



## I. OPENING BUSINESS

9:00 a.m.

- Call to Order (John Aho, Chairperson); Roll call: Commission members John Aho, Gary Carver, David Cole, Laura Kelly, Rod Combellick, Gayle White and Mark Roberts were present. Commission member Roger Hansen was late, and David Miller and Gay Dunham were excused. April Woolery of the State Division of Geological & Geophysical Surveys was present.
- The meeting agenda was approved.
- Introductions-Guests: None
- Review and Approval of Minutes for the November 5, 2009 meeting: The minutes were approved with amendments. April Woolery still needs the presentations from the October 1-2, 2008 meeting so that she can post them on the website. Please send to April or to Commission member Combellick.

## II. BRIEFINGS

9:10 a.m.

- Recent Seismic Activity of Interest-Hansen: The September catalog of events is being reviewed and will be online shortly. There were 2,546 recorded events in October. The largest was a magnitude 6.4 event in the Fox Islands. That area has seen several magnitude 6-plus events over the last few years. These events seem to be migrating towards the Shumagin Gap to the east. For the week of November 16-21, 396 events were recorded. There was a magnitude 3.2 event near Tok that may have occurred on the Cathedral Rapids Fault that Gary Carver identified last summer.
- Health of the Alaska Seismic Networks-Hansen: The seismic networks are in good health. A sensor had to be replaced at Pump Station 8. All but three of the free-field sensors in the Anchorage area are now reporting in real time. The Alaska Earthquake Information Center (AEIC) has received stimulus funding to upgrade 17 stations. They would have liked to upgrade twice that many, but were not able due to restrictions on how the stimulus money can be spent.
- Shake Map Update-Hansen: The current version of ShakeMap is doing well. There is a new version that is currently in beta testing stage.
- ANSS (Advanced National Seismic System) National Implementation Meeting-Hansen: The ANSS Earthquake Catalog is a world-wide earthquake catalog that is created by ANSS members sending their information about an event via e-mail to the headquarters in Berkeley, CA, where it is compiled and duplicate entries are removed. The Berkeley group is now working on making the data more consistent and reliable.
- IRIS (Incorporated Research Institutions for Seismology) Instrumentation Meeting-Hansen: Several types of instruments were discussed. The highlight of the meeting was the discussion about rotational instruments. These use ring lasers to detect the rotation of the ground as opposed to lateral (north-south or east-west) motions. These instruments are expensive, and there are only about three or four of them in operation worldwide. At the meeting, Roger Hansen proposed that the University of Alaska Fairbanks' College Observatory would be a good location to host one of these sensors.

- Earthscope Meeting-Hansen: The meeting focus was on coming up with a new science plan that would include Alaska. The U.S. Array (400 seismic stations) is traveling across the country. It is currently in the mid-west and may reach Alaska by 2014. There are logistics and funding issues that will need to be worked out before that happens, however.
- Municipality of Anchorage Geotechnical Advisory Commission (MOA/GAC) Activity Update-Cole: Last month, they had a presentation by the Municipality of Anchorage to describe the All Hazards Mitigation Plan that the Municipality developed and must update every five years. This plan covers a wide range of hazards but focuses on natural hazards. The current plan can be reviewed on the municipality of Anchorage's website. Such plans are required by the federal government of all local, county, tribal, and state governments in order to be eligible for certain disaster-related funds. This month, the MOA/GAC will have a conference call with MMI regarding the seismic assessment of downtown Anchorage. In January 2010, Dr. Utpal Dutta of UAA will give a presentation on the downhole array in downtown Anchorage.

### III. OLD BUSINESS

9:40 a.m.

- MMI USGS/NEHRP Proposal-Combellick: This was discussed during last month's meeting. Rod Combellick did call Susan Tubbesing to follow up. When NEHRP and EERI consider a proposal, they both look at two things in particular: community involvement/grassroots support, and volunteer participation and input by local experts. Including these will strengthen any future proposals and should be included if possible.
- Action Items:
- Commissioner Hansen should compose a letter thanking ACS for their donation of DSL lines for seismic monitoring. He has the name and address for the recipient and will work on composing the letter.
- Commissioner Combellick will forward the Legislative Presentation and Joyner Lecture to April Woolery for inclusion on the ASHSC website. Commissioners Carver and Hansen also have presentations to be sent to Ms. Woolery.
- Chairman Aho has discussed the 2014 National Earthquake Conference in Anchorage with Susan Tubbesing to keep that event on EERI's radar.
- Commissioner Combellick discussed the need for a new ASHSC member from Seward with David Squires, who is the Seward Fire Chief. Mr. Squires will bring this up with the City Manager there and they will encourage eligible local people to apply.
- NIMS Online Training-Roberts: Commissioners Kelly, White, Aho, Dunham and Miller have completed the basic training.

### IV. MEETINGS OF INTEREST

9:50 a.m.

- ATC/SEI, Improving Structural Performance of Existing Buildings, San Francisco, December 9-11, 2009
- American Geophysical Union, San Francisco, December 14-18, 2009
- NTHMP Meeting, Pasadena, January 26-28, 2010
- EERI Annual Meeting, February 3-6, 2010, San Francisco
- SSA Annual Meeting, Portland, Oregon, April 20-23, 2010
- WSSPC Annual Meeting, July 10-13, 2010, Broomfield, CO

- Association of Engineering Geology (AEG) Meeting, Anchorage, Autumn 2011.
- 2014 National Earthquake Engineering Conference-Anchorage

V. CRITICAL DEADLINES 10:00 a.m.

- ASHSC Report to WSSPC: The report should be summarized (one to two pages) to match the WSSPC newsletter format. Commissioner Hansen is working on this.
- 2009 Report to Legislature-Committee chairs will provide a half-page to a page on their activities for this report. Draft paragraphs should be turned in by early December so that the completed report can be turned in by mid to late January. Chairman Aho will complete this on schedule with input from Commissioner Hansen and Robert Hicks, who agreed to write a page for the Education and Outreach Committee.

VI. NEW BUSINESS 10:05 a.m.

- Recognition:
  - Commissioner Hansen will compose a letter of appreciation to ACS for Chairman Aho's signature.
  - There was a local newspaper article about the collaboration between AEIC and Alyeska to install and maintain the seismic monitoring system for that Trans-Alaska Pipeline. The article will be reproduced in the GI's monthly report, and Commissioner Hansen, who was mentioned in the article, will see about getting the web address to April Woolery so that it can be linked from the ASHSC website.
- Future Briefings
  - Mat-Su Prison Presentation
  - MOA Emergency Operations Center Tour
  - Monitoring of Large Earthquakes
  - Utilities Risk Mitigation Approaches
  - Alyeska Pipeline Seismic Instrumentation
  - DOT inventory of bridges: photo inventory of types and weaknesses
  - Gas Pipeline potential investors: TransCanada, Denali and Enstar all have projects going related to the planned gas pipeline
  - Richard Koehler field work presentation
  - Warning and Coordination Meteorologists from NOAA
  - Alaska Rail Road bridge upgrade
  - Other suggestions should be forwarded to Chairman Aho

VII. REPORTS 10:10 a.m.

- Chairperson
  - National Hazards Observer, [hazctr@colorado.edu](mailto:hazctr@colorado.edu)
  - Commission members should forward suggestions for filling Robert Hicks' open seat on the Commission to Chairman Aho.
  - Annual Report Paragraphs: all have been received, thank you to Committee chairs who have done these.
- Committee Reports

- Insurance-White: She received permission from the Division of Insurance PR Liaison for the link to their Homeowner's Insurance information from the ASHSC website, and it has been linked. The Liaison will work with Commissioner White to produce a brochure, as well.
- Schools-Kelly: The official memo, map and table have been delivered to the Commissioner for the Alaska Department of Education and Early Development (ADEED). The memo and map can be used by ADEED to prioritize schools by seismic risk. Rod Combellick will follow up to be sure that, since the memo was printed on Department of Natural Resources (DNR) letterhead, his Director and the Commissioner of the DNR are given copies. This should be done prior to sending such correspondence in the future. Once they have been informed, the information may be posted on the ASHSC website. Laura Kelly has also finished the Schools Committee summary for the Annual Report. She commented that the spelling of Senator Gary Stevens' name needed to be checked, as it was apparently misspelled in an earlier version of the minutes. She also has a write-up from Sam Kito that Chairman Aho might want to incorporate, since Mr. Kito attended the presentation to the Legislature in person.
- Earthquake Scenario-Combellick: The committee met last Tuesday. They went over the summary report for the ASHSC Annual Report and have revised the committee's goals and metrics. They also discussed the rejection of MMI's proposal and discussed what can be done to improve the chances of similar proposals being accepted in the future.
- Education & Outreach-Aho: John Aho is serving as interim chair and would like to have someone else chair this committee.
- Hazards Identification-Carver: The summary has been completed and a copy was sent to Chairman Aho. Commissioner Carver also sent out a draft of part of the white paper that he has been working on in order to get feedback from committee members.
- Response, Recovery/Post Earthquake Planning-Roberts: They are continuing to work on emergency preparedness as well as their goals and metrics. The Statewide Emergency Management Exercise, which is in conjunction with a national requirement, will be held in the last week of April/first week in May. The scenario will be a seismic event, probably a combination earthquake and tsunami.
- Partnership-Aho: He will contact Lisa Witzleben of the Department of Military & Veterans Affairs, regarding a partnership with APIP.

IX. ADMINISTRATIVE MATTERS

10:40 a.m.

- Budget Report-Woolery: Following travel expenses for the September face-to-face meeting, the ASHSC budget is now \$4,872.00.
- ASHSC Web Site Update Status-Woolery: The website is up-to-date, and the finalized November minutes are posted. Chairman Aho will send the Legislative presentation and the Joyner Lecture to be added to the site. The PowerPoint presentations from the October, 2008 face-to-face meeting are still needed.
- Committee goals and metrics are due by December 1, 2009.
- Next Meeting Date: Teleconference on Thursday, January 7 at 9:00 am. Next face-to-face meeting is tentatively scheduled for early March in Anchorage. The exact date will depend on commission member input.

MINUTES OF THE ALASKA SEISMIC HAZARDS SAFETY COMMISSION MEETING  
December 3, 2009

X. GENERAL DISCUSSION 10:50 a.m.

- Public: None

XI. ADJOURNMENT 11:00 a.m.

- Commission member Combellick moved, and Commission member Cole seconded to adjourn. All in favor. Meeting adjourned at 11:00 am.