



CUAHSI Board Meeting Minutes

April 3, 2013, Washington, DC

Roll Call

- 11 members are present, needed 10 for quorum
- “X” indicates Director is present

Term expires 12/31/2013

David L. Freyberg, Stanford University (Education & Outreach Liaison) X

Brian McGlynn, Duke University X

Jim McNamara, Boise State University (Observations Liaison) X

Todd Rasmussen, University of Georgia

Ying Fan Reinfelder, Rutgers University X

Term expires 12/31/2014

Diogo Bolster, University of Notre Dame X

Peter Troch, University of Arizona

Scott Tyler, University of Nevada, Reno X

Denice Wardrop, Pennsylvania State University X

David White, Murray State University

Term expires 12/31/2015

Anne Carey, Ohio State University X

Robyn Hannigan, University of Massachusetts-Boston (Chair) X

Carol Johnston, South Dakota State University X

Witold Krajewski, University of Iowa (past-Chair) X

Brian Waldron, University of Memphis

Officers & Staff Present: Rick Hooper (CUAHSI), Jennifer Arrigo (CUAHSI), Adam Ward (Secretary)

Wednesday, April 3, 2013

16:04 EST Call to Order (Hannigan)

1. Approval of Minutes from 2/6/2013 (Hannigan)

- a. **Motion: Carol Johnston**
- b. **Second: Denice Wardrop**
- c. **Discussion: None**
- d. **Approval: Yes**
- e. **Abstain: None**

2. CUAHSI Implementation Plan (Hooper)

- a. Hooper received comments from Wardrop, Johnston, and McNamara prior to the meeting. Jim suggested re-wording of some text related to community modeling to increase the representation of the community perspective. Wardrop agreed that the section should emphasize on identifying and meeting the needs of the community, which is well articulated toward the end of the section.
- b. It was suggested that the Executive Committee ensure the document is explicit about the objectives and the related deliverables.
- c. Scott noted the instrumentation workshop section is scheduled for the second year of the proposal, and this should be added to the document.
- d. **Motion to adopt Implementation Plan for 2013-2017 in principle, and directs the Executive Committee to approve the final edits (Draft Resolution 2)**
 - i. **Motion: Scott Tyler**
 - ii. **Second: David Freyberg**
 - iii. **Discussion: None**
 - iv. **Abstain: None**
 - v. **Approval: Yes**

3. Review of CUAHSI Renewal Proposal

- a. Hooper noted that the renewal proposal has been submitted. He is seeking recognition from the board of their support for the proposal. He noted the community modeling efforts are likely to draw the most attention from the community, and wanted to be certain the Board of Directors was informed.
- b. Review of Community Modeling as submitted (Arrigo, Reinfelder)
 - i. Arrigo presented a summary of the evolution of the Community Modeling effort in the renewal proposal. The January 2013 board investigated several options for community modeling. Reinfelder led an effort to engage the NCAR modeling community, and contacted a number of large-scale hydrological modeling researchers. The aim of this effort is to provide a benchmark model. With discussion from Dave Gochis (NCAR), the overall objective is to build a community modeling effort in collaboration with the data center. An important point is that the CUAHSI data center will maintain a CLM model as a benchmark, including input and output data, providing a resource for investigators to

compare their efforts to an established benchmark. CUAHSI will build the infrastructure to enable modeling by members of the community. Arrigo noted that CUAHSI will actively collaborate with NCAR on the CLM, and will maintain a CLM model for the community.

- ii. Reinfelder noted that a secondary effort is building a culture of community modeling and shared model structures. She noted opportunities to nest smaller-scale models within this reference model. She anticipates difficulty with how the boundaries between small-scale and large-scale models will interact, and will work with the community to actively address these issues.
 - iii. Hooper noted the SE Regional Meeting consensus was that the CLM may be too large in scale for some modelers. Still, there is perceived value in this larger-scale model if only to provide boundary conditions to smaller scale studies.
 - iv. Hooper will contact Tom Torgersen to express a desire to discuss the community modeling aspects of this proposal.
- c. Review of Implications of Staffing Changes (Hooper, Hannigan)
- i. Hooper noted that CUAHSI has proposed level funding over the next five-year period, but re-structured staff to add a training coordinator position. The executive director and president positions will be split, helping increase staffing for the same expense. Hooper has received no feedback from the NSF on this. The intent was to use existing funding to provide more services.
 - ii. Arrigo noted that a training coordinator will join the staff in year 1. This position will help build the resources for administering training courses, rather than subsidizing such courses with CUAHSI funds. She noted the Board is needed to help develop and organize these opportunities, and CUAHSI's focus on instrumentation in collaboration with its members.
 - iii. Tyler suggested that removal of perceived barriers due to getting down to the specific details for these classes might help to garner community support.
- d. **Motion to adopt renewal proposal for 2014-2018 (Draft Resolution 3)**
- i. **Motion: Ying Fan Reinfelder**
 - ii. **Second: Brian McGlynn**
 - iii. **Discussion: None**
 - iv. **Abstain: None**
 - v. **Approval: Yes**
4. CUAHSI underwriting Watershed Science Master Class at Biosphere 2 (January 2014) (Hooper)
- a. Hooper noted that Jeff McDonnell would like to teach this course.
 - b. Hooper asked the Board for their opinions on whether this Master Class could be executed with CUAHSI underwriting. He noted the financial break-even point is 20 students.
 - c. The Board discussed the effort to keep costs down by not actually conducting this class in a catchment.
 - d. The resolution was modified to reflect a maximum cost expenditure of \$5,000.
 - e. **Motion to underwrite the Watershed Science Master Class (Draft Resolution 4)**

- i. Motion: Jim McNamara**
 - ii. Second: David Freyberg**
 - iii. Discussion: None**
 - iv. Abstain: None**
 - v. Approval: Yes**
- 5. Update on Biennial Meeting 2014 planning (McGlynn)
 - a. McGlynn has put together a straw man outline based on notes from the January meeting and discussed this with the Executive Committee, with particular interest in if he had adequately captured the input of Board members. He has not followed up with any individual Board Members, but requested feedback to help finalize the meeting outline.
 - b. The Board discussed whether there were any other efforts within the community discussing the critical zone. It was noted that CUAHSI should ensure that there are no conflicting activities centered on the critical zone, and that contacting NSF with regard to this would be prudent.
 - c. McNamara suggested that the topics could be generalized to be more inclusive, with the goal of keeping CZOs as a part of the meeting but not the sole focus.

16:46 EST Adjourn

Resolution #2

Resolution: Adoption of Implementation Plan for 2013-2017

The CUAHSI Board of Directors,

Noting:

1. The need to prioritize the activities described in the 2010 Strategic Plan
2. The need to provide guidance on both operational and developmental services to staff
3. The need to justify funding requests in the renewal proposal for core operations

Recognizing:

1. The aspirations of CUAHSI described in the 2010 Strategic Plan
2. The near-term opportunities to advance that Strategic Plan.

Decides to adopt the Implementation Plan for 2013-2017 in principle, and directs the Executive Committee to approve the final edits.

Resolution #3

Resolution: Adoption of Renewal Proposal for 2014-2018

The CUAHSI Board of Directors,

Noting:

1. The need to prioritize propose a set of core activities for continued operation of CUAHSI beyond January 31, 2014
2. The Strategic Plan, as adopted in December, 2010 and the Implementation Plan, as adopted in April, 2013
3. The funding opportunities available to the Consortium

Recognizing:

1. The opportunities to review and to comment on multiple drafts of the renewal proposal
2. The discussions held concerning Consortium activities for the renewal period at the January, 2013 board meeting and other board meetings.

Decides to endorse and to fully support the renewal proposal as submitted to the National Science Foundation on February 28, 2013, Proposal Number 13-38606.

Resolution #4

Resolution: Underwriting the Watershed Science Master Class

The CUAHSI Board of Directors,

Noting:

1. The desire to expand training opportunities for graduate students as noted in the Strategic Plan and Implementation Plan
2. The previous success of the Catchment Science Summer School, led by Dr. Jeff McDonnell at the University of Aberdeen's Northern Rivers Institute
3. The intent to make this course fully self-supporting
4. The need to assess demand for such courses

Recognizing:

1. The need to provide financial backing to allow planning to proceed
2. The cancellation policies of the Biosphere 2 Conference Center.

Decides to underwrite the **Watershed Science Master Class**, to be held at the Biosphere 2 Conference Facility near Tucson, Arizona from January 19-24, 2014 with the instruction team of Jeff McDonnell (Univ. of Saskatoon), Christina Teague (UC Santa Barbara) , Peter Troch (Univ. of Arizona), and Rick Hooper (CUAHSI) at a maximum expenditure of \$5,000.

Requests that the Executive Director keep the Board informed of enrollment and the financial status of this **Master Class**