



University of Hawai'i at Hilo

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**Minutes  
Regular Meeting**

Mauna Kea Management Board  
Wednesday, December 5, 2012

Kukahau'ula, Room 131  
640 N. A'ohoku Place  
Hilo, Hawai'i 96720

**Attending**

**MKMB:** Chair Barry Taniguchi, 1<sup>st</sup> Vice Chair Patricia Bergin, 2<sup>nd</sup> Vice Chair/Secretary Ron Terry, Lisa Hadway, Herring Kalua, Gregory Mooers, and Christian Veillet

**BOR:** Carl Carlson, Jr.

**Kahu Kū Mauna:** Chad Kalepa Baybayan

**OMKM:** Fritz Klasner, Stephanie Nagata and Dawn Pamarang

**Others:** Laura Aquino, David Byrne, Sandra Dawson, Gerald De Mello, Cory Harden, Guenther Hasinger, Bruce Heidenfeldt, Arnold Hiura, Eloise Hiura, Nelson Ho, Stewart Hunter, Allan Ikawa, Lester Inouye, Springer Kaye, Ka'iu Kimura, Jessica Kirkpatrick, Joy Klasner, Tim Lui-Kwan, Bob McLaren, Barry Mizuno, Larry Okinaga, Scotty Paiva, Ian Sandison, Betty Stevens, Ed Stevens, Ethan Tweedie, Casper Vanderwoude, Dwight Vicente

**I. CALL TO ORDER**

Chair Taniguchi called the meeting of the Mauna Kea Management Board (MKMB) to order at 10:05 a.m.

**II. APPROVAL OF MINUTES**

Upon motion by Herring Kalua and seconded by Christian Veillet the minutes of the September 18, 2012 meeting of the MKMB were unanimously approved.

**III. DIRECTOR'S REPORT**

**A. Thirty-Meter Telescope (TMT) Conservation District Use Application (CDUA) Contested Case**

The Hearing Officer submitted his report to the Department of Land and Natural Resources on Friday, November 30, 2012. The report concluded that the applicant, UH Hilo, met the eight criteria of Hawaii Administrative Rules for granting a conservation district use permit on Conservation District Lands and a permit be granted.

The Board of Land and Natural Resources (BLNR) also sent out a minute order stating the deadline for submitting exceptions to the Hearing Officer's recommendation is December 27, 2012. Responsive briefs to exceptions shall be filed no later than January 10, 2013. The BLNR will also entertain oral arguments on January 30, 2013 at 11 a.m. in the Council Chambers at the County Building in Hilo.

**B. Burial Treatment Plan**

The Office submitted a request to the Hawaii Island Burial Council (HIBC) for approval of temporary authority to cover exposed iwi on UH's managed lands. We were initially placed on the HIBC's October 18, 2012 agenda, but our agenda item was subsequently removed following review by the State Historic Preservation Division (SHPD) that stated the Burial Council did not have authority to grant such an approval. We are now waiting to hear from

SHPD regarding its review of applicants who filed for recognition as lineal and cultural descendants. If SHPD recommends the Burial Council formally recognize the individuals, we will consult with them on the draft Burial Treatment Plan.

**C. Traffic and Parking Plan**

Director Nagata reported she met with Brian Minaai, Associate Vice President for capital improvements with the UH System about doing a study of the traffic and parking situation at the mid-level facilities. Mr. Minaai asked for copies of planning documents including environmental assessments for his staff to review to see how we might be able to proceed.

**D. Volunteer Days**

We have had three successful volunteer fireweed pulling events on September 22<sup>nd</sup>, October 27<sup>th</sup> and November 10<sup>th</sup>. Participants included military personnel from the Pohakuloa Training Area (PTA), UH Hilo Botany club and members of the Hawaii Island Chamber of Commerce. Our long term goal is to try to restore the area with native vegetation.

**E. Office of Mauna Kea Management (OMKM) Web Site and Informational Brochure**

The restructuring of the OMKM website is progressing. The template is nearly complete and we will soon be populating the site with content. We are reviewing the second draft of the informational brochure.

**F. Cultural and Natural Resources Orientation**

The natural resources component of the orientation has been completed and we are currently reviewing the cultural resources program.

**G. Visitor Survey**

The final report of the visitor information survey, which both the spring and summer results, has been submitted. The data for both periods were similar except for the average number of vehicles in the spring compared to the summer. The average number of vehicles on Saturdays was 103 and 122 for spring and summer, respectively and for non-Saturdays, 74 during the spring and 105 during the summer. The summer, like spring, showed a high percentage of mainland/international visitors compared to local visitors. About 20% of the vehicles had at least one person from the Big Island, 54 % had at least one person from the mainland, 34% with at least one international passenger.

More than 40% of the vehicles were four wheel drives. Over 60% of the vehicles for both periods were rentals and the average occupancy was about 3.5 people per vehicle. About 70% came to star gaze, about 60% came to view the sunset and about 5% came for cultural reasons.

**H. Resource Library**

Our part-time resource librarians are nearing completion of preparing and entering abstracts and key words into an online searchable database. It is anticipated that it will be ready sometime in February. For public documents such as environmental impact statements and environmental assessments, and for journal articles or thesis for which we received permission from the author, users will be able to download a copy. For documents that have copyrights, there will be a link to the source.

**I. Military Hikes to the Summit**

We received requests for hikes along the access road to the summit by the military personnel training at PTA. Complaints have been received from the public about inappropriate and rowdy behavior of some of the military personnel. As a result, we have ceased granting permission until we develop a memorandum of agreement with PTA regarding logistics and policies for future requests.

**J. Hawaii Island Representatives**

On December 4<sup>th</sup> an overview of the management of Mauna Kea was presented to Hawaii Island Representatives Cindy Evans, Denny Coffman, Faye Hanohano, Nicole Lowen and Richard Onishi. Representatives felt it was informative and now have a better understanding of how astronomy got started on Mauna Kea and what the University is doing to ensure the protection of the resources.

**IV. KAHU KŪ MAUNA COUNCIL (KKMC)**

Chad Kalepa Baybayan reported the Council reviewed Canada-France-Hawaii Telescope's request to install vents on their dome and the Council recommended approval as there is no change to the physical footprint. The Council also reviewed and approved the Office's request to do additional studies on permafrost on Mauna Kea. Kauanoe

Ho‘omanawanui, Burial Sites Specialist with the State Historic Preservation Division (SHPD), also met with the Council and talked about her duties at SHPD. The next meeting of the Council is in early January 2013.

## V. **Committee Reports**

### **Environment Committee**

Fritz Klasner, on behalf of Ron Terry, reported Bishop Museum’s 2010 Alien Arthropod and Wēkiu Bug Survey is available on their website. Quarterly ant surveys were conducted with no findings. Dr. Jessie Eiben put out UV light traps on the summit in September and he did not catch anything that appears to be attracted to the UV light traps. We do not have anything scheduled for the volunteer program in December, but anticipate starting up again in January. The Sierra Club and the Hawaii Island Chamber Commerce are interested in participating. A UH Hilo computer science class has been working to develop a smart phone application for reporting invasive species on the mountain. Hopefully they will be able to present their work to the Environment Committee in January and get some feedback. They will be entering their project in a Microsoft worldwide competition. The next committee meeting is scheduled for Wednesday, December 12, 2012.

## VI. **OLD BUSINESS**

### **Canada-France-Hawaii Telescope (CFHT): Proposal to Install Air Vents in their Dome**

Canada-France-Hawaii Telescope submitted its revised request to install 12 air vents around the circumference of its summit dome. The purpose of the vents is to provide better and constant passage of air across the telescope structure to prevent air inside the dome to cool or warm to a temperature different from the outside temperature. The objective of the installation of the dome vents is to improve the quality of the images delivered by the telescope by eliminating the temperature differential between the inside and outside air temperatures thus maximizing the clear image potential that Mauna Kea is known for.

Tests to determine how long it would take to flush air in an unvented dome showed it took a long time especially when the dome slit was pointed away from the direction of the wind. But with air vents, the dome air is efficiently flushed no matter where the telescope was pointed.

#### Description and Installation of Project

The air vents are 6 feet wide by 19 feet tall. Once installed, the vents will protrude mostly inside the dome and about 4 inches on the outside. The vents will be painted white, the same color as the existing dome. The vents were also designed so that maintenance of the vents will primarily be done from the inside.

The installation will require a crane to lift the vents and men in man baskets to install the vents. It is anticipated that it will take about two days to install a vent using two installation teams. The first vent will require cutting a hole on the first day. On the second day the crew will remove the cut plate and install the vent. Meanwhile the second crew will cut the next hole. This process is expected to take about two weeks.

The vents will be pre-fabricated in Tucson, Arizona and shipped in crates treated against insect infestation. Upon arrival, crates and packing material will be inspected by a biologist approved by OMKM. There the vent crates will be stored on wooden cribbing to prevent direct contact with the ground. Four days prior to transport to the summit the crates will be re-inspected. Because of concerns expressed by the MKMB when this project was first proposed and at the request of Kahu Kū Mauna, only two vent units will be transported to the summit at a time and stored on the east side of CFHT’s summit facility where the crane will be parked or stored inside CFHT if the vents are not immediately installed.

#### Mitigation Measures

All heavy equipment and trash receptacles will be power washed to remove dirt, mud or potential invasive species before delivery to Hale Pohaku. All packing materials will be collected and removed from the summit daily. A 6’ x 4’ x 3’ trash receptacle will be secured to prevent the contents from being blown around the summit. All perishable items, such as food, food and drink containers and wrappers, etc. will be removed at the end of each day. All loose equipment and tools will be removed from the summit or stored inside CFHT at the end of each work day.

#### DLNR Permit/Approval

It is not certain if a permit is required, therefore, if this project is approved CFHT will need to consult with DLNR and apply for a permit if required.

#### CMP Compliance

CFHT reviewed the CMP for compliance. Where applicable, CFHT has addressed the CMP condition for compliance.

### OMKM Recommendation

OMKM recommends the MKMB classify this proposal a minimal impact project based on the following:

1. The proposed request does not increase the size of facility.
2. There are no archaeological sites in the immediate area.
3. No excavation is involved and the activity will take place on previously disturbed land on the CFHT site.
4. The impact to the immediate surroundings and summit region are negligible.
  - The vent units will be pre-fabricated and brought to the summit for installation; containers will be inspected by an approved OMKM biologist or by the Department of Agriculture prior to delivery to the summit.
  - Installation is a short duration – approximately two weeks to complete.
5. Upon completion CFHT will be able achieve better image quality.

If this project is classified minimal impact, OMKM recommends CFHT be allowed to proceed.

### Conditions

OMKM recommends the following conditions:

1. Submit copies of correspondence between the applicant and DLNR.
2. If a DLNR permit is issued submit a copy to OMKM.
3. If a DLNR permit is granted, comply with conditions of the Permit.
4. Notify OMKM in writing when it will begin working on this project.
5. CFHT and/or the contractor shall ensure that loose tools or equipment are not left on the job site at the end of each day.
6. In the event of high wind conditions precautions will be taken to prevent debris from being blown from the job site.
7. The site is to be kept clean and free of debris.
8. All waste material generated will be removed and disposed of properly; all perishable items including food, food wrappers and containers, etc. shall be removed from the site at the end of each day.
9. The crane and other heavy vehicles must be power washed, in particular the wheels and wheel wells prior to driving onto UH's managed lands, in particular, the summit.
  - Submit a copy of the inspection report of the crates/containers and transport vehicle including the date, location and name of inspector to OMKM.
10. Allow OMKM rangers to visit and monitor activities.
11. Notify OMKM in writing when the project is completed.

### Action

It was moved by Ron Terry and seconded by Gregory Mooers to accept OMKM's recommendation to classify this project as Minimal Impact and allow the applicant to proceed with conditions as stated.

### Discussion

Chad Kalepa Baybayan suggested adding another condition to state that the boom and crane be lowered daily.

Lisa Hadway added the Board be given regular updates on the project. Chair Taniguchi replied that could be done as part of the Director's Report.

### Action

Chair Taniguchi called for the motion to classify the project as Minimal Impact and allow CFHT to proceed with conditions as amended. The motion was carried unanimously. It was noted that Christian Veillet recused himself from voting.

## **VII. NEW BUSINESS**

### **Information Only - Invasive Species Management Plan**

Springer Kaye of the Big Island Invasive Species Committee (BIISC), accompanied by Cas Vanderwoude of the Hawai'i Ant Lab, outlined efforts to implement the Comprehensive Management Plan requirement to prepare an invasive species management plan for University managed lands on Mauna Kea. This plan will also comply with Hawaii Administrative Rules pertaining to Conservation District (HAR 13-5). The draft plan includes 6 primary components: Prevention, Early Detection, Rapid Response, Controlling Established Species, Monitoring, and Education and Outreach. Preventing invasive species introductions includes analysis and ranking of pathways to reduce risk, while establishing procedures to intercept new, or movement of existing, invasive species on Mauna Kea. Other plan components emulate typical

invasive species best management practices adopted by BIISC and neighboring land owners. Additional opportunities for public review and comment are planned once this draft invasive species management plan is completed.

Ms. Hadway inquired about any new bio-control activity for Senecio from the Department of Agriculture. Ms. Kaye replied most of the efforts on bio-control for Senecio are not taking place here in Hawaii. They are focused more in South Africa and Australia.

Cory Harden asked how the plan would be funded once it is developed. Ms. Kaye replied the University is committed to funding all the requirements in the Comprehensive Management Plan.

#### **VIII. ELECTION OF OFFICERS**

Chair Taniguchi opened the floor for nominations of Board officers.

Herring Kalua nominated Gregory Mooers as Chair and Patricia Bergin moved to close and cast a unanimous vote. Ron Terry seconded the motion. The motion was carried unanimously.

Lisa Hadway nominated Herring Kalua as 1<sup>st</sup> Vice Chair and Patricia Bergin moved to close and cast a unanimous vote. Christian Veillet seconded the motion. The motion was carried unanimously.

Ron Terry nominated Lisa Hadway as 2<sup>nd</sup> Vice Chair/Secretary and Patricia Bergin moved to close and cast a unanimous vote. Christian Veillet seconded the nomination. The motion was carried unanimously.

The meeting was turned over to the new chair, Gregory Mooers.

#### **IX. ANNOUNCEMENTS**

Cory Harden asked about plans for the United Kingdom Infrared Telescope (UKIRT) and James Clerk Maxwell Telescope (JCMT) after funding lapses in 2013 and 2014 respectively. Do they have funds for decommissioning and restoration of their sites? Director Nagata replied that the Office has not received any official communication from either telescope regarding decommissioning of their telescopes. She believes they are looking for scientific partners and are in the process of studying the cost of decommissioning.

Dwight Vicente stated a lot of important questions were never raised at the contested case hearing, such as jurisdiction, land title and the application of the Northwest Ordinance of 1787 to the Kingdom. He thinks at some point in time these questions will be raised.

This was the last meeting for Barry Taniguchi and Ron Terry as both their terms expire at the end of the year. Both Chair Taniguchi and 2<sup>nd</sup> Vice Chair/Secretary Terry were honored for their years of service on the Board.

This was also the last meeting for Christian Veillet who accepted the directorship for the Large Binocular Telescope in Arizona.

Chair Mooers announced two new members joining the Board effective January 1, 2013 – Hannah Kihalani Springer and Dr. Gregory Chun.

#### **X. NEXT MEETING**

The next meeting date will be Wednesday, February 20, 2013.

Chair Mooers proposed setting a meeting schedule for 2013 (third Wednesdays): May 15, August 21 and either November 27 or December 4. Board members were asked to provide feedback to the Office.

#### **XI. ADJOURNMENT**

There being no further business Chair Mooers adjourned the meeting at 11:15 a.m.

Respectfully submitted:

Signed by Lisa Hadway  
Lisa Hadway, Secretary, MKMB

February 20, 2013  
Date