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## CHARLOTTE REEVES CLARK

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### EDUCATION

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PhD            Nicholas School of the Environment and Earth Sciences, Duke University, 2007.

MEM           Duke University, School of Forestry and Environmental Studies, 1983.

BA            Botany/Zoology, Trinity College, Duke University, 1979.

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### RESEARCH INTERESTS

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I am interested in the relationship between environmental education and collective action in the management of environmental issues. I would like to research this relationship not only in geographic communities, but also in campus and faculty communities as seen in campus sustainability efforts. I have a recent interest in food and the agricultural system, with emphasis on places where voluntary, collective action may be useful in addressing climate change.

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### CURRENT POSITIONS

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#### **Visiting Assistant Professor, Duke University Nicholas School of the Environment.**

Responsibilities include teaching graduate and undergraduate classes (including independent studies and honors theses), organizing client-centered projects for students in the Nicholas School, advising graduate and undergraduate students, advising student organizations, serving on various University Committees, teaching qualitative research software, and serving as grant Principle Investigator as applicable. (2008 to present)

Certified trainer in NVivo™ software, a program designed to accomplish computer-aided qualitative data analysis. With Gabe Cumming, developed sample project contained in NVivo9 (Oct 2010) around data from Lisa Campbell at DUML. Training experience at Duke includes:

- NSOE faculty, graduate and undergraduate students
- Social Science Research Institute (SSRI)
- Sanford Center for Child and Family Policy
- Various staff groups (Library, Residential Life and Housing Service, Academic Resource Center, Graduate School)

Founded consulting firm, *Qualitative Insight*, which provides qualitative research consulting, and introductory and advanced NVivo training around the country (Stanford, Columbia, JMU, University of Florida)

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## PREVIOUS EXPERIENCE

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2008. Coordinator, Student Environmental Initiatives, Duke University. Drafted report “Improving Environmental Citizenship and Literacy at Duke” that focuses on practical recommendations by which Duke could enhance the environmental awareness, literacy, and engagements of students, with an emphasis on the undergraduate population.

2005 to 2007. Worked under contract with the NC Environmental Education Fund, in conjunction with the NC Office of Environmental Education, Department of Environment and Natural Resources (DENR) to draft state-wide environmental education professional certification program.

2002 to 2006. Designed and taught courses and modules at the Nicholas School of the Environment, Duke University in applied environmental education and qualitative research methods.

1995 to 2000. Nicholas School of the Environment, Duke University. Director, Center for Environmental Education. Developed and implemented environmental education and community outreach programs for students and faculty. Oversaw continuing education program for returning professionals implementing existing, and developing new programs for the program. Oversaw budget and granting funding mechanisms. Managed staff of 3 to 5 individuals, including student interns.

1991 to 1995. EC/R Incorporated. Senior Environmental Scientist. Developed proposed and promulgated air pollution regulations under the Clean Air Act under contract to the Office of Air Quality Planning and Standards, US Environmental Protection Agency.

1985 - 1991. Pacific Environmental Services, Inc. Senior Environmental Scientist. Developed proposed and promulgated air pollution regulations under the Clean Air Act under contract to the Office of Air Quality Planning and Standards, US Environmental Protection Agency.

1983 - 1985. Midwest Research Institute. Environmental Scientist. Developed proposed and promulgated air pollution regulations under the Clean Air Act under contract to the Office of Air Quality Planning and Standards, US Environmental Protection Agency.

1979-1981. Episcopal School of Dallas. Dallas, Texas. 7<sup>th</sup>/8<sup>th</sup> grade teacher, science and math.

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## COURSES TAUGHT

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ENV 298.87 – Applied Qualitative Research Methods (Spring 08-11): Graduate seminar class for MEM and PhD students in the NSOE.

ENV/SOC 171 – Food and Energy (Spring 09, 11): Undergraduate class focusing both on academic content around the climate footprint of food, and on student team projects conducted in conjunction with on-campus clients from Duke dining. Class has cross-cultural inquiry, research, and service-learning designations.

ENV 101 – Integrated Environmental Science and Policy (Fall 08, 09, 10): Undergraduate writing course required for ENV majors and minors. Developed three new case study modules (local climate change policy, biofuels, food and energy).

ENV/SOC 115 – Community as Behavior (Spring 2008): Undergraduate course that focused both on collective action in communities around environmental issues and on practical aspects of qualitative research methods (interview, observation, material culture).

HC – Living off the Grid (Spring 2009): Faculty advisor for undergraduate house course on the theoretical and practical aspects of self-sufficient living.

ENV298.xx -Applied Environmental Education and Communication (1998 - 2005): Course taught in conjunction with other Duke staff (Ashenburg, Swanson, Wojcik). Varied from 1 to 4 credits.

Guests lectures: Green by Design (DUML), Writing 20 (Ahern-Dodson), Social Science Surveys (Kramer), Community-based Environmental Management (Maguire), Sociology research methods (Read), Engineering design (Schaad), Nicholas Institute Sustainability Communities Workshop, Blue Devil Days, Crowell Dorm, Environmental Alliance.

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## **SERVICE**

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Chair, Education Subcommittee, Campus Sustainability Committee (2008 - present).

- Drafted education, research, and community outreach portions of Duke's Climate Action Plan (endorsed by Board of Trustees October 2009).
- Serve as Chair of the Education Subcommittee, whose role is to draft recommendations on climate neutrality and sustainability for the Plan on student academic and co-curricular engagement, community outreach (by students and by the institution), and research efforts at the University.
- Developing faculty learning community around sustainability in teaching (content) and classroom (delivery); initial workshop held May 2010; second one in planning stages for May 2011.
- Incorporating sustainability material into Preparing Future Faculty program.
- Developing list of courses with sustainability content across the University. Developing metric by which a course could be labeled either sustainability-focused or -related.

Program Director, DukeEngage in Chauvin, LA (2010). Developed new DukeEngage program to take place summer 2011 in coastal Louisiana. Undergraduate participants will engage in wetland restoration and environmental education activities.

Principal Investigator, Student Environmental Internship Program Grant (2010-2012), \$345,200. Monies from ARRA to fund summer interns (18) and 9-month fellows (4) in NC companies to improve energy efficiency.

Founding member: Triangle University Food Studies group (2010). This multi-campus group is working to aggregate and further interests in study of the food and agricultural system.

Faculty advisor student organizations:

Duke Community Garden  
Honey Patch Community Garden  
Farmhand  
Duke Campus Farm  
NSOE Student Government

Reviewer:

Environmental Education Research  
Journal of Environmental Education  
Applied Environmental Education and Communication  
Canadian Journal of Environmental Education

Convener: on-campus "community" at Duke for those involved in qualitative research, particularly those who use computer software as an analysis tool.

Member: Duke Environmental Management Advisory Committee

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## SELECTED PUBLICATIONS, REPORTS, AND PRESENTATIONS

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- Clark, C. "*The Relation of Environmental Education to Common Pool Resource Management*". Invited chapter in preparation for, The Environmental Education Reader, to be published by Peter Lang in the (Re)thinking Environmental Education series in April 2012.
- Clark, C. "Synergy of the Commons: Co-facilitated learning and collective action." In Stevenson, B. & Dillon, J., eds. Engaging Environmental Education: Learning, Participation, and Agency. Sense Publishers, Netherlands. 2010.
- Clark, C., Brody, M., Dillon, J., Hart, P., and Heimlich, J. 2007. "The Messy Process of Research: dilemmas, answers, and critique." The Canadian Journal of Environmental Education. Vol. 12, pp 110-126.
- Clark, C. "The Politics and Use of Co-facilitated Learning." Presented at the 9<sup>th</sup> Invitational Seminar on Research and Development of Environmental and Health Education, Monte Verita, Switzerland, March, 2007.
- Clark, C. "Synergy of the Commons: how peer-mediated learning contributes to collective action." Presented at the American Educational Research Association, Environmental Education Special Interest Group, San Francisco, CA, April, 2006
- Clark, C. "Peer-mediated learning: an under-valued tool." Presented at the North American Association of Environmental Education Conference, Research Symposium, Albuquerque, NM. November 2005.
- Hart, P., Barrett, M.J., Schnack, K., Dymont, J.E., Taylor, J. & Clark, C. (2004) "Reflections on the 7<sup>th</sup> Invitational Seminar on Research and Development in Health and Environmental Education," Anchorage, Alaska, USA, October 2003, Environmental Education Research, 10(4), 563-573.
- Clark, C. (2002) "The Pot and the Pendulum". Applied Environmental Education and Communication. 1:145-146.
- Clark, C. Technical Document on Burning Tires for Fuel and Tire Pyrolysis: Air Implications. Prepared for the Control Technology Center, U.S. EPA. December 1991.
- Clark, C., Meardon, K., Bernstein, G. Sulfur Oxides Emissions from Fluid Catalytic Cracking Unit Regenerators. Background Information for Promulgated Standards. EPA-450/3-82-013b. April 1989.
- Clark, C. "Summary of Non-CTG Regulations for Sources Emitting Greater Than 100 Tons VOC Per Year." The Scientific and Technical Issues Facing Post-1987 Ozone Control Strategies, pp. 592-603. Transactions of an APCA International Specialty Conference.

Hartford, Connecticut. November 1987.

Chitterling, C., C. Clark, J. Lohnes, and H. Nixon. "Wetland Trends and Policies in North Carolina and South Carolina." Report to the Office of Technology Assessment. OTA Grant 233-4550. 1982.

Hackett, P.H., Reeves, J.T., Reeves [Clark], C.D., Grover, R.E., and D. Rennie. "Control of Breathing in Sherpas at Low and High Altitudes." Journal of Applied Physiology, 49(3):374-79. 1980.

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## **AWARDS AND HONORS**

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*Charles A Dukes Award for Outstanding Volunteer Service to Duke University.* 2005

*National Network for Environmental Management Studies (NNEMS) Fellowship Award.* \$36,000 over 3 years beginning September 2001. Sponsoring agency: Office of Environmental Education, US Environmental Protection Agency.

*JC Penney Golden Rule Award, 1995, given by Volunteer Centers in the Triangle area for outstanding volunteer service and leadership.*

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## **SELECTED VOLUNTEER EXPERIENCE**

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*North American Association for Environmental Education.* Board member and Secretary, 2008-2010. Program Chair, National Conference, 2006, Albuquerque NM.

*Duke Faculty Club.* Board member, 2008 to present. President 2009-2010.

*Campus Culture Initiative, Duke University.* Member, 2006-2007 (final report submitted February 2007)

*Duke University Athletic Council.* Member 2005 to 2007.

*Duke University Alumni Association Advisory Board.* Durham, NC 1999 to 2005. *Executive Committee, 2004-2005*

*North Carolina Division of the United States Fencing Association.* President 2003-2004, Board member 2001-2005. President during the year when the National US Fencing Championships were held in North Carolina.

*Environmental Educators of North Carolina.* 1999 to 2004. President, Board of Directors, 2002. Others positions held include President Elect and Co-chair of Education Committee.

*Nicholas School of the Environment and Earth Sciences Alumni Advisory Board, Duke University.* Durham, NC. 1999 to 2003.

*Women-In-Action for the Prevention of Violence and Its Causes,* Board member, Durham, NC. 1997-98.

*Junior League of Durham and Orange Counties.* Board member, 1992-1998, President, 1996-1997. Various other roles, including Community Vice-President in 1994-1995.

*Support Our Students Advisory Committee.* 1996-1998. Member of charter statewide advisory committee appointed by Governor James Hunt for all middle school after-

school programs funded under the state SOS initiative. Wrote numerous funding proposals.

*Middle School After-School Planning Group.* 1992-1997. Founding member in effort to initiate after-school programs in every middle school in Durham and Orange County. After-school program named model by Governor Hunt for his Support Our Students (SOS) program. Wrote numerous successful funding proposals.

*Leadership Durham program graduate,* Durham Chamber of Commerce. 1993. President, Leadership Durham Alumni, 1994.

YMCA, Board member for Lakewood Facility, Durham, NC, 1997-2000. Assisting in development of environmental education plan for Camp Kanata.

*Coalition for Battered Women.* Board Vice-Chair 1991-92. Other Board and volunteer roles 1984-91.

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## **PERSONAL INFORMATION**

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*Birth: January 11, 1958, Denver, Colorado*

*Married, 2 children (ages 23 and 25).*

*Member of the North American Association of Environmental Education (NAAEE), the Environmental Educators of North Carolina (EENC), the American Educational Research Association (AERA), and the American Evaluation Association (AEA).*