Space Allocation Requests

The Master Planning and Space Allocation Committee (MaPSAC) makes recommendations to the Chancellor regarding semi-permanent and permanent uses of enclosed and open spaces on campus, including existing buildings, renovations to existing structures, proposed new structures, and the use of open acreage. The objective of the committee is to enhance the functionality, accessibility, and the beauty of the Windward CC campus structures and spaces in the interest of creating a more effective learning environment for our students.

The requestor is encouraged to include attachments such as pictures and plans. Note that basic building plans in PDF and JPG are available on the Buildings and Facilities on Campus page. The requester is also encouraged to provide evidence of support from the college. Any request being made by an external (non-WCC) agency must enlist a Windward CC contact person who will act as the agency’s liaison, and follow the same procedures as those required for internal requests.

Procedure

1) The requester contacts the Chair with the initial draft of the request, which should include all appropriate items listed in the Required Information for All Requests.
2) The Chair forwards the request to the committee for initial discussion.
3) The committee decides if the decision should be made by the Vice Chancellor of Administrative Services, by the committee, or be referred to another group on campus.
4) For committee-made decisions,
   1. The Chair will ask the requester to post the initial draft of the request on the New Initiatives discussion board for college input.
   2. After a minimum of two weeks from the date of posting, the requester will submit a final request electronically to the Chair.
   3. The committee’s review of the final request will include a presentation by the requester and any other interested parties.
   4. The committee's recommendation will be recorded in the committee notes and forwarded to the Chancellor, requester and any other appropriate people on campus.

Title of Space Request: Nutraceutical Production, Training and Sales Facility (Kahi Ho’ola)

Request Status: Dates to be updated by the Chair of the MaPSAC.

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<tr>
<td>Received by Chair of the MaPSAC</td>
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<td>Sent to MaPSAC for Initial Decision on Disposition</td>
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<td>Final (modified) Version of Request Received by Chair</td>
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<td>Decision:</td>
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Required Information for All Requests

1) Name of the individual or group that is requesting the space
   Ingelia White, Professor of Botany & Microbiology, Coordinator of Agripharmatech Program

2) Contact Person’s name, email, and telephone number
   Ardis Eschenberg, ardise@hawaii.edu, 235 – 7443
   Charles Sasaki, sasakich@hawaii.edu, 235 – 7416
   Brian Pactol, pactol@hawaii.edu, 235 - 7403
   Andy Li, zhili@hawaii.edu, 235 – 7369
   Mike Moser, tmoser@hawaii.edu, 235 - 7361

3) Type of space that is needed
   A semi-permanent building 80’ long by 60’ wide (four used, refurbished steel containers @ 8’ x 40’)
   containing:
   - An enclosed Biosafety and Chemical safety approved pharmacognostical laboratory
   - An enclosed Department of Health approved nutraceutical kitchenette
   - An open space for nutraceutical plant-based product manufacturing and classroom
   - A sales and show room
   - Two offices for pharmacognosy faculty and student interns
   - A shower room
   - A ladies’ room
   - A men’s room

   An Outdoor space (car stall) for loading/unloading heavy equipment and supplies. An L-shaped 7’-high concrete wall (or rock wall) to secure the facility from the forested area. One end side of the rockwall will meet the existing chain-link fence of the Bioprocessing Medicinal Garden Complex (BMGC), and the other end of the rockwall will meet with the chain-link fence of the “Go Farm” Agriculture facility to complete the enclosure of the entire area of the facility.

5) How the space is currently being used
   It is a dense forest of weedy introduced trees occupied by the homeless (please see the attached aerial photo of the proposed building, a rough draft floor plan of the proposed facility/area and digitized images of the building).

6) Desired start date (and end date, if applicable)
   - Land clearing (Spring 2017 – Summer 2017)
   - Concrete wall (Summer – Fall 2017)
   - Main building (Fall 2017 – Spring 2018)
   - Outdoor asphalt pavement for loading/unloading area, a handicapped concrete walkway, and a concrete walkthrough the BMGC for students to harvest medicinal plants for processing/manufacturing (Fall 2017)
   - A double gate and a small gate installation (Fall 2017)

7) Description of how the space will be used
   The proposed Nutraceutical Production and Training Facility will be fully equipped with technologically advanced pharmacognostical and food pharmaceutical lab equipment. This facility will be able to accommodate the growing numbers of Agripharmatech students performing advanced pharmacognostical research and manufacturing nutraceutical plant-based products and food pharmacy on a daily basis. The hands-on laboratory research, training, production and sales will prepare students for immediate transfer to higher degree institutions majoring in advanced plant sciences, biotechnology and other health related sciences, enabling them to perform undergraduate scientific research projects, and/or to enter high-paying specialized
workforce, and/or to become successful agribusiness bioprocessing entrepreneurs.

8) Description of how it may contribute to the learning environment and interests of WCC students
The Certificate of Achievement (CA) in Agripharmatech with two specializations: Ethnopharmacognosy (CA A-EP), and Plant Biotechnology (CA A-PB), was approved by the Board of Regents (BoR) and commenced in Fall 2012. The BoR granted Permanent Status for the CA Agripharmatech in Fall 2014. The number of CAs awarded in both specializations increased dramatically from 9 to 11 to 22 certificates in 2013, 2014 and 2015 respectively.

32% of CA graduates are Native Hawaiians, 36% are Caucasians and 32% are mixed Asians. 83% of CA graduates transferred to 4-year degree institutions majoring in Tropical Plant and Soil Sciences, Molecular Biosciences and Bioengineering, Botany, Natural Resources and Environmental Management, Pharmacy, and Medicine. 50% of graduates entered the workforce in plant science related fields. 10% of graduates became agribusiness and/or nutraceutical plant-based product entrepreneurs.

Students presented their pharmacognostical research at national and international scientific conferences. Their research abstracts were published in conference proceedings. Results of their pharmacognostical research, nutraceutical products and food pharmacy were published in the WCC Ethnopharmacognosy Series publications (please see the attached letter of support from Agripharmatech students, e-mails from Vice Chancellor for Academic Services, Ardis Eschenberg, Vice Chancellor for Administrative Services, Kevin Ishida and Facilities Manager, Andy Li, and the 2014 – 2015 PBC request for Pharmacognosy Training and Production Facility).

9) Other alternatives that were considered and why those alternatives don't seem to work
The existing Bioprocessing Facility in the BMGC (used for BOT 205 - Ethnobotanical Pharmacognosy lab practicum and nutraceutical plant-based manufacturing) is a 17-year old metal storage container that is severely rusting and leaking (see the attached photos). This facility is too small to accommodate the growing number of Agripharmatech students, and difficult to facilitate rigorous and laborious laboratory activities, training, and bioproduct manufacturing.

10) What other resources may be needed
Federal grants including USDA, and Perkins will be used to purchase new equipment. UH Foundation and private donations are being sought. Partnerships are built with the UHM Department of Molecular Biosciences and BioEngineering, UHM CTAHR programs, UHM Botany Department, and research/industry partners to collaborate in pharmacognostical research and training activities. Currently, WCC’s Office of Career and Community Education (CCE) non-credit “Hiilaniwai - Kitchen Skills/Kitchen Incubator Program” is partnering with the Agripharmatech program. The CCE Hiilaniwai program will create a pathway for the CCE non-credit students to transition to a credit program through a Certificate of Competence in Plant-Food Production and Technology, which eventually would lead students to enter the CA Agripharmatech program (http://windward.hawaii.edu/Discussions/2014/MaPSAC_CCE_Kitchen/MaPSAC_Request_CCE_Kitchen_Skills_Incubator.pdf).

11) How the proposal supports or is supported by the Master Plan, the Mission of the College, and the UHCC Strategic Plan
Through the Nutraceutical Production and Training Facility, the Agripharmatech program will produce highly-skilled workers, create job opportunities, contributing to the wealth of the State’s economy. This project aligned with UHCC Strategic Plans and WCC’s 2015 - 2020 Action Outcomes 4.1., 4.5., 4.6., and 4.8. in producing graduates entering high-paying jobs and becoming agribusiness entrepreneurs creating jobs for themselves and others; promote knowledge, skills and opportunities that support current and emerging STEM fields; increase the number of student transfers to the UH baccalaureate programs, and increase the number of STEM certificates.