

Biographical Sketches

Panel Session II

Mary Louise Bellamy

Mary Louise Bellamy is K-12 Outreach Coordinator for the NSF Center for Environmentally Responsible Solvents and Processes at The Science House at North Carolina State University. She earned a B.A. in zoology at The University of North Carolina at Chapel Hill, an M.A.T. at Emory University, and a Ph.D. in Science Education at The University of Maryland at College Park.

Dr. Bellamy served as Education Director of the National Association of Biology Teachers, where she secured funding from NSF and NIH for curriculum development and teacher professional development projects. She taught secondary science at schools in North Carolina for a number of years, including The North Carolina School of Science and Mathematics and The Governor's School of North Carolina (West). Dr. Bellamy has conducted workshops for teachers for twenty-two years at the local, state, and national levels.

She has served at the national and state level to improve science education; this service includes work on the National Assessment for Educational Progress (NAEP). Currently she serves on the Board of Directors of The National Science Educational Leadership Association and the North Carolina Science Education Leadership Association. Dr. Bellamy has authored one book, edited several others, and co-authored several articles. She was chosen to be a North Carolina Outstanding Science Teacher.

Kyle Cole

Dr. Cole received his Ph.D. from Yale University and his Bachelors degree from UC Santa Cruz. He has taught courses in organic chemistry, evolutionary biology and recently taught courses on nanoscience and technology for the Stanford Continuing Studies program and Santa Clara University. Kyle is a College Director for Stanford's Freshman-Sophomore College and previously led a research group at the biotech company Affymetrix. Kyle is currently the Associate Director of the NSF-funded Center for Probing the Nanoscale (CPN) at Stanford where he directs education and public outreach programs and promotes industrial collaborations.

Marco Molinaro

Dr. Molinaro is Chief Education Officer for CBST at UC Davis Center for Biophotonics Science and Technology. He has a dual B.S. in Biophysics and Chemistry from Wayne State University in Detroit, Michigan and a Ph.D. in biophysical chemistry from the University of California, Berkeley. Ever since the early 90's, he has been strongly involved with education at all levels and technology. From 1994 through 1999, Dr. Molinaro was involved in various national efforts (ModularChem Consortium and ChemConnections) to reform the undergraduate curriculum in chemistry utilizing problem-based approaches and technology. During that period, he spent a year as a research fellow at the University of Wisconsin, Madison, to research faculty use of technology in instruction. From 1998 through 2003, he was the founder and director of the ScienceVIEW educational multimedia design, research, and development group at the Lawrence Hall of Science (LHS) at UC Berkeley, specializing in creating multimedia materials aimed at teaching and learning science in formal and informal settings. Between his earlier chemistry work and LHS, he has developed more than 15 major CD-ROM and Internet-based products for teachers, students and families. During his tenure as ScienceVIEW director, he

also led various research efforts related to educational technology effectiveness including: learning-optimized use of molecular simulations in the classroom, understanding the potential of computer-based data collection for formative assessment in formal and informal learning environments, and developing usability guidelines for creating age appropriate interactive activities on the Internet.

He is currently focusing his attention to communicating the latest research results, and the science behind them, to students from 5 to 100 in both formal and informal settings. At UC Davis he is the Chief Education Officer for the Center for Biophotonics where he is in charge of coordinating all educational activities of the Center including those aimed at K-12, higher education, and the public. One of his newest projects is entitled Biophotonicsworld.org – a biophotonics knowledge base for education, research and industry. At LHS he recently completed his work as Principal Investigator for the Windows on Research: Focus on Nanotechnology public exhibit project.

Dr. Molinaro is a member of the graduate group in the School of Education at UC Davis. His current and on-going research interests involve: social interactions around technology use in informal and formal science settings, methods for facilitating public understanding of research, integrating cutting edge scientific research and researchers with the educational enterprise, and evaluation methods utilizing technology (including back-end and formative tools).

Christine Morrow

Dr. Christine Morrow taught mathematics and science for elementary and middle school students for 17 years. She has conducted science education outreach programs for the University of Colorado since 1991. Christine has lead teacher professional development workshops nationally for low performing school districts and for State Departments of Education. She has been the director of the NSF MRSEC funded Liquid Crystal Materials Science Center at CU Boulder since 1998. She develops and implements workshops for strategic planning, and applies research and best practices for curriculum, instruction and assessment projects. Christine received her Master of Arts in Teaching Integrated Natural Science (MAT-INS) from Colorado College in 2000.

Holly Pellerin

Holly Pellerin is Coordinator, Earth, Water and Wildlife track, National Center for Earth-surface Dynamics (NCED). She coordinates the Fond du Lac site and programs. She works with the Fond du Lac Tribal and Community College to coordinate youth science and math programs and also recently became affiliated with the National Center for Earth-surface Dynamics (NCED) to specifically coordinate the Earth, Water and Wildlife track. Holly is Native Alaskan. She is a staff member of NCED's *Ando-giikendaasowin: Seek to Know* Native American Math and Science Summer Camp, where students interact with Native role models and peers who share common interests in mathematics and science. They have the opportunity to experience life at a major research institution, the University of Minnesota Twin Cities campus, or small rural tribal college (Fond du Lac Tribal and Community College in Cloquet, MN). This year's camp will serve up to 38 students (Ten 9th graders, Ten 10th graders, Eight 11th graders, and Ten 12th graders).