

To: Mary Cairns, STAC Chair
From: Frank Aikman, Chair, AMS Committee on the Coastal Environment
Subject: Annual Report 2012 – AMS Committee on the Coastal Environment
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In 2012 we held the 10th Symposium on the Coastal Environment in January 2012 in New Orleans, LA, at the 92nd AMS annual meeting. The 10th CE Symposium topics focused on both basic and applied research issues involving understanding, analysis, and prediction of the coastal atmosphere and ocean. There was an emphasis on the coupling of atmospheric, oceanic, and hydrological processes and models and examining their effects on ecological processes and responses, coastal urban effects, and ocean and air quality. The Symposium engendered practical considerations and applications of interdisciplinary field programs, advances in remote sensing and in-situ observational networks, and advances in modeling and forecasting.

A total of 65 abstracts comprised the two day Symposium, which included two all-day sessions on the “IOOS/SURA Super-Regional Coastal Modeling Testbed” and on “Observations and Modeling of Land-Falling Tropical Cyclones.” To promote interaction with other committees, we organized a joint session with the 17th Conference on Air Pollution Meteorology on the topic of “Air and Sea Transport Modeling of the Fukushima Reactor Crisis.” In addition, there were sessions on “Multiple Use of Coastal Environmental Sensors and Models;” on “Coastal Upwelling and Downwelling;” and on “The Northern Gulf of Mexico.” The session chairs of the 10th Symposium on the Coastal Environment are comprised of both CE Committee members and non-members.

The major activities in 2012 included preparation and organization of the 11th Symposium on the Coastal Environment, to be held in January 2013 in Austin, TX, at the 93rd AMS annual meeting. As for the 10th CE Symposium, the 11th CE Symposium topics focus on both basic and applied research issues involving understanding, analysis, and prediction of the coastal ocean and atmosphere. There is an emphasis on the coupling of atmospheric, oceanic, and hydrological processes and models and examining their effects on ecological processes and responses and ocean and air quality; as well as on climate projections in the coastal environment; air-sea coupled modeling; coastal ocean R&D, pre-operational and operational models; and storm and inundation.

A total of 60 abstracts comprise the four day 11th CE Symposium, which includes a Themed Joint Session with the Satellite Meteorology, Oceanography and Climatology (SMOC) Committee on Ocean, Atmosphere, Hydrosphere and Land Surface Interaction in the Coastal Environment and another Themed Joint Session with the 25th Conference on Climate Variability and Change on Climate Trends and Projections in the Coastal Environment. There are also sessions on Air/Sea Coupled Modeling: Processes and Operational Prediction; on Ocean Operational, Pre-operational and Transition Model-based and Observationally-constrained Forecast Systems in the U.S. Exclusive Economic Zone; on Pre-Operational, R&D Regional Coastal Ocean (EEZ) Circulation (& related) Models Run in Real-Time in Academia and Industry and on Storm and Inundation

(Surge/flooding). The session chairs of the 11th Symposium on the Coastal Environment are comprised of both CE Committee members and non-members.

In 2012 the CE Committee had an election for four new members to three-year terms and a student member to a two year term; four members come to the end of their terms in 2012 and will resign; and one of our members accepted a second three-year term. This brings the total membership to ten. Three members will expire in 2014 so we are actively seeking new members.