

SJSU Alumni Women of Meteorology

Cristina Archer

- M.S., Meteorology, San Jose State University, 1998
- Currently a professor at the University of Delaware in the College of Earth, Ocean, and Environment
- Cristina and her Atmosphere and Energy Research Group (AERG) study air quality and model the transport of ozone precursors in Delaware
- In addition to air quality modeling, she and her team also study Computational Fluid Dynamics for flows around wind turbines, wind energy, the electric grid, and offshore wind



Rita Roberts

- B.S., Meteorology, San Jose State University, 1982
- Rita is currently the Principal Investigator for a WMO-sponsored Field Campaign called HIGHWAY (High Impact Weather Lake System)
- She is working with other scientists and meteorologists from Tanzania, Kenya, and Ugandan Nation Meteorological Services to understand the evolution of the nocturnal thunderstorms in the region
- She is also working on another program at NCAR analyzing low-level water vapor fields retrieved from radar during the Plains Elevated Convection At Night (PECAN) field experiment conducted in Kansas in 2015



Jennifer Francis

- B.S., Meteorology, San Jose State University, 1988
- Jennifer is currently a Senior Scientists at the Woods Hole Research Center
- Her research explores the connections between the rapidly warming Arctic and mid-latitude weather patterns, especially the increased frequency of extreme weather events
- She hypothesizes that the Arctic amplification will lead to more persistent weather regimes, such as the previous multi-year drought in California followed in 2016/17 by record-breaking precipitation
- Jennifer also spends her time writing articles for non-scientific journals and magazines, interviewing for news programs, documentaries, and speaking to various public groups about connections between climate change and extreme weather



Rebecca Waddington

- B.S., Meteorology, San Jose State University, 2004
- Rebecca is currently a Commander in the NOAA Corps, currently serving as a Gulfstream-IV pilot and as Deputy Chief of the Operations Branch at the NOAA Aircraft Operating Center
- Her main duty is to operate the high-altitude research jet in support of NOAA science
- Her primary mission is Hurricane Surveillance. Throughout the hurricane season, her jet is on stand-by to fly operational or research based missions where she collects data for use by NHC and HRD. The data gets ingested in the numerical forecast models and greatly impact the track forecast.
- Other missions include, measuring minute fluctuations in gravity to adjust the national vertical datum and studying Atmospheric Rivers



Dian Seidel

- M.S., Meteorology, San Jose State University, 1984
- Highlights of her career include:
- Research on signals of global and regional climate change in the free atmosphere, including detection of changes in tropospheric and stratospheric temperature, tropopause characteristics, the width of the tropical belt, and the height of the planetary boundary layer
- Leading efforts to establish global climate observing systems, in particular reference-quality observations of upper-air properties
- Contributions to international activities including: the WMO/UNEP Scientific Assessments of Ozone Depletion; the Nobel Peace Prize-winning Intergovernmental Panel on Climate Change; the World Climate Research Programme; and the World Meteorological Organization's efforts to enhance the participation of women in meteorology and hydrology.

