

# DENISE A. BATTLES

**Work Address** Office of the Dean  
College of Natural and Health Sciences  
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**Education** Management Development Program (1999)  
Harvard Institutes for Higher Education  
Harvard University, Cambridge, Massachusetts

Ph.D., Geology (1990)  
University of California, Los Angeles, California  
Dissertation: The hydrothermal evolution of the Shamrock batholith,  
western Nevada, and the origin of sodium-rich alteration in the western  
United States.  
Advisor: Dr. Mark D. Barton

A.B., Geology, with honors (1984)  
Colgate University, Hamilton, New York

## Academic Experience

### University of Northern Colorado

Professor of Geology, Tenured (2005 to present)

### Georgia Southern University

Professor of Geology, Tenured (2003 to 2005)  
Associate Professor of Geology, Tenured (1996 to 2003)  
Temporary Project Supervisor, Dept. of Geology and Geography "Nitrates in Well-water" grant  
(Summer 1991)  
Assistant Professor of Geology, Tenure-Track (1990 to 1996)

### University of California, Los Angeles

Research Assistant for Dr. Mark D. Barton (Summer quarter 1989)  
H and O stable isotope lines, calibration and operation (July 1986 to August 1990)

Teaching Assistant, 12 courses for the Department of Earth and Space Sciences, Department of Chemistry, and The Honors Collegium (January 1985 to December 1989)  
Research Assistant for Dr. W. Gary Ernst (Fall quarter 1984 and Spring quarter 1985)

### **Colgate University**

XRF/XRD operation, student assistant (September 1983 to June 1984)  
Research assistant for Dr. Cynthia Evans (September 1983 to June 1984)

## **Administrative Experience**

### **University of Northern Colorado**

*College of Natural and Health Sciences*  
Dean (July 2005 to present)

### **Auburn University**

*Office of the President*

American Council on Education (ACE) Fellow (August 2000 to June 2001)

Assignment in the President's Office under the mentorship of President William V. Muse.

### **Georgia Southern University**

*Allen E. Paulson College of Science and Technology*

Associate Dean, Faculty and Research Programs (July 2003 to June 2005)

Associate Dean, Research and Budget (July 1999 to June 2003)

Assistant Dean, Research and Budget (July 1997 to June 1999)

Assistant Dean (March 1996 to June 1997)

Acting Assistant Dean (September 1995 to February 1996)

Acting Assistant to the Dean (July 1994 to August 1995)

## **Professional Affiliations and Positions Held**

American Council on Education (2000 to present)

Executive Committee of the Council of Fellows, Member (2010 to present)

Nominating Committee for the Executive Board of the Council of Fellows, Member (2009 to 2011)

Executive Board of the Council of Fellows, Member (2009 to present)

Professional Development Committee of the Council of Fellows, Member (2007 to present) and Co-Chair (2010 to present)

Association of Schools of Public Health

Undergraduate Public Health Learning Outcomes Development Project, Member of Core Workgroup for Domain 1: Knowledge of Human Cultures and the Physical and Natural World as it Relates to Individual and Population Health (2010 to 2011)

Council of Colleges of Arts and Sciences (1995 to present)  
CCAS ADVANCE Initiative Standing Committee, Chair (2009 to present)  
Past-President (2009 to 2010)  
President (2008 to 2009)  
Case Study Committee for the 2007 Annual Meeting, Chair  
Case Study Committee for the 2006 Annual Meeting, Member  
Associate/Assistant Deans Committee, Board Liaison (2005 to 2008)  
Board of Directors, Elected Member (2004 to 2008)  
Program Committee for the 2003-2005, 2007 and 2008 Annual Meetings, Member  
Comprehensive Universities Committee, Member (2000 to 2002)

Geological Society of America (1991 to present)  
Minorities and Women in the Geosciences Committee, Member-at-Large (2003 to 2006)  
Georgia Southern University Campus Liaison (1995 to 2000)

Georgia ArtSci Deans (1994 to 1999)  
National Association of Geoscience Teachers (1999 to present)  
Oakland University  
External Support Group for NSF ADVANCE grant, member (2011 to present)  
Project Kaleidoscope Faculty for the 21st Century (1997 to present)

## **Honors and Awards**

Selected as the recipient of the “Shattering the Glass Ceiling” pin at the Breakfast for Women Deans, Annual Meeting of the Council of Colleges of Arts and Sciences (2004)  
American Council on Education (ACE) Fellow, 2000-2001  
Project Kaleidoscope Faculty for the 21<sup>st</sup> Century, Class of 1997  
Commendation for teaching, Introduction to Earth Science, Honors section, UCLA (Fall quarter 1988)  
Commendation for teaching, Fundamentals of Earth Science, UCLA (Winter quarter 1987)  
Fellowship, Dept. Earth and Space Sciences, UCLA (several quarters, 1984 to 1990)  
Magna cum laude graduate, Colgate University (1984)  
Phi Beta Kappa, Colgate University (1984)  
Departmental Honors, Department of Geology, Colgate University (1984)  
Phi Eta Sigma Freshman Honor Society, Colgate University (1982)

## **Publications**

Battles, D.A., 2010, The case for climate change: STEM women in the academy: CCAS Newsletter, v. 32, no. 1, p. 1 and 6-10.

Rich, F.J., Chance, C., and Battles, D.A., 2007, Effecting institutional change in faculty roles, rewards, and recognition – A case from Georgia Southern University: Widening Participation and Lifelong Learning, v. 9, p. 47-50.

- Battles, D.A., and Hudak, J.R., 2005, An interdisciplinary approach to art and science: A college course on art and geology: *in* Stokrocki, M., ed., *Interdisciplinary Art Education: Building Bridges to Connect Disciplines and Cultures*, National Art Education Association, Reston, Virginia, p. 77-89.
- Battles, D.A., and Hudak, J.R., 2005, Exploring the interrelationships of art and geology through a course module on European ice age cave art: *Journal of Geoscience Education*, v. 53, p. 176-183.
- Battles, D.A., Franks, M.E., Morrison-Shetlar, A.I., Orvis, J.N., Rich, F.J., and Deal, T.J., 2003, Environmental literacy for all students: Evaluation of environmental science courses developed for a new core curriculum: *Journal of College Science Teaching*, v. 32, p. 458-465.
- Battles, D.A., and Welford, M.R., 2000, An assessment of combined academic geology and geography departments based on a survey of department chairs: *Journal of Geoscience Education*, v. 48, p. 641-650.
- Battles, D.A., 2000, The use of notecards as a technique for enhancing the quality of large introductory classes: *Journal of Geoscience Education*, v. 48, p. 30-32.
- Evans, M.A., and Battles, D.A., 1999, Fluid inclusion and stable isotope analyses of veins from the central Appalachian Valley and Ridge province: Implications for regional synorogenic hydrologic structure and fluid migration: *Geological Society of America Bulletin*, v. 111, no. 12, p. 1841-1860.
- Evans, M.A., and Battles, D.A., 1997, Regional syn-orogenic fluid migration in the central Appalachians: Fluid geochemistry and fluid migration pathways: *in* Hendry, J. P., Carey, P.F., Parnell, J., Ruffell, A.H., and Worden, R.H., eds., *Contributions to the Second International Conference on Fluid Evolution, Migration and Interaction in Sedimentary Basins and Orogenic Belts*, Belfast, Ireland, p. 85-88.
- Battles, D.A., and Barton, M.D., 1995, Arc-related sodic hydrothermal alteration in the western United States: *Geology*, v. 23, p. 913-916; accompanying Data Repository Item 9547 available from the Geological Society of America.
- Battles, D.A., 1991, Hydrothermal alteration within the tilted Shamrock batholith, Yerington district, Nevada, *in* Raines, G.L., Lisle, R.E., Schafer, R.W., and Wilkinson, W.H., eds., *Geology and Ore Deposits of the Great Basin Symposium Proceedings*, Geological Society of Nevada, p. 351-353.
- Meek, N. and Battles, D.A., 1991, Displacement along the Manix fault, San Bernardino County, California: *California Geology*, v. 44, p. 33-38.
- Barton, M.D., Battles, D.A., Bebout, G.E., Capo, R.C., Christensen, J.N., Davis, S.R., Hanson, R.B., Michelsen, C.J., and Trim, H.E., 1988, Mesozoic contact metamorphism in the

western United States, *in* Ernst, W.G., ed., *Metamorphism and Crustal Evolution of the Western United States*, Rubey Volume VII; Englewood Cliffs, New Jersey, Prentice Hall, p. 110-178.

## **Educational Materials Development**

Battles, D.A., and Hudak, J.R., *Art and Geology*, 2007. A college-level textbook prototype, the initial development of which was undertaken with the support a National Science Foundation Course, Curriculum, and Laboratory Improvement (CCLI) Educational Materials Development grant (see Grants Awarded).

## **Published Abstracts**

Battles, D.A., and Hudak, J.R., 2007, Supporting student learning of geoscience concepts through non-traditional means: A prototypal textbook on art and geology: *Geological Society of America Abstracts with Programs*, v. 39, p. 551.

Battles, D.A., Hudak, J.R., and Zinskie, C.D., 2006, Development of innovative instructional materials for a prototypal art and geology textbook: *Geological Society of America Abstracts with Programs*, v. 38, p. 218.

Battles, D.A., and Hudak, J.R., 2005, Development, implementation, and evaluation of educational materials for an introductory-level art and geology course: *Geological Society of America Abstracts with Programs*, v. 37, p. 85.

Battles, D.A., and Hudak, J.R., 2004, Exploring the interdisciplinary connections of geology and art: A course module on jewelry, gems, and metalsmithing: *Geological Society of America Abstracts with Programs*, v. 36, p. 220.

Battles, D.A., and Hudak, J.R., 2004, Educational materials development for a general education course on art and geology: *Invention and Impact: Building Excellence in Undergraduate Science, Technology, Engineering and Mathematics (STEM) Education*, A conference of the National Science Foundation's Course, Curriculum, and Laboratory Improvement (CCLI) Program, April 16-18, 2004, Crystal City, Virginia, p. 45.

Battles, D.A., and Hudak, J.R., 2003, An interdisciplinary approach to teaching introductory geology: A course on art and geology: *Geological Society of America Abstracts with Programs*, v. 35, p. 155.

Battles, D.A., and Hudak, J.R., 2002, Exploring the interdisciplinary connections of geology and art: A course module on European ice age cave art: *Geological Society of America Abstracts with Programs*, v. 34, p. 199.

- Battles, D.A., Reichard, J.S., Rich, F.J., and Franks, M.E., 2001, Environmental literacy for all students: Assessment of environmental science courses in a new core curriculum: Geological Society of America Abstracts with Programs, v. 33, p. 242.
- Battles, D.A., Rich, F.J., Reichard, J.S., Darrell, J.H., and Vance, R.K., 1999, Enhancement of geology curriculum and research and service activities through the installation of an on-campus piezometer network: Geological Society of America Abstracts with Programs, v. 31, p. 145.
- Battles, D.A., Reichard, J.S., Rich, F.J., and Darrell, J.H., 1999, In pursuit of environmental literacy: Development of the environmental geology component in a new core curriculum: Geological Society of America, Southeastern Section, Abstracts with Programs, v. 31, p. 4.
- Welford, M.R., and Battles, D.A., 1997, Faculty satisfaction with the combined Geology-Geography department: Association of American Geographers Abstracts, v. 93, p. 282-283.
- Battles, D.A., and Welford, M.R., 1996, The combined geology and geography department: An evaluation based on surveys of department chairs: Geological Society of America Abstracts with Programs, v. 28, p. 163.
- Evans, M.A., and Battles, D.A., 1996, Characterization of a late Alleghanian fluid migration event in the central Appalachians: Geological Society of America, Northeastern Section, Abstracts with Programs, v. 28, p. 52.
- Battles, D.A., and Evans, M.A., 1994, Fluid geochemistry and fluid migration pathways during the Alleghanian orogeny, central Appalachians: Geological Society of America Abstracts with Programs, v. 26, p. 182.
- Evans, M.A., and Battles, D.A., 1994, Bed-parallel calcite veins in the core of the Wills Mountain anticline: Implications for deformation conditions and fluid flow during the Alleghanian orogeny: Geological Society of America Abstracts with Programs, v. 26, p. 12-13.
- Evans, M.A., and Battles, D.A., 1993, Structural and stratigraphic controls on fluid distribution in the central Appalachian Valley and Ridge Province during the Alleghanian orogeny: Geological Society of America Abstracts with Programs, v. 25, p. 167.
- Battles, D.A., 1993, Sodic-calcic alteration in an arc environment: A case study at the Buffalo Mountain pluton, north-central Nevada: Geological Society of America Abstracts with Programs, v. 25, p. 203.
- Battles, D.A., 1992, Oxygen and hydrogen isotope examination of sodic and sodic-calcic alteration in Mesozoic arc igneous rocks, western U.S.: Geological Society of America Abstracts with Programs, v. 24, p. 215.

Barton, M.D., Hassanzadeh, J., Marikos, M.A. and, Battles, D.A., 1991, Magnetite-apatite-REE mineralization in the Great Basin: Geological Society of America Abstracts with Programs, v. 23, p. 292.

Meek, N. and Battles, D.A., 1990, Evidence for approximately 5.2 km of left-lateral displacement on the Manix fault, central Mojave Desert, California: Geological Society of America, Cordilleran Section, Abstracts with Programs, v. 22, p. 68.

Battles, D.A., 1990, Metasomatic alteration within a tilted batholith, Yerington district, Nevada, *in* Schafer, R. W. and W. H. Wilkinson, eds., Geology and Ore Deposits of the Great Basin Symposium, Program with Abstracts, Geological Society of Nevada, p. 113.

Battles, D.A. and Barton, M.D., 1989, Na-Ca hydrothermal alteration in the western Great Basin: EOS, v. 70, p. 1382.

Barton, M.D., Battles, D.A., Bebout, G.E., Capo, R.C., Christensen, J.N., Hanson, R.B., Michelsen, C.J., and Trim, H.E., 1987, Mesozoic contact metamorphism in the western United States: Geological Society of America Abstracts with Programs, v. 19, p. 582.

## **Other Conference Presentations and Contributions**

Battles, D.A. (presider), Gasparich, G., (presenter, Towson University), Nave, F. (presenter, Prairie View A&M University), and Ross, N. (presenter, Virginia Tech). Cultivating Diverse Faculty Leadership in the STEM Disciplines: Best practices. Panel session accepted for presentation at the 2011 Annual Meeting of the Council of Colleges of Arts and Sciences, November 2011.

Battles, D.A. (presider). CCAS ADVANCE Standing Committee Meeting, scheduled for the 2011 Annual Meeting of the Council of Colleges of Arts and Sciences, November 2011.

Battles, D.A. As Co-Chair of the Professional Development Committee of the American Council on Education's Council of Fellows, served as the lead planner and organizer of the ACE Council of Fellows Weekend conference, Itasca, IL, June 3-5, 2011.

Battles, D.A. (organizer). Leading through Crises in the Digital Age. Gow, J. (presiding, University of Wisconsin – La Crosse), Benton, A. (Pepperdine University), Mellow, G.O. (LaGuardia Community College), and Ross, K.M. (Lynn University). ACE Council of Fellows' Leadership Session at the American Council on Education Annual Meeting, March 2011.

Battles, D.A. (organizer). New Media on Campus: Building Communities. Jaschik, S. (presiding, Inside Higher Ed), Caret, R. (Towson University), Farrar, C. (Purple States), Pepicello, W. (University of Phoenix) and Rosenberg, B. (Macalester College). ACE Council of Fellows' Professional Development Workshop at the American Council on Education Annual Meeting, March 2011.

- Battles, D.A. (presider), and Huffaker, L. (presenter, University of Northern Colorado).  
Workshop on Implicit Bias: How it Functions and What We Can Do to Reduce Its Impact.  
2010 Annual Meeting of the Council of Colleges of Arts and Sciences, November 2010.
- Battles, D.A. (presider), Brakke, D.F. (presenter, James Madison University), Manderscheid, D.  
(presenter, University of Nebraska-Lincoln), McCaul, K. (presenter, North Dakota State  
University), and Cid, C. (presenter, Eastern Connecticut State University). Innovative  
Practices that Support the Recruitment, Retention, and Advancement of STEM Faculty.  
2010 Annual Meeting of the Council of Colleges of Arts and Sciences, November 2010.
- Battles, D.A. (presider). CCAS ADVANCE Standing Committee Meeting at the 2010 Annual  
Meeting of the Council of Colleges of Arts and Sciences, November 2010.
- Battles, D.A. (organizer). NSF ADVANCE – Successful Strategies for Recruiting, Retaining,  
and Promoting Women in the Sciences. Poster session at the 2010 Annual Meeting of the  
Council of Colleges of Arts and Sciences, November 2010.
- Battles, D.A. (presenter), McCartan, A.-M., and Cid, C. Organizational Transformation to  
Address the Underrepresentation of Women Faculty In STEM Disciplines. Poster  
presentation at the 2010 Annual Meeting of the Council of Colleges of Arts and Sciences,  
November 2010.
- Fontenot, O. (presider and presenter) and Battles, D.A. (presenter). Case Study Leaders Meeting.  
2010 Annual Meeting of the Council of Colleges of Arts and Sciences, November 2010.
- Battles, D.A., Cid, C. (presenter), and McCartan, A.-M. Promoting Institutional Transformation  
through a National Deans' Association. Poster presentation at the Annual NSF ADVANCE  
Program Workshop "Broadening Participation and Inclusion," November 2010.
- Battles, D.A. (presiding). Annual CCAS Business Meeting. 2009 Annual Meeting of the  
Council of Colleges of Arts and Sciences, November 2009.
- Battles, D.A. (presiding and presenting), Morrobel-Sosa, A. (presenting, University of Texas – El  
Paso), and Dampousse, K. (presenting, University of Oklahoma). The NSF ADVANCE  
Program: Lessons Learned from Institutional Transformation Efforts. Panel presentation at  
the 2009 Annual Meeting of the Council of Colleges of Arts and Sciences, November 2009.
- Battles, D.A. (presiding) and Hartle, T. (presenting, American Council on Education). Opening  
Plenary Session. 2009 Annual Meeting of the Council of Colleges of Arts and Sciences,  
November 2009.
- Battles, D.A. (presiding and presenting) and Bell, P.B., Jr. (presenting). Welcome Session for  
Newcomers. 2009 Annual Meeting of the Council of Colleges of Arts and Sciences,  
November 2009.

Battles, D.A., (presiding) and Scarboro, D. (George Washington University). Sunshine State University Case Study: Framing the Issue and Sunshine State University Case Study: Integrating Perspectives. Contributed to case study development and presided over the case study session. American Council on Education's Council of Fellows Weekend conference, June 2009.

Battles, D.A. (presiding) and Laschever, S. (presenting; co-author, *Women Don't Ask: Gender and Negotiation*). Networking Breakfast for Women and Men. Women and Negotiation: Necessary Power. Presentation at the 2008 Annual Meeting of the Council of Colleges of Arts and Sciences, November 2008.

Battles, D.A. (presiding) and Moen, M. (presenting). CCAS Luncheon and Presidential Address. Aristotle in an Era of Accountability. Address at the 2008 Annual Meeting of the Council of Colleges of Arts and Sciences, November 2008.

Gould, L.J., (presiding; Northern Arizona University - Yuma), Battles, D.A. (presenting), Snyder, L. (presenting, Western Kentucky University), Leichter, C.G.S. (presenting, The College of New Jersey), Burgus Little, S. (presenting, San Diego State University), Young, L. (presenting, Northern Arizona University - Yuma), Caskey, B.J. (presenting, University of Wisconsin – River Falls, and Elmore, W. (presenting, Marshall University). Deans and Associate Deans Working Together. Panel presentation at the 2008 Annual Meeting of the Council of Colleges of Arts and Sciences, November 2008.

Battles, D.A. (organizer; presiding), Rutledge Shields, V. (presiding), and S. McCorkle (presenting), Pre-Conference Professional Development Workshop. Conflict Management for Deans. Full-day workshop at the 2008 Annual Meeting of the Council of Colleges of Arts and Sciences, November 2008.

Chance, C., Rich, F.J., and Battles, D.A., Bridging democratic practice, inquiry, and education policy to support simultaneous renewal: Presentation at the Conference on Education Renewal and School Development in an Era of Cultural Diversity, Wuhan, China, May 2008.

Chance, C., Rich, F.J. (presenting), and Battles, D.A., Rewarding faculty (COE & A&S) work in schools: Creating a positive climate for teacher education. Presentation at the 2008 Annual Meeting of the American Association of Colleges for Teacher Education, February 2008.

Klein, J. (presiding; Texas A&M University – Commerce), Sudol, R. (presenting, Oakland University), Battles, D.A. (presenting), and Zaharopoulos, T. (presenting, Park University). Evaluating probationary faculty. Panel presentation at the 2007 Annual Meeting of the Council of Colleges of Arts and Sciences, November 2007.

Battles, D.A. (presiding) and C. Johnson-Odim (presenting; Dominican University). Breakfast for Women Deans. Presentation at the 2007 Annual Meeting of the Council of Colleges of Arts and Sciences, November 2007.

Battles, D.A. (organizer; presiding), Potvin, M. (presiding), and Suzanne McCorkle (presenting), Pre-Conference Professional Development Workshop. Conflict Management for Deans. Full-day workshop at the 2007 Annual Meeting of the Council of Colleges of Arts and Sciences, November 2007.

Chance, C., Rich, F.J., and Battles, D.A., Rewarding faculty (COE & A&S) work in schools: Bridges to positive climates for teacher education. Presentation at the 2007 National Network for Educational Renewal Annual Conference, October 2007.

Moore, T. (presiding panelist and presenting; Kent State University), van der Vorm, P., (presenter; Academic Search Consultation Service), and Battles, D.A. (presenting). Assistant and associate deans: The transition to deanship. Presentation at the Annual Meeting of the Council of Colleges of Arts and Sciences, November 2005.

Battles, D.A., and Hudak, J.R. (workshop co-leaders). Teaching introductory geology with art: Sharing effective materials and activities. K-16 Education Workshop offered at the 2005 Annual Meeting of the Geological Society of America, with sponsorship by the National Association of Geoscience Teachers and National Science Foundation.

Carrasco, M.A., and Battles, D.A. (topical session co-chairs). Minorities, women, and persons with disabilities in the geosciences: Avenues to success. Topical session offered at the 2005 Annual Meeting of the Geological Society of America.

Battles, D.A. (presiding panelist and presenting), Hudak, J.R. (presenting; Georgia Southern University), and Prezant, R.S. (presenting; Montclair State University). Differentiated faculty workloads: Models for individualized faculty effort. Presentation at the Annual Meeting of the Council of Colleges of Arts and Sciences, November 2004.

Battles, D.A. (presiding), and Mowoe, I.J. (presenting; The Ohio State University). Legal issues – The Civil Rights Act of 1964, the Equal Protection Clause of the Fourteenth Amendment, and Affirmative Action. Session at the Annual Meeting of the Council of Colleges of Arts and Sciences, November 2003.

Battles, D.A. (presiding panelist and presenting), and Fenwick, B. (presenting; Kansas State University). Differentiated faculty workloads: Putting theory into practice. Panel presentation at the Annual Meeting of the Council of Colleges of Arts and Sciences, November 2002.

Battles, D.A., Morrison-Shetlar, A.I., Orvis, J.N., Rich, F.J., and Franks, M.E. (presenting), 2001, Environmental literacy for all undergraduates: Evaluation of core curriculum environmental science courses. Presentation at the American Educational Research Association Annual Meeting, April 2001.

Franks, M.E. (presenting), Morrison-Shetlar, A.I., Battles, D.A., Orvis, J., Rich, F., and Ma, L., 1999, Environmental literacy for all students: New environmental science courses for undergraduates. Roundtable presentation at the American Educational Research Association Annual Meeting, April 1999.

## **Invited/Featured Talks**

“New Trends in Faculty Development,” invited panel presenter, 2011 National Science Foundation ADVANCE Meeting – 10 Years of Broadening Participation and Inclusion, Alexandria, Virginia. Scheduled for November 14, 2011.

"The CCAS ADVANCE Initiative: Promoting Institutional Transformation through a National Association of Academic Deans," invited speaker, National Science Foundation Distinguished Lecture, Arlington, Virginia (April 19, 2010)

"The case for climate change: STEM women in the academy," Presidential Address, Council of Colleges of Arts and Sciences Annual Meeting, Baltimore, Maryland (November 13, 2009)

"An Introductory-Level Art and Geology Course: Development, Implementation, and Evaluation of Educational Materials," invited speaker at the Earth Sciences Seminar, University of Northern Colorado (September 7, 2007)

"Faculty roles and rewards: Models for individualization of faculty workload," invited speaker, presentation to faculty members and academic affairs administrators, North Georgia College and State University (March 31, 2005)

Invited speaker at the Department of Geology Departmental Seminar, Colgate University (October 9, 1997)

Invited speaker at the Department of Geology Departmental Seminar, Georgia State University (February 28, 1996)

"Sodium-rich hydrothermal alteration in Mesozoic arc rocks of the western United States," invited speaker at the Department of Earth Sciences Departmental Seminar, University of North Carolina at Wilmington (April 1994)

"Sodic hydrothermal alteration in Mesozoic igneous rocks of the western U.S.," invited speaker at the Department of Geology Journal Club, University of Georgia (March 1993)

Invited speaker at the Georgia Southern University chapter of Sigma Xi (October 1992)

## **Grants Awarded**

National Science Foundation ADVANCE program, Partnerships for Adaptation, Implementation, and Dissemination (PAID) track. Awarded \$1,170,023 for "The CCAS ADVANCE Initiative: Promoting Institutional Transformation through a National Deans' Association." Collaborative award involving the University of Northern Colorado, Eastern Connecticut State University, the University of Washington, and the College of William and Mary. Total

project award amount \$1,210,247. Denise A. Battles (PI) and Carmen Cid (Co-PI, Eastern Connecticut State University) and Anne-Marie McCartan (PI, College of William and Mary). (2009-2013)

National Science Foundation Course, Curriculum, and Laboratory Improvement (NSF-CCLI) Grant DUE-0611600. Awarded \$24,417 for "Proof of Concept: Educational Materials Development for a General Education Course on Art and Geology." [This award reflects the transfer to the University of Northern Colorado of the grant listed immediately below.] Denise A. Battles (PI/PD) and Jane R. Hudak (2006-2007)

National Science Foundation Course, Curriculum, and Laboratory Improvement (NSF-CCLI) Grant DUE-0231106. Awarded \$74,968 for "Proof of Concept: Educational Materials Development for a General Education Course on Art and Geology." Denise A. Battles (PI/PD) and Jane R. Hudak (2003-2006)

National Science Foundation Course and Curriculum Development (NSF-CCD) Grant DUE-9752602. Awarded \$150,000 for "Environmental Literacy for All Students: Development of Environmental Science Courses in a New Core Curriculum." Denise A. Battles (PI/PD), Alison Morrison-Shetlar (interim PI/PD during the period of Battles' ACE Fellowship), Jessica Orvis, Li Ma, and Fredrick Rich (1998-2001)

National Science Foundation Academic Research Infrastructure (NSF-ARI) Grant OIA-9602776. Awarded \$900,000 for "Renovation of Chemistry and Geology Research Facilities, Georgia Southern University." Project was supplemented by \$250,000 in state funds from the University System of Georgia; project total with institutional match was \$1,380,913. Denise A. Battles (PI/PD), Bill W. Ponder, Fredrick Rich, and Shedrick Coleman (1997-1999)

Grant for the Development of Instruction, Georgia Southern University. Awarded \$1,200 for development of Optical Mineralogy course (November 1994)

Grant for Professional Travel, Faculty Development and Welfare, Georgia Southern University. Awarded \$1,000 (June 1994)

Faculty Development Summer Award, Georgia Southern University. Awarded \$3,000 for development of the new course, Geology of the National Parks (March 1994)

Faculty Research Grant, Georgia Southern University. Awarded \$2,500 for "A Petrographic and Geochemical Investigation of Sodic-Calcic Alteration in Arc Igneous Rocks, Western United States" (November 1993)

Grant for the Development of Instruction, Georgia Southern University. Awarded \$1,800 for development of Optical Mineralogy course (November 1992)

Grant for Professional Travel, Faculty Development and Welfare, Georgia Southern University. Awarded \$500 (November 1992)

Foundation Fellowship and Research Sabbatical, Georgia Southern University. Awarded \$5,000 plus one-third sabbatical (\$1,650) for "An Investigation of Sodic-calcic Hydrothermal Alteration at the Buffalo Mountain Pluton, North-central Nevada" (February 1992)

National Science Foundation Research in Undergraduate Institutions (NSF-RUI) Grant EAR-9119092. Awarded \$54,693 for "Fluid Migration Pathways and Fluid Evolution in the central Appalachians: Implications for Hydrodynamics within a Foreland Fold-Thrust Belt." Mark A. Evans (PI/PD) and Denise A. Battles (1992-1994)

Faculty Research Grant, Georgia Southern University. Awarded \$2,440 for "Trace Element Characterization of Sodically Altered Rocks, Western United States" (November 1990)

## **Editorial Services and Professional Reviews**

Editorial Board member for:

Journal of Diversity in Higher Education (named member of incoming Board, May 2011)

Manuscript reviews completed for:

Economic Geology (multiple, 1997, 2000, and 2004)

Geology (2002)

Journal of Diversity in Higher Education (multiple, 2010 and 2011)

Journal of Geography (multiple, 1999)

Journal of Geoscience Education (2005)

Mineralogical Association of Canada Short Course volume (1995)

Grant proposal reviews completed for:

American Chemical Society Type AC proposal (multiple, 2000 and 2003)

American Chemical Society Type B proposal (1997)

National Science Foundation, ADVANCE Program (2011)

National Science Foundation, Assessment of Student Achievement in Undergraduate Education Program (multiple, 2001 and 2002)

National Science Foundation, Course, Curriculum, and Laboratory Improvement Program, including service as panel chair (1999, 2004, and 2006)

National Science Foundation, Directorate for Geosciences, Geoscience Education Program (multiple, 2008)

National Science Foundation, Instrumentation and Laboratory Improvement Program (1998)

National Science Foundation, Office of Multidisciplinary Activities, Directorate for Mathematical and Physical Sciences (2006)

National Science Foundation, Opportunities for Enhancing Diversity in the Geosciences (2009)

National Science Foundation, Petrology and Geochemistry Division (multiple, 1994)

National Science Foundation, Science Technology, Engineering, and Mathematics Talent Expansion (STEP) Program (2002)

National Science Foundation, Tectonics Division (1994)

Textbook reviews completed for:

Physical Geology textbook review for West Educational Publishing (1995)  
"Interpreting Earth History," 5th edition, by Petersen and Rigby. Laboratory manual review for William C. Brown Publishers (1991)

Other reviewing services:

Reviewer of nomination and application materials, American Council on Education (ACE) Fellows Program (2002)

## **Teaching**

Courses taught at Georgia Southern University:

General Physical Geology / Introduction to the Earth, lecture and laboratory  
General Historical Geology, lecture and laboratory  
Environmental Geology laboratory  
Elementary Crystallography and Mineralogy, lecture and laboratory  
Optical Mineralogy, lecture and laboratory  
Introduction to Research  
Selected Problems in Geology (now titled Bachelor of Science Senior Thesis Research)  
Introduction to Geochemistry \*  
Geology of the National Parks \*  
Art & Geology \* (a team-taught course offered through the Bell Honors Program)  
Art in Life\* (a team-taught and geology-themed section of this core curriculum course)

\* responsible for initial course development and instruction

## **Academic and Professional Service (selected items listed)**

### **University of Northern Colorado**

#### ***College committees and activities***

Co-Chair, College of Natural and Health Sciences Advisory Board (2009 to present)  
Member, Internal Advisory Committee for Biological Sciences' NSF Science, Technology, Engineering, and Mathematics Talent Expansion Program grant  
Chair, Winchester Distinguished Professorship Committee (2006 to present)  
Member, Mathematics and Science Teaching (MAST) Institute Advisory Board (September 2005 to 2007)  
Member, Frontiers of Science Institute Advisory Board (November 2005 to 2008)  
Chair, Program Review Team (2005 to 2009)

#### ***Institutional committees and activities***

Member, Higher Learning Commission Working Team, planning group for UNC's reaffirmation of institutional accreditation (2011 to present)  
Presenter, "Faculty and Staff Performance Reviews," UNC Leadership Institute (2010)  
Member, Faculty Classification Policy Conference Committee (2010 to 2011)

Member, Search Committee for the Director of the Office of Sponsored Programs (2009)  
Member, Work Environment Task Force (February 2009 to present)  
Member, Sabbatical Leave Policy Conference Committee (2009)  
Member, Financial Aid Advisory Board (2008 to 2009)  
Member, Key Performance Indicator Committee (July 2008 to 2009)  
Member, Program Fee Committee (Spring 2008)  
Member, Cost of Attendance Committee (January to May 2008)  
Member, Capital Planning Committee (December 2007 to present)  
Member and academic dean representative, Faculty Senate Executive Committee (September 2007 to present)  
Dean representative and speaker, "Overview of academic programs at the University of Northern Colorado," presentation to prospective student athletes and parents/guardians, football recruiting weekends (2007 to 2011)  
Member, Pandemic Planning Committee (2006 to 2007)  
Member, Academic Plan Steering Team (2006 to 2008)  
Chair, Academic Plan Research Subcommittee (2006)  
Member and academic dean representative, President's Planning Council (September 2005 to June 2007)  
Member, Center for International Education, Study Abroad Advisory Board (July 2005 to 2008)

#### ***State committees and activities***

Member, Denver Public Schools' Deans' Roundtable (February 2006 to present)

#### ***Local community committees and activities***

Education Committee, University District Initiative of the City of Greeley, Colorado and the University of Northern Colorado (2011)  
Member, Centennial Rotary of Greeley (August 2007 to present)  
Co-Chair, Ambassadorial Scholarship / World Peace Fellowship Committee (fall 2008 to present)

### **Georgia Southern University**

#### ***Departmental committees and activities***

Member, departmental committee to develop geology and geography assessment instruments for graduating seniors and recent alumni (November 2002 to 2003)  
Member, Geography search committee (August 2002 to February 2003)  
Member, SWOT (Strengths, Weaknesses, Opportunities, and Threats) analysis subcommittee for the Department of Geology and Geography's Level III Strategic Plan (March 2002)  
Member, Building and Facilities Committee (August 1999 to 2002)  
Member, Igneous/Metamorphic Petrologist Search Committee (September 1996 to April 1997)  
Member, Structural Geology Search Committee. Three separate searches (October 1995 to April 1998)  
Member, Geology/Geography Curriculum Committee (January 1994 to September 1994)  
Member, Physical Geography Search Committee (October 1993 to April 1994)  
Member, H. Stanley Hanson Geology/Geography Scholarship Committee (May 1993 to May 1997)

Member, Geography Search Committee (October 1992 to April 1993)  
Chair, Geology/Geography Space Committee, Georgia Southern University (September 1992 to June 1994)  
Developer and organizer, "Lecture Over Lunch" departmental geology lecture series (September 1991 to September 1994)  
Faculty advisor, Georgia Southern University Geology Club (September 1991 to September 1998)

### ***College committees and activities***

Dean's Office Liaison and Member, Task Force on College Policies and Procedures, College of Science and Technology (January 2004 to June 2005)  
Chair, *Ad Hoc* Committee on Faculty Workload, College of Science and Technology (March 1998 to August 2000)  
Originator and coordinator, College of Science and Technology New Faculty Workshop series (October 1997 to June 2005)  
Chair and Member, Academic Excellence Committee, College of Science and Technology (September 1997 to August 2000; June 2001 to June 2005)  
Chair and Member, *ad hoc* Committee on Freshman Advisement, College of Science and Technology (June 1996 to September 1996)  
Chair and Member, Overlap/Duplication Committee. Committee developed to examine curriculum overlap and/or duplication in the Department of Industrial Technology and the College of Business Administration (December 1995 to September 1996)  
Faculty Senator, Georgia Southern University (September 1994 to September 1996)  
College Representative, Georgia Southern University Pre-Freshman Night (March 1994 and 1995)

### ***Institutional committees and activities***

Member, Task Force for the Enhancement of Research and Other Sponsored Activities at Georgia Southern University (October 2003 to November 2004)  
Chair, Institutional Task Force on Faculty Roles & Rewards (April 2002 to October 2004)  
Advisor to the Georgia Southern University Museum in support of the art and geology exhibition, "Art Rocks!" (August 2003, May 2004)  
Co-presenter with Michael Mills, Goal Setting session for incoming new students, Georgia Southern University Camp Eagle (June 10, 2000)  
Volunteer and Office Representative, A Day for Southern on Campus (September 1999)  
Academic Affairs representative on response team for the National Science Foundation (NSF) Science and Engineering Research Facilities Survey (January to March 31, 1998)  
Member, Public Service and Applied Research Committee (October 1997 to August 1998)  
Member, Institutional Marketing Committee (July 1997 to June 1998)  
Member, Research Foundation Work Group (March 1997 to January 1998)  
Academic Affairs representative, University Honors Day Committee (March 1997 to August 2000)  
Member, Consolidated Grievance Pool Panel (November 1996 to March 1997)  
Member, Summer Orientation Advisory Board (September 1996 to July 1997)  
Member, Success in You (SIU) Advisory Committee (September 1996 to July 1997)  
Member, search advisory committee for the Faculty Assistant to the Vice President for Academic Affairs (March 1996)

Member, Distance Learning Task Force (January 1996 to July 1997)  
Member, Women's Awareness Week Committee (October 1995 to April 1997)  
Member, Undergraduate Studies Committee, Georgia Southern University (October 1995 to July 1997)  
Member, Search Committee for the Department Chair of Political Science, Georgia Southern University (October 1995 to June 1996)  
Member, Advisor of the Year Selection Committee, Georgia Southern University (February 1995 to February 1997)  
Member, Committee on Registration, Georgia Southern University (January 1995 to July 1997)  
Member, Georgia Southern University Scholarship Committee (November 1994 to September 1996)  
Member, Banner Faculty Load Project Team, Georgia Southern University (November 1994 to July 1997)  
Member, Presidential Disciplinary Appeal Review Committee, Georgia Southern University. Chair on two appeals (September 1994 to May 1998)  
Panelist, Challenging Career Choices of Women, Georgia Southern University Women's Awareness Week (April 1993).  
Member, Georgia Southern University Self-study Committee on Educational Support, for Southern Association of Colleges and Schools (SACS) accreditation (October 1992 to winter 1994)

#### ***University System of Georgia committees and activities***

Member, Symposium Planning Group of the Reward Structure Committee (September 2004 to February 2005)  
Member, Reward Structure Committee, a part of the NSF-funded PRISM (Partnership for Reform in Science & Mathematics) Initiative administered by the University System of Georgia (July 2004 to June 2005)  
Member and Institutional representative, Planning Committee for the University System of Georgia 1999 Research Symposium on Promoting the Health of Georgians through Research Collaboration (October 1998 to March 1999)  
Member and Institutional representative, Planning Committee for the University System of Georgia 1998 Research Symposium on Science and Technology for a Sustainable Society (November 1997 to May 1998)  
Coordinator and Judge, Student Poster Competition, University System of Georgia Research Symposium on Science and Technology for a Sustainable Society (May 13, 1998)

#### ***Local community committees and activities***

Judge, Home Educators Regional Science Fair (January 2004)  
Judge, Georgia Science Olympiad, Regionals (March 1997)  
Judge, Bulloch County Science Fair (January 1993, 1994, and 1995)

#### ***State committees and activities***

Member and Institutional Representative, Steering Committee of the Consortium on Competitiveness for the Apparel, Carpet, and Textile Industry (CCTI), State of Georgia Traditional Industries Program (September 1996 to August 2000)  
Member and Institutional Representative, Technical Committee of the State of Georgia's Food Processing Advisory Council -- FoodPAC (August 1996 to August 2000)

Member and Institutional Representative, Steering Committee of the State of Georgia's Food Processing Advisory Council -- FoodPAC (August 1996 to August 2000)

Member and Institutional Representative, Fiber Supply Working Group of the State of Georgia's Consortium for Technological Competitiveness in Pulp and Paper (April 1996 to August 2000)

Member and Institutional Representative, Manufacturing Process Committee of the State of Georgia's Consortium for Technological Competitiveness in Pulp and Paper (August 1995 to August 2000)

Member and Institutional Representative, Coordinating Committee of the State of Georgia's Consortium for Technological Competitiveness in Pulp and Paper (August 1995 to August 2000)

Judge, First Congressional District Science and Engineering Fair, Savannah, Georgia (February 1992 and 1995)

Judge, Georgia State Science Olympiad (April 1991, 1992, and 1993)