

# 2014 AWARDS



## AMERICAN METEOROLOGICAL SOCIETY

## ELECTED FELLOWS



Steven A. Ackerman



Edgar L. Andreas



Alan F. Blumberg



Paul A. Dirmeyer



Gregory Fishel, CBM



Douglas E. Forsyth



William B. Gail

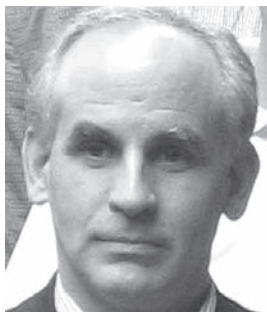


Gerald Geernaert

## ELECTED FELLOWS



Vanda Grubišić



D. E. Harrison



Gregory Stephen Jenkins



Edward R. Johnson



Arthur Y. Hou



Michael Jamilkowski



Yochanan Kushnir



Sydney Levitus

## ELECTED FELLOWS



John Marshall



Robert P. McCoy



Rachel T. Pinker



Karen Hepler Rosenlof



P. C. D. Milly



James N. Moum



Richard Seager



Joseph P. Sobel

## ELECTED FELLOWS



Michael A. Steinberg



LuAnne Thompson



Donald A. Wilhite



George S. Young



Jay Trobec, CCM, CBM



Duane E. Waliser



Chidong Zhang

# THE ROBERT E. HORTON LECTURER IN HYDROLOGY FOR 2014

IS PRESENTED TO

RANDAL D. KOSTER



For creative and groundbreaking contributions to the understanding of land-surface processes, land-atmosphere interactions, and their impact on climate predictability.

**Randal D. Koster**, Research Scientist, Global Modeling and Assimilation Office, NASA/GSFC, Greenbelt, Maryland.

# THE BERNHARD HAURWITZ MEMORIAL LECTURER FOR 2014

IS PRESENTED TO

PETER J. WEBSTER



For insights into the dynamics of the large-scale tropical atmosphere; their interactions with convection, oceans, and land; and application to forecasting weather disasters in developing countries.

**Peter J. Webster**, School of Earth & Atmospheric Sciences, Georgia Institute of Technology, Atlanta, Georgia.

THE WALTER ORR  
ROBERTS LECTURER IN  
INTERDISCIPLINARY SCIENCES  
FOR 2014

IS PRESENTED TO

CHRISTINE WIEDINMYER



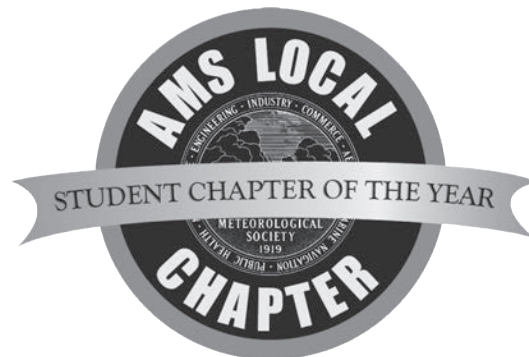
For research on biomass burning and its impact on the atmosphere and terrestrial biosphere; and bridging atmospheric science, biology, engineering, public health, and other disciplines.

**Christine Wiedinmyer**, Scientist, National Center, Boulder, Colorado.

THE AWARD FOR  
OUTSTANDING STUDENT  
CHAPTER OF THE YEAR

IS PRESENTED TO

IOWA STATE UNIVERSITY



For continued excellence in the local community, a well-rounded and creative approach to public outreach, and its commitment to mentoring and retaining young students.

**Iowa State University**, Ames, Iowa.

# THE AWARD FOR OUTSTANDING CHAPTER OF THE YEAR

IS PRESENTED TO

NORTH FLORIDA



For tremendous effort in developing public outreach techniques, excellent attention to professional development, a diverse speaker series, and innovation in meeting types and methods.

**North Florida**, Tallahassee, Florida.

# EDITOR'S AWARD *Bulletin of the American Meteorological Society*

IS PRESENTED TO

KELLY T. REDMOND



For thoughtful reviews that blended the big picture with an eye for detail.

**Kelly T. Redmond**, Research Professor, Regional Climatologist, Western Regional Climate Center, Desert Research Institute, Reno Nevada.

EDITOR'S AWARD  
*Journal of Hydrometeorology*

IS PRESENTED TO

JAMES KIRCHNER



For insightful and thorough reviews of a manuscript through several rounds of revision.

**James Kirchner**, Professor, Department of Environmental Sciences, ETH Zurich, Switzerland.

EDITOR'S AWARD  
*Journal of Hydrometeorology*

IS PRESENTED TO

JESSICA LUNDQUIST



For timely and detailed reviews of a challenging series of Comments and Replies.

**Jessica Lundquist**, Associate Professor, Civil and Environmental Engineering, University of Washington, Seattle, Washington.

EDITOR'S AWARD  
*Journal of Climate*

IS PRESENTED TO

PAUL SCHOPF



For insightful reviews of manuscripts on the ocean-atmosphere system that are consistently highly constructive and thorough.

**Paul Schopf**, Chair, Department of Atmospheric, Oceanic and Earth Sciences, George Mason University, Fairfax, Virginia.

EDITOR'S AWARD  
*Journal of Climate*

IS PRESENTED TO

GABRIELE VILLARINI



For thorough, prompt, and fair reviews on topics addressing the interface between water, statistics, and climate.

**Gabriele Villarini**, Assistant Professor, The University of Iowa, Iowa City, Iowa.

EDITOR'S AWARD  
*Weather and Forecasting*

IS PRESENTED TO

WALLACE A. HOGSETT



For numerous, constructive, and timely reviews of tropical cyclone studies that have enhanced the quality of the journal.

**Wallace A. Hogsett**, Science and Operations Officer, NOAA/NWS Weather Prediction Center, College Park, Maryland.

EDITOR'S AWARD  
*Journal of Atmospheric and  
Oceanic Technology*

IS PRESENTED TO

CHRISTOPHER R. WILLIAMS



For numerous, detailed, and thorough reviews of manuscripts on atmospheric and oceanic technology.

**Christopher R. Williams**, Research Scientist, Cooperative Institute for Research in Environmental Sciences (CIRES), University of Colorado, Boulder, Colorado.

EDITOR'S AWARD  
*Monthly Weather Review*

IS PRESENTED TO

RICARDO TODLING



For providing thorough, insightful, and high-quality reviews of manuscripts.

**Ricardo Todling**, Meteorologist, Goddard Space Flight Center, NASA, Greenbelt, Maryland.

EDITOR'S AWARD  
*Monthly Weather Review*

IS PRESENTED TO

ZHIYONG MENG



For providing a large number of timely and thorough reviews that have contributed to significant improvements of numerous manuscripts.

**Zhiyong Meng**, Research Professor, Department of Atmospheric and Oceanic Sciences, School of Physics, Peking University, Beijing, China.

EDITOR'S AWARD  
*Journal of Physical Oceanography*

IS PRESENTED TO

SARAH T. GILLE



For thorough and insightful reviews of multiple manuscripts, always delivered on time.

**Sarah T. Gille**, Professor, Scripps Institution of Oceanography, University of California, San Diego, La Jolla, California.

EDITOR'S AWARD  
*Journal of Physical Oceanography*

IS PRESENTED TO

ALI BELMADANI



For careful attention to equations in manuscripts, and suggestions to improve presentations and add physical insight.

**Ali Belmadani**, Assistant Professor, Department of Geophysics, Faculty of Physical and Mathematical Sciences, Universidad de Concepción, Concepción, Chile.

EDITOR'S AWARD  
*Journal of Applied Meteorology  
and Climatology*

IS PRESENTED TO

IAIN D. STEWART



For multiple, timely, and thorough reviews that provided useful comments and strengthened manuscripts.

**Iain D. Stewart**, Postdoctoral Fellow, Department of Geography, The University of British Columbia, Vancouver, Canada.

EDITOR'S AWARD  
*Journal of Applied Meteorology  
and Climatology*

IS PRESENTED TO

JIANMIN SHAO



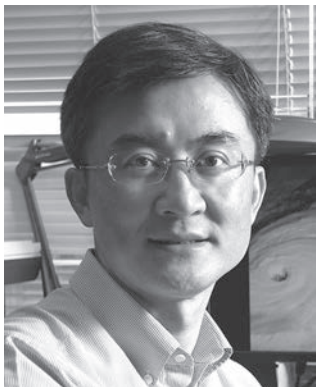
For exceptionally well-considered and well-written reviews, which provided important guidance on complex statistical techniques.

**Jianmin Shao**, Development Manager, Advanced Algorithms, Weather Offering, Vaisala, Birmingham, United Kingdom.

EDITOR'S AWARD  
*Journal of the Atmospheric Sciences*

IS PRESENTED TO

CHUN-CHIEH WU



For numerous and insightful reviews of manuscripts on tropical cyclones.

**Chun-Chieh Wu**, Professor, National Taiwan University, Taipei, Taiwan

THE SPIROS G. GEOTIS  
STUDENT PRIZE

IS PRESENTED TO

YA-CHIEN FENG



For her paper, "*Improving the Accuracy of Near-Surface 3-D Radar Refractivity*".

**Ya-Chien Feng**, Ph.D student, Atmospheric & Oceanic Sciences Department, McGill University, Montreal, Canada.

THE AWARD FOR  
DISTINGUISHED SCIENCE  
JOURNALISM IN THE  
ATMOSPHERIC AND RELATED  
SCIENCES

IS PRESENTED TO

JENNIFER FRAZER



For a vivid, detailed account of ongoing research on a medical puzzle that brings together epidemiology, microbiology, and global atmospheric circulation.

**Jennifer Frazer**, Freelance Science Writer, Scientific American Blog Network, New York, New York.

THE LOUIS J. BATTAN  
AUTHOR'S AWARD - K-12

IS PRESENTED TO

KATHY FURGANG    TIM SAMARAS



For “*National Geographic Kids: Everything Weather*”, an engaging, informative, beautifully photographed and cleverly illustrated guide to the science, practices, and wonders of weather.

**Kathy Furgang**, Writer, National Geographic Kids, Washington, DC.

**Tim Samaras**, Severe Storms Researcher and Engineer, Lakewood, Colorado.

## THE LOUIS J. BATTAN AUTHOR'S AWARD

IS PRESENTED TO

ANDREW E. DESSLER



For “*Introduction to Modern Climate Change*”, a textbook for non-science majors that uniquely immerses the reader in the science, impacts, economics, policies, and political debate associated with climate change.

**Andrew E. Dessler**, Professor, Department of Atmospheric Sciences, Texas A&M University, College Station, Texas.

## THE CHARLES L. MITCHELL AWARD

IS PRESENTED TO

ERIC R. THALER



For ensuring the integrity of science and mathematics in weather analysis and forecast operations.

**Eric R. Thaler**, Science and Operations Officer, NOAA National Weather Service, Boulder, Colorado.

# THE AWARD FOR AN EXCEPTIONAL SPECIFIC PREDICTION

IS PRESENTED TO

NOAA/NWS FORECAST OFFICE  
MOBILE, ALABAMA



94<sup>TH</sup> ANNUAL AWARDS BANQUET

5 FEBRUARY 2014



For providing effective long lead time tornado warnings during the unprecedented 15 April 2011 tornado outbreak over southern Alabama and Mississippi.

**NOAA/NWS Forecast Office, Mobile, Alabama.**

## SPECIAL AWARD

IS PRESENTED TO

CATHERINE A. SMITH



For producing and sustaining an extremely user-friendly, web-based interface, making weather and climate data widely accessible to users at all levels.

**Catherine A. Smith**, Senior Associate Scientist, CIRES, University of Colorado, Boulder and NOAA/ESRL Physical Sciences Division, Boulder, Colorado.

## SPECIAL AWARD

IS PRESENTED TO

COMMUNITY COLLABORATIVE  
RAIN, HAIL & SNOW NETWORK  
(CoCoRaHS)



For building a community of over 15,000 volunteer observers dedicated to providing high-quality, reliable observations of daily precipitation across the United States.

**Community Collaborative Rain, Hail & Snow Network (CoCoRaHS)**, Colorado Climate Center, Fort Collins, Colorado.

THE AWARD FOR  
OUTSTANDING SERVICES TO  
METEOROLOGY BY A  
CORPORATION

IS PRESENTED TO



For developing innovative lightning detection data products that improve severe-storm monitoring and warnings.

**Earth Networks**, Germantown, Maryland.

THE  
HELMUT E. LANDSBERG  
AWARD

IS PRESENTED TO

MANABU KANDA



For leadership and original contributions to the study of the urban lowest atmosphere, including the novel field work of project COSMO and his large-eddy simulations.

**Manabu Kanda**, Professor, Department of International Development Engineering, Tokyo Institute of Technology, Tokyo, Japan.

# THE AWARD FOR EXCELLENCE IN SCIENCE REPORTING BY A BROADCAST METEOROLOGIST

IS PRESENTED TO

HARRISON HOVE, CBM



For outstanding reporting, videography, and writing of a documentary about the National Science Foundation's scientific research in Antarctica.

**Harrison Hove**, CBM, Meteorologist, Ohio News Network, Columbus, Ohio.

# THE AWARD FOR BROADCAST METEOROLOGY

IS PRESENTED TO

MERRIL TELLER



For serving Wichita and the state of Kansas for over 30 years, providing life-saving coverage during historic weather events like the Andover and Greensburg tornadoes.

**Merril Teller**, Chief Meteorologist, KWCH 12-TV, Wichita, Kansas.

THE HENRY T. HARRISON  
AWARD FOR OUTSTANDING  
CONTRIBUTIONS BY A  
CONSULTING METEOROLOGIST

IS PRESENTED TO

GALE F. HOFFNAGLE, CCM



For sound leadership and contributions in furthering science and ethics in consulting meteorology for environmental and forensic applications.

**Gale F. Hoffnagle**, CCM, Senior Vice President and Technical Director, TRC Environmental Corporation, Windsor, Connecticut.

THE AWARD FOR  
OUTSTANDING ACHIEVEMENT  
IN BIOMETEOROLOGY

IS PRESENTED TO

RAY LEUNING



For significantly advancing our understanding of plant functioning, from stomata to terrestrial biosphere, and outstanding contributions to the global flux network through advancing micrometeorological theory.

**Ray Leuning**, Honorary Research Fellow, Chief Research Scientist (retired), CSIRO Division of Marine and Atmospheric Research, Canberra, Australia.

## THE NICHOLAS P. FOFONOFF AWARD

IS PRESENTED TO

JENNIFER MACKINNON



For outstanding contributions to the understanding of internal mixing in the ocean, artfully synthesizing observations, theory, and numerical modeling.

**Jennifer MacKinnon**, Associate Professor, Scripps Institution of Oceanography, LaJolla, California.

## THE HENRY G. HOUGHTON AWARD

IS PRESENTED TO

ROBIN HOGAN



For broad-reaching, imaginative contributions to understanding the interaction of clouds and radiation through innovations in radiative transfer and remote sensing.

**Robin Hogan**, Professor of Atmospheric Physics, Department of Meteorology, University of Reading, Reading, United Kingdom.

## THE CLARENCE LEROY MEISINGER AWARD

IS PRESENTED TO

COURTNEY SCHUMACHER



For innovative use of observations to clarify the vertical structure of latent heating and the geographical distribution of convective and stratiform precipitation.

**Courtney Schumacher**, Professor, Department of Atmospheric Sciences, Texas A&M University, College Station, Texas.

## THE JOANNE SIMPSON MENTORSHIP AWARD

IS PRESENTED TO

WILLIAM H. HOOKE



For gracious, dedicated mentoring of scores of individuals over more than four decades, and inspiring a community of science policy leaders that promotes peer mentorship.

**William H. Hooke**, Associate Executive Director, Senior Policy Fellow, American Meteorological Society, Washington, DC.

## THE KENNETH C. SPENGLER AWARD

IS PRESENTED TO

TANJA FRANSEN



For visionary leadership and innovative thinking to ensure weather forecasts result in timely and appropriate public responses by including all partners in the weather enterprise.

**Tanja Fransen**, Warning Coordination Meteorologist, NOAA National Weather Service, Glasgow, Montana.

## THE CHARLES E. ANDERSON AWARD

IS PRESENTED TO

FRANCO EINAUDI



For consistent, career-long personal efforts to increase diversity, and for leading institutional changes that will continue to create opportunities for women and under-represented minorities.

**Franco Einaudi**, Director, Earth Science Division, NASA Goddard Space Flight Center, Greenbelt, Maryland. *Retired.*

# THE CLEVELAND ABBE AWARD FOR DISTINGUISHED SERVICE TO ATMOSPHERIC SCIENCE

IS PRESENTED TO

DONALD J. WUEBBLES



For tireless and highly effective contributions to society through rigorous scientific analysis and distinguished public engagement.

**Donald J. Wuebbles**, Professor, Department of Atmospheric Sciences, University of Illinois, Urbana, Illinois.

# THE FRANCIS W. REICHELDERFER AWARD

IS PRESENTED TO

JOHN PAUL MARTIN



For outstanding leadership of exemplary NWS decision support services for the state of North Dakota and local communities as Warning Coordination Meteorologist at the Bismarck WFO.

**John Paul Martin**, Warning Coordination Meteorologist (WCM), NOAA National Weather Service, Bismarck, North Dakota.

## THE EDWARD N. LORENZ TEACHING EXCELLENCE AWARD

IS PRESENTED TO

**DANIEL KEYSER**



For his meticulously crafted and inspiring lectures, his individualized mentoring and unwavering commitment to students, and his landmark contributions to synoptic and mesoscale meteorology education.

**Daniel Keyser**, Professor, Department of Atmospheric and Environmental Sciences, University at Albany, State University of New York, Albany, New York.

## THE REMOTE SENSING PRIZE

IS PRESENTED TO

**PAWAN KUMAR BHARTIA**



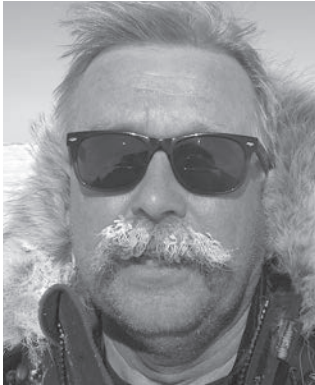
For scientific advances in the remote sensing of global ozone concentration and trends, and for developing new techniques for retrieving aerosol properties from space.

**Pawan Kumar Bhartia**, Senior Research Scientist, Laboratory for the Atmospheres, NASA Goddard Space Flight Center, Greenbelt, Maryland.

## THE HENRY STOMMEL RESEARCH AWARD

IS PRESENTED TO

JAMES N. MOUM



For fundamental research on quantifying and modeling vertical mixing in the ocean.

**James N. Moum**, Professor, College of Oceanic and Atmospheric Science, Oregon State University, Corvallis, Oregon.

## THE SVERDRUP GOLD MEDAL AWARD

IS PRESENTED TO

JOHN MARSHALL



For fundamental insights into water mass transformation and deep convection and their implications for global climate and its variability.

**John Marshall**, Cecil and Ida Green Professor of Oceanography, Department of Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology, Cambridge, Massachusetts.

## THE VERNER E. SUOMI AWARD

IS PRESENTED TO

### SYDNEY LEVITUS



For pioneering work in climate science by analyzing and computing the ocean's heat content and making oceanographic data readily available to the scientific community.

**Sydney Levitus**, Chief, NODC Ocean Climate Laboratory, National Oceanographic Data Center, NOAA, Washington, DC. *Retired.*

## THE JULE G. CHARNEY AWARD

IS PRESENTED TO

### DAVID A. RANDALL



For transformative research into atmospheric convection and cloud processes and their improved representation in global weather and climate models.

**David A. Randall**, Professor, Department of Atmospheric Sciences, Colorado State University, Fort Collins, Colorado.

# THE CARL-GUSTAF ROSSBY RESEARCH MEDAL

IS PRESENTED TO

OWEN BRIAN TOON



For fundamental contributions toward understanding the role of clouds and aerosols in the climates of Earth and other planets.

**Owen Brian Toon**, Professor, Department of Atmospheric and Oceanic Sciences, University of Colorado, Boulder, Colorado.

# ELECTED HONORARY MEMBER

IS PRESENTED TO

ROBERT EARL DICKINSON



**Robert Earl Dickinson**, Professor, Jackson School of Geosciences, the University of Texas at Austin, Austin, Texas.

ELECTED  
HONORARY MEMBER

IS PRESENTED TO

BRIAN HOSKINS



**Brian Hoskins**, Department of Meteorology,  
University of Reading, Reading, United Kingdom.

ELECTED  
HONORARY MEMBER

IS PRESENTED TO

QINGCUN ZENG



**Qingcun Zeng**, Professor, Institute of  
Atmospheric Physics, Chinese Academy of  
Sciences, Beijing, China.