

OXFORD TRACT PLANNING COMMITTEE KICK-OFF MEETING SUMMARY

May 11, 2017; 9:00 a.m.-1:10 p.m.

Attendees:

Committee Members:

- Keith Gilless, Dean, College of Natural Resources (Co-chair)
- Tsu-Jae King Liu, Vice Provost, Academic and Space Planning (Co-chair)
- Rodrigo Almeida, Professor, Environmental Science, Policy, and Management
- Ben Blackman, Professor, Plant and Microbial Biology
- Tyler Helmann, Graduate Student, Plant and Microbial Biology
- Tyler Jacobson, Undergraduate Student, Environmental Economics and Policy
- Peggy Lemaux, Cooperative Extension Specialist, Plant and Microbial Biology
- Steve Lindow, Professor, Plant and Microbial Biology
- Emily Marthinsen, Assistant Vice Chancellor, Physical & Environmental Planning and Campus Architect
- Nicholas Mills, Professor, Environmental Science, Policy, and Management
- Jennifer Sowerwine, Assistant Cooperative Extension Specialist, Environmental Science, Policy, and Management
- Grace Treffinger, Undergraduate Student, Environmental Science, Policy, and Management (Alternate for Tyler Jacobson)

Staff:

- Christina Wistrom, Greenhouse Manager, College of Natural Resources
- Barbara Lane, Assistant Dean, College of Natural Resources
- Abram Hardin, Principal Space Planner, Academic and Space Planning

Absent:

- Gordon Frankie, Professor, Environmental Science, Policy, and Management
- Sarah Hake, Adjunct Professor, Plant and Microbial Biology

Agenda Item	Summary Notes	Actions to be Taken
<p>1. Tour of Oxford Tract</p>	<ul style="list-style-type: none"> • Tina Wistrom led a tour of the GPB (North) greenhouse and building, research field, Student Organic Garden (SOG), Insectary greenhouse and building, Natural Resources Laboratory, RES (South) building. <ul style="list-style-type: none"> ○ The Oxford Tract is used by ~50 principal investigators each year (see Figure 1). ○ 6.5 full time equivalent (FTE) staff support basic operations both at the Oxford Tract and Gill Tract. ○ Graduate/postdoc students work at the Oxford Tract daily. ○ The research field has limited access, requires security. ○ The SOG produces 800 lbs of produce in a year, 500 lbs of which is donated to the UC Berkeley Food Pantry; it also supports a DeCal course (160 students enrolled in SP2017). ○ Seven environmentally controlled growth chambers (5 shared; 2 for Ben Blackman) are located in lower level of RES (South) bldg. ○ An onsite cooling tower and power substation provide cooling and electricity needs, and are connected to campus steam, industrial water, and sanitary sewer systems. ○ The NRL includes an insect quarantine facility. ○ The Urban Bee Garden is used for Gordon Frankie’s research. 	<ul style="list-style-type: none"> • Tina to provide information on the size (area) of the Student Organic Garden <ul style="list-style-type: none"> ○ 5/12 Update from Tina: SOG is ~90’ x 90’, 8100 sf.
<p>2. Visits to prospective alternative sites</p>	<ul style="list-style-type: none"> • At the Gill Tract (14 minutes by shuttle from the Oxford Tract), Tina Wistrom led a tour of the research field and support space; the committee also visited the Community Farm. <ul style="list-style-type: none"> ○ Fencing is necessary to keep deer out of the research field. ○ Dean Gilless noted the origins of the farm; Jenny Sowerwine noted its community-engaged research and governance, annual production of 15,000 lbs of produce that is given away, and a successful DeCal course on urban agriculture and food justice. • At the Strawberry Canyon site, Abram Hardin led a tour of the Strawberry Canyon Center building and the land behind it, which is presently used by Facilities Services. <ul style="list-style-type: none"> ○ Across Centennial Drive (east of the Haas Clubhouse) there is a level grassy area that is used for summer camps. • At the Smyth-Fernwald site, Emily Marthinsen gave an overview of the recent history & challenges/constraints for building on this site. • The committee viewed People’s Park on the shuttle ride back to the 	<ul style="list-style-type: none"> • Peggy Lemaux inquired about the “Gateway” site bounded by Oxford St. (on the east), Berkeley Way (on the north), Walnut St. (on the west), University Ave. (on the south). <ul style="list-style-type: none"> ○ Tsu-Jae consulted Emily Marthinsen who indicated that this site has capacity for tall bldgs (6+ stories), suggesting a more intensive (urban) use than greenhouses. IEVCP Carol Christ affirmed this to Tsu-Jae on 5/23. Students have targeted the site for

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	main campus.	housing.
<p>3. Discussion of the process and schedule for completion of the committee's report by August 15, 2017</p>	<ul style="list-style-type: none"> Process steps toward the goal of completing a report by August 15: <ol style="list-style-type: none"> Develop criteria and perform high-level assessments of potential alternate sites Draft strawman proposals for relocation of programs/activities Solicit feedback/input via public forums (to be webcast to facilitate broad participation) Refine proposals for relocation of programs/activities Develop cost estimates for each viable option Write the report Recap of programs/activities currently at Oxford Tract: <ul style="list-style-type: none"> Greenhouses (BSL2) + labs + storage Greenhouses + lath houses + labs + storage Insectaries + labs + quarantine facility Labs not related to greenhouses, including controlled environment Research field Urban Bee Garden Student Organic Garden <u>Subcommittee for Indoor programs/activities:</u> <ul style="list-style-type: none"> Nick Mills, Rodrigo Almeida, Ben Blackman, Peggy Lemaux, Tyler Helmann, Steve Lindow <u>Subcommittee for Outdoor programs/activities:</u> <ul style="list-style-type: none"> Ben Blackman, Tyler Jacobson, Grace Treffinger, Sarah Hake, Gordon Frankie, Steve Lindow, Jenny Sowerwine Next committee meeting to be held within the next 2 weeks 	<ul style="list-style-type: none"> Subcommittee members to individually draft a list of criteria and high-level assessments of the candidate alternate sites, and send these to Keith Gillless ideally by Monday 5/15. Keith Gillless to collate inputs from the subcommittee members before the next committee meeting. Abram Hardin and Emily Marthinsen to provide high-level information (e.g. rough size estimates) for the prospective alternative sites. <ul style="list-style-type: none"> Emily provided area information for Oxford Tract, Smyth-Fernwald, and People's Park on 5/15. Abram provided measurements on the other sites on 5/17. Tsu-Jae Liu to send out Doodle poll information. <ul style="list-style-type: none"> Next mtg is scheduled for 8:30-9:30AM on 5/25

Figure 1: Number of Oxford Facilities users (PIs) in the past five fiscal years.

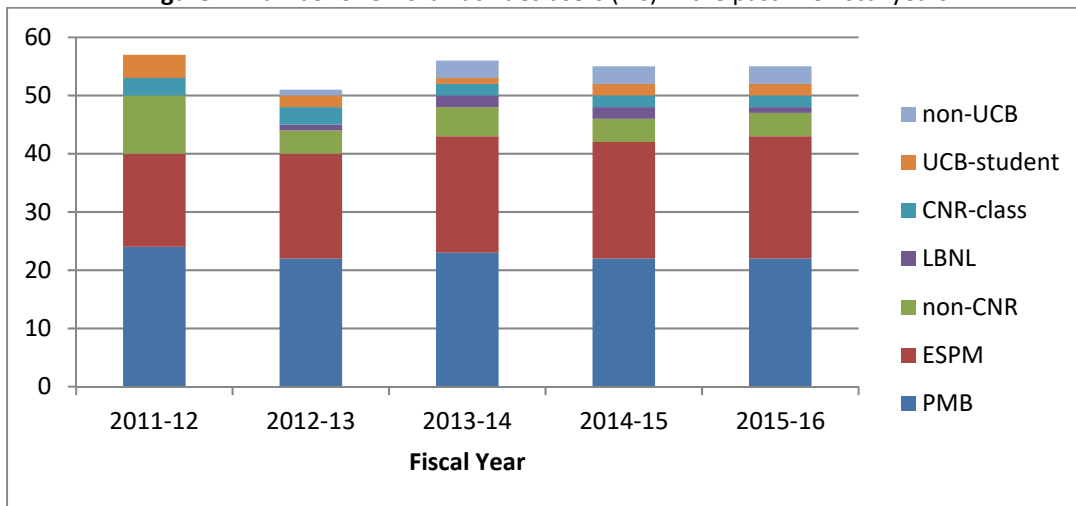


Figure 1 shows the number of PIs recharged, not the number of projects. Each PI is only counted once.

- CNR-class indicates instructional recharges to departments (ESPM, PMB, Ecosystem Sciences). It is not broken down by individual class.
- UCB-student indicates individuals or groups, involved in non-class, student-led, research projects, funded through departments or PIs, that had greenhouse recharges. The two student groups were SOGA and Engineers for a Sustainable World. Classes were ESPM 117/118, PMB Teaching lab (Irania Alarcon), PMB 24 (Renee Sung).

OXFORD TRACT PLANNING COMMITTEE MEETING SUMMARY

May 25, 2017; 8:30 a.m.-9:30 a.m.; Chancellor's Conference Room, California Hall

<p>Attendees:</p> <ul style="list-style-type: none"> Committee Members: <ul style="list-style-type: none"> Keith Gillless, Dean, College of Natural Resources (Co-chair) Tsu-Jae King Liu, Vice Provost, Academic and Space Planning (Co-chair) Rodrigo Almeida, Professor, Environmental Science, Policy, and Management Ben Blackman, Professor, Plant and Microbial Biology Tyler Helmann, Graduate Student, Plant and Microbial Biology Peggy Lemaux, Cooperative Extension Specialist, Plant and Microbial Biology Steve Lindow, Professor, Plant and Microbial Biology Nicholas Mills, Professor, Environmental Science, Policy, and Management Grace Treffinger, Undergraduate Student, Environmental Science, Policy, and Management (Alternate for Tyler Jacobson) Gordon Frankie, Professor, Environmental Science, Policy, and Management Sarah Hake, Adjunct Professor, Plant and Microbial Biology <p>Absent:</p> <ul style="list-style-type: none"> Tyler Jacobson, Undergraduate Student, Environmental Economics and Policy Emily Marthinsen, Assistant Vice Chancellor, Physical & Environmental Planning and Campus Architect Jennifer Sowerwine, Assistant Cooperative Extension Specialist, Environmental Science, Policy, and Management Christina Wistrom, Greenhouse Manager, College of Natural Resources Barbara Lane, Assistant Dean, College of Natural Resources Abram Hardin, Principal Space Planner, Academic and Space Planning 		
Agenda Item	Summary Notes	Actions to be completed before the next committee meeting
<p>1. Review of 5/11 meeting summary notes</p>	<ul style="list-style-type: none"> Tsu-Jae explained why the "Gateway site" is not included in the list of alternate sites (see summary notes for 5/11 meeting) It was noted that Figure 1 (provided by Tina) doesn't provide important information on the number of users; footnotes should be added. Committee members inquired into the possibility of the rugby field + softball field + swimming pool area as a prospective alternate site. 	<ul style="list-style-type: none"> Peggy to ask Tina for clarification of Figure 1. Keith to add information on number of users. Tyler H. to suggest statement to include in footnote. Tsu-Jae to finalize summary notes to be posted online. Tsu-Jae will inquire about the rugby field + softball field.
<p>2. Discussion of inputs received</p>	<ul style="list-style-type: none"> Keith passed out hardcopies of comments received thus far regarding criteria and site assessments, along with a summary of key/recurring points. The committee developed the following list of site criteria: <ul style="list-style-type: none"> Proximity to campus Sunlight Topography Soil quality Security Personal safety Capacity & considered the importance of each criterion for each major activity: <ul style="list-style-type: none"> Research field (lead: Sarah) Instructional field (lead: Gordon) Greenhouses + lath houses + labs + storage (lead: Rodrigo) Insectary + labs + quarantine facility (Nick) Natural Resources Lab (Nick) Urban Bee Garden & Student Organic Garden (Gordon & Grace) 	<ul style="list-style-type: none"> Each lead will collect inputs as appropriate to rate the importance of each criterion for their respective major activity, and provide brief justification for each rating. Keith and Tsu-Jae will rate each prospective alternate site with regard to each criterion: <ul style="list-style-type: none"> Gill Tract Strawberry Canyon Smyth-Fernwald People's Park

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	<ul style="list-style-type: none"> • Gordon mentioned a huge native bee collection and provided the following details on July 3, 2017: <ul style="list-style-type: none"> ○ This collection started in 1999 and continues to grow. (Bee species number about 500 of the 1600 known from CA.) It is unique in that host flower records are included. ○ It located in Room 150, housed in 9 large California Academy cabinets which are designed for holding 24 drawers of insects; each drawer can hold several 100 specimens. Special microscopes (used for identification) are located separately in Room 151. • The campus museum committee is working to identify more space for insect collections on campus, so that this collection can be added to the Essig Museum of Entomology Insect Collection in VLSB. (This is a commitment made in research grant proposals.) 	<ul style="list-style-type: none"> ○
<p>3. Planning for next steps</p>	<ul style="list-style-type: none"> • At the next meeting, the committee will complete high-level assessments of potential alternate sites and begin to draft strawman proposals for relocation of programs/activities. 	<ul style="list-style-type: none"> • Tsu-Jae to send out Doodle poll information, to schedule meetings in June.

OXFORD TRACT PLANNING COMMITTEE MEETING SUMMARY

June 23, 2017; 8:30 a.m.-9:45 a.m.; Chancellor’s Conference Room, California Hall

<p>Attendees:</p> <ul style="list-style-type: none"> Committee Members: Keith Gillless, Dean, College of Natural Resources (Co-chair) Tsu-Jae King Liu, Vice Provost, Academic and Space Planning (Co-chair) Rodrigo Almeida, Professor, Environmental Science, Policy, and Management Tyler Helmann, Graduate Student, Plant and Microbial Biology Tyler Jacobson, Undergraduate Student, Environmental Economics and Policy Peggy Lemaux, Cooperative Extension Specialist, Plant and Microbial Biology Steve Lindow, Professor, Plant and Microbial Biology Emily Marthinsen, Assistant Vice Chancellor, Physical & Environmental Planning and Campus Architect Nicholas Mills, Professor, Environmental Science, Policy, and Management Jennifer Sowerwine, Assistant Cooperative Extension Specialist, Environmental Science, Policy, and Management Grace Treffinger, Undergraduate Student, Environmental Science, Policy, and Management (Alternate for Tyler Jacobson) Sarah Hake, Adjunct Professor, Plant and Microbial Biology Staff: Christina Wistrom, Greenhouse Manager, College of Natural Resources Barbara Lane, Assistant Dean, College of Natural Resources Abram Hardin, Principal Space Planner, Academic and Space Planning Kira Stoll, Principal Planner, Long Range Planning & Sustainability <p>Absent:</p> <ul style="list-style-type: none"> Ben Blackman, Professor, Plant and Microbial Biology Gordon Frankie, Professor, Environmental Science, Policy, and Management 		
Agenda Item	Summary Notes	Actions to be completed before the next committee meeting
<p>1. Review of revised 5/11 meeting summary notes and 5/25 meeting summary notes</p>	<ul style="list-style-type: none"> Some committee members need more time to review the draft meeting summary notes before they are posted online. Emily Marthinsen explained why the rugby field + softball field + swimming pool area is not a prospective alternate site: the legal settlement related to the California Memorial Stadium renovation project included an agreement that does not allow for significant changes in usage of this university-owned land. 	<ul style="list-style-type: none"> Tsu-Jae to revise notes to clearly indicate Attendees. Committee members to review meeting summary notes by 6/26; Keith to arrange for notes to be posted online afterwards.
<p>2. Discussion of activity criteria and identification of viable sites</p>	<p>The following rubric was used to ensure that ratings are consistent across the different activities:</p> <p><u>Not relevant:</u> This criterion is not among those which should be considered in assessing the suitability of a prospective alternate site.</p> <p><u>Desirable:</u> Meeting this criterion would facilitate growth in research and/or education, for example enable new/enhanced research funding and/or greater student enrollment/participation.</p> <p><u>Important:</u> If this criterion is not met, then the productivity or quality of research would be substantially reduced, and/or student enrollment/participation would be substantially reduced.</p> <p><u>Critical:</u> If this criterion is not met, then it will be practically impossible to conduct the research or education activity.</p> <ul style="list-style-type: none"> Student Organic Garden: Grace sent a survey to students inside and outside of ESPM, including SOGA; 58 responses were received (see https://www.surveymonkey.com/results/SM-9JH872NP/). Proximity (including accessibility via public transit) and sunlight are critical. Community engagement is important. Nick noted that a location on the core campus would be attractive. Emily noted that campus landscape architects do not believe that SOG fits well within the campus landscape environment; also there would be less autonomy and higher operating cost. Support is presently provided by CNR (e.g. GSIs for classes) and funding from the UCOP Global Food Initiative. <i>Smyth-Fernwald seems to be a possible viable site.</i> 	<ul style="list-style-type: none"> Emily to discuss with campus Design Review Committee the possibility of siting the student organic garden on campus.

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	<ul style="list-style-type: none"> • Research field: Sarah surveyed PMB faculty; 8 responses were received. Sunlight, topography, security, and safety are critical; accessibility (dedicated transport) is also critical if site is not proximate to the core campus. <i>Gill Tract is viable alternate site.</i> • Instructional field: This was not discussed in detail due to Gordon’s absence; however, there was agreement that proximity is critical. <i>Smyth-Fernwald seems to be a possible viable site.</i> • Greenhouses: Proximity is critical because researchers visit the greenhouses multiple times each day, and need to transfer materials to/from labs on campus. (There are strict APHIS rules for transporting transgenic seeds and plants; the further the greenhouses are from the labs, the more difficult it is to transport these. It would be impossible on a bike and difficult on a bus without special accommodations. Most students don’t have a car.) Steve noted that 50 people/day visit the greenhouses. Sunlight, security, and safety are important. Larger capacity is very desirable (as there is a research trend towards larger plants). <i>Strawberry Canyon Center may be a viable alternate site</i> (but additional lab facilities likely would need to be included, or perhaps only a subset of greenhouses could be sited there). Smyth-Fernwald also should be considered. • Insectary+Quarantine Facility+Natural Resources Lab: Proximity is critical in order for the faculty to fulfill their teaching, research, and service duties. In the past these activities were located at the Gill Tract, which did not work. Some of these could be accommodated when Hilgard is renovated. Some also could be accommodated on the top (penthouse) floor of Morgan Hall if it were to be renovated. • Bee Garden: Gordon does not need this research space any longer; it does not need to be relocated to an alternate site. • The committee noted that if activities were to be split across multiple sites then there would be higher HR costs. 	<ul style="list-style-type: none"> • Emily to arrange for a technical assessment of the Strawberry Canyon Center site to estimate its capacity. (This work has to consider complex (and steep) slope, near-fault constraints, circulation, accessibility and other conditions, and should be done by a consultant.) • Abram to find out the square footage available in the penthouse level of Morgan Hall. • Keith (as Dean of CNR) will follow up with Gordon to discuss this space assignment matter.
<p>3. Planning for next steps</p>	<ul style="list-style-type: none"> • There was insufficient time to discuss in detail the next steps (how to proceed to draft proposals for alternative sites). 	<ul style="list-style-type: none"> • Keith and Tsu-Jae to meet to map out next steps. • 6/28 update: <ul style="list-style-type: none"> ○ Need to consult students more broadly, and community members involved with SOGA → Keith to consult student gardens coordinator, and Tsu-Jae to consult Ruben Lizardo (Director, Local Government and Community Relations) about a public meeting. <ul style="list-style-type: none"> ▪ 7/6 update: Ruben will follow up with Emily and Chris Treadway (Assistant Chancellor, Government and Community Relations). ▪ 7/11 update: Ruben recommends discussion of relocation of SOG as part of a larger community input session on student housing ○ For security reasons, the Smyth-Fernwald site may be best for both the research and instructional growing fields. →

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		<p>Keith to consult an expert about converting a grassy field to a growing field.</p> <ul style="list-style-type: none">○ Further input needed from Ben Blackman regarding requirements for greenhouses+ → Keith and Tsu-Jae to meet with Ben and Rodrigo (after July 5th).○ Further information needed from Nick re: footprint required for quarantine-suitable lab → Keith to arrange meeting with Nick.
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OXFORD TRACT PLANNING COMMITTEE MEETING SUMMARY

July 31, 2017; 4:00 p.m.-5:00 p.m.; Chancellor’s Conference Room, California Hall

<p>Attendees:</p> <ul style="list-style-type: none"> Committee Members: Keith Gillless, Dean, College of Natural Resources (Co-chair) Tsu-Jae King Liu, Vice Provost, Academic and Space Planning (Co-chair) Ben Blackman, Professor, Plant and Microbial Biology Gordon Frankie, Professor, Environmental Science, Policy, and Management Tyler Helmann, Graduate Student, Plant and Microbial Biology Tyler Jacobson, Undergraduate Student, Environmental Economics and Policy Peggy Lemaux, Cooperative Extension Specialist, Plant and Microbial Biology Steve Lindow, Professor, Plant and Microbial Biology Nicholas Mills, Professor, Environmental Science, Policy, and Management Grace Treffinger, Undergraduate Student, Environmental Science, Policy, and Management (Alternate for Tyler Jacobson) Sarah Hake, Adjunct Professor, Plant and Microbial Biology Staff: Christina Wistrom, Greenhouse Manager, College of Natural Resources Barbara Lane, Assistant Dean, College of Natural Resources <p>Absent:</p> <p>Rodrigo Almeida, Professor, Environmental Science, Policy, and Management Emily Marthinsen, Assistant Vice Chancellor, Physical & Environmental Planning and Campus Architect Jennifer Sowerwine, Assistant Cooperative Extension Specialist, Environmental Science, Policy, and Management Abram Hardin, Principal Space Planner, Academic and Space Planning</p>		
Agenda Item	Summary Notes	Actions to be completed before the next committee meeting
<p>1. Updates on action items from 6/23 meeting</p>	<ul style="list-style-type: none"> Strawberry Canyon Center site capacity assessment: Tsu-Jae noted that this task is on hold because this site ultimately may not be included among those to be considered further. Space requirement for quarantine-suitable lab: <ul style="list-style-type: none"> Nick noted that the current quarantine lab is approximately 1400 square feet (sf), and that it should not be separated from the insectary facilities which include: incubator (430 sf); diet preparation room (150 asf); insectary (3500 sf); two cold boxes (100 sf each); insectary greenhouse (4400 sf). Tsu-Jae reported that the Morgan Hall penthouse presently has 1743 assignable square feet (3266 gross square feet). Given Nick’s note above, it seems insufficient for the quarantine lab. Conversion of available land (grassy fields) at the Smyth-Fernwald site and at the Gill Tract (Albany) site for growing field(s): Keith sent inquiries to experts (including at UC Davis) and is awaiting a response. Greenhouses: <ul style="list-style-type: none"> Ben, Keith & Tsu-Jae recently toured the UC Berkeley Botanical Garden. The Jane Gray Greenhouse located across Centennial Drive (https://ib.berkeley.edu/research/facilities/greenhouse/index.php) is modern and underutilized; the other greenhouses (located on a ~1.5 acre level site within the Bot Garden) are dated; Director Eric Siegel is open to allocating space in renovated/new greenhouses to faculty for research; his staff could help to support activities there. (Lab space would be needed as well, to minimize plant transport requirements.) There is also a separate level site (~1 acre) further up the hill that could be secured for transgenic plant research. Since greenhouse research activities must be located close to faculty research labs on campus (an informal poll of greenhouse managers at other universities shows that greenhouses generally are attached or adjacent – within a 5-minute walk – to research buildings on the main campus), the committee discussed the possibility of consolidating these activities into a smaller footprint on the Oxford Tract (rather than relocate them entirely). 	<ul style="list-style-type: none"> Keith to consult Prof. Tim Bowles re: instructional field requirements Tina to investigate greenhouse designs for smaller footprint.

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July 31, 2017; 4:00 p.m.-5:00 p.m.; Chancellor’s Conference Room, California Hall

	<ul style="list-style-type: none"> • <u>Student Organic Garden</u>: A meeting with representatives of each of the student garden groups should be held, so that we can understand their collective needs and identify options for the campus to accommodate all of them. • <u>Public Forum</u>: Ruben Lizardo (Director, Local Government and Community Relations) recommended that public discussion of the relocation of the Oxford Tract activities and facilities to be part of a larger community input session on student housing. Tsu-Jae informed the committee members that there is a new Berkeley Housing Master Plan Advisory Group that has been established for the 2017-2018 academic year. 	<ul style="list-style-type: none"> • Tsu-Jae/Emily to follow up with Campus Gardens Coordinator (Meg Prier) to arrange a meeting with the student garden groups
<p>2. Planning for the committee report</p>	<ul style="list-style-type: none"> • Given the (nominal) due date of August 15, the committee can aim to complete a report comprising the following elements: <ul style="list-style-type: none"> ○ Introduction (including recapitulation of assets at the Oxford Tract) ○ Instructional and research linkages between the activities presently located at the Oxford Tract and the academic programs within the Departments of Plant and Microbial Biology (PMB) and Environmental Science, Policy, and Management (ESPM). ○ Student gardens at UC Berkeley (role and activities) ○ Research and instructional growing fields ○ Options analyses needed in order to determine viable options for reducing the footprint and/or relocating the activities presently located at the Oxford Tract. 	<p>At least a detailed outline will be drafted for the report by 8/7:</p> <ul style="list-style-type: none"> • <u>Introduction</u>: Keith, Tsu-Jae • <u>Linkages</u>: Nick, Ben, Peggy, Rodrigo, Tyler H. <ul style="list-style-type: none"> ○ Tsu-Jae to solicit inputs from Eric Siegel • <u>Gardens</u>: Gordon, Grace, Tyler J. • <u>Fields</u>: Sarah, Jennifer, Keith (Options analyses will be discussed during meeting on 8/7)

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August 7, 2017; 1:45 p.m.-2:50 p.m.; Chancellor’s Conference Room, California Hall

<p>Attendees:</p> <ul style="list-style-type: none"> Committee Members: Keith Gillless, Dean, College of Natural Resources (Co-chair) Tsu-Jae King Liu, Vice Provost, Academic and Space Planning (Co-chair) Rodrigo Almeida, Professor, Environmental Science, Policy, and Management Ben Blackman, Professor, Plant and Microbial Biology Gordon Frankie, Professor, Environmental Science, Policy, and Management Tyler Helmann, Graduate Student, Plant and Microbial Biology Tyler Jacobson, Undergraduate Student, Environmental Economics and Policy Peggy Lemaux, Cooperative Extension Specialist, Plant and Microbial Biology Emily Marthinsen, Assistant Vice Chancellor, Physical & Environmental Planning and Campus Architect Jennifer Sowerwine, Assistant Cooperative Extension Specialist, Environmental Science, Policy, and Management (via telephone) Grace Treffinger, Undergraduate Student, Environmental Science, Policy, and Management (Alternate for Tyler Jacobson) Sarah Hake, Adjunct Professor, Plant and Microbial Biology Staff: Christina Wistrom, Greenhouse Manager, College of Natural Resources Barbara Lane, Assistant Dean, College of Natural Resources Abram Hardin, Principal Space Planner, Academic and Space Planning Kira Stoll, Principal Planner, Long Range Planning & Sustainability <p>Absent:</p> <ul style="list-style-type: none"> Steve Lindow, Professor, Plant and Microbial Biology Nicholas Mills, Professor, Environmental Science, Policy, and Management 		
Agenda Item	Summary Notes	Actions to be completed before the next committee meeting
<p>1. Updates on action items from 7/31 meeting</p>	<ul style="list-style-type: none"> Tsu-Jae noted that Meg Prier (Campus Gardens Coordinator) arranged for a tour of all of the student gardens, to begin at the Student Organic Garden at 8:30 a.m. on Wednesday 8/9 Keith provided an update on instructional field requirements: Tim Bowles envisions a field component (but no greenhouse needs) for the agriculture curriculum, involving year-to-year measurements; the main criterion is accessibility to students. Tina has provided the following contacts for greenhouse design: <ul style="list-style-type: none"> <u>Greenhouse engineers:</u> Alex Turkewitsch, <i>Greenhouse Engineering</i> Gregg Short, <i>GShort.com LLC</i> <u>Greenhouse design/operations consultant:</u> Sylvia Courtney, <i>Consolidated Greenhouse Solutions</i> <u>Greenhouse manufacturers:</u> <i>Rough Brothers, Inc. (Insectary Greenhouse)</i> Amy Bentz, <i>Nexus Greenhouse</i> 	<ul style="list-style-type: none"> Tsu-Jae to relay information from Meg to all of the committee members.
<p>2. Discussion of drafts write-ups for the committee report</p>	<ul style="list-style-type: none"> Grace presented a detailed draft report on the Student Organic Garden located at the Oxford Tract, highlighting key points in each section: <ul style="list-style-type: none"> Background: includes history of the SOG Mission Statement: “...provide a space for experiential learning related to agriculture and ecology...promote sustainable food systems and food justice...engage in community building through collaboration.” Reach: ~2000 UC Berkeley students and community members, through multiple courses – supporting a minor degree program – and workshops, outreach programs, etc.; a question was raised about the specific breakdown (UC Berkeley students vs. others) - it is safe to say the garden is used mostly by UC Berkeley students. Funding: multiple sources, to pay for staffing including interns Sustainability: includes on-site composting, water conservation, local food production Important Considerations: include the UC Global Food Initiative, UC Berkeley Food Pantry 	<ul style="list-style-type: none"> Tsu-Jae to upload all draft write-ups to the committee’s shared Box folder

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August 7, 2017; 1:45 p.m.-2:50 p.m.; Chancellor’s Conference Room, California Hall

	<ul style="list-style-type: none"> ○ Demands: Accessibility for students is a critical requirement; proximity to greenhouse space and restrooms, and water lines are also required; a faculty representative is needed – Gordon volunteered to serve in this role. <p>Viability of alternate locations is the final section to be completed after consulting Meg Prier and other student gardens. It was suggested that “Requirements” would be more a more appropriate term than “Demands” for the purposes of the committee’s report.</p> <ul style="list-style-type: none"> ● Sarah presented a draft report on research growing fields, including descriptions of activities and requirements for planting, monitoring & sampling, pollinations, and harvesting, including for transgenics; these include security/safety/health considerations and dedicated transportation. Since planting and harvest are seasonal activities, extreme proximity to the core campus is not critical. ● Peggy presented a draft report (written by Nick, Ben, Peggy, Tyler H. and R. Almeida) describing linkages between the activities presently located at the Oxford Tract and the academic and instructional programs within the Departments of Plant and Microbial Biology (PMB) and Environmental Science, Policy, and Management (ESPM). Details of the Oxford Tract buildings, the programs housed within them, and activities (daily usage) indicate that close proximity to the core campus is critical to sustaining excellence in research and education. ● The introductory section of the report (yet to be written) will provide an overview of the academic units and programs that are presently supported by the Oxford Tract. 	
<p>3. Planning next steps (toward the completion of the committee’s report)</p>	<ul style="list-style-type: none"> ● Options analyses are needed in order to determine viable options for reducing the footprint and/or relocating the activities presently located at the Oxford Tract. Since substantial funding (and time) is required for this work, these analyses cannot be included in the committee’s report which is to be completed this month. ● However, a list of requirements should be included in the report, for each programmatic component of the Oxford Tract (greenhouses + labs + storage; insectaries + labs + quarantine facility; labs not related to greenhouses, including controlled environment facility; research field; instructional field; Student Organic Garden), to enable preliminary studies and financial analyses to be performed; Emily (as well as the other staff to the committee) can help to ensure that these lists are sufficiently detailed and complete. ● Committee members will continue to work on their respective sections; Keith and Tsu-Jae will be responsible for combining everyone’s contributions into a single document for the committee to review and revise (e.g., as a Google document). ● If necessary the committee will meet again later this month to finalize the report. 	<ul style="list-style-type: none"> ● Keith and Tsu-Jae to put together a framework for the report, to help ensure that each programmatic component is adequately covered (including a sufficient detailed list of requirements) and also to facilitate the assembly of the final report. ● Tsu-Jae to send out link to Doodle poll to identify a mutually convenient timeslot for the next (final) meeting of the committee.

OXFORD TRACT PLANNING COMMITTEE MEETING SUMMARY

August 24, 2017; 9:30 a.m.-10:50 a.m.; Chancellor’s Conference Room, California Hall

<p>Attendees:</p> <ul style="list-style-type: none"> • Committee Members: Keith Gillless, Dean, College of Natural Resources (Co-chair) Tsu-Jae King Liu, Vice Provost, Academic and Space Planning (Co-chair) Rodrigo Almeida, Professor, Environmental Science, Policy, and Management Tyler Helmann, Graduate Student, Plant and Microbial Biology Peggy Lemaux, Cooperative Extension Specialist, Plant and Microbial Biology Steve Lindow, Professor, Plant and Microbial Biology Emily Marthinsen, Assistant Vice Chancellor, Physical & Environmental Planning and Campus Architect Nicholas Mills, Professor, Environmental Science, Policy, and Management Jennifer Sowerwine, Assistant Cooperative Extension Specialist, Environmental Science, Policy, and Management Grace Treffinger, Undergraduate Student, Environmental Science, Policy, and Management (Alternate for Tyler Jacobson) • Staff: Christina Wistrom, Greenhouse Manager, College of Natural Resources Barbara Lane, Assistant Dean, College of Natural Resources Kira Stoll, Principal Planner, Long Range Planning & Sustainability <p>Absent: Ben Blackman, Professor, Plant and Microbial Biology Gordon Frankie, Professor, Environmental Science, Policy, and Management Tyler Jacobson, Undergraduate Student, Environmental Economics and Policy Sarah Hake, Adjunct Professor, Plant and Microbial Biology Abram Hardin, Principal Space Planner, Academic and Space Planning</p>		
Agenda Item	Summary Notes	Actions to be completed before the next committee meeting
<p>1. Discussion of draft committee report</p>	<ul style="list-style-type: none"> • Keith led a discussion of the outline and rough draft of the report. <ul style="list-style-type: none"> ○ To make the report easier to read (considering that the primary audience is the Chancellor, EVCP, and Academic Senate but that we expect it to extend to the broader community) and to capture all of the inputs received, the report will reference the latter and include them as appendices (including the SOGA report and letter from Campus Gardens Coordinator Meg Prier, comments received from faculty, staff, and students, etc.). ○ Introduction should include an inventory of assets at the Oxford Tract, and note complexities as well as needs for co-location of activities. ○ Programmatic needs and best practices should be covered in the section on linkages between the Oxford Tract and academic programs, to justify the importance of proximity to the core campus. ○ The need to support transgenics research should be mentioned in the section on research and instructional fields. ○ Committee members would like to work with the consultants who are hired to perform the options analyses. This is important (and should be recommended in the report) for ensuring that instructional and research needs will be met. ○ Options analysis requirements should include transportation, sunlight, field conversion, and operational (materials and supplies, people, equipment flow) needs. The potential for expansion of activities should be noted as appropriate. 	<ul style="list-style-type: none"> • Grace to distill content of SOGA report and Student Gardens Coordinator for inclusion in the body of the report.
<p>2. Next steps</p>	<ul style="list-style-type: none"> • Keith will generate a more complete draft report by Monday 8/28. The other committee members agreed to provide suggestions for revision (via “track changes” in Word) and send them to Keith by the end of August. 	

OXFORD TRACT PLANNING COMMITTEE MEETING SUMMARY

January 22, 2018; 3:10 p.m.-4:40 p.m.; Chancellor’s Conference Room, California Hall

Attendees:

• **Committee Members:**

- Keith Gillless, Dean, College of Natural Resources (Co-chair)
- Tsu-Jae King Liu, Vice Provost, Academic and Space Planning (Co-chair)
- Rodrigo Almeida, Professor, Environmental Science, Policy, and Management
- Ben Blackman, Professor, Plant and Microbial Biology
- Tyler Jacobson, Undergraduate Student, Environmental Economics and Policy
- Sarah Hake, Adjunct Professor, Plant and Microbial Biology
- Tyler Helmann, Graduate Student, Plant and Microbial Biology
- Peggy Lemaux, Cooperative Extension Specialist, Plant and Microbial Biology
- Steve Lindow, Professor, Plant and Microbial Biology
- Emily Marthinsen, Assistant Vice Chancellor, Physical & Environmental Planning and Campus Architect
- Nicholas Mills, Professor, Environmental Science, Policy, and Management
- Jennifer Sowerwine, Assistant Cooperative Extension Specialist, Environmental Science, Policy, and Management
- Grace Treffinger, Undergraduate Student, Environmental Science, Policy, and Management (Alternate for Tyler Jacobson)

• **Staff:**

- Barbara Lane, Assistant Dean, College of Natural Resources
- Christina Wistrom, Greenhouse Manager, College of Natural Resources

Absent:

- Gordon Frankie, Professor, Environmental Science, Policy, and Management
- Abram Hardin, Principal Space Planner, Academic and Space Planning
- Kira Stoll, Principal Planner, Long Range Planning & Sustainability

Agenda Item	Summary Notes	Actions items
1. Approval of meeting notes	<ul style="list-style-type: none"> • No corrections to the draft of the 8/24/2017 meeting summary notes were requested. 	<ul style="list-style-type: none"> • Tsu-Jae to update Appendix H (OTPC Meeting Summary Notes)
2. Updates from Tsu-Jae and Keith	<ul style="list-style-type: none"> • Tsu-Jae introduced Vini Bhargava, Director of Physical and Environmental Planning. Since Emily Marthinsen has retired, Vini will take her place on the OTPC. • It took much longer than initially anticipated for an initial draft report to be compiled. The initial draft turned out to be essentially an advocacy document, not adequately responsive to the charge of the committee. Therefore, Tsu-Jae engaged in a series of discussions with administrative leaders during the course of the (second half of the) Fall 2017 semester to gain support for mixed usage of the Oxford Tract (OT). The complete draft report that was shared with the committee on 12/21/2017 included two draft options for consideration and discussion: Option 1 entails the replacement of the oldest buildings with smaller-footprint buildings located on the northeast portion of the OT, and reducing the area of the fields to accommodate the new buildings; Option 2 entails all-new buildings located where the fields presently are located, and fields relocated to alternative site(s). 	
3. Discussion of draft committee report	<ul style="list-style-type: none"> • In early January the majority of the members of the committee had discussions regarding the complete draft report and subsequently provided written feedback to Keith and Tsu-Jae on 1/19/2018. Keith and Tsu-Jae met on 1/21/2018 to discuss this feedback and afterwards prepared a point-by-point response to the concerns raised. Revisions to the draft report to address these concerns were discussed during the meeting. A number of additional suggestions for clarifying/enhancing the report were discussed and agreed upon. 	<ul style="list-style-type: none"> • Grace to finalize the SOGA report (and Tsu-Jae to update Appendix D afterwards) • Keith to relay expert opinion of Prof. Don Amundson regarding the quality of OT soil, to include in the final version of the report. • Nick to send links to information regarding regulations for the quarantine facility. • Tsu-Jae to incorporate all inputs received into the next draft of the report.