

BRIEF BIO

Carol Lynn Alpert directs the Strategic Projects Group at the Museum of Science, Boston (MOS). She is co-director of the NSF Science-Technology Center for Integrated Quantum Materials (CIQM) based at Harvard, MIT, Howard, and MOS. She teaches the year-long Research Communication Laboratory course at the DOE Center for Excitonics, based at MIT. Alpert co-founded the NSF Nanoscale Informal Science Education Network, now a consortium of some 600 research and education organizations. Current NSF co-PI awards include a Scalable Nanomanufacturing project, "Continuous, Large-Scale Nanocomposite Production via Micellular Electrospray," based at The Ohio State University. Recent PI awards include "QSTORM Collaborative Research: Switchable Quantum Dots and Adaptive Optics for Super-Resolution Imaging," with collaborators at Ohio State, Carnegie-Mellon, Brown University and the University of Georgia. Alpert served as public engagement and informal science education director for the "Nanoscale Systems and their Device Applications" Nanoscale Science and Engineering Center (Harvard, MIT, UCSB and MOS; 2001-2012) and for the Center for High-rate Nanomanufacturing NSEC (Northeastern, UMass-Lowell and UNH; 2004-2015).

Alpert has written and presented broadly on forging museum - research center partnerships, interpreting current science in museums, coaching researchers in science communication, engaging public audiences in nanotechnology, and engaging stakeholders in nano-EHS risk communications. The MOS Strategic Projects Group produces professional development workshops in science communication and a variety of educational materials on current research in nanotechnology, nanomedicine, and quantum materials, including public presentations, science theatre, films, and multimedia. Their dramatic production, *The Amazing Nano Brothers Juggling Show*, has been seen by over 80,000 people at museums, schools, and science festivals. Their YouTube channel, *NanoNerds*, has over 1300 subscribers. The *Talking Nano* DVD collection has been distributed to over 1200 high schools and museums. More than 85,000 people have attended the group's live presentations on current research at MOS. Their 2012 film, *Inventeens: a High School Engineering Challenge*, earned Golden Cine and Silver Telly awards. *Hands-on, Minds-on: Bringing Engineering Design to High School Classrooms* earned a Bronze Telly. *From Lab to Fab: Pioneers in Nanomanufacturing* is the group's latest and most significant film project to date.

Alpert also founded the *Presentation Rx Clinic* for meeting speakers and moderators at the AAAS Annual Meeting, and her group coordinates a multi-university network of providers of their *REU Science Communication Workshop*, and a university/museum network of providers of their *Sharing Science Workshop & Practicum* for university researchers.

Alpert studied biology and history at Harvard and graduated *magna cum laude* and Phi Beta Kappa with a thesis in the History of Science. She produced exhibit films for the American Museum of Natural History and PBS science and history television documentaries for about 15 years, working with the *NOVA Science Unit*, *The American Experience*, *Frontline*, *La Plaza*, and with several multi-part international co-productions. Alpert also edited the *New York Times* best-seller, *The Art of Possibility*, by Rosamund Zander and Ben Zander. She joined the Museum of Science in 1999 to build the Current Science & Technology Center, recipient of the 2002 DOE-NIST "50 Best Practices in Communicating Science and Technology" award and the 2002 American Association of Museums Gold MUSE award for "Highest Standards of Excellence in the Use of Media & Technology for Interpretation & Education in Science."