

## MARIA C. POWELL

### EDUCATION

2004: Ph.D., Environmental Studies & Communication (joint doctorate), Nelson Institute for Environmental Studies/Journalism & Mass Communication, University of Wisconsin, Madison

2000: M.S., Environmental Studies, Nelson Institute for Environmental Studies, University of Wisconsin, Madison

1992: B.A., Biology, University of California, Santa Barbara

### ACADEMIC & NONPROFIT WORK

2009-present: Executive Director, Community-Based Participatory Researcher/Organizer, Madison (formerly Midwest) Environmental Justice Organization (MEJO)

2006-2011: Lead Researcher & Citizen Engagement Facilitator, Nanotechnology Citizen Engagement Organization (NanoCEO)

2006-2009: Associate Scientist, Societal & Environmental Implications Group Co-Leader, Nanoscale Science and Engineering Center and Nelson Institute for Environmental Studies, University of Wisconsin, Madison

2004-2006: Postdoctoral Research Associate, Nanoscale Science and Engineering Center & La Follette School of Public Affairs (joint appointment), University of Wisconsin, Madison

2003-2004: Project Assistant, Journalism and Mass Communication Department, environmental risk perception research, University of Wisconsin, Madison

2000-2003: Teaching Assistant for Government & Natural Resources, summers of 2000, 2001, 2002, 2003, Nelson Institute for Environmental Studies, University of Wisconsin, Madison

2000-2002: Research Assistant, Center for Cooperatives & Center for Integrated Agricultural Systems, University of Wisconsin, Madison

2000, Spring: Teaching Assistant, Environmental Studies, The Social Perspective, Nelson Institute for Environmental Studies, University of Wisconsin, Madison

1999, Fall: Teaching Assistant for Environmental Studies, The Humanistic Perspective, Nelson Institute for Environmental Studies, University of Wisconsin, Madison

1999, Spring: Teaching Assistant, Effects of Mass Communication, Journalism & Mass Communication Department, University of Wisconsin, Madison

1996-1997: Program Assistant, Education & Outreach Coordinator, Women's Health & the Environment Network (WHEN), Citizens for a Better Environment, Milwaukee, WI

1996 (winter interim, summer): Lecturer, Conservation Biology, Carroll College, Waukesha WI

1994-1996: Research lab assistant and doctoral candidate, Biology Department, Wimpee lab. University of Wisconsin, Milwaukee.

1995-1996: Teaching Assistant, Environmental Dynamics, University of Wisconsin, Milwaukee

1994-1995: Teaching and lab assistant for General Biology, University of Wisconsin, Milwaukee

1994-1995: Aquatic Biology Program Coordinator, Plymouth Institute, Wisconsin

1993-1994: Environmental Educator, Wahsega 4-H Center, Dahlonga, GA

1992-1993: Lecturer, Anatomy/Physiology, Lake Tahoe Community College, South Lake Tahoe, CA

1987-1990: Research assistant, University of California Santa Barbara Biology Dept. (subsequently the Marine Science Institute) (Gibor lab)

## PUBLICATIONS

Olson, M.R., Schauer, J. J., Powell, M.C., Rutter, A. P., Shafer, M. M. (2014). Aerodynamic and Chemical Characteristics of Select Engineered Nanomaterial Powders. *Aerosol and Air Quality Research*, 14: 74-85.

Powell, M. Powell, J. Xiong, L., Moua, K., Schmitz, J., Olivas, B. Yang, V. (2011). [Invisible People, Invisible Risks: How scientific assessments of environmental health risks overlook minorities—and how community participatory science can make them visible](#). In G. Ottinger and B. Cohen (Eds.), *Technoscience and Environmental Justice: Expert Cultures in a Grassroots Movement*. MIT Press, Cambridge MA.

Powell, M., Delborne, J. Colin, M. (2011). Beyond Engagement Exercises: Exploring the U.S. National Citizens' Technology Forum from the Bottom Up. *Journal of Public Deliberation*. 7(1), Article 4.

Powell, M., Colin, M., Kleinman, D., Delborne, J., & Anderson, A. (2011). Imagining ordinary citizens? Conceptualized and actual participants for deliberations on emerging technologies, *Science as Culture*, 20(1): 37-70.

Delborne, J.A., Anderson, A.A., Kleinman, D.L., Colin, M., & Powell, M. (2011). Virtual deliberation? Prospects and challenges for integrating the internet in consensus conferences. *Public Understanding of Science* 20(3): 367-84.

Kleinman, D. & Powell, M. (2010). Consensus conferences on Science & Technology. *Encyclopedia of Nanoscience and Society*. Sage Publications.

Pfefferkorn, F.E., Bello, D., Haddad, G., Park, J.Y., Powell, M., McCarthy, J., Bunker, K.L., Fehrenbacher, A., Jeon, Y., Gruetzmacher, G., Hoover, M. (2009). Characterization of Exposure to Airborne Nanoparticulates during Friction Stir Welding of Aluminum. *Annals of Occupational Hygiene*, 54(5):486-503.

Powell, M. Café Scientifiques. (2009). *Encyclopedia of Science and Technology Communication*. Susanna Hornig Priest (Ed.), Sage Publications.

Powell, M. & Colin, M. (2009). Participatory paradoxes: Facilitating bottom-up citizen engagement in nanotechnologies from the top-down? *Bulletin of Science, Technology, and Society*, 29(4): 325-342.

Powell, M. Griffin, M. & Tai, S. (2008). Bottom-up risk regulations? How nanotechnology risk data gaps challenge U.S. federal, state, and local regulatory capacities. *Environmental Management* 42: 426-443.

Powell, M. & Colin, M. (2008). Meaningful citizen engagement in nanotechnology and emerging technoscientific issues: What would it really take? *Science Communication* 30(1): 126-136.

Powell, M. & Colin, M. (2008). Nanotechnology and food safety: Potential benefits, possible risks. 2008. *Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources*, 3(038): 1-16.

Powell, M. & Kleinman, D.L. (2008). Building citizen capacities for participation in technoscientific decisionmaking: The democratic virtues of the consensus conference model. *Public Understanding of Science*, 17(3), 329-348.

Powell, M. Dunwoody, S., Griffin, R. & Neuwirth, K. (2007). Exploring lay uncertainty about an environmental health risk. *Public Understanding of Science*, 16: 323-343.

Powell, M. (2007). New risks, old risks, or no risks? How scientists' standpoints shape their nanotechnology risk frames. *Health, Risk, and Society*, 9(2): 1-18.

Kleinman, D., Powell, M., Grice, J., Adrian, J. & Lobes, C. (2007). A toolkit for democratizing science and technology policy: the practical mechanics of organizing a consensus conference. *Bulletin of Science, Technology & Society*, 27: 154-169.

Stedman, R.C., Lathrop, R.C., Clark, B., Ejsmont-Karabin, J., Kasprzak, P., Nielsen, K., Osgood, D., Powell, M., Ventela, A., Webster, K., Zhukova, A. (2007). Perceived environmental quality and place attachment in North American and European temperate lake districts. *Lake and Reservoir Management*. 23:330-334.

Powell, M. & Kanarek, M. (2006). Nanomaterial health effects, Part 1: Background and current knowledge. *Wisconsin Medical Journal*, 105(2): 16-20.

Powell, M. & Kanarek, M. (2006). Nanomaterial health effects, Part 2: Uncertainties and recommendations for the future. *Wisconsin Medical Journal*, 105(3): 18-23.

Powell, M. et al. (2002-2004). Selected case studies prepared for the North Central Initiative for Small Farm Profitability. UW Center for Cooperatives, Initiative for Future Agriculture and Food Systems, United States Department of Agriculture. Powell, M. & Lawless, G. (2003) *The Cooperative Regions of Organic Producer Pools (CROPP)*; Powell, M. & Lawless, G. (2002) *The Dane County Farms & Neighborhoods Initiative: Saving the Country, Saving the City*; Powell, M. & Lawless, G. (2002) *Select Sonoma: A Long-Lived Marketing Program Faces Hard Times*; Powell, M., Thongchua, N. & Lawless, G. (2002) *Southwest Minnesota Agrifuels Cooperative*. See <http://www.uwcc.wisc.edu/info/fra/case.html> for case studies.

### ***Works in Progress***

Powell, M. *Poisoning Paradise; A People's Environmental History of Madison* (working title). Book manuscript.

### **PROJECT LEADERSHIP, ADVISORY COMMITTEES, PRESENTATIONS**

2019-2020: Project manager, People's PFAS Action Team, Madison Wisconsin; funded by the Center for Health, Environment & Justice and the People's Action Institute

2017-2018: Project manager, U.S. EPA funded Starkweather Creek Environmental Justice Project

2006-2011: Team organizer and facilitator, Intergovernmental Nanotechnology Working Group. Coordinated and facilitated work of team of government agency staff from the Wisconsin State Lab of Hygiene, the Occupational Safety and Health Consultation Program, the Department of Health and Family Services, the Department of Natural Resources, and professors from the UW Nanoscale Science & Engineering Center to address environmental & occupational health and safety issues related to nanotechnologies.

2011, January: Workshop participant, Nanomaterial Case Study Workshop: *Developing a Comprehensive Environmental Assessment Research Strategy for Nanoscale Silver*. Environmental Protection Agency, National Center for Environmental Assessment, Research Triangle Park, North Carolina, <http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=226723>

2011, Spring: Environmental Justice and Air Pollution from the Verona Road Expansion. Invited talk at the Allied Drive Boys & Girls Club.

2008-2010: Science Advisory Panel member, *Recommendations for Addressing Potential Health Risks from Nanomaterials in California*, University of California, San Francisco (final report, 2011), [http://prhe.ucsf.edu/prhe/pdfs/UCSFnano\\_report.pdf](http://prhe.ucsf.edu/prhe/pdfs/UCSFnano_report.pdf)

2006-2009: Co-leader of University of Wisconsin NSEC Societal Implications team.

2006-2009: Nano Cafés Organizer. Organized and facilitated Nano Cafes in which Madison citizens met with scientists to discuss applications and implications of nanotechnologies. See: [http://www.nanoceo.net/past\\_events](http://www.nanoceo.net/past_events)

2009, April: Nanotechnology and Nanomaterials in Foods and Consumer Products, Invited lecture for the Wisconsin Environmental Health Association. Middleton, Wisconsin.

2008, December: Nanotechnology Health & Safety: An Overview: Presentation to the Dane County Local Emergency Planning Committee (LEPC). Madison, Wisconsin.

2007, October: Nanotechnology, What's That? ...and What Does It Have to Do With the Environment? Lecture for Nelson Institute Environmental Studies 901 seminar.

2007, April: Midwest NanoSafety Workshop Lead Organizer

2007, March: Workshop organizer (with Kazoua Moua, Cynthia Lin, Alison Coulson, Mikelanne Northrup). *Local Fish as a Healthy Food Source?* Planting the Seeds for the Future Workshop. Madison, Wisconsin.

2007, March: The Environment & Emerging Nanotechnologies: Promises, Perils, and Public Participation, Lecture presented to University of Wisconsin Biomedical Engineering graduate seminar.

2006, December: Public Participation in Science and Technology Decision Making. Presented to the Science and Environmental Communication graduate seminar, University of Wisconsin, Madison.

2006, November: Environmental & Health Risks of Nanotechnologies: Promises, Perils, and Public Policies. Lecture at Nanotechnology Policy Workshop sponsored by the University of Wisconsin Materials Research Science and Engineering Center and the LaFollette School of Public Affairs,

2006, October: Subsistence Angling in Madison: Is it an Environmental Justice Issue? Talk presented at the Nelson Institute Community Environmental Forum, University of Wisconsin, Madison,

2006, August: Reducing Exposure to Mercury & Seeking Environmental Justice. Talk presented (with Kazoua Moua) at Finding Solutions to the Global Mercury Crisis Conference, Madison, WI.

2006, August: Workshop organizer: *Minority Angling in Urban America: Subsistence Anglers' Perspectives on Fishing, Fish Consumption, and Fish Advisories*. An Under-Represented Groups Workshop at the Eighth International Conference on Mercury as a Global Pollutant.

2006, April: Co-organized public seminars on air pollution, ultrafine particulates & health effects for Earth Day, including presentations by Vicki Stone (Napier University, Scotland), government agency representatives and university scientists.

2005-2007: Friends of Lake View Hill, Vice President

2005, Fall: Organized University of Wisconsin seminar series, *Science, Democracy, & Public Policy*, a series of talks about the interactions among scientific and technological research and development, government regulations and policies, and citizen participation.

2005, Summer: Organized Environmental Justice Panel at Midwest Social Forum. Session included Little Village Environmental Justice Organization (Chicago) and Milwaukee's South Side Parents Against Lead (PAL) organization.

2003-2005 Madison Grassroots Leadership College Coach & Evaluation Committee member

2002-2003: Friends of Starkweather Creek Board of Directors

2002, Fall: Session Organizer, *Citizen Participation in Wisconsin Water Issues: The Role of the Media*. Waters of Wisconsin Conference.

1995-1997: Volunteer Naturalist, Milwaukee Riverside Urban Environmental Center, Milwaukee Schooner School Volunteer Educator, Great Lakes Consensus facilitator, Milwaukee Schooner School Volunteer Educator, Project WET (Water Education for Teachers) Facilitator

1995: NOAA/Sea Grant Global Climate Change Educator

1994: Project Wild/Project Learning Tree/Aquatic Wild Facilitator

1988-1991 UCSB Scientist and Engineers for Responsible Technology (SERT) organizer