundation
1988-1992	National Park Service
1991-1994	Pintlar Corporation/EPA
1991-1993	EPA
1991-1994	City of Fort Collins
1993-1995	Los Alamos National Laboratory
1993-1997	USDA-CSRS
1994-1996	EPA
1993-1997	Mesa Verde National Park
1994-2000	USFWS
1995-2004	Colorado Department of Health & Environment/EPA
1997-2000	USDA
1998-2002	EPA
2000-2003	DoD
2003-2005	EPA—Hazardous Substance Research Center
2004-2005	NPS/RMNP
2005-2009	Williams Co.
1990-2010	Idarado Mining Co.
2003-2010	Molycorp and Chevron Mining, Inc.
2005-2010	PacifiCorp
2007-2010	AREVA, Inc.

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**COUNTRIES VISITED ON SHORT-TERM ASSIGNMENTS**

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Australia, Austria, Brazil, China, Germany, Hungary, India, Japan, and Peru

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**PUBLICATIONS (abbreviated list)**

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**Journal Articles**

- Redente, Edward F., and F. Brent Reeves. 1981. Interaction between VA mycorrhiza and *Rhizobium* and their effect on sweetvetch growth. *Soil Sci.* 132:410-415.
- Redente, Edward F. 1981. Reclaiming oil shale disturbances. *Western Wildl.* 7:35-37.
- Redente, Edward F. 1982. Sweetvetch seed germination. *J. Range Manage.* 35:469-472.
- Redente, E. F., C. B. Mount, and W. J. Ruzzo. 1982. Vegetation composition and production as affected by soil thickness over retorted oil shale. *Reclam. Reveg. Res.* 1:109-122

- Doerr, T. B., E. F. Redente, and T. E. Sievers. 1983. Effect of cultural practices on seeded plant communities on intensively disturbed soils. *J. Range Manage.* 36:423-428
- Doerr, T. B., and E. F. Redente. 1983. Seeded plant community changes on intensively disturbed soils as affected by cultural practices. *Reclam. Reveg. Res.* 2:13-24.
- Fulbright, Timothy E., Edward F. Redente, and A. M. Wilson. 1983. Germination requirements of green needlegrass (*Stipa viridula* Trin.). *J. Range Manage.* 36:390-394.
- Doerr, Ted B., E. F. Redente, and F. B. Reeves. 1984. Effects of soil disturbance on plant succession and levels of mycorrhizal fungi in a sagebrush-grassland community. *J. Range Manage.* 37:135-139.
- Fulbright, Timothy E., A. M. Wilson, and E. F. Redente. 1984. Effects of temporary dehydration on growth of green needlegrass (*Stipa viridula* Trin.) seedlings. *J. Range Manage.* 37:462-464.
- Grygiel, C. E., C. D. Bonham, and E. F. Redente. 1984. Combined effects of environmental and agronomic factors on the invasion patterns of *Sphaeralcea coccinea* onto a reseeded site. *Phytologia* 56:145-153.
- Hargis, Norman E., and Edward F. Redente. 1984. Soil handling practices in the western United States. *J. Soil Water Conserv.* 39:300-305.
- Redente, Edward F., Ted B. Doerr, Carolyn E. Grygiel, and Mario E. Biondini. 1984. Vegetation establishment and succession on disturbed soils in northwest Colorado. *Reclam. Reveg. Res.* 3:153-165.
- Biondini, M. E., C. D. Bonham, and E. F. Redente. 1985. Relationships between induced successional patterns and soil biological activity of reclaimed areas. *Recl. Reveg. Res.* 3:323-342.
- Biondini, Mario E., Charles D. Bonham, and Edward F. Redente. 1985. Secondary successional patterns in a sagebrush (*Artemisia tridentata*) community as they relate to soil disturbance and soil biological activity. *Vegetation* 60:25-36.
- Fulbright, T. E., A. M. Wilson, and E. F. Redente. 1985. Green needlegrass (*Stipa viridula* Trin.) seedling morphology in relation to planting depth. *J. Range Manage.* 38:262-265.
- Fulbright, Timothy, E., A. M. Wilson, and Edward Redente. 1985. Green needlegrass and blue grama seedling growth in controlled environments. *J. Range Manage.* 38:410-414.
- Redente, Edward F., and Norman E. Hargis. 1985. An evaluation of soil thickness and manipulation of soil and spoil for reclaiming mined land in northwest Colorado. *Recl. Reveg. Res.* 4:17-29.
- Stark, John M., and Edward F. Redente. 1985. Soil-plant diversity relationships on a disturbed site in Colorado. *Soil Sci. Soc. Amer. J.* 49:1028-1034.
- Biondini, M. E., and E. F. Redente. 1986. Interactive effect of stimulus and stress on plant community diversity in reclaimed lands. *Recl. and Reveg. Res.* 4:211-222.
- Grygiel, Carolyn E., Charles D. Bonham, and Edward F. Redente. 1986. Invasion pattern mapping of non-seeded species on a shallowly disturbed seeded site. *The Prairie Naturalist* 18:1-18.

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- Reddy, K. J., W. L. Lindsay, F. W. Boyle, and E. F. Redente. 1986. Solubility relationships and mineral transformations associated with recarbonation of retorted shales. *J. Envir. Qual.* 15:129-133.
- Stark, John M., and E. F. Redente. 1986. Trace element and salt movement in retorted oil shale disposal sites. *J. Environ. Qual.* 15:282-288.
- Metzger, W. C., D. A. Klein, and E. F. Redente. 1986. Bacterial physiological diversity in the rhizosphere of range plants in response to retorted shale stress. *Appl. Envir. Microbiol.* 52:765-770.
- Redente, Edward F. 1986. Influence of restoration practices on plant community development in the semiarid west. *Note in Restoration and Mgmt. Notes* 4:40.
- Redente, Edward F. 1986. Influence of soil disturbance on native plant community development and mycorrhizal fungi. *Note in Restoration and Mgmt. Notes* 4:40.
- Stark, John M., and E. F. Redente. 1987. Production potential of stockpiled topsoil, *Soil Sci.* 144:72-76.
- Ogle, Philip R. and Edward F. Redente. 1988. Plant succession on surface mined lands in the West. *Rangelands* 10:37-42.
- Biondini, M. E., D. A. Klein, and E. F. Redente. 1988. Carbon and nitrogen losses through root exudation by *Agropyron cristatum*, *A. smithii*, and *Bouteloua gracilis* and their potential contribution to N cycling. *Soil Biol. and Biochem.* 20:477-482.
- Biondini, M. E., P. W. Mielke, and E. F. Redente. 1988. Permutation techniques based on euclidean analysis spaces: a new and powerful statistical method for ecological research. *Coenoses* 3:155-174.
- Klein, D. A., B. A. Frederick, and E. F. Redente. 1989. Fertilizer effects on microbial communities and organic matter in the rhizosphere of *Sitanion hystrix* and *Agropyron smithii*. *Arid Soil Res. and Rehab.* 3:397-404.
- Redente, Edward F., Mario E. Biondini, and John C. Moore. 1989. Productivity dynamics of a crested wheatgrass (*Agropyron cristatum*) and native shortgrass ecosystem in southern Wyoming. *J. Range Manage.* 42:113-118.
- Stark, John M., and Edward F. Redente. 1990. Plant uptake and cycling of trace elements on retorted oil shale disposal piles. *J. Envir. Qual.* 19:495-501.
- Carpenter, Alan T., John C. Moore, and Edward F. Redente. 1990. Plant community structural dynamics in relation to nutrient addition following a major disturbance in a semi-arid ecosystem. *Plant and Soil* 126:91-99.
- Stark, J. M. and E. F. Redente. 1990. Copper fertilization to prevent molybdenosis on retorted shale disposal piles. *J. Envir. Qual.* 19:502-504.
- McLendon, T. and E. F. Redente. 1990. Secondary succession patterns following soil disturbance in a sagebrush steppe community. *Oecologia* 85:293-300.
- Hunt, H. W., M. J. Trlica, E. F. Redente, J. C. Moore, J. K. Detling, T. G. F. Kittel, D. E. Walter, M. C. Fowler, D. A. Klein, and E. T. Elliott. 1991. Simulation model for the effects of climate change on temperate grassland ecosystems. *Ecological Modelling* 53:205-246.

- Cotts, N. R., E. F. Redente, and R. Schiller. 1991. Restoration methods for abandoned roads at lower elevations in Grand Teton National Park, Wyoming. *Arid Soil Research and Rehabilitation* 5:235-249.
- McLendon, T. and E. F. Redente. 1991. Nitrogen and phosphorus effects on secondary succession dynamics on a semi-arid sagebrush site. *Ecology* 72:2016-2024.
- Redente, E. F., J. E. Friedlander, and T. McLendon. 1992. Response of early and late successional species to nutrient gradients. *Plant and Soil* 140:127-135.
- McLendon, Terry and Edward F. Redente. 1992. Effects of nitrogen limitation on secondary succession dynamics on a semiarid sagebrush site. *Oecologia* 91:312-317.
- Hoffmann, L. A., E. F. Redente, and L. C. McEwen. 1994. Rodent granivory: A trophic constraint on the establishment of seeded shortgrass. *Ecological Applications* 5:200-208.
- Cook, C. Wayne and E. F. Redente. 1993. Development of the ranching industry in Colorado. *Rangelands* 15:204-207.
- Harris-Pierce, R. L., E. F. Redente, and K. A. Barbarick. 1994. Sewage sludge application effects on runoff water quality in a semiarid grassland. *J. Envir. Quality* 24:112-115.
- Richard, C. E. and E. F. Redente. 1995. Nitrogen and phosphorus effects on blue grama and buffalograss interactions. *J. Range Manage.* 48:417-422.
- Klein, Donald A., T. McLendon, M. W. Paschke, and E. F. Redente. 1995. Saprophytic fungal-bacterial biomass variations in successional communities of a semiarid steppe ecosystem. *Biol. Fert. Soils* 19:253-256.
- Klein, D. A., T. McLendon, M. W. Paschke, and E. F. Redente. 1996. Nitrogen availability and fungal-bacterial responses in successional semiarid steppe soils. *Arid Soil Res. and Rehab.* 10:321-332.
- Redente, E. F. and J. L. Richards. 1997. The effect of lime and fertilizer amendments on plant growth in smelter impacted soils in Montana, USA. *Arid Soil Res. and Rehab.* 11:353-366.
- Redente, E. F., T. McLendon, and W. Agnew. 1997. Influence of topsoil depth on plant community dynamics of a seeded site in northwest Colorado. *Arid Soil Res. and Rehab.* 11:139-149.
- Bowerman, Andrew G. and Edward F. Redente. 1998. Biointrusion of protective barriers as hazardous waste sites. *J. Envir. Quality* 27:625-632.
- Horn, Blaine E. and Edward F. Redente. 1998. Soil nitrogen and plant cover of an old-field on the shortgrass steppe in southeastern Colorado. *Arid Soil Res. and Rehab.* 12:193-206.
- Klein, D. A., M. W. Paschke, and E. F. Redente. 1998. Assessment of fungal-bacterial development in successional shortgrass steppe by direct integration of chloroform-fumigation extraction and microscopically derived data. *Soil Biology and Biochemistry* 30:573-581.
- Pierce, B. L., E. F. Redente, K. A. Barbarick, R. B. Brobst, and P. Hegeman. 1998. Plant biomass and elemental changes in shrubland forages following biosolids application. *J. Environmental Quality* 27:789-794.
- Levy, David B., E. F. Redente, and G. D. Uphoff. 1999. Phytotoxicity assessment of native grasses growing in Pb-Zn tailings Tri-State Mining District, USA. *Soil Science* 164:363-375.

- Ippolito, J. A., K. A. Barbarick, and E. F. Redente. 1999. Co-application effects of water treatment residuals and biosolids on two range grasses. *J. Environmental Quality* 28:1644-1650.
- Redente, E. F. and W. R. Keammerer. 1999. Use of native plants for mined land reclamation. p. 957-961. *In* D. Eldridge and D. Freudenberger eds. *People and Rangelands Building the Future*. VI International Rangeland Congress. Townsville, Queensland, Australia.
- Stevenson, Bryan, Terry McLendon, and Edward F. Redente. 2000. Effects of soil fumigation and seeding regimes on secondary succession in a semiarid shrubland. *Arid Soil Res. And Rehab.* 14:87-99.
- Paschke, Mark W., Terry McLendon, and Edward F. Redente. 2000. Nitrogen availability and old-field succession in a shortgrass steppe. *Ecosystems* 3:144-158.
- Paschke, Mark W., Claire DeLeo, and Edward F. Redente. 2000. Revegetation of roadcut slopes in Mesa Verde National Park. *Restoration Ecology* 8:276-282.
- Paschke, Mark W., Edward F. Redente, and David B. Levy. 2000. Zinc toxicity thresholds for important reclamation grass species of the western United States. *Environmental Toxicology and Chemistry* 19:2751-2756.
- Sydnor, Russell S. and Edward F. Redente. 2000. Long-term plant community development on topsoil treatments overlying a phytotoxic growth medium. *J. Environmental Quality* 29:1778-1786.
- Grantham, W. P., E. F. Redente, C. F. Bagley, and M. W. Paschke. 2001. Tracked vehicle impacts to vegetation structure and wind erodability of soils. *J. Range Manage.* 54:711-716.
- Newman, G. J. And E. F. Redente. 2001. Long-term plant community development as influenced by revegetation techniques. *J. Range Manage.* 54:717-724.
- Meyer, V. A., E. F. Redente, K. A. Barbarick, and B. Brobst. 2001. Biosolids applications affect runoff water quality following forest fire. *J. Environmental Quality* 30:1528-1532.
- Redente, E. F., H. Zadeh, and M. W. Paschke. 2002. Phytotoxicity of smelter-impacted soils in southwest Montana, USA. *Environmental Toxicology and Chemistry* 21:269-274.
- Ippolito, J.A., K. A. Barbarick, and E. F. Redente. 2002. Combinations of water treatment residuals and biosolids affect two range grasses. *Commun. Soil Science Plant Anal.* 33:831-844.
- Winter-Sydnor, M. E. and E. F. Redente 2002. Reclamation of high-elevation acidic mine waste with organic amendments and topsoil. *J. Environmental Quality* 31:1528-1537.
- Paschke, Mark W. and Edward F. Redente. 2002. Copper toxicity thresholds for important reclamation grass species of the western United States. *Environmental Toxicology and Chemistry* 21:2692-2697.



- Paschke, M. W., E. F. Redente, and S. L. Brown. 2003. Biology and establishment of mountain shrubs on mining disturbances in the Rocky Mountains, USA. *Land Degradation & Development* 14:459-480.
- Ippolito, J.A., K.A. Barbarick, D.M. Heil, J.P. Chandler, and E.F. Redente. 2003. Phosphorus retention mechanisms of a water treatment residual. *J. Environ. Qual.* 32:1857-1864.
- Lair, Kenneth D. and Edward F. Redente. 2004. Influence of auxin and sulfonylurea herbicides on seeded native communities. *J. Range Management* 57:211-218.
- Barbarick, K.A., K. G. Doxtader, E. F. Redente, and R. B. Brobst. 2004. Biosolids effects on microbial activity in shrubland and grassland soils. *Soil Science* 169:176-187.
- Meyer, V. F., E. F. Redente, K. A. Barbarick, R. B. Brobst, M. W. Paschke, and A. L. Miller 2004. Plant and soil responses to biosolids application following forest fire. *J. Environmental Quality* (33:873-881).
- Paschke, M.W., A. Valdecantos and E.F. Redente. 2005. Manganese toxicity thresholds for important restoration grass species of the Western United States. *Environmental Pollution* 135:313-322.
- Ippolito, J. A., E. F. Redente, and K.A. Barbarick. 2005. Amendment effects on pH and salt content of bauxite residue. *Soil Science* 170:832-841.
- Paschke, M.W., K. Topper, R.B. Brobst and E.F. Redente. 2005. Long-term effects of biosolids on revegetation of disturbed sagebrush steppe in Northwestern Colorado. *Restoration Ecology* 13:545-551.
- Paschke, Mark W., Laura G. Perry, and E.F. Redente. 2006. Zinc toxicity thresholds for reclamation forb species. *Water, Air and Soil Pollution*. 170:317-330.
- Meiman, P.J., E.F. Redente and M.W. Paschke. 2006. The role of the native soil community in the invasion ecology of spotted (*Centaurea maculosa* auct. non Lam.) and diffuse (*C. diffusa* Lam.) knapweed. *Applied Soil Ecology* 32:77-88.
- Paschke, Mark W., Alejandro Valdecantos, and Edward F. Redente. 2009. Manganese toxicity thresholds for important reclamation forb species of the western United States. *J. Environmental Quality* (*accepted*).
- Meiman, Paul J., Edward F. Redente and Mark W. Paschke. 2009. Diffuse knapweed (*Centaurea diffusa* Lam.) seedling emergence and establishment in a Colorado grassland. *Plant Ecology* 201:631-638.
- Perry, Laura, Dana Blumenthal, Thomas Monaco, Mark Paschke, and Edward Redente. 2010. Immobilizing nitrogen to control plant invasion. *Oecologia* 163:13-24.

**Book Chapters**

- Redente, E. F., W. J. Ruzzo, C. Wayne Cook, and W. A. Berg. 1980. Retorted oil shale characteristics and reclamation, p. 169-200. In K. K. Peterson, ed. Oil Shale, The Environmental Challenges. Colorado School of Mines Press, Golden.
- Redente, E. F., and T. B. Doerr. 1982. Revegetation research on retorted oil shale materials, p. 215-244. In Kathy Kellogg Peterson, ed. Oil Shale, The Environmental Challenges II. Colorado School of Mines Press, Golden.
- Klein, D. A., D. L. Sorenson, and E. F. Redente. 1985. Soil enzymatic approaches to oil shale reclamation, p. 141-171. In R. L. Tate and D. A. Klein, eds. Soil Reclamation Processes. Microbiological Analyses and Applications. Marcel Dekker, Inc.
- Smith, Peter L., Edward F. Redente, and Everett Hooper. 1987. Soil organic matter, p. 185-214. In R. Dean Williams and Gerald E. Schuman, eds. Reclaiming Mine Soils and Overburden in the Western United States, Analytic Parameters and Procedures. Soil Conservation Society of America. Ankeny, Iowa.
- DePuit, Edward J., and Edward F. Redente. 1988. Ecosystem dynamics on reconstructed semiarid lands, p. 162-204. In Edith Allen, ed. Reclamation of Disturbed Arid Ecosystems. Westview Press.
- Redente, Edward F., and Edward J. DePuit. 1988. Reclamation of drastically disturbed rangelands, p. 559-584. In Paul T. Tueller, ed. Vegetation Science Applications for Rangelands Analysis and Management. Kluwer Academic Pub.
- Reeves, F. B., and E. F. Redente. 1990. The importance of mutualism in succession, p. 423-442. In J. Skujins, ed. Semiarid Lands and Deserts: Soil Resource and Reclamation. Marcel Dekker, Inc.
- Biondini, M. E., P. W. Mielke, Jr., and E. F. Redente. 1991. Permutation techniques based on euclidean analysis space: a new and powerful statistical method for ecological research, p. 221-240. In E. Feoli and L. Orloci, eds. Handbook of Vegetation Science: Computer Assisted Vegetation Analysis. Kluwer Academic Pub.
- Redente, E. F. and R. I. Barnhisel. 2000. Reclamation of oil shales. p. 775-799. *In* R. I. Barnhisel, W. L. Daniels, and R. G. Darmody, eds. Reclamation of Drastically Disturbed Lands. American Society of Agronomy. Madison, WI.
- Schuman, Gerald and Edward F. Redente. 2002. Rehabilitation of mined surfaces. p. 147-156 *In* Grice, A. C. and K. C. Hodgkinson, eds. Global Rangelands, Progress and Prospects. CABI Publishing, New York, NY.