

*Response to the NRC Report:
“Observing Weather and Climate
FROM THE GROUND UP
A Nationwide Network of Networks”*

**George Frederick
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**Chair, AMS Ad Hoc Committee on
the
Nationwide Network of Networks**

**Update
October 2009**



Proposed Organizational Structure of the Nationwide Network of Networks Community Activity

AMS Weather and Climate Enterprise Commission (CWCE)

CWCE Steering Committee (sector leaders)

CWCE Ad Hoc Committee On the Nationwide NoN

Architecture Working Group

Metadata Policy Working Group

Organization/Business Models Working Group

R&D/Testbeds Working Group

Measurements & Infrastructure Working Group

Human Dimension Working Group

Terms of Reference

- Ad Hoc committee with free and open discussion of the issues encouraged
- Committee resides under the Commissioner of the AMS Weather and Climate Enterprise Commission.
- Strategy development includes addressing potential business models, organizational structure and operating modes.
- A plan for a summit of stakeholders will be developed
- Other committees and/or working groups may be established to address specific aspects of the issue and to implement the strategy developed.
- Life of the working group indefinite but should be reviewed at least annually

Members of the AMS Ad Hoc Committee on the Nationwide Network of Networks

- **Government**

- NOAA/NWS (Don Berchhoff)
- NOAA/OAR (Steve Fine)
- NOAA/NESDIS (Scott Hausman)
- FHWA (Paul Pisano)
- OFCM (Sam Williamson)
- EPA (Rich Scheffe)
- AASC (Ken Crawford)

- **Private Sector**

- Vaisala (Walt Dabberdt)
- AWS (Bob Marshall)
- Accuweather (Joel Myers)
- DTN (Jim Block)

- **Academia**

- OU (Fred Carr)
- Utah (John Horel)
- NCAR (Rit Carbone)
- NC State (Len Pietrafesa)

- **AMS**

- CWCE (George Frederick)--Chair
- HQ (Gary Rasmussen)

- **Others (ex Officio)**

- Pam Emch (BEED Chair)
- Veronica Johnson (BEC Chair)
- Tim Spangler (BEP Chair)
- Joe Friday (CWCE Commissioner)

Architecture Working Group

- Working Group
 - Chair
 - Members
- Tasks
 - Overall NoN Architecture Options
 - Data Collection/Communication
 - Network Catalog
 - Database and archive issues
 - Real-time access procedures
 - Online data availability
 - Network Security
 - Quality Control
 - Proprietary Data handling

Metadata Policy Working Group

- Working Group
 - Chair
 - Members
- Tasks
 - Metadata Template
 - Standards Recommended for
 - Surface Data Networks
 - Subsurface Data Networks
 - Upper Air Data Networks
 - Ocean, Marine, Coastal Data Networks

Organization/Business Models

Working Group

- Working Group
 - Chair
 - Members
- Tasks
 - NoN Management Structure
 - Concept of Operations
 - Charter
 - Business Model Options
 - Develop Business Model options
 - Pilot Tests of selected Business Models
 - Establish Proprietary Data Procedure options

R&D/Testbeds Working Group

- Working Group
 - Chair
 - Members
- Tasks
 - NoN R&D Needs
 - Testbed design/architecture

Measurements and Infrastructure Working Group

- Working Group
 - Chair
 - Members
- Tasks
 - Identify current capability
 - Identify requirements
 - Identify Gaps between current capability and requirements
 - Lower troposphere (boundary layer)
 - Atmospheric pollutants
 - Soil Moisture and Subsurface temperatures
 - Scanning remote sensors
 - Metsats
 - Road weather
 - Ocean, Marine, Coastal
 - Recommend path forward

Human Dimension Working Group

- Working Group
 - Chair
 - Members
- Tasks
 - Design methods for assessment and quantification of the economic value of NoN data to users
 - Develop methods to communicate this information to Congress, Government agencies and the public
 - Identify Training and Outreach opportunities for current and new NoN users
 - Identify ways to broaden uses of data beyond traditional weather and climate users

Venues & Outreach

- **Venues** for the topic discussions have a variety of formats-
 - **Workshops**
 - **Special Symposia**
 - **Conference Sessions**
 - **Web casts**
- **Outreach** activities to help identify user needs and promote the capabilities of the meteorological community include-
 - **Sponsoring corporate fora**
 - **Promoting support & services to weather sensitive industries**
 - **Advertising at tradeshow**
 - **Fostering favorable policies & procedures**
- Establishing a more **prominent web presence** for internal communication within the community on topics of interest, outcome of workshops, and other Commission activities.

Ongoing & Future Activities

- Current/Recent—
 - First Committee Meeting—PPP Forum, April 2009
 - Second Committee Meeting—Telecon, June 2009
 - Summer Community Meeting—August 2009
- Future
 - Form Working Groups—Fall 2009
 - Telecons—Fall 2009
 - Town Hall Meeting—Annual Meeting Atlanta, January 2010
 - Telecons/Webex—Spring 2010
 - PPP Forum—April 2010
 - Summer Community Meeting—Summer 2010
 - “Summit”--?????

Discussion

Feel free to contact me at any time at:

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