

CWCE Report to the AMS Council September 2011

Items that require AMS Council Approval are noted with a Star (*)

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A. (*) Organizational Procedures for the Commission on the Weather and Climate Enterprise

[Procedures were previously approved by the AMS Council, 20 September 2007] (Revisions are for Council consideration for September 2011)

Commission on the Weather and Climate Enterprise (CWCE))

i. Membership

- a Commissioner
- a Future Commissioner, and the immediate Past Commissioner. Commissioners serve two full years in each role, constituting 6 full years of service.
- the Chairpersons of the constituent Boards, who shall serve three years as chairs

ii. *Authority and Responsibilities:* a) Develop and implement programs that address the needs and concerns of all sectors of the weather and climate enterprise; b) promote a sense of community among government entities, private sector organizations, and universities; c) foster synergistic linkages between and among the sectors; d) entrain and educate user communities on the value of weather and climate information; e) provide appropriate venues and opportunities for communications that foster frank, open, and balanced discussions of points of contention and concern; f) plan, organize, and conduct community meetings; and g) recommend annual recipients for the Kenneth C. Spengler Award. The Commission and its Boards may establish ad hoc committees as needed.

iii. Constituent Boards and Standing Committees

The Commission has established two standing committees and three Boards with names, memberships, terms of service, and responsibilities as follows.

- a. *Commission Executive Committee (CEC):* The 6 members of the Commission constitute its Executive Committee. In addition to the responsibilities identified above, the CEC is charged to bring issues and opportunities to, and work with, the Commission Steering Committee to broaden the base of and ensure inclusiveness of the activities of the Enterprise broadly defined; and to nominate members of the Commission Steering Committee.
- b. *Commission Steering Committee (CSC):* consists of the six members of the CEC, plus 16 leaders from the community and up to 11 non-voting members, chaired by the current Commissioner. The 16 community members serve three-year terms, staggered for approximately 1/3 membership change each year, and consist of seven senior members from the three provider sectors of the membership, five senior members from the user community, and four members-at-large selected to ensure

balance and diversity; the 16 community members are appointed by the Council. The non-voting members consist of the President of the Society and up to ten *ex-officio* members, including: the Executive Director; the Commissioners for Professional Affairs, STAC, and Education and Human Resources; and the Future and Past Chairs (if serving) of the Commissions Boards.

Responsibilities: In addition to supporting the responsibilities listed in item ii above, CSC members will serve as emissaries to foster synergistic linkages between and among the sectors, be missionaries to entrain and educate user communities on the value of weather and climate information, and bring issues and opportunities to the attention of, and work with, the CEC to broaden the base of and ensure inclusiveness of the activities of the Enterprise broadly defined.

c. *Board on Enterprise Communications (BEC):* To provide appropriate venues to bring together the provider and user communities to learn about, discuss, and provide input concerning issues of a short-term nature identified by the CSC. The BEC plans and hosts the annual AMS Washington Forum held in Washington, D.C. To consist of a Chair and nine members-at-large, with three appointed each year for a three-year term, with the goal of maintaining a balance of members from each of the three provider sectors. One year prior to the completion of the term of the current Chair the Commissioner will appoint a Future Chair who, after serving one year in that capacity, will then become the current Chair for the next three years, and will then become the Past Chair for one additional year, for a total term of service of five years.

- *Committee on Climate Services (CCS)*—comprising six members to represent the three main sectors of the Society. Members will serve three-year terms and will be nominated by the BEC and CCS chairs for approval by the Commissioner. In some cases, an extension may be granted to a member to ensure sufficient continuity of the CCS is maintained between successive years. One or two BEC members will be appointed by the BEC Chair and approved by the Commissioner to serve as the CCS chair or co-chairs.

Responsibilities: To promote the climate service enterprise through a partnership among government, private sector, and academic sectors with a community focus on improving climate services to the nation.

- *Committee on Improving Climate Change Communication (CICCC)* – comprising three Co-Chairs and members from the private, federal agency and academic sectors of the Society. Membership is open to all interested in advancing the goals of the Committee.

Responsibilities: To promote and facilitate communication among members of the weather, water, and climate community so as to foster greater understanding about strongly held but divergent views on climate change. This will be accomplished through various forums, including

face-to-face meetings, for open, professional, collegial, and respectful dialogue of all perspectives and even diverging views.

d. *Board on Enterprise Planning (BEP)*: To review issues identified by the CSC that are of a long-term strategic nature with importance to the enterprise as a whole. To consist of 13 members-at-large, along with the Chair, Past Chair, and Future Chair, and the chairs of Advanced Planning Topic (APT) committees. The APTs, which focus on strategic topics, contain one member from each of the three sectors and a fourth from the user community. APT reports are presented to the Commission and the Council and may be published as appropriate. One year prior to the completion of the term of the current Chair, the Commissioner will appoint a Future Chair who, after serving one year in that capacity, will then become the current Chair for the next three years, and will then become the Past Chair for one additional year, for a total term of service of five years.

- *APT Committee on Mobile Observations*: To focus on the application and utilization of future vehicle-based surface weather and road condition observations. The U.S. Department of Transportation wireless vehicle technology development program is now called IntelliDriveSM. This APT will discuss mobile weather datasets associated with IntelliDriveSM and those that may become available outside of that program.
- *APT Committee on Offshore Wind*: To define the need and recommend expansion of meteorological and oceanographic data required to support studies of the wind resource and conditions relevant to wind farm development in offshore locations.
- *APT Committee on Integrated Water Resources*: To review the generation, application, and benefits of new and enhanced water resources information.

e. *Board on Enterprise Economic Development (BEED)*: To grow the economic base of the weather and climate enterprise by reaching out to the meteorological community as a whole, identifying user needs, and helping providers meet those needs. The BEED hosts the AMS Summer Community Meeting held annually at selected venues. To consist of a Chair, Future Chair, Past Chair, and Committee chairs, plus 12 members-at-large, four of whom are appointed each year for three-year terms. One year prior to the completion of the term of the current Chair, the Commissioner will appoint a Future Chair who, after serving one year in that capacity, will then become the current Chair for the next three years, and will then become the Past Chair for one additional year, for a total term of service of five years.

- *Committee on Intelligent Transportation System/Surface Transportation* — comprising 12 members including the chair to hold office for a term of three years with 1/3 rotating off the Committee each year. Membership shall

represent all three community sectors. At the discretion of the chair and in consultation with the BEED Chair, terms may be shorter than three years or extended beyond three years, and membership may temporarily include fewer than three community sectors. In addition to the 12 members, *ex-officio* nonvoting members of the Committee shall be: the chair of the Intelligent Transportation Society of America (ITSA), the chair of the Weather Information and Applications Special Interest Group (WIA-SIG), the chair of the Transportation Research Board Task Force on Surface Transportation Weather, and the Federal Coordinator for Meteorology.

Responsibilities: To strengthen the bridge between the meteorological and surface transportation communities in order to support investments in interdisciplinary solutions involving design, development, deployment, operations, and technology transfer.

- *Energy Committee*—comprising 12 members including the chair, to hold office for a term of three years, with 1/3 rotating off the Committee each year. Membership shall represent all three sectors. Committee members will be nominated by the Committee chair and approved by the BEED chair and Commissioner. At the discretion of the Committee chair and in consultation with the BEED chair, terms may be shorter than three years or extended beyond three years, and membership may temporarily include fewer than three community sectors. Subcommittees may be established by the Committee to address specific topics of interest, as in the case, for example, of the Renewable Energy Subcommittee.

Responsibilities: To bring together the weather, climate, and energy communities in order to better understand their respective needs, discuss current and future technologies and trends, identify solutions and services, and explore opportunities to expand the growth of this business sector.

Water Resources Committee— comprising 12 members including the chair, to hold office for a term of three years, with 1/3 rotating off the Committee each year. Membership shall represent all three sectors. Committee members will be nominated by the Committee chair and approved by the BEED Chair and Commissioner.

Responsibilities: To promote growth in the economic base of the weather and climate community by closely interacting with the water resources community toward the mutual benefit of all parties. The water resources community includes but is not limited to public, private, and academic organizations involved in water resource management, storage, energy generation, purification, research, policy, and education.

B. Status of Commission Ad Hoc Committees (presently reporting to the Commissioner)

1) Nationwide Network of Networks (NNoN)

- a) Formed under the Chairmanship of George Fredericks
- b) Has proposed to become an AMS “Chapter” (TBD)
- c) Hosting the 2011 Boulder Summer Community Meeting under the auspices of the CWEC and BEED

2) Committee on Improving Climate Change (CICCC); has been moved to become a Committee of the Board on Enterprise Communication

- a) Formed with Co-Chairs Ray Ban, The Weather Channel, Andrea Bleistein, NOAA External Affairs and Paul Croft, Kean University.
- b) Made its 1st official presentation at the Washington Forum in April 2011
- c) Total membership at last count, was around 45 professionals from academia, private and government sectors.
- d) Planning for an CICCC committee meeting as AMS Summer Community Meeting. Exploring collaboration opportunities with the George Mason program in Communication.

3) Environmental Security Committee

- a) Partially formed and met for the 1st time in Seattle in January 2011
- b) Chair is John Lanucci, Florida International University

4) Committee on Ocean and Coastal (including Great Lakes) Issues (OCI)

- a) Being formed Fall 2011 with TOR being developed

C. (*) Spengler Award 2011

A. Summary

The Commission on the Weather & Climate Enterprise Kenneth C. Spengler Award Committee for 2011 has made its decision on the recommended individual, team or organization for this year's recipient of the award. The Committee consisted of Warren Qualley, Todd Glickman, Veronica Johnson, Melinda Marquis, Laura Furgione, Louis Uccellini, Jon Malay and Len Pietrafesa. Len Pietrafesa served as the Chair. The following describes the terms of reference for this award:

"The 2011 Kenneth C. Spengler Award is presented annually to the individual, team or organization to have contributed to the growth of the weather and climate enterprise while materially fostering a sense of community and creating synergistic linkages between the public, private, and government sectors as well as the user community. Nominations are considered by a committee of the Weather and Climate Enterprise Commission, which makes recommendations for final approval by AMS Council."

The Committee's discussion was focused on the key phrase in the Spengler Award description: "...whose efforts have contributed to the growth of the weather and climate enterprise." As such, the Committee decided [name omitted for posting] was the overall first choice for this honor because [name] has carried the spirit of the CWCE's charge in a visionary, proactive, and exemplary manner. It has brought three major sectors of government, academia and industry together each providing their expertise for the benefit of the 'collective enterprise' and has thus benefited the private sector in a significant way.

The Committee was unanimous in its choice. However, two members of the Committee had to recuse themselves as they had professional job-related conflicts of interests with regard to [name]. The Committee conducted its discussions via e-mails and conference calls.

B. Citation

[Name/ is acknowledged as the recipient of the 2011 Spengler Award for bringing to reality the spirit of the charge of the Commission on the Weather & Climate Enterprise in a visionary, proactive, and exemplary manner. [Name] has brought the major sectors of government, academia and industry together, each providing their expertise for the benefit of the 'collective enterprise', and has thus benefited the private sector in a significant way.

D. Report of the Board on Enterprise Communication (BEC)

The BEC was very busy planning the upcoming Summer Meeting in Boulder, Colorado. Details will follow below.

1. BEC Membership

The BEC is still looking for 2 members; one government and one private. The list below summarizes the current BEC membership.

AMS BOARD ON ENTERPRISE COMMUNICATION

Member	Affiliation and location	Term Ends	Academic	Government	Private
1. Veronica Johnson	NBC in Washington, DC	2013			X
2. Betsy Weatherhead	NCAR, Boulder	2014	X		
3. Heather Lazrus	National Weather Center, OU	2013	X		
4. Ken Reeves	Accuweather, PSU	2013			X
5. Eric Webster	ITT Corporation	2013			X
6. Joel Cline	NOAA, Washington, DC	2013		X	
7. Julie Demuth	NCAR Boulder, CO	2012	X		
8. Chris Vaccaro	NOAA, Washington, DC	2012		X	
9. Gerald Dittberner	Priv. Co. GJD Science/Tech	2012			X

2. Summer Meeting Planning for August 2011

The meeting agenda planning went well and everyone was encouraged to get the word out and advertise. Chairs for this year's planning were Betsy Weatherhead and George Fredericks. They followed the CWCE Planning Guide and made one change in that speakers were asked to submit summaries of their presentation; which are on-line at: www.ametsoc.org.

a. Below is the 2011 Summer Community Meeting Summary

THEME: Building a Stronger Weather and Climate Enterprise Keeping the Economy Moving

WHEN: August 8-11th

WHERE: Boulder, Colorado

The national and global economies have been reeling in recent times from major setbacks from various causes—not the least of which are those created by weather and climate phenomena. The entire weather and climate enterprise, which includes provider and user segments, has much to offer in recovering and building vibrant global economies. The Nationwide Network of Networks initiative has laid out a path forward in the United States to harness the power of multiple observing systems serving a multitude of users. One of the biggest challenges faced by the enterprise, however, is gauging the value and utility of various products and services to the user community. Common data and product needs are the key to efficient and effective service. At stake are hundreds of billions of dollars in economic productivity, protection of valuable resources and the safety of countless lives. We will feature several user segments whose needs are critical and whose topics are timely for discussion. Particular areas of interest include: weather, transportation, renewable energy (offshore wind and solar energy), environmental information services, carbon and greenhouse gas information products, human health, hydroclimate with emphasis on drought and floods.

The meeting featured the first public gathering of the Summer Community Workshop of the Environmental Information Services Working Group, a part of the NOAA Science Advisory Board. This AMS meeting provided insight toward the next steps of coordinated, effective action and cooperation across all sectors of the enterprise to address these issues.

b. Meeting Update: The meeting went off very well and the presenter/speaker descriptions and presentations can be seen at: www.ametsoc.org and then click on 2011 AMS Summer Community Meeting. There were 170 pre-registrants.

3. Climate Services Committee (CSC)

As the need for climate information continues to grow, the roles of private, commercial, government and the academic sectors need to be defined and identified. This will provide the most effective and managed growth. A statement/précis was drafted by CSC to define the current status of climate services and make recommendations to meet future goals. CSC is looking for comments and edits to its précis.

AMS Climate Services Committee Membership

Member	Affiliation and location	Term Ends	Academic	Government	Private
1. Ed O'lenic	NOAA Washington, DC	2014		X	
2. Kelly Redmond	Deputy Director WRC	2012		X	
3. Holly Hartmann	Invest.Hydrology Univ. of AZ	2014	X		
4. John Dutton	CEO Prescient WX Services	2014			X
5 Paul Llanso	Head World Cimate Data Monitor.	2013		X	

Replacements Andrea Ray and Phil Pasteris have been found and approved by Commissioner Pietrafesa.

E. Report of the Board on Enterprise Planning (BEP)

Note: (*) APT Committee on Mobile Observations is provided as an attachment in Appendix I.

1. Board Membership Update

Member	Position	Term	Email
Laura Furgione	NOAA, NWS	Chair 2011-2013	laura.furgione@noaa.gov
Tim Spangler	UCAR, COMET	Outgoing Chair	tspang@comet.ucar.edu
Bill Mahoney	NCAR	2011*	mahoney@ucar.edu
Jim O'Sullivan	NOAA, NWS	2011*	Jim.osullivan@noaa.gov
John Egentowich	DOD, AFW	2012	John.Egentowich@pentagon.af.mil
Tom Paylor	RenaissanceRe Corporation	2012	tcp@renreim.com
Bruce Bailey	AWS Truepower	2013*	BBailey@awstruepower.com
David Green	NOAA, NWS	2013*	david.green@noaa.gov
Bruce Jones	Midland Radio	2013	bjones@midlandradio.com
George Smith	Riverside	2013*	george.smith@riverside.com
Ana Barros	Duke University	2013*	barros@duke.edu
Don Winter	CSC	2013	dwinter9@csc.com

- note – these members serve as co-chairs of an APT and have agreed to serve on the Board until the APT has been finalized.

The AMS BEP has three active annual partnership topics committees; 1) mobile observations, 2) offshore wind, and 3) integrated water resources. The committee on mobile observations is the most mature and in the report finalization process. The committee on offshore wind has recently approved new leadership and is developing the outline and strawman for their report. The newest committee on integrated water resources is in the organizational phase with membership pending.

2. (*) APT Committee on Mobile Observations

A draft committee report titled "Realizing the Potential of Vehicle Based Observations" was provided to the APT Committee prior to the AMS Annual Meeting. This report includes input from all the subcommittees and includes several appendices covering the September 2010 BAMS article on mobile observations and driver preference web survey results.

The Committee then provided feedback on the draft from February-March, and an updated version was distributed to the BEP in late April. Feedback from the BEP was incorporated in May and June. In addition to the BEP review, the Vehicle Infrastructure Integration Coalition (VIIC) of auto companies is reviewing the draft and feedback is expected shortly. The Committee's activities will be briefed at the AMS Summer Community Meeting in August and at the Intelligent Transportation System (ITS) World Congress in October in Orlando.

The Committee Report was then submitted to CWCE Commissioner Pietrafesa on July 28th. The Commissioner provided input, feedback and several suggestions to the Committee, which updated the report, and then the Commissioner presented the report to the CWCE Executive Steering Committee (ESC) at the August Summer Community Dinner meeting in Boulder on August 9th. The ESC provided its' feedback by August 17th, several suggested changes were made and the final version is provided in Appendix I, to the AMS Council for its approval consideration.

3. APT Committee on Offshore Wind

The Offshore APT engaged in a discussion of their final report outline and designated writing assignments. Committee members will provide annotations on an assigned section of the report and submit their material by July 21, 2011. The annotations are to be around 1 page in length and consist of suggestions for more detailed content (i.e., provide the next level of detail). Following are the core sections of the report.

Introduction

Overview of Offshore Wind Energy Opportunities & Challenges in the US

Role of Metocean Data in Addressing Project Planning, Design & Operational

Sources of Existing Measured and Modeled Data

Data Gaps and Strategies to Address Them

Conclusions & Recommendations

After the annotations are received, they will be compiled and edited as an initial draft of the report. The committee maintains a website (link shown below) which will include links to relevant reports and materials. <http://www.ccpo.odu.edu/~atkinson/ams/>

4. APT Committee on Integrated Water Resources

The Integrated Water Resources APT was established during the January 2011 AMS meeting in Seattle, WA to review the generation, application and benefits of new and enhanced water resources information through diverse sector involvement. The committee charge has been drafted and reviewed by BEP Chair, Laura Furgione, and forwarded to Len Pietrafesa, WCE Commissioner, and Tim Spangler, former BEP Chair. The IWR APT co-chairs met on April 7 and developed a list of potential committee members. Tom Graziano has offered to be the NOAA representative on the IWR committee and has reviewed and contributed to the list of potential members.

Future steps include:

1. Contact potential committee members and finalize committee membership
2. Schedule introductory and first working meetings (telcons)
3. Establish appropriate subcommittees to address the primary topic areas listed in the Committee Charge
4. Schedule an in-person committee meeting at the January 2012 AMS meeting in New Orleans
5. Specify necessary partner/enterprise meetings to address the APT
6. Determine a schedule to conduct APT activities and develop a committee report

F. Report of the Board on Enterprise Economic Development (BEED)

1. Melinda Marquis submitted a meeting summary of the AMS Washington Forum 2011 (AWF, April 26-28) to BAMS in June 2011.
2. Planning for AWF 2012
 - a. Pam Emch scouted alternative venues for AWF 2012, but at this time the plan is to remain at the University of California- Washington Center next year.
 - b. Veronica Johnson and Matt Parker will help plan and execute a press conference for the AWF 2012
 - c. At the July 2011 BEED meeting, the membership of the organizing committee for the AWF 2012 will be finalized
3. The Energy Committee is organizing the Third Conference on Weather, Climate, and the New Energy Economy, 22–26 January 2012, New Orleans, Louisiana. The 3rd Conference on Weather, Climate, and the New Energy Economy, sponsored by the AMS, and organized by the AMS Committee on Energy and Subcommittee on Renewable Energy, will be held 22–26 January 2012, as part of the 92nd AMS Annual Meeting in New Orleans, Louisiana. Preliminary programs, registration, hotel, and general information will be posted on the AMS Web site in late September 2011 (<http://www.ametsoc.org/meet/annual/>).

The AMS Energy Committee invites participation from researchers and practitioners who are experienced in and/or are studying the linkages between weather, climate and the the energy complex. Participation may range from practitioner presentations (non-academic) to submission of academic papers and published research. Papers and posters are invited on all subjects dealing with the energy complex, including observational and theoretical meteorology, modeling, forecasting, and applied studies. Planned session themes include: (a) Dollars and Cents: Weather for Energy Markets; (b) Weather Fundamentals for Energy Planning with a focus on Data and User Groups; (c) Weather and Climate Applications for Energy Decision Support; (d) Energy Supply/Demand Fundamentals focused on Short Range Forecasting; (e) Energy Supply/Demand Fundamentals focused on Medium/Long Range Forecasting and Climate Assessments; (f) Renewable Energy Applications; (g) Policy Issues for the New Energy Economy and (f) Special Topics in Weather, Climate and the New Energy Economy. Abstracts and the uploading and recording of your presentation which will be archived on the AMS Web site. We will no longer be producing a CD-ROM, allowing us to extend the deadline date for extended abstracts.

The deadline for abstracts is 1 August 2011. Authors of accepted presentations will be notified via e-mail by late-September 2011. All extended abstracts are to be submitted electronically and will be available on-line via the Web; Instructions for formatting extended abstracts will be posted on the AMS Web site.

Manuscripts (up to 3MB) must be submitted electronically by 22 February 2012. All abstracts, extended abstracts and presentations will be available on the AMS Web site at no cost.

For additional information please contact the program chairpersons, Stephen Bennett, Heidi Centola or Jerry Crescenti: hcentola@earthnetworks.com, StephenBennett@ucsd.edu, Jerry.Crescenti@iberdrolaren.com.

G. (*) Proposed Commission Executive Steering Committee Replacements

The following list is proposed in its entirety to insure overall sector/stakeholder representation of ~ 1/3rd industry, - 1/3rd federal and state agencies, 1/3rd academia, with consideration of diversity, experience on and with Capitol Hill, experience and even leadership at high levels of government, special attention to the socio-economic sciences, and broad perspectives and expertise from the water-surface transportation-observing systems- government affairs-and industry -agency diversity. The list is more than the 1/3rd which is more typical annually, but several appointments were held in abeyance in 2010 as Board committees were realigned. These appointments would be in-place to 2015.

[18 names omitted for posting]

H. (*) proposed Future Commissioner

[paragraph omitted for posting]

I. National Research Council (NRC) Weather Modernization Committee Request and CWCE Response

1. The NRC requested input from the CWCE regarding lessons learned from the previous National Weather Service Modernization (early to mid 1980-s)
2. Commissioners Len Pietrafesa (present), Joe Friday (past) and Matt Parker (future) provided a written statement entitled “CWCE Comments on the NWS Modernization”:

a. Preplanning

1. *Pluses: A complete discussion of the new technologies was communicated through AMS conferences, Press releases, etc. A discussion of the projected uniformity of service(s) across the country was included in these presentations.*
2. *Minuses: Details as to the location and number of offices was not forthcoming during the early phases of the planning. The limitations placed by OMB on the details of the plan prohibited this. The Automated Surface Observation System (ASOS) raised issues with the user communities that were never fully addressed. The extension of the NEXRAD to dual polarization also raised issues with the user community but political realities precluded a public discussion of that possibility.*
3. *Suggestions for the future: Conduct a more open process with substantial input from the stakeholders throughout the country. An advisory committee composed of representatives from the user community, with strong representation from the private sector might be appropriate. A regeneration of the NRC NWS Modernization committee should be considered.*

b. Data Access

1. *Pluses:* NWS recognized early on that the entire NWS data base needed to be made available to the collective user community, including the private sector, other federal agencies and academia; especially the commercial weather sector. The NEXRAD data were made available through the system of contract data providers. The remainder of data was made available through the formation of the “Family of Services.” The NWS held semiannual meetings with the private sector to provide information on the future plans for the Family of Services.
2. *Minuses:* At the beginning of the planning for the modernization, there was direction from the Administration to recover the cost of the data acquisition through the imposition of user fees. This simply did not fly, and it violated the entire history of the open government philosophy of the US. The ‘family of service’ meetings were frequently used for NWS to announce decisions and were not interactive meetings to discuss the development of new systems or products.
3. *Suggestions:* The NWS should make it clear from the start of any modernization that the entirety of the government produced weather data and information would be available to all users at no greater than the marginal cost of making it available. The advisory committee suggested above could be a mechanism for NWS “true” interaction with the private sector with regard to data and information availability. If not, a separate outreach structure needs to accompany any future modernization. This group could be used to help adjust NWS planned efforts to make those efforts more beneficial to the users. Small, inexpensive changes early on the process can result in major improvements in the final structure.

c. Implementation

1. *Pluses:* Once the plan was approved, communications about the process were effective for the most part. The NWS abided by all the local building and environmental regulations. There were some areas of public opposition and political imposition, especially to the location of the radars, but in general these were few and far between.
2. *Minuses:* The public opposition in some of the cases resulted in forced relocation of a planned site, thus incurring higher costs to the taxpayer.
3. *Suggestions:* The public outreach for new installations needs to be stronger than was the case with the previous modernization. The “NIMBY” syndrome is only growing stronger in this nation. The planning team needs to be aware of environmental justice or other legal/political issues as to the location of the facilities. For example, the NWS is supportive of the social sciences and aspires to expand the incorporation of the social sciences into its’ strategic planning. This is proposed to be accomplished by systematically: a) learning from the body of social science research; b) identifying gaps where additional research is needed to inform NWS operations; and c) fostering partnerships with social scientists. The next NWS modernization could have a substantial social science component, which could become the model for the rest of the weather community and even other science and technology disciplines. The NRC 2010 report “When Weather Matters: Science and Service to Meet Critical Societal Needs” is an excellent starting point.

d. Assessment

1. *Pluses:* The accuracies of the warnings and forecasts were measured pre and post modernization. This was an essential ingredient in meeting the congressionally mandated ‘no degradation of service’ statement.
2. *Minuses:* There was no detailed assessment of the overall effects of the modernization effort. The lessons learned from each office were compiled, but there was no overall assessment for the benefit of future activities along this line. The NWS senior management likely became weary and thus ready to move forward. The change of the NWS Director near the conclusion of the modernization may have hindered the development of a final report as well.

3. *Suggestions: An overall assessment of a future modernization should be an integral part of any future plans. This could be done by the reformed NRC Modernization committee, resulting in a more objective evaluation.*

e. Additional Points

1. *The role of the private and academic sectors must be honored in any future reorganization. Albeit, there is a tendency for any government organization to try to grow and the NWS is no exception. While there is a wealth of talented people in the NWS, now is the time to worry about quality and not quantity of service. The budget pressures can be better handled with a serious look at doing better, not more and by working with the private sector to determine the best way to support the entire enterprise.*

2. *To affect the above point, the AMS Commission on the Weather & Climate Enterprise (the CWCE) is an appropriate entity that could create a Committee specifically focused on potential reorganization and future modernization.*

4. Past CWCE Commissioner George Fredericks and Executive Steering Committee Member and Accu-Weather CEO Joel Myers and provided oral testimony at an NRC Committee meeting at NRC HQ in Washington DC, on 16 May 2011.

J. Suggestion of Emeritus or Legacy Appointments to the CWCE – ESC

It was suggested by several former CWCE Board Chairs and previous Commissioners that several, perhaps up to 7, “legacy” or “emeritus”, appointments be made to the Executive Steering Committee which presently has 33 members. AMS Executive Director Seitter and CWCE Commissioner Pietrafesa met about this suggestion at the 2011 Summer Community Meeting and agreed to bring this to the attention of the Council for its consideration. It is of note that presently Board Chairs serve a total of 5 years (1+3+1), Commissioners a total of 6 years (2+2+2) and ESC members serve 3 year terms.

K. (*) Appendix I Mobile Observations Report



REALIZING THE POTENTIAL OF VEHICLE-BASED OBSERVATIONS



8/16/2011

A Report from the APT Committee on Mobile Observations

Co-Chairs: William Mahoney (NCAR) & Jim O'Sullivan (NOAA)
Board on Enterprise Planning - Commission on
the Weather and Climate Enterprise