

NHERI- Network Independent Advisory Committee (NIAC)

Minutes of Virtual Meeting: 2nd Meeting in Year-2

Time: Nov 13, 2017 2:00 PM Eastern Standard Time (US and Canada)

1. Welcome, Attendance and Approval of Minutes of 7-25-17 Meeting

Attendance: Lesley Ewing, Bill Hansmire, Farzad Naeim, Catherine Petroff, John van de Lindt, Peter Vickery, Dick Woods.

Minutes of 7-25-17 were approved as distributed without objection. Lesley moved and Farzad seconded the motion.

2. NIAC Operating Procedures (NIAC): under Item 3 of the NIAC meeting minutes of May 26, the members of the NIAC asked for the Council Operating Procedures to review these prior to the July 25 meeting help in the development of the procedures for the NIAC. These were distributed in the same e-mail message (June 7) with the minutes of the 5/26 meeting of the NIAC. At the July 25 meeting the NIAC agreed to consider if there is a need to formally adopt the Council Operating Procedures as its own, until such time as the NIAC deems necessary to modify them. Alternatively, the NIAC may choose to continue to use the Council operating procedures informally. This item is to be addressed at this meeting.

NIAC decided to continue to use the Council operating procedures informally. No further action is needed until new notice.

3. Preparation of the NIAC's response to the questions presented by Dr. Pauschke (see Item 5 of the minutes of the 5/26 meeting):

- a. What are disruptive technologies, e.g., new materials, additive manufacturing, new design methodologies, etc., that could radically lead to whole new concepts for multi-hazard resilient and sustainable building structures? What role can NHERI play?
- b. What are transformative concepts for natural hazards mitigation, what research is needed to realize these concepts, and what role can NHERI play?
- c. Grand challenge - How will the buildings of 20xx be designed and constructed, i.e., a futuristic vision - and what research is needed now to realize that vision? How can engineering researchers partner with visionary architects? What role can NHERI play?
- d. How can the research community best form teams to address grand challenge research questions using NHERI resources?

At the 7-25 meeting the NIAC agreed to the following action item: *The chair will prepare a draft response and distribute to the NIAC members for comment by the end of August 2017. The chair also request that all members provide their cell number to Julio and that he distributes to the NIAC the compiled information.*

The draft was distributed to the committee and feedback provided to the Chair during the meeting was in support of a separate NIAC workshop to address the questions. Members of the NIAC will be invited to participate during the NCO Task Group on the NHERI Science Plan international workshop planned for late Spring early Summer of 2018 (If NSF approved the supplement request as per of the Year 2 Council Annual Work Plan) to collect input on the science plan and develop research campaigns to help fulfill the plan's vision. The NIAC members attending the workshop will collect information to help prepare for the NIAC workshop. Some additional feedback provided to Chair consisted of:

- Consider new construction vs existing one when trying to answer the questions.

- Buildings vs other forms of infrastructure.
- Consider involving other groups such as power and water
- Consider the case for “economic justice”, i.e. Puerto Rico experience with the Maria storm as a case study.

Action Item: John van de Lindt to seek a brief meeting with Joy during his visit to NSF of December 7-8th to discuss the NIAC response and plans for a workshop during the Fall of 2018.

4. NCO Report (Julio)--Increase visibility of NHERI and its Science Plan among the community at large.
Julio shared scheduling updates regarding the number of funded projects in 2017, with 47 by NSF, 3 from other agencies during NHERI time, and 5 more during non-NHERI time. He also updated the NIAC on the NCO plans for an international workshop on the NHERI Science Plan next year and invited the NIAC to send a representation, and finally reported on the efforts to disseminate the impact of the work done by researchers using NHERI.
5. Next Meeting
NIAC decided to schedule the next meeting during the week of February 5th, 2018.
Action Item: Julio to organize a poll to find date and time for the 1.5-hour meeting.
6. Adjourn
Meeting adjourned after Farzad made the motion at 3:20 PM.