AMERICAN METEOROLOGICAL SOCIETY

Annual Report 2018



American Meteorological Society, 45 Beacon Street, Boston, MA 02108-3693

Roger Wakimoto: President's Message



The 2019 Annual Meeting in Phoenix was a success in spite of the negative impacts caused by the partial government shutdown. Attendance was on track to set an all-time record before the shutdown. I received a number of compliments regarding the theme — "Understanding and Building Resilience to Extreme Events by Being Interdisciplinary, International, and Inclusive (III)."

David Goldston, Director of MIT's Washington Office, started the Annual Meeting with an excellent Presidential Town Hall. With all of the turmoil in Washington D.C. it was appropriate to hear from someone who could enlighten the audience about recent political events. It was unfortunate that we had to cancel the NASA Administrator, Jim Bridenstine, Town Hall and the new OSTP Director, Kelvin Droegemeier, could not accept our invitation to speak due to the shutdown. However, we are very pleased that Marcia McNutt, President, National Academies of Sciences, was able to interact with a number of attendees and was also elevated to Honorary Member status. Another special moment was the inaugural Exceptional Undergraduate Student Presentations which has the potential to grow to a major event in future Annual Meetings. We seemed to have made a smooth transition to sessions that are largely proposed by the members rather than being top-down. We also have seamlessly integrated our New Fellows and Awardees into the Annual Meeting program.

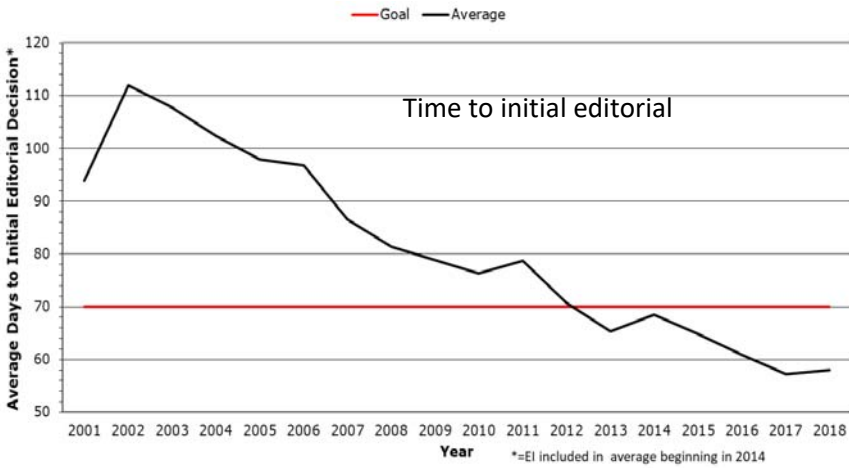
The Task Force on Diversity, Equity, and Inclusion continues to make excellent progress and I consider their formation a personal highlight during my tenure as President. I look forward to receiving their draft report. The ascension of women leaders as Councilors, Commissioners, and current and future Presidents has been truly amazing to witness. We were able to refresh and update the AMS Strategic Goals and introduce a Values section, an important addition to the document. The Council reaffirmed its position to be an "honest broker" and not play a more active role speaking out or being seen as a partisan organization. Finally, the discussion about Professional Conduct has been important and will serve the Society for many years to come.

The nearly two years as President went by quickly but were intense. Writing this report reminded me how much we accomplished during my tenure. From taken over the reins in the aftermath of Matt Parker's untimely passing to setting the stage for the upcoming Centennial Celebration, it has been an adrenaline rush that I will not soon forget. It was an honor to serve the AMS and I cannot thank the staff enough for all of their help and patience as I suggested one idea after another with the goal of elevating the Society to new heights. I had a great time but I am also happy to step aside and allow Jenni Evans to lead the organization into its second hundred years.

Roger M. Wakimoto
2017-2018 AMS President

PUBLICATIONS

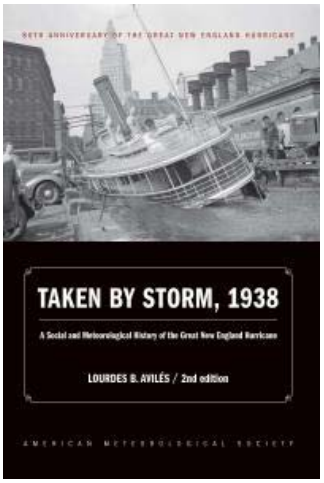
A total of 3317 manuscripts of all types (including BAMS proposals) were received by the 11 AMS scholarly journals in 2018, a decrease of just over 1% from the submissions in 2017. It is not yet clear if the decline in submissions will continue. Submission trends are driven by a variety of factors, including (but not limited to) author charges, open access options, Impact Factor ratings, and the proliferation of journals available to the scientific community. The average time to first editorial decision was 58 days, almost two weeks below the PC goal of 70 days. In 2018, the number of published pages was 32,414, down about 8% from the all-time record set in 2017. A total of 1784 articles were published in 2018.



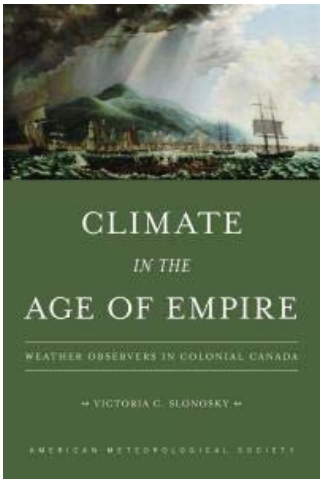
The AMS publications staff processed 1790 accepted articles in 2018, including monograph contributions that now have a similar workflow to journals. With the "continuous publication," or article-based, workflow that has been in place since 2015, articles are posted online as they are ready. The overall average production time for 2018 (all journals) was 60 days (down from 70 days for 2017). The publications department is currently achieving their lowest production times ever for the journals, with ten individual journal issues in 2018 having production times of less than 60 days. Over the longer term, average production time has decreased from 140 days in January of 2014 to 51 days in December 2018. Reducing production time continues to be a primary concern of AMS and authors.



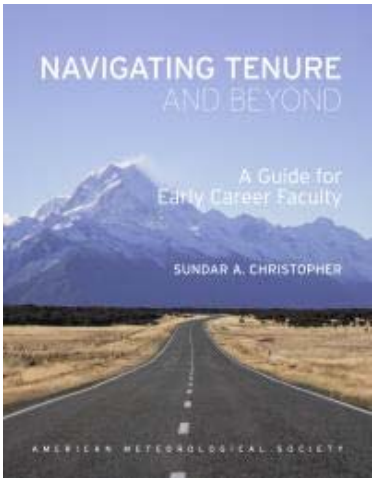
Books published in 2018



Taken by Storm, 1938: A Social and Meteorological History of the Great New England Hurricane, 2nd Edition, 228pp, by Lourdes B. Aviles



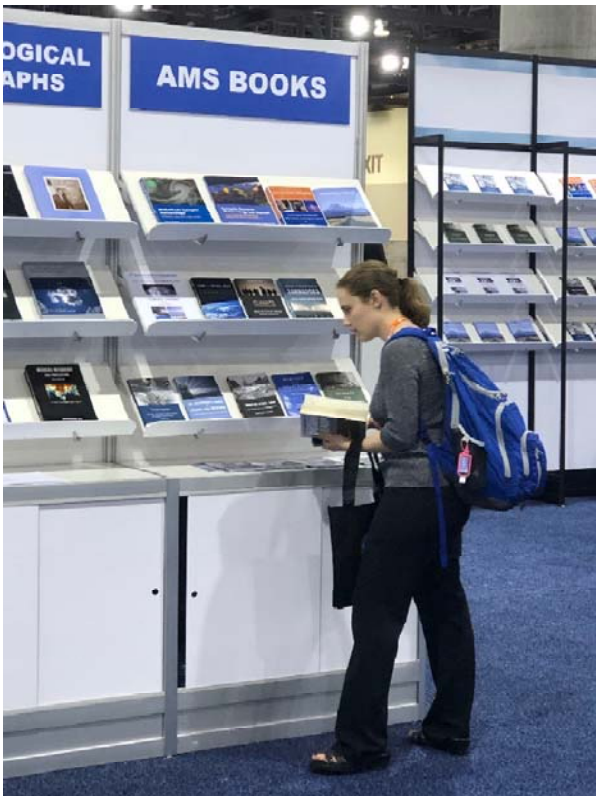
Climate in the Age of Empire: Weather Observers in Colonial Canada
348pp, by Victoria C. Slonosky



Navigating Tenure and Beyond: A Guide for Early Career Faculty
188pp, by Sundar A. Christopher



Dr. Lourdes Aviles, author of the book *Taken by Storm*, about the 1938 New England Hurricane, talks about her book at the 2019 Annual Meeting



MEETINGS

The AMS Meetings department continues to show how valuable our meetings are to the entire weather, water, and climate community. The total number of registration and presentation numbers were very strong in 2018 due to having 5 additional meetings compared to the year prior.

The 99th AMS Annual Meeting in January 2019 kicked off the year-long celebration of the 100th Anniversary of the Society and included special events and panels throughout the venue giving interesting historical facts.



AMS Meetings are vital to professionals in the private, public, and academic sector because they can share scientific research and knowledge while networking with peers, colleagues, and friends. Students also benefit from attending meetings and AMS remains committed to providing as many scholarships as possible to ensure students benefit from this important professional experience.

2018 highlights

- AMS hosted 16 meetings in 11 cities.
- 7,242 people attended AMS conferences and symposia; compared to 5,878 the previous year.
- 706 students attended the Student Conference.
- A total of 6,494 presentations and papers were given, compared to a total of 4,750 scientific papers presented in 2017.
- For 2018, only the Annual Meeting had an exhibit program since the Broadcasters joined us in Austin where we had 102 organizations participating.
- 13 organizations helped sponsor AMS meeting activities.





EDUCATION PROGRAM

The AMS Education Program, located in Washington, DC, works on behalf of AMS members to engage in, support, and offer programs and resources focused on increasing public scientific literacy. Education Program staff, contractors, and a network of educator mentors work in partnership to support the strategic goals of the Society.



The Education Program focuses support on K-12 educators as well as faculty and students at undergraduate institutions. AMS provides professional development programs, course materials, and in-classroom resources to engage K-12 and undergraduate educators in weather, ocean, and climate sciences, with a particular focus on educators impacting significant number of students underrepresented in STEM and institutions not traditionally offering extensive geoscience coursework.

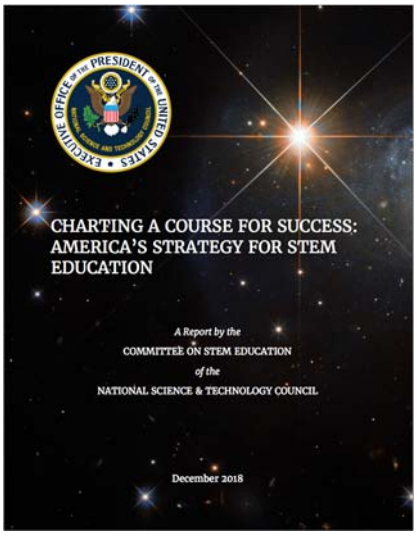
Throughout 2018, the staff and our network were actively engaged in modernizing the delivery methods of many of our courses owing to our new partnership with California University of Pennsylvania (Cal U). In-service, K-12 teachers are able to enroll in our courses and employ a modern learning management system to earn up to 15 graduate credits. These include the three-credit courses corresponding to DataStreme Atmosphere, Ocean, and Earth's Climate System (ECS) offered in fall and spring, and summer Project Atmosphere and Maury Project offerings. These courses will serve as the backbone of the new Certified AMS Teacher (CAT) program, with the first new certification awards planned for the 2020 Annual Meeting.

2018 Highlights



- AMS Education Program team actively promoted the newly revised 4th edition of our Ocean Studies textbook and associated curriculum and began work on an update to our Weather Studies textbook. Funding received from Lockheed Martin allowed staff to focus on including new satellite meteorology content across our materials and curriculum sales were strong throughout the year.
- AMS held the 25th annual Maury Project two-week summer workshop for 24 K-12 educators at the U.S. Naval Academy in Annapolis, MD. AMS also held the NOAA-supported 26th Project ATMOSPHERE summer workshop at the National Weather Service Training Center in Kansas City, MO. Together the workshops have provided content and leadership training for more than 1200 K-12 educators.

- A total of 425 K-12 educators took DataStreme Atmosphere, Ocean, and ECS and formed Plans of Action for incorporating content into their curricula and sharing with other teachers.
- With an NSF grant extension, 16 MSI faculty participated in the 6th, and final AMS Climate Studies Diversity Project course implementation workshop. Since 2012, there have been 147 Climate Diversity Project participants representing 120 MSIs. With AMS Education Program engagement, the Consortium for Ocean Leadership (NSF support) and the U.S Ice Drilling Program Office (NSF support) continued to offer professional development experiences for MSI faculty, many of whom first participated in the Climate Diversity Project.



The AMS Education Program was featured in a Whitehouse report on STEM education.

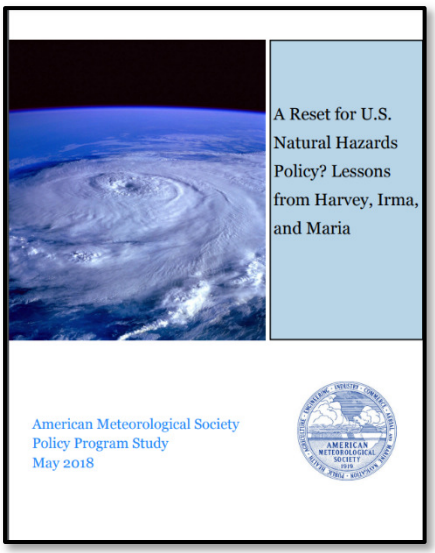


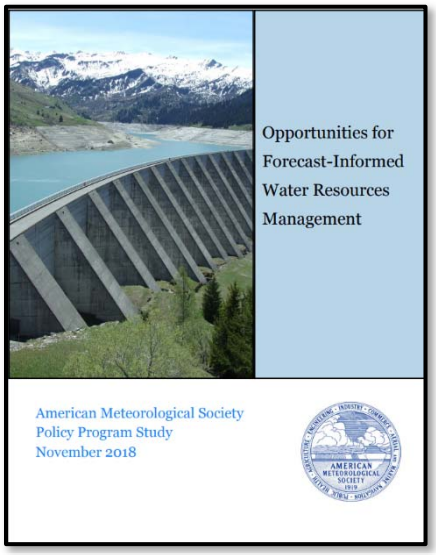


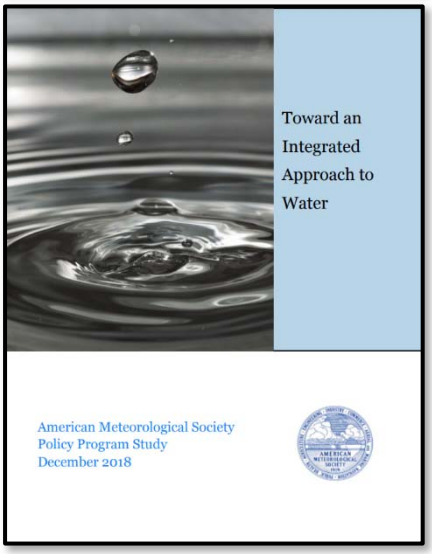
The centerpiece of our capacity building efforts is the AMS Summer Policy Colloquium (SPC), which is a 10-day intensive introduction to the federal policy process for Earth scientists. We held our 18th SPC in June. To date, over 600 scientists have completed this program. Through this effort, we are helping to develop a new group of leaders within our community. Relatedly, we contribute to a policy course at the University of Miami taught each spring.

The Policy Program led three Congressional Visits Days (CVDs) for the AMS community each year. AMS day on the Hill typically occurs in May and focuses on our entire community (i.e., weather, water, and climate; observations, science and services; the public, private, and academic sectors; and basic and applied research). We co-organize climate science day (January) and geoscience day (September) jointly with other science societies.

The Policy Program contributes to the knowledge base at the interface of science and policy through independent research and analysis, and workshop-based studies. Reports generated by the program are available on the AMS website.









MEMBERSHIP

Overall, we received 1,526 new member applications in 2018, which is 6% less than the number received during the same period last year. The number of applications received for Member and Member with Student Privileges held steady compared to last year, while applications for Student Member dropped by about 5%.

Member Type	
Honorary	32
Member (includes Fellow)	8871
Member w/Stud Privileges	406
Associate (includes Voting Associate)	714
Precollege Student	90
Precollege Teacher	64
Student Member	2187
Sustaining CIM	7
Regular CIM	55
Small Business CIM	8
Publications CIM	73
Total	**12,507**

AMS Local Chapters

The following chapters were authorized in 2018, with the number of active chapters now totaling 121. There are currently 64 student chapters, 52 regular chapters and 5 precollege chapters.

- Central Florida Chapter
- Coastal Louisiana Chapter
- Indiana University Student Chapter

Additionally, two chapters were approved for name changes. They are as follows:

- Central Mississippi Chapter (formerly known as Jackson Chapter)
- Northern Vermont University of Lyndon Chapter (formerly known as the Lyndon State College Chapter)

AMS American Meteorological Society | Community

AMS launched the AMS Community, a secure, online collaboration platform, providing a discussion forum for all members as well as an online workspace for the more than 100 AMS boards and committees.

AMS Certification Programs

The AMS Certified Consulting Meteorologist (CCM) Program and the AMS Certified Broadcast Meteorologist (CBM) Programs remain an important part of the AMS community. These widely respected programs continue to recognize meteorologists who have met the high standards of AMS certification. A new online application system was developed in 2018 to make it much easier for candidates to apply and upload their materials. The scheduled launch date for the new online system is January 2019.

In 2018, 7 individuals earned the Certified Consulting Meteorologist designation, bringing the total number of active CCMs to 284.

In 2018, 28 broadcast meteorologists earned the CBM certification, bringing the total number of active CBMs to 585.

New Certified AMS Teacher (CAT) Program

AMS is excited to announce that a Certified AMS Teacher (CAT) Program was approved by AMS Council in 2018 and will begin accepting applications in the fall of 2019. The primary goals of CAT are to recognize and support educators actively engaged in raising atmospheric science literacy. CAT specifically will connect K-12 educators to the AMS which strengthens their connection to the atmospheric science community and its resources. It also provides K-12 educators with opportunities to enroll in AMS Education Program courses to enhance their knowledge of weather, ocean, and climate science. The Board on Pre-College Education, a standing committee of the Society under the Education and Human Resources Commission, will be responsible for considering applications and making recommendations to the Commissioner for review

We have made significant progress on the AMS 100th Anniversary Campaign. As AMS approached its centennial year, many friends of AMS have made both current and deferred commitments to the Society's future, all in recognition of the critical role AMS must play in enhancing the effect of reputable science in public education and policy and in building the foundation for the next generation of scientists.

Highlights for 2018

- Overall AMS 100th Anniversary Campaign commitments reached approximately $7 million by the end of the year.
- The Centennial Leadership Circle, for those who pledge to give AMS $2019 a year for five years continues to attract donors
- We have received funding for five new charitable gift annuities (CGAs) for a total of $437,000.
- Donors have established four new undergraduate scholarships

Lockheed Martin Corporation has been named Centennial Corporate Patron



The AMS Student Conference is funded primarily by generous donations from AMS members.

FINANCES

For the third year in a row, the Society ended the year with an operating budget in the red. The AMS operating budget recorded a deficit in 2018 of a little over $800K. In addition, unlike some prior years, the investment portfolio also recorded an (unrealized) loss, reducing its buying power by about $400K.

There is little question that AMS programs continue to provide value and service to the AMS community and beyond, but the ongoing budget challenges is a serious concern for both the elected governance and the staff of the Society, and a great deal of work is currently in progress to address these concerns. The last several years have seen major retooling of AMS programs to modernize them and make them significantly more efficient. This is a multi-year effort, and knowing that it takes time and investment of resources to complete this work, the AMS Council had approved a budget for 2018 that anticipated a loss, but one that was only about half of what was realized.

Highlights for 2018

- AMS has significantly increased its efforts to support career development of members, especially those who are still early in their careers.
- AMS launched a new certification program for K-12 teachers that should translate into increased membership and increased revenue in coming years, while providing important services to precollege teachers.
- With journal submissions down this year, AMS publication fell short of budget projections for revenue generation. This lower revenue is expected to carry into at least the first part of 2019, as well, given the reduced numbers of submissions late in the year.
- We had an outstanding year in 2018 from our meetings activities. And it represented the one budget area that came in well above budget. In addition to a very successful meeting in Austin, there were more specialty meetings than average in this year, and nearly all of those contributed positively to the bottom line.
- The Education Program has worked through a few tough years with large deficits, during which the program completely reworked its operating model. During the past two years, the program moved to a new delivery platform, restructured its staffing, reworked how its volunteer network operated, secured some modest corporate support, and implemented fees for the teachers who take advantage of the professional development activities.



THANK YOU

AMS Boards and Committees in 2018



AMS advances the atmospheric and related sciences, technologies, applications, and services for the benefit of society.

AMS VOLUNTEER STRUCTURE

The following list provides the membership of all AMS boards and committees in 2018. Current board and committee membership can be found on the AMS website.

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President-Elect:
Jenni Evans
Executive Director:
Keith L. Seitter, CCM
Secretary-Treasurer:
Richard D. Rosen

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Andrea Bleistein
Jen Henderson
Philip Ardanuy
Robert Henson
David Gochis
Frederick Carr
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Gary Lackmann
Jenni Evans
Adam Sobel
Tanja Fransen
Roger Wakimoto
Sue Haupt
Elizabeth Austin, CCM
Nicole Riemer
Shirley Murillo

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Pamela Emch
Maureen McCann, CCM, CBM
Robert M. Rauber, CCM
Yvette P. Richardson
Bruce Telfeyan

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Eileen L. Shea
H. Joe Witte
William B. Gail, Ex Officio

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Kristen Averyt
Barbara Brown
James Doyle
Andrew Molthan
Daniel Rothenberg
Ward Seguin
Stacey Hitchcock, Student Member
Jenni Evans, Ex Officio
Roger Wakimoto, Ex Officio

2019 Annual Meeting Overall Organizing Committee

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Rebecca Haacker
Sarah Jones
Jennifer Latifi
Wen-Chau Lee
Christopher Schultz
Roger Wakimoto
Xubin Zeng

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Dennis Hartmann
Jennifer Kay
Paul Markowski
Christa Peters-Lidard
Richard Rotunno
Thomas Sanford
Courtney Schumacher
Gabriel Vecchi
Dusan Zrnic
Roger Wakimoto, Non-voting Ex Officio
Frederick Carr, Non-voting Ex Officio

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Fiona Horsfall, Non-voting Ex Officio
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David Randall, Ex Officio
Robert Rauber, CCM, Ex Officio
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Robert Henson
Jon M. Nese
Jeff Rosenfeld
Bernadette Woods Placky, CBM
Xubin Zeng

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Kristen Averyt

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Lance F. Bosart
Melissa A. Burt
Kristy C. Carter
Judith A. Curry
Mary M. Glackin
Matthew Glazewski
Todd S. Glickman, CBM
Susan Jasko
Kimberly E. Klockow
Kevin Kloesel
Muge Komurcu
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Eileen L. Shea
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Bruce Glenn Thomas, CBM
John R. Toohey-Morales, CCM, CBM
Kevin E. Trenberth
Thomas H. VonderHaar
Sepideh Yalda
Jeffrey A. Yuhas
Xubin Zeng
Eric E. Zernich, CBM
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Fred Carr, Ex Officio
Jenni Evans, Ex Officio
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Patty Leslie
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Paul D. Try, Ex Officio
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Rana Fine
Cody Kirkpatrick
Sonia Kreidenweis
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Nicole LoBiondo
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Sydney Levitus
David Randall
Lynne Talley
Andrew Weaver

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Roger Wakimoto, Non-voting Ex Officio

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Michael Cottman Morgan
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Roger M. Wakimoto
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Sue Grimmond
Maura Hagan
Lee-Lueng Fu
Rita Roberts
Paul Schlatter
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Eric Wood
Fuqing Zhang
Chidong Zhang
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Pamela G. Emch
Rebecca Haacker
Rajul Pandya
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Roger Wakimoto, Non-voting Ex Officio

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Ghassem Asrar
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Kathleen Walls, CBM
Cole Vaughn, Student Member

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Hannah Hissong, CBM, Non-voting Ex Officio
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The AMS Constitution and Bylaws is a multipage PDF document that is easily accessed on the AMS website. Please click on ametsoc.org/constitution to view the entire document. In accordance with the requirements in the AMS Constitution, Article XII is reproduced here.

ARTICLE XII. Guidelines for Professional Conduct

To enhance the benefits of the meteorological and related professions to humanity, to uphold the dignity and honor of the profession, and to provide guidance for individual members, institutional members, or for members in association with other professionals, the American Meteorological Society has adopted the following Guidelines for Professional Conduct. Only individuals and organizations who intend to abide by these Guidelines should seek admission or continuing membership in the Society; therefore, these Guidelines will appear on the membership application form and will be published at least annually in the official organ of the Society.

1. Relationship of members to the profession as a whole.

    A. Members should conduct themselves in an ethical manner and reflect dignity and honor on their profession.

    B. Members who are professionally active should endeavor to keep abreast of relevant scientific and technical developments; they should continuously strive to improve their professional abilities.

    C. Members engaged in the development of new knowledge should make known to the scientific world their significant results through the media of technical or scientific publications or meetings.

2. Relationship of members to colleagues.

    Members should not take credit knowingly for work done by others; in publications or meetings, members should attempt to give credit where due.

3. Relationship of members to clients and the general public.

    A. Members should base their practice on sound scientific principles applied in a scientific manner.

    B. Members should not direct their professional activities into practices generally recognized as being detrimental to, or incompatible with, the general public welfare.

    C. Members undertaking work for a client should fully advise him or her as to the likelihood of success.

    D. Members should refrain from making exaggerated or unwarranted claims and statements.

    E. Members should refer requests for service that are beyond their professional capabilities or their scope of service to those properly qualified.

    F. Members shall not use or display the official seal of the American Meteorological Society, the Radio Seal of Approval, the Television Seal of Approval, or the designation Certified Consulting Meteorologist or Certified Broadcast Meteorologist unless duly authorized by the Society.