

### **Tab 3.6 The AMS Commission on the Weather & Climate Enterprise- Len Pietrafesa, Commissioner**

#### **A. Commission Steering Committee Meeting: Saturday, January 22, 2011**

12:30 – 5:00 PM Sheraton Hotel – Issaquah A&B Agenda

12:30 Deli Lunch

1:00 Commission Background/Overview - Pietrafesa

1:30 Board on Enterprise Communications Overview– Pietrafesa for Johnson

1:50 Board on Enterprise Economic Development Overview-Emch

2:20 Board on Enterprise Planning Overview- Spangler

2:50 Special Discussion Topics:

2:50 1) Dr. Joe Friday: A Proposal for a National Conference on the Weather & Climate Enterprise, with Stakeholders Engaged: Oklahoma University, August 2012

3:20 2) Dr. Tom Karl: Climate: Strategy for building a broad, community Serving Climate Service

3:40 3) Dr. George Fredericks: An Update on the NNoN, 2011 Summer Community Workshop, Center Green, Boulder CO, 8-12 August

4:00 Updates: a) Environmental Security – Parker; b) Ad –Hoc Committee on Improving Climate Change Communication- Ban; c) Ad –Hoc Committee on Over and In the Ocean: Observations - Pietrafesa

4:20 General Discussion

5:00 Adjourn

#### **B. Commission Purpose Background and Structure:**

1) The PURPOSE OF THE CWCE:

- a) to bring together members of the diverse weather, water, and climate communities, representing academic, government, and private sectors, to discuss timely topics of broad national interest; to provide venues for enterprise participants to meet and discuss issues of importance to the enterprise. All findings and reports resulting from Commission activities are directed to the AMS Council; to facilitate dialogue between Enterprise participants; to operate within the overall mission of the American Meteorological Society as a scientific and professional society. It is of NOTE that the Commission is *Not*: a federal advisory committee; a mediator or adjudicator of disputes; nor a trade association

2) BACKGROUND: The CWCE was formed in response to the recommendation of an NRC Committee on Partnerships in Weather and Climate Services was formed

- The study was conducted in 2001-02 at the request of the NOAA-NWS (Dr. Joe Friday 2nd Commissioner)
- Late 2003 - the NAS published the final report of the NRC Committee - *Fair Weather: Effective Partnerships in Weather and Climate Services*
- Decades of evolving policy regarding weather services had produced two outcomes for the U.S.
- 1. the Scope and diversity of services was 2nd to none and
- 2. Overlapping roles resulted in occasional friction between the NWS and private service providers.
- The NRC Study conclusions were:
- this friction was an acceptable price to pay for excellent weather services,
- but also concluded that the friction could be ameliorated.

The basic question was: *What is the most effective way to coordinate the roles*

*of the public, private, and academic sectors of the enterprise in the provision of weather, climate, and related environmental information services, to overcome barriers to improved interaction, so that each sector can make the most cost-effective investments in infrastructure, efficiently share the generated information, and provide a predictable planning environment for end users of the information.*

- The NRC Committee judged the overlapping roles and occasional friction to be an acceptable price to pay for excellent weather services, but also concluded that this could be ameliorated
- The final report contained 11 recommendations
- the NRC's primary conclusion was that *"it is counterproductive and diversionary to establish detailed and rigid boundaries for each sector outlining who can do what and with which tools"*
- Of Note: *the NOAA SAB (Dr. L. Pietrafesa, 3rd Commissioner) "unanimously endorsed this conclusion and recommended to NOAA HQ that NOAA take a leadership role in this engagement enterprise in weather and climate"*
- Recommendation #3 was:
- *The NWS and relevant academic, state, and private organizations should seek a neutral host, such as the American Meteorological Society, to provide a periodic dedicated venue for the weather and climate enterprise as a whole to discuss issues related to the public-private partnership.*
- So, in January 2005 – the AMS Council established the first new AMS commission in several decades in response to recommendations from the AMS Ad Hoc Committee on the Weather and Climate Enterprise, which itself had been established immediately in response by the AMS in response to recommendation #3 of the NRC
- The AMS Commission that was created considers issues relevant to the entire weather and climate community, and not just those associated with the National Weather Service (or NOAA)
- In September 2005 – the AMS Council approved the Terms of Reference for the new Commission on the Weather and Climate Enterprise (CWCE)
- Basically the Charter of the CWCE is to: Develop and implement programs that address the needs and concerns of all 3 sectors of the Weather and Climate Enterprise - public, private, and academic; Promote a sense of community among the sectors of the Enterprise; Foster synergistic links between and among Enterprise sectors; Inform and educate user communities on the value of weather and climate information; and Provide appropriate venues and opportunities for frank, open, and balanced discussion

**3) STRUCTURE of the CWCE:**

- Commission Steering Committee (CSC)
  - Composed of community leaders, leaders within the provider community, leaders from the end user community, and members at large (selected to attain balance)
  - Meets twice a year
  - Provides a forum to identify and discuss issues of interest or concern to the weather and climate community as a whole
  - Refers topics requiring action to one of the 3 Boards
  - Conducts quasi-monthly phone calls of the CEC and CSC

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- Commission Executive Committee (CEC)
  - Composed of the Commissioner plus the Chairs of the 3 Boards (Len Pietrafesa, Pam Emch, Veronica Johnson-Weems, Tim Spangler)
  - Helps the Commissioner manage Commission activities
- There are Three Commission Boards which is principally where the action is:
  - Board on Enterprise Planning (BEP)
    - *Strategic, long term* focus
    - Takes on a new topic each year (Annual Partnership Topic, or APT) and completes its study within three years
  - Board on Enterprise Communication (BEC)
    - *Internal* focus
    - Provides venues and other communication channels to bring together the weather and climate community to learn about, discuss, and approach consensus on issues of current interest
    - Stands up focus committees to advance the enterprise state on these topics
    - Organizes the annual Summer Community Meeting
  - Board on Enterprise Economic Development (BEED)
    - *External* focus
    - Grows the economic base of the weather and climate enterprise by reaching out to the user community, broadly defined
    - Stands up economic sector committees to facilitate dialogue between these sectors and the weather and climate community

- Organizes the annual AMS Washington Forum and the annual User’s Forum
- Identifies and communicates business opportunities for all enterprise Sectors
- Boards have Committees and Sub-Committees
- Committees have Advisory constituents from the 3 Enterprise Sectors
- Committees require AMS Council approval
- Ad Hoc Committees can be attached to Boards, or report to the Commissioner, Come and Go, and could become a Committee; as justified and with AMS Council approval

**C. Commission Board Reports**

**1) Board of Enterprise Planning (BEP) Annual Report for 2010 Tim Spangler**

**Membership Status**

**BEP Board membership as of the end of 2010:**

- Timothy Spangler (Chair), UCAR (2010)
- Laura Furgione, NOAA (Chair for 2011-13)
- Fred Carr, University of Oklahoma (2010)
- Bruce Telfeyan, Air Force Weather Agency (2010)
- Don Winter, Harris Corporation (2010)
- Bill Mahoney, NCAR (APT on mobile measurements-2011)
- Jim O’Sullivan, NWS (APT on mobile measurements-2011)
- William Carle, Air Force Weather (2012)
- William Massey, Dewey Engineering (2010)
- Tom Paylor, RenaissanceRe Corporation (2012)
- Larry Atkinson, Old Dominion University (2012)

The membership of the active APT committees is appended to the end of this report.

**Primary Activities – 2010**

**Mesoscale Observing Networks Annual Partnership Topic**

This APT topic committee, chaired by Fred Carr, was overtaken by events. The work of the committee was suspended pending the outcome of the NRC report, and then the commission appointed a major new effort called the Network of Networks Committee, chaired by George Frederick. The board agreed with a recommendation by Fred Carr that the APT committee had become redundant and its work was merged into the NoN committee.

**Hurricane Disasters Annual Partnership Topic**

The report, heavily edited by Tim Spangler, was submitted to the commissioner for further action. It was reported out to the AMS Council which had no comment, except a recommendation that perhaps the report should be discussed with the Director of FEMA before it was posted to the AMS website.

**Expanding the National Surface Observing Network – Realizing the Potential of Vehicle-based Observations Annual Partnership Topic**

This APT committee has been extremely active the past year under the leadership of Bill Mahoney and Jim O’Sullivan. Their work plan includes:

- |   |              |
|---|--------------|
| 1) Develop APT Committee member candidate slate   | Completed    |
| 2) Have candidate slate approved  | Completed    |
| 4) Summer Partnership Meeting, Norman, OK   | Completed    |
| 3) First Committee telecom/webcast introducing concepts   | Completed    |
| 5) Submit BAMS In-Box Article on Mobile Observation Activities                                      | Published    |
| 6) Conduct survey to assess driver desires for in-vehicle weather/road condition hazard information | Completed    |
| 7) Perform basic analysis of driver survey results  | Completed    |
| 8) Prepare draft APT Summary Report for BEP   | 80% complete |

- 9) Discuss preliminary findings at AMS Annual Meeting, Seattle January 2011  
 10) Prepare full article on mobile observation activities Summer 2011  
 11) Present results at Summer Community Meeting Summer 2011

**Offshore Wind Energy Annual Partnership Topic**

Larry Atkinson, who proposed this APT, was selected as the APT chair and a charge was drafted and approved by the BEP and the Commissioner. A committee was chosen and established a website to track progress (<http://www.ccpo.edu/~atkinson/ams/>)

The next principal activity will be to plan a community town hall meeting, perhaps during the summer of 2011. Laura Furgione is looking for a co-chair for this committee.

**Proposed Integrated Water Resources Science and Services APT**

This proposed APT will be discussed during the BEP meeting in Seattle.

**Planned Activities for 2011**

**APT “Expanding the National Surface Observing Network – Realizing the Potential of Vehicle-based Observations”:** This APT will be completed and a final report prepared for the BEP and the Commission

**APT on Offshore Wind Energy:** The committee will continue to work on this topic with a goal of holding an Offshore Energy Session at the AMS annual meeting in New Orleans

**Proposed Integrated Water Resources Science and Services APT:** a committee charge will be finalized, a committee selected, and work will begin with a goal of holding a town hall meeting at the AMS annual meeting in New Orleans.

**New APT:** An open invitation to submit APT nominations to the CWCE web site will be established. The BEP will review the applications and make recommendation to the commission during its summer meeting. The BEP is also going to discuss new ideas about how to solicit and select annual partnership topics.

**APT membership**

Offshore Wind:

- Larry Atkinson, Old Dominion University, Chair
- Bruce Bailey, AWS Truepower
- Earle Buckley, Buckley Environmental Research & Services, member BEP
- Bill Carle, DOD/USAF
- Bruce Carlisle, Mass CZM
- Brian Colle, Stony Brook University
- Elliot Dennis, DOE NREL
- Laura Furgione, NOAA/NWS, next BEP Chair
- David Green, NOAA/NWS
- Nick Keener, Duke Energy
- James Kendall, DOI/MMS
- Gary Norton, DOE
- Tom Paylor, RenRe

Other contacts:

- Melinda Marquis, NOAA/ESRL
- Tim Spangler, UCAR

**APT Committee – Mobile Observations**

<i>Committee Members</i>	<i>Affiliation</i>
Bill Mahoney (Co-Chair)	National Center for Atmospheric Research (NCAR)
Jim O’Sullivan (Co-Chair)	National Oceanic and Atmospheric Administration (NOAA)
Andrew Stern	National Weather Service (NWS)
Dave Helms	NWS Office of Science & Technology (OST)
Jud Stailey	Office of Federal Coordinator for Meteorology (OFCM)



Erik Peterson	United Parcel Service (UPS)
Jim Block	Telvent/DTN/ Meteorlogix
Ben McKeever	Federal Highway Administration (FHWA), USDOT
Paul Pisano	Federal Highway Administration (FHWA), Road Weather Management Program, USDOT
Gina Eosco	American Meteorological Society (AMS)
Leon Osborne	Meridian Environmental Technologies & University of North Dakota, Surface Transportation Weather Research Center
Greg Krueger	Michigan DOT
Michael Hooper	Sirius XM Radio
Jim Sayer	University of Michigan Transportation Research Institute (UMTRI)
Robert Koeberlein	Idaho DOT
Bob Baron	WxWorks, Inc., Baron Group
Richard Clark	Millersville University
Kevin Petty	Vaisala
Sheldon Drobot	NCAR
Art Handman	Chair, Intelligent Transportation Society of America (ITSA) Weather Committee (ex-officio)
Ed Boselly	Chair, AMS ITS/Surface Surface Transportation Weather Committee (ex-officio)
- TBD -	Auto Industry Representative
<i>Non Members</i>	<i>Affiliation</i>
Gary Rasmussen	AMS
Tim Spangler	UCAR; Chair, AMS Board on Enterprise Planning (BEP)
Laura Furgione	NOAA Assistant Administrator of the Office of Program Planning and Integration; Future Chair, BEP

BEP 2011 annual meeting is Wednesday in the Sheraton Chelan Room at 1215 and start the business meeting at 1pm.

Agenda

1. Review the annual BEP report
2. The Mobile Observations APT report
3. Status of Offshore APT
4. Discussion of Gary Carter proposal for Integrated Water Resources Science and Services
5. Discussion of APT solicitation process

**2. Board on Enterprise Communication- Veronica Johnson-Weems**

**a. Board Membership 2010**

<u>member</u>	<u>affiliation</u>	<u>term ends</u>	<u>academic</u>	<u>government</u>	<u>private</u>
veronica johnson	nbc in washington	2013			X
betsy weatherhead	ncar boulder	2014		X	
heather lazrus	national weather center, ou	2013	X		
ken reeves	accuweather	2013			X
eric webster	itt corporation	2013			X
joel cline	noaa, washington, dc	2013		X	
julie demuth	ncar boulder, co	2012	X		
chris vaccaro	noaa, washington, dc	2012		X	

gerald dittberner	priv. co. gjd science/tech	2012			X
ed o'lenic	noaa, silver spring, md	2011		X	
paul hirschberg	noaa, silver spring, md	2011		X	
elliott abrams	accuweather, psu	2011			X

**b. Summer Community Meeting Penn State University August 7-11 2010**

**130 Registered Attendees**

Summary

- public, private and academic enterprise members are working effectively to address the multiplicity of needs for weather and climate information
- these relationships require continued communication and agreements on the value of partnership at all levels of the organizations involved and,
- when well maintained, will enable the enterprise to address existing and future needs of the public,
- an economic analysis should help assure that future investments are appropriate and targeted for optimal benefit, and
- the most significant needs are more and more robust measurements and state of the art computer capabilities.

**c. Climate Services Committee 2010**

member	affiliation	term ends	academic	government	private
ed o'lenic	noaa, washington dc	2014		X	
kelly redmond	deputy director wrc	2012		X	
holly hartmann	invest. hydrology univ. of az	2014	X		
john dutton	ceo prescient wx services	2014			X
paul llanso	head world climate data monitor.	2013		X	
eileen shea	chief climate services division	2010		X	
caitlin simpson	program mgr. noaa	2010		X	
ryan boyles	nc state climatologist	2011	X		
bob cohen	retired climatologist	2011			X
chuck hakkarinen	private consultant	2011			X

Note: Chair Ed O'lenic of NOAA and his committee claims to be continues to be the only AMS committee using web ex so frequently and effectively.

**d. Ad Hoc Committee on Uncertainty in Forecasting**

ACUF is co-chaired by Paul Hirschberg and Elliot Abrams, and this group's work is essentially completed as evidenced by the following list of activities.

1. In Nov., the CWCE approved that the plan be posted on its AMS web site.
2. The document has just finished being technically edited by AMS, and will be revised accordingly and posted by end of Jan.
3. BAMS manuscript has been drafted and will be submitted to AMS by end of Jan.
4. ACUF work completed and with posting on the AMS Web, committee can/will be discharged

**e. Ad Hoc Committee to Improve Communication on Climate Change (CICCC)**

1. Was formed in august with co-chairs: Ray Ban, the Weather Channel, Andrea Bleistein, NOAA External Affairs and Paul Croft, Kean University
2. Mission: to 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.
3. Total membership: ~ 60
4. Terms of Reference: completed in November

5. BEC coordinating with BEED to conduct a session at 2011 Washington Forum (see below)

6. CCCCC will meet: Tuesday, Jan 25 9:30am - 11:30am Room TBD

**f. Summer Community Meeting 2011 8-12 August, UCAR Center Green in Boulder CO**

1. Co-Chairs of summer meeting planning: George Frederick & Betsy Weatherhead
2. key elements in planning the stakeholders summit include and not limited to:  
an invite letter, target the right people ahead of time, funding for travel, advocacy, marketing campaign, topics of discussion.
3. phase one: Clarification to people who are new to this (what is the concept)  
phase two: User feedback. Need expressions from users on products and how important it is to have this network  
phase three: Productive course of action.
4. George Fredericks to make presentation at the 2011 AMS Annual Council Meeting

**3. Board on Enterprise Economic Development- Pam Emch**

**a. Board Membership 2010**

	<b>BEED Member</b>	<b>Organization</b>	<b>Term Ends Jan.</b>	<b>Commercial / Private</b>
1	Pam Emch, Chair	Northrop Grumman	2011	X
2	Melinda Marquis, Future Chair	NOAA / ESRL	2014	
3	Dorlisa Hommel	Noblis	2011	X
4	Andrea Bleistein	NOAA External Affairs	2011	
5	Holly Hartmann	University of Arizona	2011	
6	Eva Regnier	Naval Postgraduate School	2011	
7	DeWayne Cecil	NOAA	2012	
8	Richard Eckman	NASA LaRC	2012	
9	Dave Jones	StormCenter	2012	X
10	John Lasley	SAIC	2013	X
11	John Snow	The University of Oklahoma	2013	
12	Shawn Miller	Raytheon Corp.	2013	X
	<i>Ex Officio</i> , Chair, ITS & Surface Transportation Committee, Ed Boselly	Weather Solutions Group	2012	X
	<i>Ex Officio</i> , Chair, Energy Committee, Steve Bennett	Scripps Institution of Oceanography	2013	

**b) AMS Intelligent Transportation Systems / Surface Transportation (ITS/ST) Committee Membership 2010**

	<b>Member</b>	<b>Organization</b>	<b>Term Ends Jan.</b>	<b>Commercial / Private</b>
1	Ed Boselly, Chair	Weather Solutions Group	2012	X
2	Jim Block	Meteorlogix	2011	X
3	Steve Conger	AvaTerra Services/Iteris, Inc.	2011	X
4	Kathy Osborne	Meridian Environmental Technologies, Inc.	2011	X
5	Tina Greenfield	Iowa DOT	2012	
6	Sheldon Drobot	UCAR	2012	

7	Mark Askelson	University of North Dakota	2012	
8	Fred Klein	Noblis	2013	
9	Kevin Petty	Vaisala	2013	X
10	James Koermer	Plymouth State University	2013	
11	Elliot Abrams	AccuWeather	2013	X
12	Brenda Boyce	Mixon-Hill	2013	X
	<i>Ex Officio</i> , Chair, ITS America Weather Information and Applications Special Interest Group - Art Handman			
	<i>Ex Officio</i> , Chair, Transportation Research Board Task Force on Surface Transportation Weather - Wilf Nixon			
	<i>Ex Officio</i> , Federal Coordinator for Meteorology or designee – Judson Stailey			
	<i>Ex Officio</i> , Past Chair, ITS/ST Committee – Paul Pisano	USDOT/FHWA RWM		

**c. Energy Committee Membership 2010**

	<b>Member</b>	<b>Organization</b>	<b>Term Ends Jan.</b>	<b>Commercial / Private</b>
1	Steve Bennett, Chair	Scripps Institution of Oceanography	2013	
2	Matt Coleman	University of Virginia (student)	2012	
3	Heidi Centola	AWS – Weatherbug	2012	X
4	Russ Bigley	Xcel Energy	2012	X
5	Anthony Arguez	NCDC	2012	
6	Jerry Crescenti	Iberdrola Renewables	2012	X
7	Manda Adams	UNC Charlotte	2013	
8	Mitchell Baer	US DOE, Office of Policy & Int'l Affairs, Office of Oil & Gas Analysis	2013	
9	Mark Russo	Chesapeake Energy	2013	X
10	Kevin Stenson	Stenson and Associates, LLC	2013	X
	<i>Ex Officio</i> , Chair, Renewable Energy Subcommittee, Melinda Marquis	NOAA/ESRL	2013	
	<i>Ex Officio</i> , Past Chair, Energy Committee, Jon Davis	Chesapeake Energy		X

**d. Renewable Energy Sub-Committee of the Energy Committee 2010**

	<b>Member</b>	<b>Organization</b>	<b>Term Ends Jan.</b>	<b>Commercial / Private</b>
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1	Melinda Marquis, Chair	NOAA / ESRL	2013	
2	Cathy Finley	Windlogics	2013	X
3	Justin Sharp	Iberdrola Renewables	2012	X
4	John Manobianco	AWS Truewind	2013	X
5	Andrew Stern	NOAA	2012	
6	Julie Lundquist	University of Colorado	2013	
7	Jason Day	NSF/Division Atmospheric & Geospace Sciences	2013	
8	Jennifer States	DOE/PNNL	2013	
9	Earle Buckley	Buckley Environmental Research & Services	2012	X
10	Kathy Moore	Integrated Environmental Data LLC	2013	X
11	Cegeon Chan	First Wind	2013	X
	<i>Ex Officio</i> , Chair, Energy Committee, Stephen Bennett	Scripps Institution		
	<i>Ex Officio</i> , Energy Committee Liaison, Jerry Crescenti	Iberdrola Renewables		X

#### e. BEED Primary Activities

##### 1. Users Forum

- Until 2010, took place at the AMS Annual Meeting (~1 day); starting in 2011 this event is to be incorporated into the spring AMS Washington Forum as a session
- Brings together the broader user community and the weather and climate enterprise
- Focus on local / regional users in vicinity of Annual Meeting location
- Speakers asked to focus on industry needs for weather and climate information, recent successes and failures in the use of products, and other aspects of products and services as they relate to the end user and decision maker
- Prior user areas high-lighted include airline industry, wine-making, offshore energy in the gulf, hurricane emergency responders, water resources in the southwest

##### 2. AMS Washington Forum (formerly the Public-Private Partnership Forum and the Corporate Forum)

- Takes place each spring in Washington, D.C. (1 ½ day – 3 days)
- Brings together key members of the community, government agencies, and policy makers
- The primary goal of the Forum is to identify business opportunities; a secondary goal is to provide an opportunity for discussion on areas of interest across the three sectors
- Discussion topics include ongoing programs, new initiatives, business opportunities, and policy issues

##### 3. Work with CWCE, BEP, BEC to plan and organize meetings, review statements, and participate in additional AMS activities

##### 4. The BEED also supports the activities of its committees to

- Identify and facilitate opportunities for engagement between the weather and climate community and the transportation, energy, and water resources sectors
    - Sponsor / attend conferences and web casts
    - Organize / co-chair AMS forums, sessions, and short courses
    - Improve AMS committee websites and other methods of distributing committee information
5. BEED Committees and Sub-Committees
- a. Intelligent Transportation Systems & Surface Transportation Committee:
    - Conduct Surface Transportation Weather sessions as part of AMS Annual Meeting
    - Hold joint meetings with the Intelligent Transportation Society of America
    - Develop BAMS articles focused on surface transportation weather
  - b. Energy Committee:
    - Conduct Energy sessions as part of AMS Annual Meeting
    - Starting in 2010, conduct Conference on Weather, Climate, and the New Energy Economy at AMS Annual Meeting; now in its second year for 2011 Annual Meeting
    - Associated activities include Town Hall meetings, a short course, a networking happy hour, and participation in the Student Conference
    - Working with NCDC on climate normals
    - Formed a Renewable Energy Subcommittee in 2010
  - c. Renewable Energy Subcommittee (RES):
    - Work with Energy Committee to organize and run the Conference on Weather, Climate, and the New Energy Economy at AMS Annual Meeting
    - In addition, set up a Town Hall meeting on Renewable Energy

**f. BEED 2011 AMS Annual Meeting and Agenda**

**Monday, 24 January, 2:30 pm to 5:30 pm PST, Sheraton Hotel, Metropolitan B Room**

We will go around the room and introduce ourselves, thanking departing Board members (Dorlisa Hommel, Andrea Bleistein, Holly Hartmann, and Eva Regnier), and welcoming new Board members (Jim Hansen, Mary Hayden, Sue Haupt, and Sara Pryor).

We will also recognize the incoming BEED Chair, Melinda Marquis, and the shift of Pam Emch to Past Chair.

(Membership changes are official at the end of the 2011 Annual Meeting).

**Old Business**

1) Approval of Minutes from the 10 November 2010 telecon

2) Agenda Approval

3) Action Item Review: N/A

4) AMS Annual Meeting BEED Events: We will review the list and status of BEED sponsored or related events taking place at this year's Annual Meeting.

5) 2011 AMS Washington Forum Status: We'll get an update from the planning committee.

6) ITS / Surface Transportation Committee: Ed Boselly will report on recent and planned activities of the ITS/ST Committee.

7) Energy Committee: Steve Bennett will report on recent and planned activities of the Energy Committee. Status on the Renewable Energy Subcommittee will be included.

#### **Open Discussion**

Round robin open discussion.

#### **g. BEED Meeting with the NOAA Regional Climate Services Directors:**

**Monday, 24 January, 4:00 pm to 5:30 pm PST, Sheraton Hotel, Metropolitan B Room**

**Goal:** This event provides members of the BEED and its committees an opportunity to meet with the new NOAA Regional Climate Services Directors (RCSDs) in a medium – sized setting. This will allow the RCSDs to describe their plans and activities and to learn about the AMS BEED organization and charter within the Commission on the Weather and Climate Enterprise (CWCE). The meeting is intended to be informal with plenty of opportunity for Q&A and discussion. We would like to discuss how NOAA RCS and AMS/CWCE/BEED activities and goals can be synergistic.

**Agenda:** Introduction – Pam Emch, Chair, AMS BEED

- Overview of purpose for organizing this meeting – DeWayne Cecil, BEED Member and NOAA RCSD for the Western Region
- Overview of NOAA Climate Services and the RCSDs – Eileen Shea, Chief of the Climate Services Division of the National Oceanic and Atmospheric Administration’s National Climatic Data Center
- Each RCSD will provide an introduction describing their region, offices, goals, and examples of collaborative efforts.
  - DeWayne Cecil, Western Region, Salt Lake City, Utah
  - Ellen Mecray, Eastern Region, Bohemia, N.Y.
  - Doug Kluck, Central Region, Kansas City, Mo.
  - David Brown, Southern Region, Fort Worth, Texas
  - John Marra, Pacific Region, Honolulu
  - James Partain, Alaska Region, Anchorage, Alaska
- Chairs of the entities within the Commission on the Weather and Climate Enterprise will provide an introduction of their organization and activities, particularly how they do or might relate to climate services.
  - Len Pietrafesa, Commissioner, AMS Commission on the Weather and Climate Enterprise (CWCE)
  - Veronica Johnson, Chair, AMS Board on Enterprise Communication (BEC)
  - Tim Spangler, Chair, AMS Board on Enterprise Planning (BEP)
  - Pam Emch, Chair, AMS Board on Enterprise Economic Development (BEED)
  - Ed Boselly, Chair, AMS BEED Intelligent Transportation Systems / Surface Transportation (ITS/ST) Committee
  - Steve Bennett, Chair, AMS BEED Energy Committee
  - Melinda Marquis, Chair, AMS BEED Renewable Energy Subcommittee
- Q&A / Discussion

#### **NOAA Participant Summaries and Biographies**

Eileen Shea is the chief of the Climate Services Division of the National Oceanic and Atmospheric Administration’s National Climatic Data Center. She has directed the agency’s Integrated Data and Environmental Applications Center in Honolulu since 2005. The center works on regional and global observation systems for climate data, develops technology to improve measurements and forecasts, and provides education and outreach.

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**Secretary Locke Announces Six New NOAA Regional Climate Services Directors To Meet Growing Demand for Climate Products and Information**

**September 14, 2010 :** Climate variability and change are impacting our society and the environment. Commerce, public health, natural resources and major economic sectors, such as water utilities, energy, transportation, agriculture, forestry and fisheries are highly sensitive to climate influences. To more effectively meet the rising public and private demand for climate products and services, Secretary Locke today announced the selection of six new NOAA regional climate services directors.

The new directors will work to build and strengthen regional partnerships to better assess and deliver regionally-focused climate science and information products and services to help people make informed decisions in their lives, businesses and communities. The new directors are:

- Ellen Mecray, Eastern Region, Bohemia, N.Y.
- Doug Kluck, Central Region, Kansas City, Mo..
- David Brown, Southern Region, Fort Worth, Texas
- DeWayne Cecil, Western Region, Salt Lake City, Utah
- John Marra, Pacific Region, Honolulu
- James Partain, Alaska Region, Anchorage, Alaska

“More and more, Americans are witnessing the impacts of climate change in their own backyards,” said Commerce Secretary Gary Locke. “NOAA’s Regional Climate Directors will provide critical planning information and services that our businesses and our communities need to tackle head-on the challenges of climate change.”

“NOAA’s new regional directors are liaisons to state and regional users and providers of climate science and information; they will also bring information from the regions back into NOAA,” said Jane Lubchenco, Ph.D., under secretary of commerce for oceans and atmosphere and NOAA administrator. “They will work with our many partners to identify new and emerging regional climate issues and help NOAA develop products or services to address issues like local climate forecasts, drought plans or flood risk mapping.”

The new directors will be employed by NOAA’s National Climatic Data Center in Asheville, N.C. Each will be based at NOAA’s six National Weather Service regional headquarters offices. This co-location ensures close coordination between NOAA’s weather and climate services. The directors will work and collaborate with regional partners from other federal agencies, state, local and tribal governments, universities, the private sector, and non-governmental organizations.

The regional climate services directors will integrate the work of various NOAA partners engaged in developing and delivering climate science and services at the regional level, including the Regional Integrated Sciences and Assessment programs, Regional Climate Centers, state climatologists and many partners across the private and public sector. Integrating the work of these assets increase value to users and support more efficient, cost-effective delivery of services.

**h. BEED Sponsored events Annual Meeting**

Event (with POC)	Date	Time	Location
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AMS Short Course: Energy Meteorology (Bigley)	Sunday, 23 Jan.	08:30 to 17:00	Room 612
BEED Meeting (Emch)	Monday, 24 Jan.	14:30 to 17:30	Metropolitan B Room, Sheraton Hotel
Town Hall Meeting: What do Meteorologists Need to Know about the Energy Industry -- and Vice Versa - to Integrate Weather-Driven Renewable Energy into the Electric Grid? (Marquis)	Monday, 24 Jan.	19:00 to 20:30	Room 618-620
BEED Intelligent Transportation Systems/Surface Transportation (ITS/ST) Committee Meeting (Boselly)	Tuesday, 25 Jan.	07:30 to 09:00	Boren Room, Sheraton Hotel
BEED Renewable Energy Subcommittee (RES) Meeting (Marquis)	Tuesday, 25 Jan.	08:30 to 09:30	Jefferson Room, Sheraton Hotel
Town Hall Meeting: Flipping the Switch: The Energy Complex Demystified (Centola/Stenson)	Tuesday, 25 Jan.	18:00 to 19:30	Room 608
“Energizing” Happy Hour – Social / Networking Event (Centola)	Tuesday, 25 Jan.	19:30	Room 605/610
Session 7B: <u>Improved Communication of Weather Data and Information for Ground and Air Transportation Safety and Mobility</u> . Part of the 27th Conference on Interactive Information Processing Systems (IIPS) (Boselly, Pisano)	Wednesday, 26 Jan.	08:30 to 10:00	Room 607
Second Conference on Weather, Climate, and the New Energy Economy (Bennett)	Wednesday - Thursday, 26-27 Jan.	08:30 to 17:30	Room 4C-2 and 4C-4
BEED Energy Committee Meeting (Bennett)	Wednesday, 26 Jan.	17:30 to 19:00	Willow B Room, Sheraton Hotel

**i. BEED AMS Washington Forum Draft: THEME OF THE 2011 FORUM  
Collaborate ↔ Innovate**

24-28 April 2011, FORUM ORGANIZERS: DeWayne Cecil, Richard Eckman, Pam Emch, Paul Higgins, Dorlisa Hommel, John Lasley, Melinda Marquis, Ron McPherson, Shawn Miller, Keith Seitter + TBD

**PURPOSE OF THE SERIES OF ANNUAL AMS WASHINGTON FORUMS**

The American Meteorological Society, its Commission on the Weather and Climate Enterprise, and its Board on Enterprise Economic Development are proud to work with AMS Community members from all sectors (public, private, and academic), on a continuing basis, to advance the ability of the weather, water, and climate Community to meet our nation's, and the world's demand for products and services relating to weather, water, climate, and other closely allied fields. The AMS Washington Forum is one of several meetings organized by the Commission to provide venues for interaction and discussion. The Forum provides an opportunity for members of the weather, water, and climate community to meet with senior Federal agency officials, Congressional staff, and other community members to hear about the status of current programs, learn about new initiatives, discuss issues of interest to our community, identify business opportunities, and speak out about data and other needs.

**Draft Agenda**

Day 1: Tuesday, 26 April 2011

**8:25 AM Call to Order.** Master of Ceremonies: **Melinda Marquis**, ESRL Renewable Energy Project Manager, NOAA/ESRL; Chair, AMS Board on Enterprise Economic Development; and member of the Executive Committee of the AMS Commission on the Weather and Climate Enterprise

**8:35 AM Welcome.** **Jon Malay**, Director, Civil Space and Environment Programs, Lockheed Martin Corporation, and President, American Meteorological Society

**8:40 AM Overview of the CWCE.** **Len Pietrafesa**, Commissioner, AMS Commission on the Weather and Climate Enterprise, Associate Dean (retired) and Professor of Oceanic and Atmospheric Sciences (retired) at NC State University in Raleigh

Session 1: Congressional Staff Panel Discussion

**8:45 AM** Session Chair: **Paul Higgins**, Senior Policy Fellow, AMS Policy Program

*Panelists serving as Congressional staff will have 5-10 minutes each for an opening statement. This will be followed by discussion focused on pending legislation of interest to AMS members and engaging with Congress.*

- ❖ **Speaker 1**, Professional Staff, Senate/House Committee
- ❖ **Speaker 2**, Professional Staff, Senate/House Committee
- ❖ **Speaker 3**, Professional Staff, Senate/House Committee
- ❖ **Speaker 4**, Professional Staff, Senate/House Committee

Session 2: USGCRP National Climate Assessment

**10:45 AM** Session Chair: **TBD**, Title, Organization

*(Description TBD) Plans and status will be discussed for the United States Global Change Research Program (USGCRP) activities relating to the next National Assessment of climate, which will involve regional impacts and feedbacks to a much greater degree than in past assessments. Panelists have 5-10 min each for an opening statement prior to the session discussion. The panelists include:*

- ❖ **Kathy Jacobs**, Director of the National Climate Assessment and Assistant Director for Climate Assessment and Adaptation, Office of Science and Technology Policy, Executive Office of the President
- ❖ **Speaker 2 (TBD Regional/Local Gov't)**, Title, Organization
- ❖ **Speaker 3 (TBD Industry/User)**, Title, Organization
- ❖ **Speaker 4 (TBD Academia)**, Title, Organization

11:30 AM Session Discussion

12:30 PM - 1:30 PM - A Buffet Lunch will be provided. Opportunity for networking.

Session 3: Federal Agency Leadership Panel Discussion

**1:30 PM** Session Chair: **Ron Birk**, Director, Business Development, Northrop Grumman Aerospace Systems

*Panelists from NOAA, NASA, DOE, DOI, and FAA have 10 minutes each for an opening statement. This will be followed by a session discussion with emphasis on topics related to future programs and initiatives that may lead to business or partnership opportunities for AMS Members. The panelists include:*

- ❖ **Mary M. Glackin**, Deputy Under Secretary for Operations, NOAA
- ❖ **Mike Freilich**, Director, Earth Science Division, NASA HQ
- ❖ **(TBD) DOE**
- ❖ **(TBD) DOI**
- ❖ **Vicki Cox**, Senior Vice President of NextGen, FAA

Session 4: The FAA's NextGen Weather Program and the National Weather Service 4-D Wx Data Cube

**3:45 PM** Session Chair: **John Lasley**, Business Development Manager and Staff Meteorologist, Science Applications International Corporation

*Stakeholders will discuss plans and status for the Four Dimensional Weather Data Cube, a virtual data repository of all weather information for any given point in space and time. The 4-D Wx Data Cube is a key component of NextGen, the FAA's evolution from a ground-based system of air traffic control to a satellite-based system of air traffic management. Panelists have 5-10 min each for an opening statement prior to the session discussion. The panelists include:*

- ❖ **Don Berchoff (or designee)**, Director, Office of Science and Technology, National Weather Service, NOAA
- ❖ **(TBD) Speaker 2**, Title, NextGen Weather Working Group, Joint Planning and Development Office (JPDO)
- ❖ **Rick Heuwinkel**, Manager, Aviation Weather Policy and Requirements, Federal Aviation Administration
- ❖ **Mark Andrews**, Weather Subject Matter Expert, Metron Aviation, Inc.

#### **4:30 PM Session Discussion**

5:15 PM Sessions adjourn for the day; we reconvene for the evening Reception and Banquet *Doubletree Hotel · 1515 Rhode Island Avenue NW · Washington D.C. · 202.232.7000* 5:30 PM Reception with cash bar. All attendees are invited. 6:30 PM Dinner Banquet. Advanced purchase of a banquet ticket is required.

**Speaker (,Topic)**, Title, Organization. He will be introduced by **Jon Malay**, Director, Civil Space and Environment Programs, Lockheed Martin Corporation, and President, American Meteorological Society

Day 2: Wednesday, 27 April 201

**8:30 AM Call to Order.** Session 5: Executive Branch Panel Discussion

**8:30 AM Session Chair: Ron McPherson**, Executive Director Emeritus, American Meteorological Society

*Panelists will each have time for a brief opening statement. This will be followed by a session discussion with emphasis on topics related to progress made on programs and pending legislation that may provide opportunities for AMS members. The panelists include:*

- ❖ **Stuart Levenbach**, Examiner for the National Oceanic and Atmospheric Administration, Office of Management and Budget, Executive Office of the President
- ❖ **(TBD) (invited)**, Senior Policy Analyst, Energy & Environment Division, Office of Science and Technology Policy, Executive Office of the President
- ❖ **(TBD) (invited)**, Program Examiner, Energy Branch, Office of Management and Budget, Executive Office of the President
- ❖ **(TBD) (invited)**, Examiner for NSF, Office of Management and Budget, Executive Office of the President
- ❖ **(TBD) (invited)**, Examiner for NASA, Office of Management and Budget, Executive Office of the President
- ❖ **(TBD) (invited)**, Examiner for FAA NexGen, Office of Management and Budget, Executive Office of the President

#### **10:15 AM Break**

Session 6: Cross-Sector Collaboration: New Models for Innovation, Incubation, and Intellectual Property

**10:45 AM Session Chair: Steve Bennett**, Director of Business Development, Scripps Institution of Oceanography, Executive Director, Scripps Partnership for Hazards and Environmental

Applied Research (SPHEAR) and Chair, AMS Energy Committee

*Innovation in the weather and climate enterprise operates across a broad spectrum. The most well known model involves proprietary development of intellectual property by commercial enterprise. Yet government and academic sectors are often able to innovate without many of the constraints that challenge the private sector. Capturing the synergies between academic, government and private sectors is challenging but the return can be significant. Universities and government research centers are hubs for innovation but are often not skilled in translating their work for application. To address this, industry supported incubators have been developed to provide conduits for technology transfer. Their goal is to empower private sector product development. The panel will discuss examples of this collaborative process. How do we foster then transfer innovation? What are the challenges for ensuring fairness and the public good?*

*What are the sensitivities within the private sector itself? Panelists have 5-10 min each for an opening statement prior to the session discussion. The panelists include:*

- ❖ **(TBD) Speaker 1 (Academic Sector)**, Title, Organization – Administrator of a Public/Private Research Partnership
- ❖ **(TBD) Speaker 2 (Private Sector)**, Title, Organization – Recipient of Academic/Government Sector Innovation
- ❖ **(TBD) Speaker 3 (Academic Sector)**, Title, Organization – a researcher whose work has been translated across to the private sector
- ❖ **(TBD) Speaker 4 (Public Sector)**, Title, Organization – someone who administers partnerships between government and private sector (UCAR?); focus on taxpayer investment in technology that transfers to the private sector
- ❖ **(TBD) Speaker 5 (Private Sector?)**, Title, Organization – the contrary point-of-view – someone to discuss the competitive challenges
- ❖ **(TBD) Speaker 6 (Lawyer?)** – someone knowledgeable about the legal intricacies of technology transfer from govt and academia to the private sector
- ❖
- ❖ 11:30 AM Session Discussion

**12:30 PM – 2:00 PM**

**Topic, Speaker**, Title, Organization. He will be introduced by **Jon Malay**, Director, Civil Space and Environment Programs, Lockheed Martin Corporation, and President, American Meteorological Society.

2:15 Session 7 Offshore Renewable Energy: Chair: **(TBD) Melinda Marquis**, ESRL Renewable Energy Project Manager, NOAA/ESRL; Chair, AMS Board on Enterprise Economic Development; and member of the Executive Committee of the AMS Commission on the Weather and Climate Enterprise

*This year's approval by the Department of Interior for the first U.S. offshore wind farm, and the recent announcement that Google will invest in an underwater transmission backbone that will run from New Jersey to Virginia off the Mid-Atlantic coast and connect with offshore wind farms demonstrate the burgeoning offshore renewable energy development in the nation. The panel will discuss the recent successes, future challenges, and collaborative solutions of this exciting new area of research, development, and industry. The panelists include:*

- ❖ **Jacques Baudry-Losique**, Manager, Wind and Water Program, DOE, and Title, Federal Inter-Agency Working Group on Offshore Energy and Design Conditions
- ❖ **(TBD) (invited)**, Title, X Division, Office of Science and Technology Policy, Executive Office of the President

- ❖ **(TBD) (invited)**, Professor of Oceanography, Department of Ocean, Earth and Atmospheric Sciences, Old Dominion University
- ❖ **(TBD) (invited)**, Director of Permitting, NRG Bluewater Wind
- ❖ **(TBD) (invited)**, Chief Examiner for Commerce, Office of Management and Budget, Executive Office of the President
- ❖ **(TBD) (invited)**, CEO, Deepwater Wind

Session 8: Climate Services, Part I (Title TBD)

**(TBD) 4:20 PM** Session Chair / Moderator: **TBD**

*(Description TBD) The federal government has instituted a concerted effort to define and coordinate climate service activities. This effort involves NOAA and other federal agencies. The topic of climate services spans the public, private, and academic sectors of the weather and climate enterprise. In addition, climate services must be considered at levels ranging from international to national, regional, and local. This session is intended to provide an opportunity to discuss specific aspects of the climate services topic that may include: NOAA climate services and cross sector roles, feedback from the private sector to NOAA, gaps in climate information and services, international-national-regional aspects, needs of the societal/health/water/marine environments/ coastal community sectors, adaptation and mitigation. The (TBD) panelists include:*

- ❖ **Speaker(s) (TBD)**

**5:30 PM Sessions adjourn for the day**

**8:30 AM Call to Order.**

Session 9: Users Forum: Ready for the Nationwide Network of Networks Stakeholders Summit

**8:30 AM** Session Chair: **George Frederick**, President of Falcon Consultants, Past Commissioner, AMS Commission on the Weather and Climate Enterprise, and Chair, AMS Ad Hoc Committee on a Nationwide Network of Networks

*Formerly an event at the AMS Annual Meeting that provides an opportunity for dialogue between the sources, distributors, and users of weather and climate data, this year we will focus on Users or Stakeholders identified in the NRC's report on Observing Weather and Climate from the Ground Up: A Nationwide Network of Networks. Members of the AMS Ad Hoc Committee on a Nationwide Network of Networks have been working to develop implementation options for the recommendations of this report. This panel discussion will help the Committee prepare for a "Summit of Stakeholders" at the AMS Summer Community Meeting scheduled for Boulder Colorado, 8-11 August 2011.*

*Panelists will have 5-10 minutes each for an opening statement. The panelists include:*

- ❖ **David Cleaves**, Climate Change Advisor, Office of the Chief, USDA Forest Service
- ❖ **(TBD) Speaker 2, User: Energy Applications**, Title, Organization
- ❖ **(TBD) Speaker 3, User: Health/Safety Applications**, Title, Organization
- ❖ **(TBD) Speaker 4, User: Transportation Applications**, Title, Organization
- ❖ **(TBD) Speaker 5, User: Water Resource Applications**, Title, Organization
- ❖ **(TBD) Speaker 6, User: Food Production Applications**, Title, Organization

**9:15 AM Session Discussion**

**10:15 AM Break**

Session 10: The AMS Committee to Improve Climate Change Communication (CICCC) (Title TBD)

**10:45 AM** Session Chair: **TBD**, Title, Organization

*(Description TBD) The AMS has responded to the desire for open and impartial discussion on the issues relating to climate change by standing up the Committee to Improve Climate Change Communication (CICCC). This session provides an opportunity to share and discuss with the attendees the charter, goals, and activities of the CICCC.*

❖ Speaker(s) (TBD)

11:45 AM – 12:45 PM - A Buffet Lunch will be provided. Opportunity for networking.

**12:45 PM** Session Chair /

Climate Services Part II Moderator: **TDB**

*(Description TBD) This session will build on and add to the discussion begun in Session 8. The federal government has instituted a concerted effort to define and coordinate climate service activities. This effort involves NOAA and other federal agencies. The topic of climate services spans the public, private, and academic sectors of the weather and climate enterprise. In addition, climate services must be considered at levels ranging from international to national, regional, and local. This session is intended to provide an opportunity to discuss specific aspects of the climate services topic that may include: NOAA climate services and cross sector roles, feedback from the private sector to NOAA, gaps in climate information and services, international-national-regional aspects, needs of the societal/health/water/marine environments/coastal community sectors, adaptation and mitigation. The (TBD) panelists include:*

❖ Speaker(s) (TBD)

**2:15** Session 12: Forum Summary and Next Steps

**2:45 PM** Moderator: **Melinda Marquis**, ESRL Renewable Energy Project Manager, NOAA/ESRL; Chair, AMS Board on Enterprise Economic Development; and member of the Executive Committee of the AMS Commission on the Weather and Climate Enterprise  
*(Description TBD) We conclude by identifying and discussing the action items developed during the meeting as we summarize the sessions. We will address issues, comments, and conclusions for each session and the overall Forum including*

- ❖ What lessons have we learned?
- ❖ What are the primary issues with respect to this topic?
- ❖ How effectively are the public, private, and academic sectors working together?
- ❖ How do we proceed forward?
- ❖ What are the roadblocks to providing more detailed information to decision makers?
- ❖ What are the venues for further coordination and communication?
- ❖ What actions items can be articulated and addressed?
- ❖ Do we have a recommendation for a new AMS Ad Hoc Committee or an Annual Partnership Topic (APT)?

**(TBD) 3:45 PM Forum Ends**

**(TBD) Capitol Hill Visits (TBD)**

**Capitol Hill Visits:** The Weather Coalition and the University Corporation for Atmospheric Research (UCAR) are facilitating individual visits to the Hill in conjunction with the 2011 AMS Washington Forum. Interested Forum attendees will meet pertinent House and Senate staff members to discuss topics of interest such as FY 2012 budget issues. For additional information, please contact **Cindy Schmidt** at: [cschmidt@ucar.edu](mailto:cschmidt@ucar.edu). For information on UCAR's government affairs program, visit its web site:

**j. Ad -Hoc Committee on the “National Network of Networks” (C-NNON) formed by George Frederick, see 2f above (reports to the Commissioner)**

**k. Ad -Hoc Committee on “Environmental Security” (CES) being Formed with leadership of Matt Parker and Bill Hooke (reports to the Commissioner)**

**l. Ad Hoc Committee on “Over and In the Ocean Observations” (COIOO) being formed by Len Pietrafesa (reports to the Commissioner)**

