

**Charge to Instrumentation Standing Committee**  
*Adopted by the Executive Committee April 18, 2011*

**BACKGROUND**

Instrumentation services have been identified as one of the fundamental areas for CUAHSI to pursue since its inception. As part of its strategic planning process, CUAHSI developed an approach to deliver instrumentation development, access and training services to the water science community. The strategic plan was adopted by the CUAHSI Board of Directors in December 2010. The role of the standing committee is to evaluate progress toward the objectives outlined in the adopted strategic plan, and to review strategies and activities for implementation of the plan. The committee's foremost responsibility is to ensure that the activities serve the needs of the university research community.

**CHARGE**

The Standing Committee for Instrumentation shall

- a) review existing CUAHSI and CUAHSI-affiliated projects to determine if they are fulfilling CUAHSI's instrumentation services mission and the specific objectives and actions as outlined in CUAHSI's strategic plan (Appendices 1 and 2) and suggest ways in which those activities can better meet those needs,
- b) evaluate prospective new activities and how these activities would align with CUAHSI's strategic plan,
- c) prioritize as requested CUAHSI's instrumentation activities for the upcoming fiscal year.

The committee shall receive in advance of their meeting, but no later than May, 1, 2011, and annually thereafter, an annual briefing document containing the information needed to execute their charge, and a request consisting of a list of the activities to be prioritized. The document may also contain other questions or items on which the Board requests comment.

The committee shall produce a written report in response to the annual briefing document, containing the Committee's reviews, evaluations and comments, to be submitted to the CUAHSI Board of Directors, for their review, by June 30, 2011, and annually thereafter.

**COMPOSITION/MEMBERSHIP**

The Instrumentation Standing Committee will consist of no fewer than five members in the fields of hydrologic science and related scientific and technical fields, such as instrumentation development. Committee members will be appointed by the Board of Directors or the Executive Committee of the Board acting in its place.

**TERM**

Members of the Instrumentation Standing Committee will serve for a term not to exceed three years. The committee membership terms will be staggered with a target of no less than two continuing members each year.

**MEETINGS**

This committee will meet annually in April or May, and as necessary to complete its charge.

#### RESIGNATION

Any member may resign at any time by giving written notice to the Chair, the Vice Chair, the President or Secretary of the Corporation. Such resignation shall take effect at the time of receipt of the notice, or at any later time specified therein.

#### VACANCIES

Any vacancy in the Instrumentation Standing Committee may be filled for the duration of the remaining term by the Board of Directors or the Executive Committee acting on its behalf.

#### REMOVAL

Any member of the Instrumentation Standing Committee may be removed at any time either with or without cause by vote of the Board of Directors or the Executive Committee acting on its behalf.

APPENDIX:  
INSTRUMENTATION OBJECTIVES IDENTIFIED IN CUAHSI'S STRATEGIC PLAN

(p. 13-14)

**Instrumentation Technology**

Advancements in sensors, wireless networking, and data communications hold the potential to provide data at unprecedented spatial and temporal resolution, contributing to the capacity to observe new patterns and to discover new processes. However, for the promise of advanced instrumentation to be realized, instrument development from an integrated circuit on the bench to a field-robust sensor package must be accelerated, and field scientists need to be continually training on new technologies. Delivering both of these services to the water science community has been identified as critical. CUAHSI will pursue several mechanisms for meeting these needs:

1. Evaluate priorities for new instrument development each year through support of the Instrument Node Model
2. Foster communication between academic researchers and technical groups for the development and testing of prototype instrumentation
3. Expedite translation of new technologies to widespread availability by providing forums for interactions between researchers, private companies, and public institutions
4. Communicate technological advances through short courses, workshops and other mechanisms for dissemination and technology transfer
5. Explore the development of an Instrument Facility to accelerate instrument access in collaboration with agencies, private industry or other partners.