

# AMS 2023 AWARDS



# AMS Fellow

## Bryan T. Busby

Chief Meteorologist, KMBC 9 News, Kansas City, Missouri

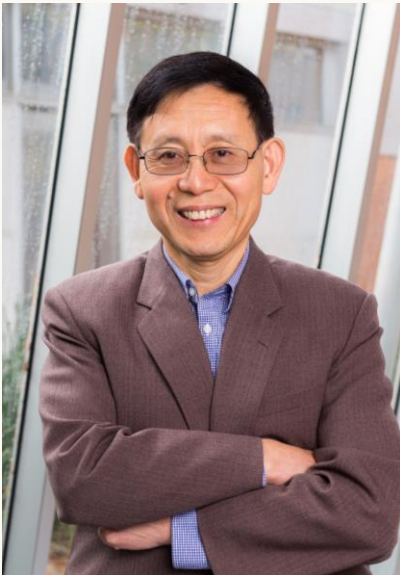


Bryan Busby is a meteorologist and Emmy award winner with more than four decades of forecasting experience. A Saint Louis University graduate, Bryan has been an AMS Sealholder since 1986. He was appointed KMBC's chief meteorologist in 1988. Bryan served on the AMS Broadcast Board and named chair in the late 1990s. In 2011, he was honored with the AMS Award for Broadcast Meteorology. Bryan is the patent holder for a Local Weather MesoNet.

# AMS Fellow

## Wenju Cai

Chief Research Meteorologist, CSIRO, Aspendale, Victoria, Australia

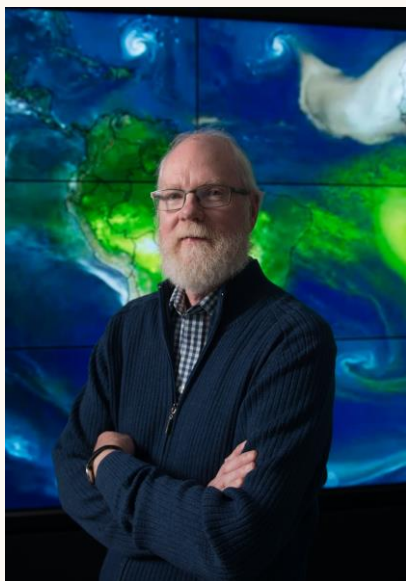


Dr Wenju Cai is a CSIRO chief research scientist. He studies dynamics, mechanism, and impact of climate variability in the tropics, such as El Niño–Southern Oscillation and the Indian Ocean Dipole, and their response to greenhouse warming. His service to scientific communities includes contributing authorship to IPCC reports, co–Chair of World Climate Research Programme CLIVAR Pacific Panel, and co–Chair of the CLIVAR Scientific Steering Group. He is a Fellow of Australia Academy of Science.

# AMS Fellow

## Gregory R. Carmichael

Professor, University of Iowa, Iowa City, Iowa



Greg Carmichael is the Karl Kammermeyer Professor of Chemical and Biochemical Engineering and director of the University of Iowa. His research is focused on the development of comprehensive air quality models and their application to regional and international air pollution problems. His studies have led to a greater appreciation and understanding of the importance of long-range transport of pollutants within Asia and across the Pacific.



# AMS Fellow

## David Changnon

Professor Emeritus, Northern Illinois University, DeKalb, Illinois



Dr. David Changnon retired as professor and chair of the Department of Geographic and Atmospheric Sciences in June 2020. His research focused on applied climatology, and climate variability and extremes. He engaged students in projects that bridged the climate information gap between climate scientists and many weather sensitive decision makers by developing decision tools and models. He served on AMS boards and committees, an Academy of Science NRC panel, and climate change assessment groups.

# AMS Fellow

## Meghan F. Cronin

Research Oceanographer, NOAA Pacific Marine Environmental Laboratory, Seattle, Washington



Meghan Cronin is a research oceanographer at NOAA's Pacific Marine Environmental Laboratory where she leads the Ocean Climate Stations group that maintains two OceanSITES reference moorings in the North Pacific. Her research interests include air-sea interactions, tropical and western boundary current dynamics, and use of innovative technologies like Uncrewed Surface Vehicles for multi-disciplinary research. She currently co-leads the Observing Air-Sea Interactions Strategy (OASIS) programme of the UN Decade of Ocean Sciences for Sustainable Development.

# AMS Fellow

## Paolo D'Odorico

Professor, University of California, Berkeley,  
Berkeley, California

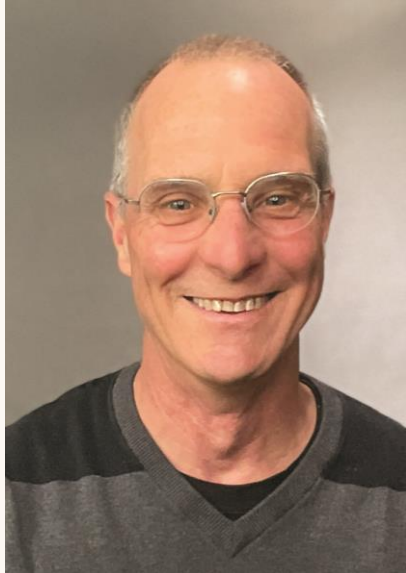


Paolo D'Odorico is the Thomas J. Graff Professor of Water Resources at the University of California, Berkeley. His research focuses on the role of hydrological processes in the functioning of terrestrial ecosystems and societies. He is studying new mechanisms of desertification and the effect of positive ecohydrologic feedback on ecosystem resilience at the desert margins. His research also focuses on water security, the globalization of water, and water equity and justice.

# AMS Fellow

## Art DeGaetano

Professor, Cornell University, Ithaca, New York



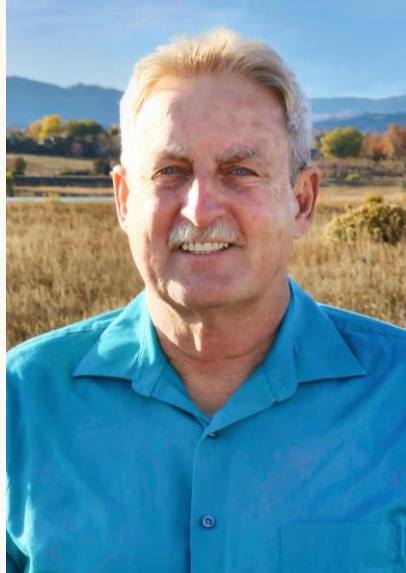
Art is a professor of Earth and Atmospheric Sciences at Cornell University where he directs the Northeast Regional Climate Center. The center is a key partner in NOAA regional climate services. Art's research covers topics within the area of applied climatology, including data quality, data set development, and applications of climate information in engineering and agriculture. Art served as the first climatology editor of the Journal of Applied Meteorology and Climatology. He received his Ph.D. from Rutgers University.



# AMS Fellow

## Mark DeMaria

Senior Research Scientist, Colorado State University,  
Fort Collins, Colorado



Dr. Mark DeMaria is a senior research scientist at the Cooperative Institute for Research in the Atmosphere at Colorado State University. He spent most of his career at NOAA working in research and operations, with an emphasis on tropical cyclone forecasting and satellite meteorology. DeMaria was the lead developer on several guidance models used at the National Hurricane Center. He has received several awards from NOAA and the American Meteorological Society.



# AMS Fellow

## Julie L. Demuth

Project Scientist, NCAR, Boulder, Colorado



Julie Demuth, Ph.D., is a project scientist at NCAR. She conducts research on hazardous weather risk communication, risk perception, and decision-making, including how these intersect with predictability and prediction capabilities. Julie's B.S. and M.S. are in atmospheric science, and her Ph.D. is in communication. Her love for weather and its effects on people stems from when 7 tornadoes hit Grand Island, NE, on June 3, 1980, where her family lived at the time.

# AMS Fellow

## Jiwen Fan

Laboratory Fellow and Earth Scientist, Pacific Northwest  
National Laboratory, Richland, Washington



Jiwen Fan is a laboratory fellow and an Earth scientist at Pacific Northwest National Laboratory (PNNL). She received her Ph.D. degree from Texas A&M University. Her research encompasses atmospheric chemistry and aerosols, cloud physics, convective systems, severe weather, and aerosol–cloud–precipitation–climate interactions. Her primary focus was on advancing fundamental understandings of aerosol impacts on deep convective storms, precipitation, and climate. She was a recipient of 2015 American Geophysical Union (AGU) Ascent awards.

# AMS Fellow

## Yu Gu

Associate Director, University of California, Los Angeles,  
Los Angeles, California



Yu Gu is an associate director of the Joint Institute for Regional Earth System Science and Engineering and an adjunct professor of the Department of Atmospheric and Oceanic Sciences at UCLA. Her research focuses on cloud, radiation, and aerosol processes and their interactions and impacts on climate. She has extensive community service and is an editor of *Geophysical Research Letters* and associate editor of *Journal of Geophysical Research–Atmospheres* and *Frontiers in Environmental Science*.

# AMS Fellow

## Weiqing Han

Professor, University of Colorado, Boulder, Colorado



Dr. Weiqing Han is a professor of physical oceanography and climate at the University of Colorado at Boulder. She received her Ph.D. at Nova Southeastern University in 1999. Her research focuses on large-scale ocean circulation and dynamics, regional sea level variability and change, sea surface height and heat extremes, and interannual to decadal climate variability particularly in the Indian Ocean. Dr. Han is also passionate about her role as a teacher.



# AMS Fellow

## Yongyun Hu

Professor, Peking University, Beijing, China



Yongyun Hu is a professor at Peking University. He received his Ph.D. degree from the University of Chicago in 2000. His research interests include present-day climate change, deep-time climate, and planetary climate. He had served as the chair of the AOS Dept. of Peking University and the lead author of IPCC-AR5. He published about 170 articles and book chapters and currently serves as editor for several journals.



# AMS Fellow

## Anthony “Andy” Johnson

Principal & Founder, Johnson Forensic Meteorological Consulting, Tampa, Florida



Andy Johnson, CCM, CBM is an FSU graduate who was an on-air meteorologist for WTVT Tampa for 34 years and consulted for WeatherVision concurrently. Johnson implemented the first digital weathercast in 1979. He mentored college meteorology students through his internship program. Johnson authored over one thousand peer-reviewed private forensic meteorological reports. He has testified as a meteorological expert over 200 times. Johnson served as president of the AMS West Central Florida Chapter for 18 years.

# AMS Fellow

## Jack Kain

Weatherjack LLC, North Chesterfield, Virginia



Jack Kain developed and implemented a convective parameterization scheme that was used worldwide for NWP. His work often had direct ties to operational forecasting and as a scientist at the National Severe Storms Laboratory (NSSL) he co-founded the NOAA Hazardous Weather Testbed, exploring potential forecasting applications of convection-allowing models. He devoted three years to model physics development at NCEP/EMC in the late 2010s before ending his federal career as director of NSSL.

# AMS Fellow

## Sonia Lasher-Trapp

Professor, University of Illinois Urbana-Champaign,  
Urbana, Illinois



Sonia Lasher-Trapp leads a research group that studies precipitation processes and cumulus entrainment in warm and mixed-phase clouds, using high-resolution numerical models as well as observational data sets acquired during field campaigns. She has also collaborated with science education experts to evaluate the effects of introducing authentic research experiences into undergraduate courses in atmospheric science. She was honored with the AMS Edward N. Lorenz Teaching Excellence Award in 2021.

# AMS Fellow

## Jennifer Mahoney

Director, NOAA Global Systems Laboratory, Boulder, Colorado



Jennifer Mahoney is the director of the NOAA Global Systems Laboratory (GSL) and the director of the Earth System Research Laboratories. She leads an organization of nearly 200 meteorologists, software engineers, and support staff dedicated to “forecast systems that deliver solutions”. GSL research provides NOAA National Weather Service (NWS), the Federal Aviation Administration, and the public with rapidly-updating environmental models, state-of-the-art decision support tools, innovative visualization systems, and high-performance computing technology to support commerce and a weather-ready nation.



# AMS Fellow

## Eric D. Maloney

Professor and Department Head, Colorado State University,  
Fort Collins, Colorado



Eric Maloney is a professor and department head in the Department of Atmospheric Science, Colorado State University. He received his Ph.D. from the University of Washington and has also held positions at NCAR and Oregon State University. His work includes tropical meteorology, climate dynamics, ocean-atmosphere interactions, and tropical-extratropical interactions. He has served as editor for *Journal of Climate*, associate editor for *Monthly Weather Review*, and member of the AMS Committee on Climate Variability and Change.



# AMS Fellow

## Shaima L. Nasiri

Physical Scientist, U.S. Department of Energy, Washington, DC



Dr. Shaima Nasiri is a program manager for DOE's Atmospheric System Research (ASR) program. ASR supports university and national laboratory research projects aimed at improving understanding and model representation of the processes governing the interactions among aerosols, clouds, precipitation, radiation, dynamics, and thermodynamics. She co-leads DOE initiatives focused on increasing the diversity in climate and environmental sciences and represents DOE on interagency committees, including co-chairing USGEO's Satellite Needs Working Group.

# AMS Fellow

## Ali H. Omar

Deputy Director of Sciences (Acting), NASA Langley Research Center, Hampton, Virginia



Dr. Ali H Omar (Ph.D., University of Illinois Champaign–Urbana) is currently the deputy director of science (Acting) at NASA Langley and is an aerosol physicist interested in the retrieval of aerosol properties from remotely sensed data. Dr. Omar is also passionate about encouraging students from under-represented groups to pursue geoscience careers. He was part of a pioneering group of professors that established the Center for Atmospheric Sciences at Hampton University, an HBCU. He lives in Yorktown, VA with his wife and two daughters.

# AMS Fellow

## Perry Samson

Professor, University of Michigan, Ann Arbor, Michigan



Perry is a professor in the Department of Climate and Space Sciences and Engineering at the University of Michigan. He's been honored as an Arthur Thurnau Professor for contributions to undergraduate education, the Professor of the Year in the State of Michigan, and recipient of the University's "Distinguished Innovator Award" as co-founder of The Weather Underground, LectureTools and LearningClues. A documentary about Perry's recent experiential learning expedition to Greenland was awarded an Emmy in 2021.

# AMS Fellow

## Vijay Tallapragada

Senior Scientist, NOAA/NWS/NCEP Environmental Modeling  
Center, College Park, Maryland



Dr. Vijay Tallapragada is the senior scientist (ST) for NOAA's Environmental Modeling Center (EMC), leading and advancing the development and operational implementation of community-based prediction systems within the Unified Forecast System (UFS) framework. He is currently serving as a co-lead of the UFS Research to Operations (UFS-R2O) project, and development manager of the Hurricane Forecast Improvement Project (HFIP). He received his M.S. (meteorology), M.Tech. (atmospheric sciences), and Ph.D. (tropical meteorology) from Andhra University, India.



# AMS Fellow

## Jean-Noël Thépaut

Director of Copernicus Services, European Centre for Medium-range Weather Forecasts, Bonn, Germany



Jean-Noël Thépaut is director of Copernicus Services at ECMWF and leads the Copernicus Climate Change (C3S) and Atmosphere Monitoring Services (CAMS). Before, he led the Data Division and was deputy director of research, in charge of the development of world class data assimilation algorithms for numerical weather prediction, exploitation of meteorological satellite observations, and development of the climate reanalyses. Jean-Noël, originally from Météo-France (France), received his Ph.D. from Paris University in 1992, on atmospheric data assimilation. He serves on many international scientific committees.



# AMS Fellow

## Susan E. Wijffels

Senior Scientist, Woods Hole Oceanographic Institution,  
Woods Hole Massachusetts



Susan aims to quantify and understand the role of the ocean in climate, key aspects of the large-scale ocean circulation and the patterns and drivers of global ocean change. She also has a strong focus on the design, implementation and improvement of the Global Ocean Observing System (GOOS), co-chairing the international Argo Steering Team. After over 20 years at the CSIRO in Australia, Susan is now a senior scientist at the Woods Hole Oceanographic Institution.

# The Walter Orr Roberts Lecturer in Interdisciplinary Sciences

## **Julie L. Demuth**

Project Scientist, National Center for Atmospheric Research, Boulder, Colorado

*For groundbreaking interdisciplinary research to improve hazardous weather risk communication and dedicated work promoting the exchange of knowledge across the meteorology and social sciences communities*



Julie Demuth, Ph.D., is a project scientist at NCAR. She conducts research on hazardous weather risk communication, risk perception, and decision-making, including how these intersect with predictability and prediction capabilities. Julie's B.S. and M.S. are in atmospheric science, and her Ph.D. is in communication. Her love for weather and its effects on people stems from when 7 tornadoes hit Grand Island, NE, on June 3, 1980, where her family lived at the time.

# The Robert E. Horton Lecturer in Hydrology

## **Hamid Moradkhani**

Professor and Director, The University of Alabama, Vestavia, Alabama

*For groundbreaking research on ensemble data assimilation and advancing the understanding of hydroclimate extremes*



Dr. Hamid Moradkhani is Alton N. Scott Endowed Professor at the University of Alabama, Department of Civil and Environmental Engineering and director of the Center for Complex Hydrosystems Research. His research focuses on hydroclimate extremes, uses and develops state-of-the-art data assimilation, uncertainty quantification, vulnerability and risk analysis methods. He is a fellow of ASCE and EWRI and recipient of awards such as ASCE Arid Lands Hydraulic Engineering award (2021) and AAWRE outstanding research and innovation award (2020).

# The Bernhard Haurwitz Memorial Lecturer

## Paul O’Gorman

Professor, Massachusetts Institute of Technology, Cambridge,  
Massachusetts

*For fundamental advances in understanding the atmospheric general circulation  
and the hydrological cycle in different climate states*



Paul O’Gorman is a professor of atmospheric science at MIT. His research is motivated by the need to understand how the hydrological cycle and atmospheric circulations respond to climate change. Particular areas of interest include the extratropical storm tracks, moist convection, and extreme precipitation. His research group is also working to improve the representation of convection in climate models through the use of machine learning.



# Local Student Chapter of the Year

## Northern Vermont University Lyndon Student Chapter



*For outstanding commitment to its members, the community, and the Society through innovative activities along with various community service, outreach, and professional development opportunities*



# Local AMS Chapter of the Year

## North Florida Chapter



*For exemplary dedication to community service, outreach, and professional development by providing members various local and national opportunities*

# The Charles L. Mitchell Award

## Thomas T. Lindley

Science and Operations Officer, NOAA/NWS, Norman, Oklahoma

*For seminal fire weather forecasting science and innovative applications used in operational settings enhancing fire preparedness, safety, and awareness in Oklahoma and Texas since 2006*



Thomas “Todd” Lindley has been the science and operations officer at NOAA/NWS WFO Norman, Oklahoma, since 2015. His 27-year NWS career has spanned service at forecast offices in both Texas and Oklahoma, also including: Tulsa, Amarillo, Midland, and Lubbock. Mr. Lindley holds a Bachelor of Science in meteorology from the University of Oklahoma and has collaboratively led efforts to improve decision support services for wildfire threats on the southern Great Plains.

# The Award for an Exceptional Specific Prediction

## **Andrew W. Orrison and the Weather Prediction Center Team**

Meteorologist, NOAA/NWS/NCEP Weather Prediction Center, College Park, Maryland

*For exceptional, timely predictions and communication of impacts of the devastating flash flooding from Hurricane Ida in the Northeast United States in September 2021*



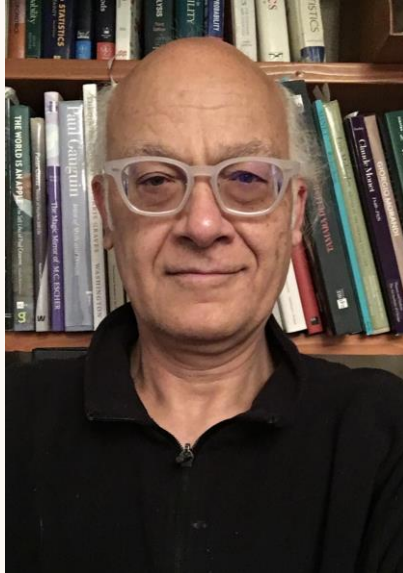
Andrew Orrison is a meteorologist at NOAA's Weather Prediction Center (WPC), and has spent over 20 years specializing in winter weather, quantitative precipitation, and flash flood forecasting. Andrew is the MetWatch program lead and satellite focal point at WPC. He works closely with scientists at multiple cooperative research institutes, including CIRA, CIMSS, and NASA SPoRT, with a dedication to executing Research-to-Operations (R2O) initiatives. Andrew earned his B.S. degree in meteorology from The Pennsylvania State University.

# Editor's Award – Bulletin of the American Meteorological Society

## **Caren Marzban**

Lecturer, University of Washington, Seattle, Washington

*For providing insightful expertise and outstanding guidance on a difficult manuscript with other conflicting reviews*



Caren Marzban began his career as a mathematical physicist, but the latter decades of his work have been in applied statistics. He is a principal physicist at the Applied Physics Laboratory, and lecturer in the statistics department at the University of Washington. He is a former chair of the AMS's Committee on Artificial Intelligence and its Application to Environmental Sciences.



# Editor's Award – Bulletin of the American Meteorological Society

## I-I Lin

Professor, National Taiwan University, Taipei, Taiwan

*For insightful and detailed comments that have been instrumental in reaching publication decisions on challenging manuscripts*



I-I Lin is a distinguished professor and former chair of the Department of Atmospheric Sciences, National Taiwan University, Taipei, Taiwan. She obtained her Ph.D. in remote sensing from the University of Cambridge, UK, in 1995. In the past 2–3 decades, she works in the field of tropical cyclone–ocean interaction, especially how super-typhoons interact with different ocean processes (eddies, El Nino, La Nina, multi-decadal variability, and global warming). Her secondary interest is in air–sea physical/biogeochemical interaction.



# Editor's Award – Journal of Applied Meteorology and Climatology

## **Craig Ramseyer**

Assistant Professor, Virginia Polytechnic Institute and State University,  
Blacksburg, Virginia

*For providing extremely high-quality reviews in difficult topical areas*



Dr. Craig Ramseyer is an assistant professor in the Department of Geography at Virginia Tech. He received his Ph.D. from the University of Georgia in 2016. His research leverages machine learning to examine drought and precipitation in the tropics and mid-latitudes. Craig is a member of the Unidata Users Committee and on the executive committee for the Southern Appalachian Weather and Climate Workshop.

# Editor's Award – Journal of Atmospheric and Oceanic Technology

## **Falk Huettmann**

Associate Professor, University of Alaska, Fairbanks, Alaska

*For providing fast and insightful reviews, especially in the area of  
machine learning applications to ocean research*



Falk is a 'digital naturalist' researching climate change, global sustainability and wildlife ecology. With a M.Sc. (forestry, Germany, thesis in Norway), a Ph.D. (arctic seabirds, Canada), two Postdocs (coastal old-growth forest, Rocky Mountain grizzly bears) and an M.B.A. (UAF) he works worldwide – on all continents, the ocean and atmosphere. Employing machine learning/AI and geographic information systems (GIS) he investigates wider holistic views, resulting into over 300 publications, data sets and 9 books.




# Editor's Award – Journal of Climate

## **Haiyan Teng**

Staff Scientist, Lawrence Berkeley National Laboratory, Berkeley,  
California

*For thoughtful and constructive reviews*

Haiyan's research has been primarily focused on furthering our understanding of variability, change and predictability of the Earth System. She has published on a wide range of topics, including climate change, teleconnections and decadal predictability.



# Editor's Award – Journal of Climate

## **Sang–Wook Yeh**

Professor, Hanyang University, Ansan, South Korea

*For providing a very large number of reviews*



Sang–Wook Yeh is a professor at Hanyang University (ERICA), South Korea. He received his B.S. (1992), M.S. (1994) and Ph.D. (2001) degrees in atmospheric science from Seoul National University, South Korea. His research interest focuses on understanding climate variability and climate change related to ocean atmosphere coupled processes, hydrological cycle, and climate–chemistry interactions by analyzing the observations, earth system model and conducting model experiment.



# Editor's Award – Journal of Climate

## **Chaim I. Garfinkel**

Professor, The Hebrew University, Jerusalem, Israel

*For reviews that are consistently of high quality*



Chaim Garfinkel is a professor of earth science at the Hebrew University of Jerusalem, where he is also head of the Graduate Department of Atmospheric Science. His research work centers on atmospheric dynamics, with a specific focus on coupled stratosphere–troposphere variability. He is motivated by problems on timescales ranging from the subseasonal to improving seasonal predictions and long-term climate projections.

# Editor's Award – Journal of Hydrometeorology

## **Zhao Yang**

Research Scientist, Pacific Northwest National Laboratory, Richland,  
Washington

*For providing high quality and constructive manuscript reviews*



Zhao Yang received his Ph.D. from the University of Arizona. Now he is a research scientist in the Pacific Northwest National Laboratory (PNNL). His major research areas include land–atmosphere interactions, anthropogenic impact on regional climate, moisture transport in the South America and heat waves in the United States. He is also interested in land surface processes, such as lateral flow and root dynamics. Prior to joining the PNNL, Zhao was a postdoc at University of Illinois, Urbana–Champaign.

# Editor's Award – Journal of Physical Oceanography

## **Jim Thomson**

Oceanographer, University of Washington, Seattle, Washington

*For generously and reliably reviewing many papers related to his work*



Jim Thomson is a senior principal oceanographer at the University of Washington's Applied Physics Lab and a professor in the Dept. of Civil & Environmental Engineering. Dr. Thomson studied applied ocean physics and engineering in MIT's joint program with the Woods Hole Oceanographic Institution, receiving a Ph.D. in 2006. Dr. Thomson studies waves and turbulence at the surface of the ocean, including interactions with sea ice. His work emphasizes field measurements and physical processes and includes the development of instrumentation and autonomous platforms.

# Editor's Award – Journal of Physical Oceanography

## **Beatriz Peña–Molino**

Research Scientist, CSIRO Oceans and Atmosphere, Tasmania, Australia

*For providing thoughtful and comprehensive reviews that led to noticeable improvements in the manuscripts*



Dr. Beatriz Peña–Molino is a research scientist in the Climate Science Centre at the Commonwealth Scientific and Industrial Research Organisation (Australia). She holds a Ph.D. in physical oceanography from the Massachusetts Institute of Technology–Woods Hole Oceanographic Institution joint program. In her work she combines observations and numerical models to explore the ocean circulation and how it modulates climate from the tropics to the poles.



# Editor's Award – Journal of the Atmospheric Sciences

## **Allison A. Wing**

Associate Professor, Florida State University, Tallahassee, Florida

*For insightful and balanced reviews that led to major improvements  
during a challenging review process*



Dr. Allison Wing is an associate professor in the Department of Earth, Ocean and Atmospheric Science at Florida State University. Prior to arriving at FSU, she was an NSF postdoctoral research fellow at Lamont–Doherty Earth Observatory at Columbia University. She received a B.S. in atmospheric science in 2008 from Cornell University and an Ph.D. in atmospheric science from the Massachusetts Institute of Technology. Her research focuses on tropical convection, tropical cyclones, and climate.

# Editor's Award – Monthly Weather Review

## **Rebecca Adams–Selin**

Senior Manager, Verisk Atmospheric and Environmental Research,  
Papillion, Nebraska

*For thorough, thoughtful, and constructive reviews of numerous  
manuscripts on convective storms*



Dr. Adams–Selin is the senior manager leading the Modeling Atmospheric Components and Processes Group at Verisk Atmospheric and Environmental Research (AER). She received her Ph.D. in atmospheric science from Colorado State University in 2012 before joining the Research and Development Division at AER. Her research interests include all aspects of convection, including hail modeling and prediction, convectively generated gravity waves, updraft entrainment, and microphysical impacts.

# Editor's Award – Monthly Weather Review

## **Justin G. McLay**

Meteorologist, Naval Research Laboratory, Monterey, California

*For contributing constructive, insightful, and timely reviews for a large number of manuscripts on a diverse range of topics*



Justin McLay is a meteorologist with the U.S. Naval Research Laboratory (NRL) Marine Meteorology Division. His research interests include ensemble design, predictability, forecast verification, data science/post-processing, decision support, and research to operations (R2O). His AMS activities have included the Weather Analysis and Forecasting Committee (2015–2020) and associate editor of MWR (2015–present). He received a Ph.D. in atmospheric science from the University of Wisconsin–Madison in 2004.

# Editor's Award – Weather and Forecasting

## **Alexandra Anderson–Frey**

Assistant Professor, University of Washington, Seattle, Washington

*For contributing numerous constructive and rigorous reviews that  
exhibited versatility across a broad range of subject areas*



Alexandra Anderson–Frey is a Calvin Professor and assistant professor at the University of Washington's Department of Atmospheric Sciences. Her research interests include midlatitude convection, environments of severe storms, land surface interactions, and variability due to climate change. She holds a Ph.D. in meteorology and atmospheric science from Penn State University and an M.Sc. in atmospheric science from McGill University.



# Editor's Award – Weather and Forecasting /Journal of Applied Meteorology and Climatology

## **Maria J. Molina**

Assistant Professor, University of Maryland, College Park, Maryland

*For multiple high-quality, thorough, and rapid reviews*



Dr. Maria J. Molina is an assistant professor within the Department of Atmospheric and Oceanic Science at the University of Maryland, College Park. Her research interests include machine learning and numerical modeling applications for climate and extremes. Maria also serves as co-chair of the AMS Early Career Leadership Academy, a member of the AMS Board on Representation, Accessibility, Inclusion, and Diversity, and an academia ambassador for the AMS Committee for Hispanic and Latinx Advancement.

# Editor's Award – Weather, Climate, and Society

## **Adrienne M. Wootten**

Research Scientist, University of Oklahoma, Norman, Oklahoma

*For insightful, thoughtful, and professional critiques on numerous manuscripts and their revisions*



Dr. Adrienne M. Wootten is a research scientist who specializes in the accuracy and uncertainty associated with downscaling and climate modeling and the appropriate use of climate projections in impact assessments and climate adaptation planning. She also provides technical assistance to stakeholders using climate projection for impact assessments and decision-making in the south-central U.S. She received her B.S. in meteorology (2008), M.S. (2011), and Ph.D. (2016) in atmospheric science from North Carolina State University.

# Editor's Award – Cross-Journal

## Ryan Sobash

Project Scientist, NCAR/MMM, Boulder, Colorado

*For meritorious service as a reviewer for five AMS journals, providing numerous high-quality reviews over the past several years*



Ryan Sobash is a project scientist within the Mesoscale and Microscale Meteorology Laboratory at the National Center for Atmospheric Research. Ryan holds a MS and PhD in meteorology from the University of Oklahoma and a BS in meteorology from Penn State University. His research is focused on improving predictions of high-impact weather events, specifically those associated with severe convection, using a suite of tools including convection-allowing NWP models and ensembles, high-resolution data assimilation approaches, and machine learning techniques.

# Editor's Award – Glossary of Meteorology

## Jennifer Tate

Meteorologist, National Weather Service Weather Prediction Center,  
College Park, Maryland

*For leadership and initiative in leading reviews of both new and existing  
Glossary terms in a timely, thorough manner with attention to details*



Jennifer Tate is a meteorologist (operational forecaster) at the National Weather Service Weather Prediction Center. She creates weather forecasts for all 50 U.S. states and Washington, D.C. as well as surface analyses for much of North America. Jennifer has her B.S. in meteorology from the University of Oklahoma and her M.S. in atmospheric science from North Carolina State University.



# The Award for Early Career Professional Achievement

## Violeta Yas

Meteorologist, NBC New York (WNBC-TV), New York, New York

*For exceptional service as an early career professional advancing bilingual science communication, STEM outreach, and public safety in support of the AMS mission*



Violeta Yas is an Emmy®-winning meteorologist at NBC New York. Prior, she served as chief meteorologist at Telemundo62/NBC10 in Philadelphia. Violeta was born in Argentina, later studying journalism & Spanish at Rutgers University. She then earned her Certificate of Broadcast Meteorology at Mississippi State. PhillyMan Magazine's Woman of the Year in 2018, she regularly visits classrooms to read her bilingual children's book, *The Meteorologist in Me*. She has been a lead broadcast ambassador for AMS's CHALA since its inception.

# The Henry G. Houghton Award

## Jing Li

Associate Professor, Peking University, Beijing, China

*For innovative technical advances in data assessment techniques, educational mentoring, and for promoting climate science at the international level*



Jing Li is an associate professor in the Department of Atmospheric and Oceanic Sciences, School of Physics, Peking University. She completed her Ph.D. from Columbia University in 2006, and worked at NASA GISS until 2015. She has been devoted to the observation of atmospheric aerosols, and the study of their optical properties and radiative effects. She has published more than 60 peer reviewed papers and received the Elsevier/JQSRT Richard Goody Award.

# The Clarence Leroy Meisinger Award

## Angeline G. Pendergrass

Assistant Professor, Cornell University, Ithaca, New York

*For original insights into the processes associated with precipitation variability and extremes and envisioned changes in variability due to global warming*



Dr. Angeline Pendergrass is an assistant professor in Cornell University's Department of Earth and Atmospheric Sciences and a project scientist II at the National Center for Atmospheric Research. Her work investigates how we quantify precipitation in observations and climate models, as well as why and how it responds to climate variability and change. She holds a Ph.D. from the University of Washington and a B.S. from the University of Miami.

# The Award for Excellence in Science Reporting by a Broadcast Meteorologist

## **Angie Lassman, CBM**

Meteorologist, NBC 6 – WTVJ, Miramar, Florida

*For documenting the unprecedented climate change impacts occurring in Australia and their relationship to the potential climate challenges threatening South Florida's future*



Angie Lassman is an AMS-certified broadcast meteorologist and an Emmy-award-winning and Telly-award-winning environmental reporter at NBC 6 WTVJ in South Florida. Before joining the First Alert Weather team, she was the weekday morning meteorologist at Fox 26 KNPB in Saint Joseph, Missouri. A native of Fraser, Michigan, Angie attended the Florida Institute of Technology where she graduated with a Bachelor of Science and Master of Science in Meteorology. While at FIT, she co-authored a chapter in the book titled *Climate Change and Regional/Local Responses*.



# The June Bacon–Bercey Award for Broadcast Meteorology **Bernard J Rayno**

Chief Video Meteorologist, AccuWeather, Inc, State College, Pennsylvania

*For his entertaining and informative television and internet weather videos and his training of other distinguished television weather broadcast meteorologists*



Bernie's love for the weather began at age 5. He was enthralled by Nor'easter snowstorms that ravaged the region. Bernie earned his Bachelor of Science in meteorology from Penn State University. As chief video meteorologist at AccuWeather, Bernie is at the forefront of breaking weather coverage. During his 32-year tenure, Bernie has been a driving force for the company's on-air, web, and mobile weather videos. Bernie is a proven expert specializing in snowstorms and hurricanes.

# The Award for Distinguished Science Journalism in the Atmospheric and Related Sciences

## Kay Nolan

Freelance Journalist, The Washington Post Capital Weather Gang

*For vital, in-depth reporting on language barriers, translation challenges, and dialect nuances that experts experience when providing crucial, life-saving weather information to Spanish-speaking communities*



Kay Nolan is a freelance member of The Washington Post Capital Weather Gang/Climate and Environment team, where she has been covering diversity issues and reporting on lesser-known impacts of climate and weather on various populations. A seasoned news reporter, she has covered government, politics, education, health, business and diversity issues for both local newspapers/magazines and large national outlets. As a journalist, Kay sees climate/environmental news as especially important, encompassing all those categories.

# The Louis J. Battan Author's Award, K-12



**MK Reed**

Author, Seattle,  
Washington

*For “Science Comics, Wild Weather, Storms, Meteorology, and Climate”, a comprehensive, entertaining, and engaging story that accurately discusses weather and climate in a strongly visual comic format*

MK Reed is the author of many comics, including *Penny Nichols*, *The Cute Girl Network*, *Palefire*, the Eisner-nominated *Science Comics: Dinosaurs*, and *Science Comics: Wild Weather*. Her first graphic novel, *Americus*, was drawn by Jonathan Hill & was the winner of the New Atlantic Independent Booksellers Association's 2012 Carla Cohen Free Speech Award. MK lives in Seattle with her very tall husband and small sassy dog.



**Jonathan Hill**

Author and Illustrator,  
Portland, Oregon

Jonathan Hill is an award-winning cartoonist, illustrator, and educator in Portland, OR. His books have been published by First Second Books, Oni Press, and Walker Books US. Some of his other clients include The Portland Trailblazers, Oregon Humanities, Microsoft, The Believer Magazine, Literary Arts, and Powell's City of Books.



# The Louis J. Battan Author's Award, Adult

## Ramalingam Saravanan

Professor & Head, Texas A&M University, College Station, Texas

*For “The Climate Demon: Past, Present, and Future of Climate Prediction”, a thoughtful and approachable guide to the history, philosophy, and process of climate modeling – which informs an important discussion of science’s role in policymaking*



Ramalingam Saravanan is professor and head of the Department of Atmospheric Sciences at Texas A&M University. He previously worked at the National Center of Atmospheric Research and the University of Cambridge. He holds degrees from Princeton University and the Indian Institute of Technology in Kanpur. His research uses complex scientific models to study our changing climate. He writes and blogs to explain the role of modeling in climate science and policy to a broad audience.



# Special Award

## David G. Lubar

Senior Project Leader, The Aerospace Corporation, Aurora, Colorado

*For leadership, enthusiasm, and commitment to spectrum management in support of the weather, water, and climate enterprise over the last two decades*



David is a senior project leader of spectrum engineering at The Aerospace Corporation. His 20-year involvement in weather satellites and space dates from 2002 when he led an effort to select sites on six continents for data relay, thru testimony at House Science in 2021 on passive spectrum. A founding member of the AMS Committee on Radio Frequency Allocation, he holds a B.S.E.E. from the University of Illinois and a graduate degree in engineering management from University of Colorado.

# The Award for Outstanding Services by a Corporation



*For groundbreaking work collecting, creating, and disseminating air pollution data and for promoting partnerships to maximize the utility and utilization for improved air quality awareness*

Plume Labs is best known for empowering people and organizations around the world with the most accurate air pollution maps, forecasts, and their award-winning Flow® personal pollution sensor. Acquired by the AccuWeather group in January 2022, Plume Labs continues to operate as the company's center for environmental data and machine learning — going beyond air pollution by applying their AI technology and expertise to a range of environmental risks.

# The Award for Outstanding Achievement in Biometeorology

## **Hans Peter “HaPe” Schmid**

Director of Institute of Meteorology and Climate Research, Karlsruhe  
Institute of Technology, Garmisch–Partenkirchen, Germany

*For exemplary accomplishments combining theoretical and experimental work  
to produce numerical models for studying biosphere–atmosphere exchanges  
of mass, energy, and momentum*



HaPe Schmid is the director of the Institute of Meteorology and Climate Research (IMK–IFU, KIT–Campus Alpin) of the Karlsruhe Institute of Technology in Garmisch–Partenkirchen and also holds a professorship at the Technical University of Munich (TUM). He studied earth sciences at ETH Zurich and received his PhD from the University of British Columbia in Canada. Before moving to Germany, he was a professor in the atmospheric science program at Indiana University Bloomington, Indiana.

# The Francis W. Reichelderfer Award

## **Thomas J. LeFebvre**

Meteorologist (retired), National Oceanic and Atmospheric Administration,  
Boulder, Colorado

*For 40 years of public service to incorporate new science into developing tools that improve forecaster efficiency resulting in countless life-saving products*



Tom LeFebvre is a retired meteorologist from the Global Systems Laboratory at ESRL/NOAA in Boulder, Colorado. He spent the majority of his career developing applications for operational meteorologists toward improving both the science and the ease of the digital weather forecast process. Working directly with forecasters, his techniques are employed at local forecast offices across the country, at several national centers, and internationally in Spain, Taiwan, and Australia.



# The Helmut E. Landsberg Award

## Dev Niyogi

Professor, University of Texas at Austin, Austin, Texas

*For decades of leadership and pathbreaking discoveries related to assessing urban climate extremes, their prediction and mitigation using data–model integration, and local to global partnerships*



Professor Dev Niyogi, William Stamps Farish Chair at University of Texas at Austin, also, professor emeritus and former state climatologist, Purdue University. His work advances the understanding of the Earth system, particularly the urban and agricultural landscapes, and their dynamic role in weather and regional climatic extremes. An important focus is to translate the scientific understanding into usable products building digital tools and stakeholder partnerships for sustainable climate–resilient cities.

# The Charles E. Anderson Award

## **Ada R. Monzon**

Chief Meteorologist, WAPA-TV, Guaynabo, Puerto Rico

*For being a tireless champion for diversity by broadening the knowledge of sciences through education and outreach in all communities throughout Puerto Rico and beyond*



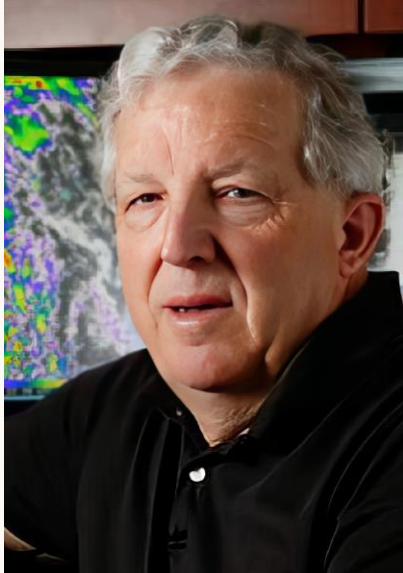
Ada Monzón is WAPA-TV chief meteorologist and founder of EcoExploratorio: Science Museum of Puerto Rico, a non-profit community-based organization that inspires to protect our natural world, increase resilience to natural hazards and educate about the universe through STEM education. Monzón received an Honorary Doctorate in science, the highest level of academic achievement of the University of Puerto Rico. Her remarkable and tireless efforts in science education and community service have inspired, encouraged, and increased participation of women in STEM careers.

# The Henry T. Harrison Award for Outstanding Contributions by a Consulting Meteorologist

## **Jan Null, CCM**

Adjunct Professor, San Jose State University, Half Moon Bay, California

*For a career of exemplary service as an AMS Certified Consulting Meteorologist and for his tireless work to raise public awareness on the issue of heatstroke deaths in vehicles*



Jan Null, CCM founded Golden Gate Weather Services in 1998, after a 24-year career with the National Weather Service. He has been an adjunct professor at San Francisco and San Jose State Universities since 1987. His primary research activities have included California rainfall and Pediatric Vehicular Heatstroke (PVH). His PVH work is internationally recognized and he has worked with a wide variety of child safety groups and agencies to raise awareness about the children who die from heatstroke in hot vehicles each year.

# The Award for Outstanding Contribution to the Advance of Applied Meteorology

## **Marshall S. Moss**

VP of Operations Quality and Innovation, AccuWeather, Inc., State  
College, Pennsylvania

*For his innovative contributions to utilizing Artificial Intelligence to  
enhance weather, water, and climate prediction*



Marshall Moss began his AccuWeather career as an operational meteorologist monitoring severe weather. He quickly established himself as a go-to leader, advancing eventually to Vice President of Forecasting and Graphics Operations. Today, as Vice President of Operations Quality and Innovation, Moss works to achieve increased efficiencies and superior execution throughout all AccuWeather businesses, including leading an effort to ensure AccuWeather's digital forecast database generates forecasts that are the most accurate, most used globally, and communicated most effectively.



# The Syukuro Manabe Climate Research Award **Jonathan Gregory**

Professor, National Centre for Atmospheric Science, University of  
Reading, Exeter, United Kingdom

*For vital contributions to our understanding of climate sensitivity and  
rising sea level, and for assessments that communicate this  
understanding to policy-makers and the public*



Jonathan Gregory works as a modeller and analyst of global and large-scale changes in climate and sea level on multidecadal and longer timescales. His first degree was in physics and his Ph.D. in experimental particle physics. He is interested especially in identifying, understanding and constraining the physical processes which give rise to uncertainties in projections for the coming century. He was a lead author of the Third, Fourth and Fifth IPCC Assessment Reports.

# The Joanne Simpson Tropical Meteorology Research Award

## **Christopher D. Thorncroft**

Director, University at Albany, Albany, New York

*For theoretical advances in the meteorology and climate dynamics of Africa and the tropical Atlantic, and for leadership of international research in Africa*



Dr. Thorncroft is director of the Atmospheric Sciences Research Center and professor in the Department of Atmospheric and Environmental Sciences at the University at Albany. His research is focused on improving understanding of the nature and variability of atmospheric weather systems with a special emphasis on tropical weather systems over West Africa and how they impact Atlantic tropical cyclones. The research spans a wide range of timescales from diurnal-to-multidecadal and combines observational and modeling approaches.

# The Kenneth C. Spengler Award

## Neil A. Jacobs

Chief Science Advisor, UCAR, Boulder, Colorado

*For leadership in fostering community collaboration across the weather, water, and climate enterprise through the perspectives of science, policy, and business*



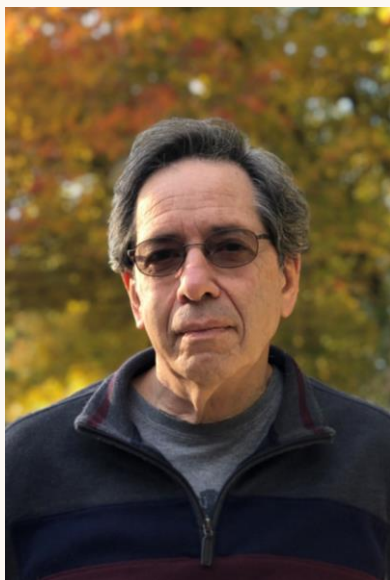
Neil Jacobs is the chief science advisor for the UFS within UCAR's Cooperative Programs for the Advancement of Earth System Science. Prior to joining CPAESS, he was the Assistant Secretary of Commerce for Environmental Observation and Prediction and Acting Under Secretary of Commerce for Oceans and Atmosphere. He received his Ph.D. in atmospheric science from North Carolina State University. His research interests include strategic innovation related to public-private-academic partnerships, high-performance computing, and numerical weather prediction.

# The Robert H. and Joanne Simpson Mentorship Award

## **Ralph A. Kahn**

Aerosol Scientist, NASA Goddard Space Flight Center, Greenbelt, Maryland

*For an exceptional career filled with dedication to mentoring with compassion, generosity, encouragement and scientific integrity*



Ralph Kahn received his Ph.D. in applied physics from Harvard University in 1980. After 20 years at the Jet Propulsion Laboratory studying the climate of Earth and Mars, he moved to NASA Goddard. Kahn is aerosol scientist for NASA's MISR instrument, studying wildfire smoke, desert dust, volcano and air pollution particle impacts on climate and air quality. Kahn has authored over 200 publications, is a University of Maryland adjunct professor, and chair of COSPAR Commission A.



# The Edward N. Lorenz Teaching Excellence Award

## **Paul L. Sirvatka**

Professor of Meteorology, College of DuPage, Glen Ellyn, Illinois

*For lifelong, impactful education and mentoring of diverse learners, and for trailblazing and championing experiential learning, innovative curriculum, and accessible data visualization*



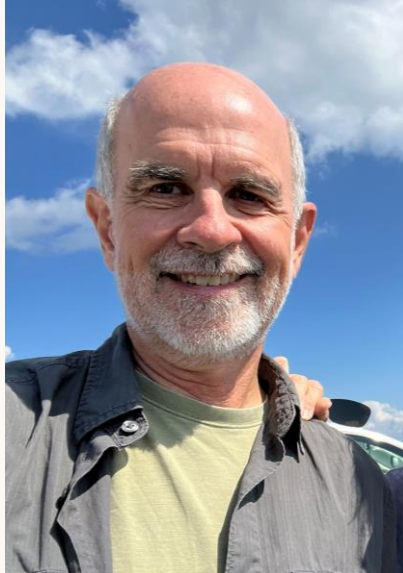
Paul Sirvatka has been a professor at College of DuPage for over 30 years and has developed the meteorology program into the foremost program of its kind at the community college level. Sirvatka has been a pioneer in college-level storm chasing, creating a program in the late 1980s. He is also the founder of the NEXRAD meteorological website. He has been recognized by various media across the country for his excellence in severe weather education.

# The Cleveland Abbe Award for Distinguished Service to the Atmospheric and Related Sciences

## **Stanley G. Benjamin**

Senior Scientist, NOAA Global Systems Laboratory, Boulder, Colorado

*For a career of pioneering work that has revolutionized regional to global high-impact weather prediction in the United States and around the world*



Stan Benjamin is a senior scientist in advanced earth-system modeling systems at the NOAA Global Systems Laboratory (Boulder, CO USA). Working with colleagues from positions at NOAA and NCAR, he developed innovative high-resolution NWP earth-system model and data assimilation approaches (introducing new observations) that improved operational prediction for severe weather, aviation, energy, and hydrology. He received his Ph.D. and M.S. degrees in meteorology at Penn State after a B.A. in math at Albion College.

# The Charles Franklin Brooks Award for Outstanding Service to the Society

## **Richard D. Rosen**

Senior Advisor for Climate Research, Climate Program Office/OAR/NOAA  
(retired), Silver Spring, Maryland

*For outstanding service as Secretary–Treasurer, STAC Commissioner,  
President, as well as visionary leadership as founding editor of Journal of  
Climate and State of the Climate reports*



Richard D. Rosen (Ph.D., Meteorology, MIT, 1974) retired from NOAA in 2014, having served in several positions including assistant administrator for research. Prior to joining NOAA in 2003, Rosen worked at ERT, Inc., and then at AER, Inc., where he was vice president and chief scientist and undertook research on grants from NSF, NASA, and NOAA. Rosen was also a senior lecturer at MIT, teaching a class on the atmosphere's general circulation for 29 years.



# The Verner E. Suomi Technology Medal

## V. Chandrasekar

Professor, Colorado State University, Fort Collins, Colorado

*For leadership in developing techniques to observe precipitation processes using dual-polarization and spaceborne radar*



Chandrasekar is a Professor at Colorado State University. His research broadly spans the areas of earth and space based remote sensing of clouds and precipitation. He served as the research director of the NSF Center for Collaborative Adaptive Sensing of the Atmosphere (CASA). He also played a key role in developing the CSU-CHILL National Radar Facility as one of the most advanced meteorological radar systems available for research and education and currently leads the technical team responsible for the SEAPOL radar.



# The Warren Washington Research and Leadership Medal **Gordon A. McBean**

Professor, Western University, London, Ontario, Canada

*For outstanding research and leadership in advancing earth sciences and promoting global actions to spur noteworthy societal benefits*



Dr. McBean's outstanding research across the domains of earth and socio-policy sciences and his scientific leadership of the World Climate Research Program, Integrated Research on Disaster Risk, Future Earth, START and other programs, advanced science for societal benefits. He was head, Meteorological Service of Canada (1994–2000) and president, International Council for Science (2014–18) and co-created the International Science Council. He received the AMS Cleveland Abbe Award and Fellowship and was an AMS councilor.

# The Jule G. Charney Medal

## Dale Durran

Professor, University of Washington, Seattle, Washington

*For fundamental contributions to mountain meteorology through the understanding and numerical simulation of orographically modified flow*



Dale Durran is a professor and past chair of the Department of Atmospheric Sciences at the University of Washington. His research interests include mountain and mesoscale meteorology, predictability, atmospheric waves, and numerical methods. Recently he has been exploring how deep learning can change our current paradigm for numerical weather prediction and sub-seasonal to seasonal forecasting. His sculpture was included in the geophysically themed virtual art exhibit of AGU's 2022 Fall Meeting. He is a fellow of the AMS.

# The Sverdrup Gold Medal

## Gerald A. Meehl

Senior Scientist, National Center for Atmospheric Research, Boulder, Colorado

*For seminal work integrating observations, models, and theory to understand variability and change in the ocean and atmosphere.*



Dr. Gerald A. Meehl is a senior scientist at the National Center for Atmospheric Research (NCAR). He heads the Climate Change Research Section and is chief scientist of the CATALYST project which is a cooperative agreement between NCAR and the U.S. Department of Energy. His research interests include understanding the interplay between internally generated climate variability and the response to external forcings, particularly in the context of understanding and predicting decadal climate variability.

# The Henry Stommel Research Medal

## Susan E Wijffels

Senior Scientist, Woods Hole Oceanographic Institution, Woods Hole  
Massachusetts

*For exceptional contributions to understanding oceanic and freshwater storage and transport of heat and monitoring changes in the global hydrological cycle*



Susan aims to quantify and understand the role of the ocean in climate, key aspects of the large-scale ocean circulation and the patterns and drivers of global ocean change. She also has a strong focus on the design, implementation and improvement of the Global Ocean Observing System (GOOS), co-chairing the international Argo Steering Team. After over 20 years at the CSIRO in Australia, Susan is now a senior scientist at the Woods Hole Oceanographic Institution.



# The Hydrologic Sciences Medal

## Paolo D'Odorico

Professor, University of California, Berkeley, California

*For seminal contributions in eco-hydrology, desertification, and for exploring the fragilities of the connected virtual water and food trade network*



Paolo D'Odorico is the Thomas J. Graff Professor of Water Resources at the University of California, Berkeley. His research focuses on the role of hydrological processes in the functioning of terrestrial ecosystems and societies. He is studying new mechanisms of desertification and the effect of positive ecohydrologic feedback on ecosystem resilience at the desert margins. His research also focuses on water security, the globalization of water, and water equity and justice.

# The Carl–Gustaf Rossby Research Medal

## Bruce A. Albrecht

Professor Emeritus, University of Miami, Miami, Florida

*For fundamental contributions to the measurement and understanding of boundary layer clouds and the turbulent and microphysical processes controlling them*



Bruce Albrecht is a professor emeritus in the Department of Atmospheric Sciences at the University of Miami. His research focused on the trade–wind boundary layer, marine stratocumulus clouds, cloud–aerosol–precipitation interactions, and millimeter wavelength cloud radar observations. He headed and participated in several field deployments focusing on marine boundary layer clouds. He is an AMS Fellow and a recipient of the AMS Teaching Excellence Award. He received his Ph.D. from Colorado State University in 1977.

# Honorary Member

## **Sue Barrell**

Honorary Affiliate, Bureau of Meteorology, Hawthorn, Australia



Dr Sue Barrell retired as Australian Bureau of Meteorology's chief scientist in 2018. Her career spanned forecasting, research and climate policy to executive roles in observations, infrastructure and IT. She led intergovernmental efforts in integrated earth observations and data policy, notably including the WMO Integrated Global Observing System and the WMO Unified Data Policy. Sue now leads several research infrastructure initiatives, and continues to inspire as a role model for women in science and leadership.

# Honorary Member

# Kathryn D. Sullivan

Scientist, Astronaut, Explorer, KD Sullivan Enterprises, Columbus, Ohio



After earning her Ph.D. in marine geology from Dalhousie University in Canada in 1978, Kathy Sullivan joined NASA as a shuttle astronaut. Her many distinctions include first American woman to walk in space, first woman to reach the Challenger Deep and Most Vertical Person in the World. She has held a variety of executive posts and presidential appointments, including NOAA Administrator and President's Council of Advisors on Science and Technology.



# Honorary Member

## **Roger M. Wakimoto**

Vice Chancellor for Research & Creative Activities, UCLA,  
Los Angeles, California



Roger Wakimoto is the Vice Chancellor for Research & Creative Activities at UCLA and a professor in the Department of Atmospheric and Oceanic Sciences. He has studied mesoscale phenomena with a particular interest in severe convective storms. He has served as the assistant director for geosciences at the National Science Foundation and the director of the National Center for Atmosphere Research.