AMERICAN METEOROLOGICAL SOCIETY

Annual Report 2019



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

AMS CELEBRATES CENTENNIAL

AMS was founded in December 1919, so 2019 represented its centennial year. The year was marked by a number of special centennial events and special programs. The celebration began with the 99th Annual Meeting in Phoenix, AZ, and culminated with the 100th Annual Meeting in Boston, MA — home to AMS Headquarters.

While celebration of the prior 100 years was a major focus for the year, there was also a clear focus on the future and how to position the Society to be as relevant in its second 100 years as it was in its first. In January 2019, the AMS adopted a revised set of Strategic Goals for AMS. For the first time, a set of "core values" were articulated for the Society, stating in writing the values that have been reflected in AMS activities for decades.

Strategic discussions on the AMS volunteer structure and the many programs supported by it had been underway for several years leading up to the centennial, and a number of new "centennial initiatives" were launched in 2019 as a result. These new efforts will ramp up over the next few years and focus on an array of expanded programming, including new forms of support for early career professionals, enhanced activities at the local level, and increased opportunities for members, especially retired members who want to stay engaged, to use their expertise for the benefit of society both in the U.S. and internationally.

AMS CORE VALUES

- We value the integrity of science and the scientific process.
- We believe that a diverse, inclusive, and respectful community is essential for our science.
- We believe that decisions affecting society should be made in a transparent, evidence-based manner.
- We are committed to excellence, relevance, and agility in all our activities.

New AMS Logo

At the 100th Annual Meeting of the Society in Boston, the new AMS logo was unveiled. The AMS Seal (also shown below), which dates back to the founding of the Society in 1919, will continue to be used on official documents and in other ways, so the new logo does not replace the AMS Seal, but instead represents a new a modern emblem to represent the Society.

PUBLICATIONS

AMS journals are well-known for rigorous peer review and for publishing high impact papers. We also provide above-average customer service for authors, and levels of staff support for volunteer editors that enable AMS journals to attract highly regarded members of the community to serve on the editorial boards.

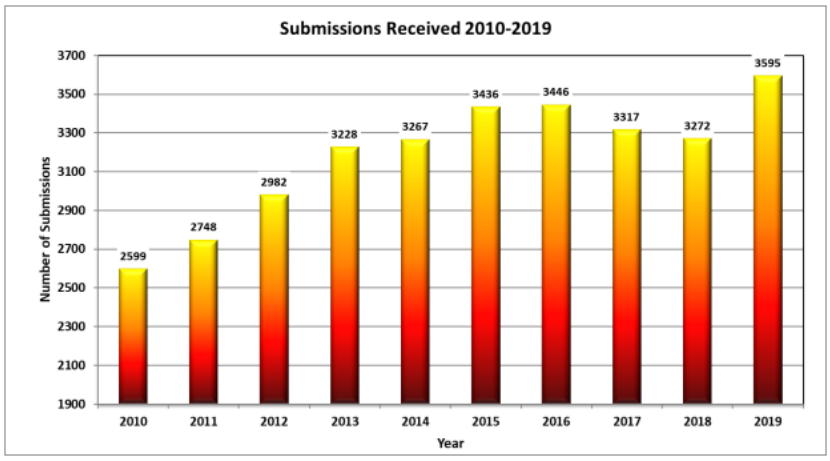


The Publications Department continued efforts begun in 2018 to streamline editorial workflows, cut costs, and further reduce production times, all of which bring AMS Publications into line with standard practices across the scholarly journals publishing industry. These efforts, along with the reduction in page charges approved by Council in July 2019 (which went into effect for papers submitted starting 1 September 2019) enabled us to promote AMS journals as a good value for authors at a time when research budgets are shrinking and publication options are expanding.

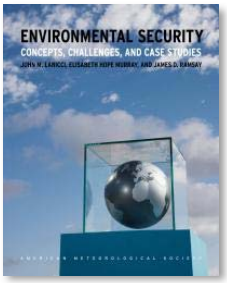
Ongoing marketing efforts, plus the reduction in page charges, along with the 31 December 2019 IPCC deadline (for submission of papers to be considered for Working Group 1), led us to anticipate steady rates of submission and flow of manuscripts into production during the fall of 2019, and this has been the case: Overall submission numbers for 2019 remain above 2018 month-by-month and over the year.

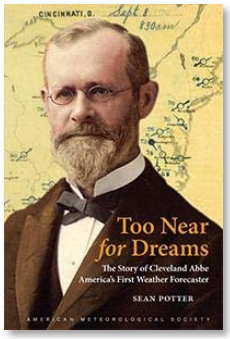
Highlights for 2019

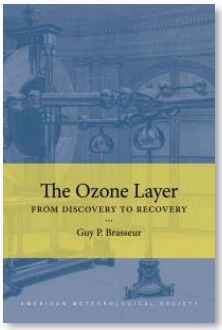
- AMS journals received a total of 3589 submissions in 2019, resulting in a total of 30,742 published pages (not counting BAMS).
- BAMS published 3046 pages.



AMS Books







AMS published three books in 2019:

- *Environmental Security: Concepts Challenges and Case Studies* by John M. Lanicci et al., 226 pp.
- *Too Near for Dreams: The Story of Cleveland Abbe, America's First Weather Forecaster* by Sean Potter, 392 pp.
- *The Ozone Layer: From Discovery to Recovery* by Guy P. Brasseur, 278 pp.

An analysis of the Books program in early 2019 concluded that despite efforts to expand the program over the past decade, it is not financially self-sustaining. Partnering with other publishing vendors to maintain the program was considered, but this was found not to be feasible for such a small and specialized program. Given the need to focus department resources on the journals, it was decided to ramp down the Books program. Books for which there are existing contracts with authors will be published. In addition, we will continue to support these books, as well as books we have previously published, with our online bookstore and our distribution partnership with University of Chicago Press. It is possible that AMS will occasionally publish a book of particular importance to the community, but is expected to be a rare event and we will not be actively seeking to acquire new titles.



Centennial Monograph

As part of the AMS Centennial celebration, the Publications Commission and Council approved the development and publication of a monograph celebrating 100 years of scientific research at the AMS. This monograph, *A Century of Progress in Atmospheric and Related Sciences: Celebrating the American Meteorological Society Centennial*, has been completed, with the online publication of the final remaining chapter on 21 November 2019. The monograph consists of 27 chapters that together review 100 years of progress in key areas of research and the grand challenges that remain in those areas of research. The entire monograph content is available as open access to increase its exposure, but is also available in print from the AMS Bookstore as a two-volume set.

MEETINGS

The year began with the very successful 99th Annual Meeting held in Phoenix, AZ, in January 2019, kicking off the Society's Centennial year. That meeting included 41 conferences and symposia as part of the overall meeting. Attendance was excellent despite a U.S. government shutdown that impacted many federal employees from the community.

The 100th AMS Annual Meeting

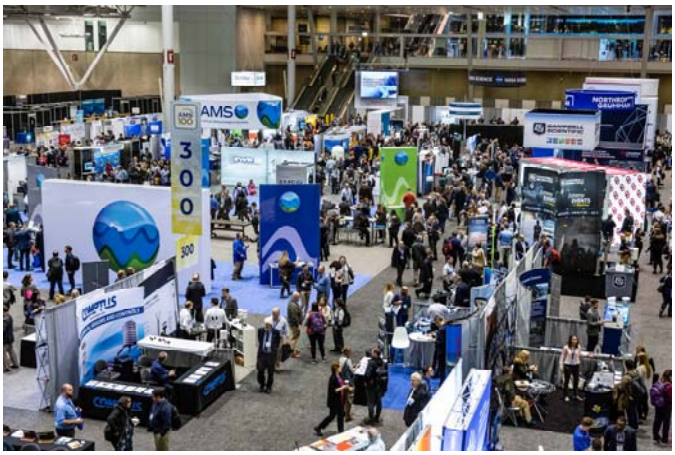
The Society's 100th AMS Annual Meeting took place in Boston, MA, in January 2020. The meeting featured 38 conferences and symposia. There were 755 sessions, 2792 oral presentations, and 1562 poster presentations. The meeting had a vibrant exhibit program with over 21,000 square feet of exhibitors. The record number of presented papers was matched with a record attendance of over 5700.



2019 Highlights

- AMS sponsored eight specialty meetings, including one in Japan (the 39th Conference on Radar Meteorology)
- In addition to the Annual Meeting, two 2019 specialty meetings included exhibits programs (the Broadcast Conference and the Satellite Conference).
- Meetings throughout the year included historical sessions in keeping with celebrating the 100th Anniversary of AMS
- Several specialty meetings included opportunities for attendees to record personal oral histories to be part of the archive coming out of the Centennial









EDUCATION PROGRAM

The AMS Education Program, works on behalf of AMS members to engage in, support, and offer programs and resources focused on increasing public scientific literacy through K-12 teacher professional development and undergraduate faculty support. Education Program staff, contractors, and our network of education mentors and partner agencies work collaboratively by leveraging grant funding and programmatic income to further the strategic goals of the Society.



2019 Highlights

- Project Atmosphere completed its 28th offering of summer courses, the second in a new hybrid (online and in person) format. Application pool indicates teachers prefer this format compared to two weeks in residence.
- Project Ocean completed its 26th offering of a summer course, with NOAA providing the vessel and crew of the *Bay Hydrographer II* for a hands-on workshop field experience
- DataStreme Atmosphere, DataStreme Ocean, and DataStreme Earth's Climate System Courses, which are online graduate courses of 3 credits each that are offered every spring and fall semester continued under the partnership between AMS and the California University of Pennsylvania. Starting in fall of 2019, a fee structure was established for these courses that is greatly reduced from normal college tuition and fees (with some fee waivers available).
- An external review of the program was completed in spring of 2019, and various aspects of the recommendations from that review are being implemented.
- The Education Program contributed to the development and launch of the new Certified AMS Teacher (CAT) program.





POLICY

The AMS Policy Program has three primary goals: 1) to help ensure that policy choices take full advantage of information & services relating to weather, water, & climate, 2) to increase awareness of how society's welfare depends on Earth system observations, science, & services, and 3) to facilitate collaboration across the enterprise to most effectively serve public interest.

The work toward those goals, the Policy Program uses three primary approaches: 1) we develop the capacity within the scientific community to contribute to the policy process (e.g., the Summer Policy Colloquium), 2) we inform policy makers about well-established scientific understanding and new advances (e.g. memos and Hill briefings), and 3) we synthesize knowledge at the interface of science and policy through workshops and studies. We also help advance and defend science.

2019 Highlights

- The 19th AMS Summer Policy Colloquium — a 10-day intensive introduction to the federal policy process for Earth scientists was completed in June.
- Three policy memos were completed and are available on the AMS website: "Options to Reduce the Consequences of Climate Change," "How Trustworthy Are Scientific Assessments of Climate Change?," and "Making Communities Stronger & More Secure."



Congressional Record

PROCEEDINGS AND DEBATES OF THE 116th CONGRESS, FIRST SESSION

Vol. 165 WASHINGTON, THURSDAY, DECEMBER 19, 2019 No. 206

Senate

100TH ANNIVERSARY OF THE AMERICAN METEOROLOGICAL SOCIETY

Mr. MARKEY. Mr. President, this month we recognize the 100th anniversary of the founding of the American Meteorological Society, AMS, which spent the last century advancing the atmospheric and related sciences. The work of AMS contributed to technologies and services that expand our understanding of the world and the risks associated with our water, weather, and climate.

AMS was founded in 1919 in Milton, MA, to advance, promote, and disseminate information about these important sciences. The society now has over 13,000 members, including researchers, educators, students, enthusiasts, broadcasters, and other professionals in weather, water, and climate. Its rigorously peer-reviewed scientific publications and scientific conferences have contributed to knowledge growth across the geosciences, especially in the prediction of environmental phenomena that has led to lifesaving services. AMS also offers nationally recognized certifications that serve the public's need to identify broadcast and consulting meteorologists who have achieved a high level of competency in communicating complex weather, water, and climate information.

AMS has been a leader in promoting diversity, equity, and inclusion in the science, technology, engineering, and math STEM fields. Its activities in support of STEM education and development activities for K-12 teachers have positively impacted millions of students nationwide. Its leadership in education also brings AMS to the Halls of Congress, where the society supports congressional fellows, research studies on environmental policy, and policy briefings to ensure that policies are developed using the best available knowledge and understanding.

AMS has also been crucial in developing the extensive scientific evidence of man-made climate change and has helped us understand the threat it poses to society if we do not act. AMS has been an international leader in providing peer-reviewed information to support evidence-based decision making related to climate change. Congress owes a debt of gratitude to AMS for its advocacy and education on this global threat.

With the scope and size of the challenge that climate change presents, Congress and the American people will undoubtedly depend on another successful century of leadership and scientific advancements from the American Meteorological Society. We congratulate and thank AMS for its century-long effort to understand the natural world, and we pledge our continued support to the important sciences AMS aims to advance.

Congratulations to AMS for marking its 100th Anniversary were read into the Congressional Record by Massachusetts Senator Ed Markey.



The Commonwealth of Massachusetts

The American Meteorological Society

Citation from Massachusetts Governor Charlie Baker congratulating AMS on its 100th Anniversary.



MEMBERSHIP

At its fall 2019 meeting, the AMS Council approved a new dues structure that allows full Members (including former early career members) to self-select their dues amount based on income level. Members will also now be able to select an auto-renew option. To reduce printing and mailing of paper copies of BAMS to those who may not want or need a physical copy, starting with the 2020 dues renewal, members must opt *in* to receive their BAMS member subscription in print (all members continue to have automatic access to Digital BAMS). By the end of December 2019, just 37% have selected to receive BAMS by mail compared to the 73% who received the 2019 issues as hard copies.

2019 Membership Highlights

- 11,752 individuals and organizations were members of the Society in 2019, down from the 12,507 who were members in 2018.
- New member applications during the first half of 2019 were down 17% compared to the same period in 2018, primarily because we discontinued our long-standing practice of offering free memberships to nonmember meeting attendees. Third quarter submissions were up more than 15% over the previous year.

Membership by the numbers

Member Type	
Honorary	32
Member (includes Fellow)	8358
Member w/Stud Priv	336
Associate (includes Voting Associate)	696
Precollege Student	99
Precollege Teacher	154
Student Member	1934
Sustaining CIM	7
Regular CIM	50
Small Business CIM	7
Publications CIM	79
Total	**11,752**

AMS American Meteorological Society | Community

The AMS Online Community is a platform that supports the many boards and committees of the Society and also provides a discussion forum for all members.

There were a number of special Community events in 2019, including "Ask Me Anything" dialogs on several topics and special "Career Corners" discussion threads focused specifically on career-related topics. The Community also provided useful information leading up to the 100th AMS Annual Meeting.



Local Chapters

The following chapters were authorized in 2019, with the number of active chapters now totaling 128. There are currently 67 student chapters, 55 regular chapters, and 6 pre-college chapters. A full list of AMS chapters may be found on the AMS Web site at http://apps.ametsoc.org/chapters.cfm

- Central Pennsylvania Chapter
- Route 66 Chapter (Reactivation and name change; formerly known as Northeast Oklahoma Chapter)
- Black Hills Chapter (Reactivation)
- Climate and Meteorology Student Chapter of the American Meteorological Society at the University of Texas at Austin
- CU Boulder Student Chapter of the American Meteorological Society (CUBAMS)
- Georgia Institute of Technology Student Chapter (Reactivation)
- Corpus Christi Student Chapter (2CAMS)
- Swampscott High School Pre-College Chapter

Additionally, name changes for two chapters were approved:

- Space Coast (formerly known as Cape Canaveral Chapter)
- Greater NJ/NYC/Philly Pre-College Chapter (formerly known as Mercer County Pre-College Chapter)



CAREER DEVELOPMENT

One of the key Centennial Initiatives was to greatly expand career development opportunities and services offered by AMS. In response, AMS now provides many more professional development and networking opportunities and offers a variety of resources to support members throughout their careers.

Starting in October 2019, AMS began a podcast series focusing largely on exploring the many career paths available within the community. Each of these podcasts interviews a member of the community on the kind of work they do and the sort of background that is most helpful for others who want to follow that career path.

Highlights for 2019

- 13 new webinars were produced on a wide variety of topics
- 11 new podcasts were released
- A "Career Corner" was added to the online Community and it features occasional "Ask Me Anything" sessions on careers
- A successful Virtual Career Fair was held in September with 185 attendees and five participating organizations
- A revamped Career Resources website launched in October with many new and improved sections
- The new professional development tracking system launched in early December 2019 and has a much improved interface and login process.

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 launched in 2019 to make it much easier for candidates to apply and upload their materials.

- In 2019, 5 individuals earned the Certified Consulting Meteorologist designation, bringing the total number of active CCMs to 250.
- In 2019, 28 broadcast meteorologists earned the CBM certification, bringing the total number of active CBMs to 557.
- AMS is excited to announce that a Certified AMS Teacher (CAT) Program began accepting applications in the late fall of 2019. The primary goals of CAT are to recognize and support educators actively engaged in raising atmospheric science literacy.

DEVELOPMENT

The AMS 100th Anniversary Campaign reached over $9 million in gifts and estate plans as it concluded the Centennial year. We are still hoping to reach at least $10 million by the end of 2020.

In recognition of the critical role AMS must play in enhancing the effect of reputable science in atmospheric, oceanic, and climate sciences, AMS members and friends have raised a total: $9,165,862 thus far in the following categories:

Current gifts: $4,355,407
Short term pledges: $852,766
Charitable gift annuities $437,198
Estate Commitments: $3,520,000

To celebrate our centennial year we have:

- Established seven new undergraduate scholarships along with K-12 teacher grants, student media grants, and student travel grants during the past year
- Funded a new supplemental graduate fellowship
- Created marketing plans for the Centennial Leadership Circle, the Early Career Broadcasters Travel Grant, and the Women in Science Fund

The support for student scholarships, fellowships, and travel grants remains very strong. A final list of Campaign contributors will be provided online later this year.

We are proud to have Lockheed Martin provide a special level of support as the AMS Centennial Corporate Patron.

FINANCES

We closed 2019 in an excellent financial position, and better than the projected budget. Strong performance by the AMS journals and scientific conferences contributed to that positive result.

The Society's investments saw excellent returns in 2019 and ended the year with gains of approximately one million dollars. Charitable giving to the Society, most of which is used to support scholarships, fellowships, travel grants, and other student programs, continues to be strong, allowing the Society to successfully approach the goals set for the 100th Anniversary Campaign.

THANK YOU

AMS Boards and Committees in 2019



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 2019. Current board and committee membership can be found on the AMS website.

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President-Elect:
Mary. M. Glackin*
Executive Director:
Keith L. Seitter, CCM*
Secretary-Treasurer:
Richard D. Rosen*

Past President

Roger M. Wakimoto*

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Melissa Burt*
John Cortinas
Kristie Ebi
Tanja Fransen
David Gochis
Erica Grow Cei, CBM
Jen Henderson
Robert Henson
R. Wayne Higgins
Kimberly Klockow McClain
Gary Lackmann
Shirley Murillo
Adam Sobel
Jim Steenburgh

* Executive Committee Members

Commissioners

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Donna Charlevoix
Pamela Emch
Genene Fisher
Kevin Goebbert
Maureen McCann, CBM, CCM
Yvette Richardson

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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
Clark Evans
Stacey Hitchcock, Student Member
John Knox
Scott Mackaro
Daniel Rothenberg
Jenni Evans, Ex Officio
Mary Glackin, Ex Officio

Atmospheric Research Awards Committee

Amy Clement, Chair
Richard Rotunno, Chair-Elect
Francina Dominguez
Inez Fung
Dennis Hartmann
Jennifer Kay
Paul Markowski
Gabriel Vecchi
Dusan Zrnic
Jenni Evans, Non-voting Ex Officio

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Genene Fisher
Efi Foufoula-Georgiou
Kristie Franz
Kevin Goebbert
Maureen McCann, CBM, CCM
Michael McPhaden
Jenni Evans, Ex Officio
Mary Glackin, Ex Officio
Fiona Horsfall, Non-voting Ex Officio

BAMS Task Force

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Alicia M. Bentley
Lance F. Bosart
Robert Henson
Jon M. Nese
Jeff Rosenfeld
Bernadette Woods Placky, CBM
Xubin Zeng

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Kimberly Klockow McClain
Kevin Kloesel
Muge Komurcu
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Richard Orville
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Kevin Trenberth
Thomas VonderHaar
Sepideh Yalda
Jeffrey Yuhas
Xubin Zeng
Eric Zernich, CBM
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Leslie Hartten
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Terrence Nathan
Sean Potter, CBM, CCM
Eugene Bierly, At Large
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Tanya Peevey
Zachary Riel
Erinanne Saffell
Kevin Thiel

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Kristy Carter-Mauss
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Nicole LoBiondo
Matthew Sitkowski
Paul Try
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Glenn Flierl
Sydney Levitus
Andrew Weaver
Josh Willis
Jenni Evans, Non-voting Ex Officio

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Roger Wakimoto
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Kathleen Walls, CBM
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Mary Glackin, Chair
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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.