

Joëlle Genevieve Clark

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Professional Preparation:

Northern Arizona University	Anthropology	MA	1990
Northern Arizona University	Natural Resources Interpretation	BS	1985

Employment History

August 2007 – Present	Northern Arizona University Anthropology Department: Professional Development Coordinator
1994 - Present	Northern Arizona University Center for Science Teaching and Learning: Science Education Coordinator <u>Specific Expertise and Experience in:</u> Informal and Formal Science Education; Standards-Based Curriculum Design And Development; Archaeology Education.
2002 Present	University of California Berkeley Lawrence Hall of Science: GEMS (Great Exploration in Mathematics and Science) professional development provider.
1988 - 2002	Elden Pueblo Archaeological Project Manager, Arizona Natural History Association. Supervisory archaeologist for public programs and public archaeology and education program development.
1992 - 1993	Public Education Coordinator, Animas-La Plata Archaeological Project, Department of Anthropology, Northern Arizona University. Archaeological education program development and implementation
1988-1992	Independent Consultant 1992. Instructor. Grinnell College, Archaeological Field School. 1991. Hopi Tribe. Archaeological survey project 1991. CSWTA, Inc., Environmental Consultants. Ethnographic and Archaeological Research. 1991. Anthropology Instructor. Adult Degree Program, Prescott College. 1988 – 1991 Field Archaeology Contracting 1988 - 1992 Museum of Northern Arizona. Archaeology Education Instructor.
1989	Assistant Instructor. Arizona Humanities Council and Northern Arizona University. Archaeology Plus History: Insights on the Impact of Spanish Colonization on the Navajo and Hopi.
1989 - 1990	Northern Arizona University, Archaeology Laboratory.
1986 - 1988	Instructor. Southwest Expedition Institute.
1987	Teachers Aide, Discovery Montessori School
1985 - 1989	Adventure/Discovery, Flagstaff. River Guide, San Juan River and residential counselor/educator for juveniles on probation or parole.

Current Projects

- Native Voices on the Colorado River, Program Director
- Hopi Footprints I Curriculum, Project Manager and Curriculum Director
- Hopi Footprints II, Curriculum Specialist
- Project Archaeology Curriculum Director and Evaluator
- National Park Service Traveling Trunks, Curriculum Specialist
- Lawrence Hall of Science, University of California Berkeley, GEMS Professional Development staff
- Center for Science Teaching and Learning, Northern Arizona University, Professional Development staff

Post Degree Professional Development:

- Lawrence Hall of Science, University of California Berkeley, GEMS Roots of Reading/Seeds of Science and Space Science Curriculum workshops (2007)
- National Education Summit: Proven Practices for Learning Communities (2005)
- Inquiry Institute, Exploratorium, San Francisco (2005)
- Using Data Getting Results Data Facilitator Professional Development Seminars (2001-2003)
- Using the School Portfolio for School Improvement, Victoria Bernhardt, Ph.D. (2002)
- Adaptive School: Developing Collaborative Groups - Four Hats Leadership Institute (2000)
- WestEd Eisenhower Regional Consortium Annual Conference (1997, 2000)
- GLOBE Franchise Training and Facilitation (1999)
- GEMS (Great Explorations in Math and Science) Associate I & II(1996 & 1999)
- Classroom Observation Team for Evaluation of Phoenix Urban Systemic Initiative (1997)
- FOSS (Full Option Science System) Leadership Institute (1997)
- Facilitating Systemic Change in Science and Mathematics Education (1997)
- Professional Development for Alternative Assessment (1997)
- Project Archaeology: Intrigue of the Past Facilitator Training (1996)
- Navajo Cultural Training for Educators (1993)

Grant Awards

- 2007 Conceptual Understanding in Physical Science II and Conceptual Understanding in Biological Science. Math-Science Partnership. Arizona Department of Education through the Coconino County Educational Services.
- 2006 Conceptual Understanding in Physical Science. Math-Science Partnership. Arizona Department of Education through the Coconino County Educational Services.
- 2004 Traveling Trunks Materials Development, National Park Service.
- 2004 PRISM – Preservice Reform Informal Science Model. Arizona Board of Regents.
- 2003 Science Curriculum Implementation in Tombstone School District. Arizona Board of Regents.
- 2002 Tombstone Standards-Based Science Professional Development. Arizona Board of Regents.
- 2001 GLOBE-NAN III, Eisenhower Higher Education Program. Arizona Board of Regents. [Global Learning & Observations to Benefit the Environment: Native American Network]
- 2001 Science In Our Parks Dissemination Grant, National Park Service. Informal Science Education.
- 2001 Hubbell Trading Post Education Project, National Park Service. Educational Program and Curriculum Development.
- 2000 GLOBE-NAN II, Eisenhower Higher Education Program. Arizona Board of Regents. GLOBE/CP-LUHNA, Tides Foundation. Teacher Enhancement Project.
- 1999 GLOBE-NAN, Eisenhower Higher Education Program. Arizona Board of Regents.
- 1998 Connecting Our Land and Cultures Conference, National Park Service. Informal Education.
- 1997 Central Arizona Math and Science Project III (CAMS III), Eisenhower Higher Education Program. Arizona Board of Regents.
- 1996 Flagstaff Areas National Park Service. Parks As Classrooms. *Science In Our Parks*, Parks As Classrooms. Educational Program and Curriculum Development.
- 1994-1996 Petrified Forest National Park. *Science in Our Parks*, Petrified Forest Museum Association. Educational Program and Curriculum Development.
- 1992-2000 City of Flagstaff. Elden Pueblo Project, Archaeology education program development.
- 1989 Arizona Humanities Council and Northern Arizona University. Archaeology Plus History: Insights on the Impact of European Colonization on Navajo and Hopi Cultures.

Professional Activities:

- 1991 - Present Public Education Committee, Society for American Archaeology - Listserv manager (1996-present), and vice-chair (2003-2007), chair (2007-2010)
- 1994 - Present Co-Coordinator Arizona Project Archaeology
- 1998 – Present Founding member and listserv manager - Resource Education Network of Northern Arizona – Informal Science Network Group.
- 1987 - Present. Arizona Archaeological Council - Executive Committee (1997-1999), Archaeology for Educators Committee, Chair (1995-1997).
- 1991-1995 Environmental Education Advisory Committee, Arizona State Parks Board. Chair 1991-1993.

Current Professional Memberships:

National:

National Science Teachers Association
The Association for Science Teacher Education
Association for Supervision and Curriculum Development
North American Association for Environmental Education
National Council for Social Studies
Society for American Archaeology

Arizona:

Arizona Science Teachers Association
Arizona Association for Science Coordinators
Arizona Association for Environmental Education
Arizona Archaeological Council

Publications, Papers, and Presentations

- Gess-Newsome, J.; Menasco, J.; Clark, J. (unknown publish date). Reform, One Teacher at a Time. Foundations Reform for Secondary Science Teachers (tentative title). Washington, DC: National Science Foundation.
- Clark, J. Moe, J.M., and Alegria, C. B. (2008). Teaching Archaeology as Culturally Relevant Science Curricula: Building Scientific and Archaeological Literacy. Paper presentation at the 73rd annual meeting. Society for American Archaeology. Vancouver, BC Canada.
- Chilton, E., Clark, J., Corbett, J., Heath, M., Jansen W., and Miller, B. Discussants. (2008). Forum Heritage Values And Valuing Heritage: Considering The (Dis)Connects Among The Past, Present, And Future. 73rd annual meeting. Society for American Archaeology. Vancouver, BC Canada.
- Moe, J. Clark, J. and Alegria, C. 2008. Archaeology as Culturally Relevant Science Curricula: The Poplar Forest Slave Cabin. Paper presented at the Society For Historical Archaeology Conference on Historical and Underwater Archaeology. Albuquerque, New Mexico.
- Clark, J. and Heath, M. (2007). Native American Heritage Values: Building Curriculum, Building Bridges. Paper prepared for Heritage Values: The Past In Contemporary Society Workshop, Cumberland Island National Seashore, Georgia. November 15-17, 2007.
- Clark, J., Bertko, C., Jauron, L., Kirkley, J. and Gess-Newsome, J. (2007). Using *Science Curriculum Topic Study* to deepen understanding of science content and pedagogy. Presentation at the Arizona Science Teacher Association annual conference, Mesa, AZ.
- Meyer, J., Gess-Newsome, J., Clark, J. and Keeley, P. 2007. Using *Curriculum Topic Study* To Deepen In-Service Teacher Understanding Of Science Content And Pedagogy. Presentation at the Association for Science Teacher Education International Conference, Clearwater, FL January 3-6, 2007
- Meyer, J. and J Clark. (2006) Using Teachers To Expand Science Into The Community. Paper presentation at 35th annual conference of the North American Association for Environmental Education. Minneapolis, MN.
- Clark, J. (2005) Education As A Vehicle For Including Multiple Voices in Archaeology. Paper presentation at the 70th annual meeting. Society for American Archaeology. Salt Lake City, UT.
- Gumberman, G., J. Clark, and D. Honanie. (2005) Hopi Footprints: A Cultural Curriculum for Hopi Schools. Paper presentation at the 70th annual meeting. Society for American Archaeology. Salt Lake City, UT.
- Meyer, J. and J. Clark. (2005) PRISM: Preservice Reform Informal Science Model. Paper presentation at the Association for Science Teacher Education annual conference. Colorado Springs, CO.
- Clark, J. and J. Meyer. (2004) PRISM: Preservice Reform Informal Science Model. Poster Presentation at 33rd annual conference of the North American Association for Environmental Education: Casting a Wider Net for Environmental Education. Biloxi, MI.
- Gess-Newsome, J.; Menasco, J.; Moorhead, K.; Clark, J.; Haden, C. & Meyer, J. (2004) Following the Journey: Systemic Reform in Middle Level Science. Presentation at National Science Teachers Association regional conference. Seattle, WA.
- Gess-Newsome, J., M. Blocher, J. Clark, J. Menasco, and E.M. Willis. (2004) Technology infused professional development: A framework for development and analysis: An article in response to Alfred Bork's, *The Dilemma of Teacher Training*. CITE Journal (Contemporary Issues in Technology and Teacher Education).

- Gess-Newsome, J., J. Clark and J. Menasco. January 2003. Ubiquitous Computing: Seeds of a Technological or Pedagogical Revolution? Presentation at Association for the Education of Teachers of Science (AETS) annual conference. St. Louis MI
- Gumerman IV, G. L. Neff, and J. Clark. 2003. Interactive Archaeology of the Colorado Plateau and Grand Canyon: Archaeological and Indigenous Perspectives. Presentation at 68th Annual Meeting, Society for American Archaeology. Milwaukee, WI.
- Clark, J. (2003) Hubbell Trading Post National Historic Site: The Pueblo Colorado Wash Environmental Study Guide. Center for Science Teaching & Learning, NAU and National Park Service.
- Clark, J. 2002. Implementing the GLOBE Program In Indigenous Classrooms In Northern Arizona. Poster Session Presentation at Association for the Education of Teachers in Science Annual International Meeting. Charlotte, NC.
- Clark, J. and T. Shirakawa. 2001. Not At Home In The West: The Japanese Isolation Center at Leupp, Arizona. *Plateau Journal*. Spring/Summer 2001. Volume 5, Number 1:48-56.
- Clark, J. and J. Koons. 2001. Integrating Inquiry Through Informal Science Education. Special Flinn Foundation Sponsored Presentation at Arizona Science Teachers Association Annual Conference. Phoenix, AZ.
- Clark, J. 2001. *Development of Archaeology Education Programs in Collaboration with Native Americans: Accomplishments and Visions of the PEC*. Society for American Archaeology. The SAA Archaeology Record Volume 1, Number 4: 9.
- Menasco, J. & Clark, J. (2000). GEMS Units Face the Challenges of the Information Age. *GEMS Network News*. Berkeley, CA. Great Explorations in Math and Science – Lawrence Hall of Science. Fall/Winter.
- Clark, J. 2000. *Teaching Archaeology with Educational Technology*. The Archaeology Education Handbook: Sharing the Past with Kids. K. Smardz & S. Smith Eds. Walnut Creek, CA: AltaMira Press.
- Clark, J and B. Duwahoyeoma. 1999. A Tale of Two Strategies: Teaching Hopi Culture and Archaeology. Paper presented at 64th Annual Society for American Archaeology Conference, Chicago, IL.
- Clark, J. and M. Brown. 1999. Science In Our Parks: Science Education within the National Park Service. Presentation at Arizona Science Teachers Association Annual Conference. Phoenix, AZ.
- Clark, J. 1998. *Should Kids Dig?* Society for American Archaeology Bulletin Vol 16, Number 5:9-12.
- Clark, J. 1998. *Science In Our Parks: Cultural and Natural History of the Colorado Plateau*. Science and Mathematics Learning Center and National Park Service.
- Pilles, P.J., Jr., J. Clark, W. Gosart, and T. Woodall. 1998. Avocational Involvement in Public Archaeology Programs at Elden Pueblo. Presentation at 63rd Annual Society for American Archaeology Conference, Seattle, WA.
- Clark, J. 1998. Teaching Science With Archaeology. Presentation at Arizona Science Teachers Association Annual Conference. Phoenix, AZ.
- Bogert, R., J. Clark, G. Lindner, J. Menasco, H. Clark, and T. Harrison. 1997. *Northern Arizona University Symposium on Systemic Reform in Science and Mathematics Education*. Report to the Arizona Board of Regents: Eisenhower Mathematics and Science Program.
- Clark, J and C. Garza. 1997. Arizona Archaeological Council, Archaeology for Educators Committee: Heritage Education Programs in Arizona. Poster Session at 62nd Annual Society for American Archaeology Conference, Nashville, TN.
- Clark, J. 1995-1996. Editor. Arizona Archaeological Council, Archaeology for Educators newsletter.
- Clark, J. 1996. Teaching Archaeology using Scientific Inquiry Methods. Paper presented at 61st Annual Society for American Archaeology Conference, New Orleans, LA.
- Clark, J., L. Chang, and P. Hosking. 1995. *Science In Our Parks: Petrified Forest National Park*. Science and Mathematics Learning Center and National Park Service.
- Ortiz, D., S. Powell, K. Stemmler, J. Clark, K. Fortsas, and E. Masayesva. 1993. *Traditional Cultural Properties of Ridges Basin*. Northern Arizona University Report. Contract Number 1425-2-CS-40-11730 United States Department of the Interior, Bureau of Reclamation, Upper Colorado Region.
- Geib, P. R. and J. Clark. 1991. *A Late Pueblo III Double Burial Near Shonto, Arizona*. Navajo Nation Archaeology Department Report No. 90-280.