Committee members present included: Chair Jim Francesconi and Directors Jill Eiland (1:18 p.m.), Hannah Fisher, Preston Pulliams, and Rosemary Powers.

Others present included: Vice Chancellor Bob Turner and Provosts Jim Bean (UO), Jim Klein (SOU), and Sabah Randhawa (OSU).

Chair Francesconi called the meeting to order at: 1:04 p.m.

1. **Program Approvals**

   a. **OSU, B.S. in Energy Engineering Management**

   **DOCKET ITEM**

   1. *Describe the purpose and relationship of the proposed program to the institution’s mission and strategic plan.*

   The College of Engineering at Oregon State University (OSU) is proposing a new degree program in Energy Engineering Management (EEM) to be offered only at the Cascades Campus in Bend, Oregon, starting fall term 2010. This program will provide students with the knowledge necessary to understand and make appropriate decisions about the design, construction, operation, and maintenance of energy systems. Students will acquire fundamental skills in engineering analysis, business, and project management while taking courses taught in the context of energy conversion systems such as power plants and solar collectors, means of storing energy such as batteries and hydrogen, energy distribution systems, and the efficient use of energy in building, manufacturing, and processing systems. A part of this program will be the study of secondary effects of energy use such as local environmental impacts, national economic impacts, and global climate change. Throughout the curriculum, an important emphasis and distinctive feature is the treatment of these energy technologies as complex systems that require management with an eye to both business concerns and environmental issues, as well as the traditional technical challenges of energy engineering.

   2. *What evidence of need does the institution have for the program?*

   A search for energy jobs in Oregon on October 1, 2009, identified 1,133 energy jobs being advertised. The Oregon Department of Energy lists 42 energy suppliers in Oregon, all of
which are potential employers of EEM graduates. Nationally, the need for energy engineers is a result of new job creation and planned retirement of the existing energy engineer workforce. According to the Association of Energy Engineers, the American Recovery and Reinvestment Act is funding energy measures that (a) according to the Alliance to Save Energy will create 100,000 new jobs in the energy efficiency sector, (b) will result in 117,000 new jobs in solar energy according to the Solar Energy Industries Association, and that (c) according to Speaker of the House Nancy Pelosi’s fact sheet, will result in 500,000 new jobs in the area of smart grid/new batteries/energy efficiency. A second market demand that must be addressed is that of students wanting to enroll in the program. From the 322 responses to OSU’s poll, the following can be reported: (a) over 72 percent of these students thought it either a good or very good idea for an EEM program to be offered and (b) 35 students indicated that they would definitely select EEM as their major if it were offered; an additional 64 students said that they probably would choose EEM if it were offered. (Students were not asked if they would locate to Bend, Oregon to study EEM.)

The student characteristics are projected to be similar to those of current students in engineering programs, as they have remained relatively constant over time – approximately 90 to 95 percent Oregon (resident) students – with the possibility of increasing international students representation through partnering with the INTO program (a name of a private company for international recruiting). It is expected that more of the engineering students will be of traditional age in this program, as engineering is a tough program to pick up as an “adult degree completer” with its many rigorous pre-requisites. Approximately 70 percent of Cascades Campus students attend full-time, which the University expects to be about the same for this program.

3. Are there similar programs in the state? If so, how does the proposed program supplement, complement, or collaborate with those programs?

This program has some elements in common with Oregon Institute of Technology’s Renewable Energy Engineering degree but liaison with OIT’s representatives distinguished the differences and resulted in agreement to move forward with the degree.

4. What new resources will be needed initially and on a recurring basis to implement the program? How will the institution provide these resources? What efficiencies or revenue enhancements are achieved with this program, including consolidation or elimination of programs over time, if any?

Faculty from a variety of units on the Corvallis campus will provide instruction for this program. Resources are budgeted for two new lines at the Cascades Campus and additional faculty will be added as this program expands.

All appropriate University committees, the OUS Provosts’ Council, and an External Review team from Arizona, Idaho, and Washington have positively reviewed the proposed program.
RECOMMENDATION TO THE COMMITTEE
The OUS Provosts’ Council recommends that the Board’s Academic Strategies Committee authorize Oregon State University to establish an instructional program leading to a Bachelor of Science degree in Energy Engineering Management, effective Fall 2010. With Committee approval, a five-year follow-up review of this program will be conducted in 2015-16.

COMMITTEE DISCUSSION AND ACTION
Chair Francesconi called upon Vice Chancellor Turner and Provost Randhawa to present the item. Provost Randhawa noted that one unique aspect of the program is the way in which it brings together management aspects in terms of secondary effects of energy, environmental impact, global climate change, as well as looking at the overall management and sustainability of energy systems. Following the presentation, Chair Francesconi called for discussion and Director Powers asked concerning the plans to encourage the participation of underrepresented people in the program; Provost Randhawa described the enrollment of women and students representing the working population as significantly higher than traditional students. This program intends to attract the student body from the tri-county area, including first-generation students, the Warm Strings Tribe, and underrepresented student groups in Northern California. Powers encouraged Dr. Randhawa to continue the efforts to enroll women in the STEM (Science, Technology, Engineering and Math) programs; she stated her appreciation for this program in Central Oregon.

Action: Following discussion, Chair Francesconi called for a motion to approve the proposed program; Directors Rosemary Powers made the motion and Preston Pulliams seconded. Those voting in favor included: Jim Francesconi, Hannah Fisher, Rosemary Powers, and Preston Pulliams. Those voting no: none. Note: Director Jill Eiland was not present during the voting.

b. UO, Ph.D. in Architecture

DOCKET ITEM
1. Describe the purpose and relationship of the proposed program to the institution’s mission and strategic plan.

In its exclusive focus on sustainable architectural design, the Ph.D. in Architecture program will be unique in the United States and will allow the University of Oregon (UO) to lead in the advanced education of individuals who will develop new knowledge that pertains to the sustainability of buildings and the built environment. Prospective students will be individuals with professional experience in architectural practice who have an interest in developing research expertise that will prepare them for careers at universities and other entities engaged in research related to sustainable architectural design including national research laboratories, industries concerned with building product and systems development, innovative design practices, as well as public agencies and non-government organizations.
The UO is a comprehensive research university that serves its students and the people of Oregon, the nation, and the world through the creation and transfer of knowledge in the liberal arts, the natural and social sciences, and the professions. The proposed program is directly responsive to many of the University’s efforts to enrich the public that sustains it, representing a commitment to graduate education, support of basic research that energizes the state’s economic and political structure, integrating teaching, research, and service; embracing the challenge of an evolving social, political, and technological environment by guiding change rather than reacting to it; and cultivation of an attitude toward citizenship that fosters the wise exercise of civic responsibilities and individual judgment throughout life. The proposed program promulgates the University’s central theme of sustainability.

2. What evidence of need does the institution have for the program?

In Spring 1996, an external panel of reviewers noted that the UO’s Department of Architecture was particularly well-positioned to mount a Ph.D. program, given the high quality of work being engaged by the faculty, the track record of excellence in teaching and research, and the long-standing reputation in sustainability. This view was echoed by the 2006 National Architecting Accrediting Board (NAAB) visiting team, who also noted that many faculty position announcements now list the Ph.D. as the preferred terminal degree, a trend that will only increase in the future. Further, over half of all accredited architecture programs in the country seek faculty with specializations in environmental technology and sustainability (as deduced from recruitment advertisements in the Association for Collegiate Schools of Architecture News). There are only three Ph.D. programs in Architecture on the West Coast and only a dozen or so nationwide, and the number of candidates graduating from these institutions is insufficient for current and future needs. Importantly, none of these other Ph.D. programs offer the unique emphasis on sustainability and design teaching proposed for the UO program. Many governmental agencies and non-governmental organizations throughout Oregon are expected to engage with graduates of this program, including the Oregon Transportation Research and Education Consortium, the Oregon Built Environment and Sustainable Technologies Center, the Oregon chapter of the American Institute of Architects, the Energy Trust of Oregon, and the Northwest Cascadia Chapter of the U.S. Green Building Council.

3. Are there similar programs in the state? If so, how does the proposed program supplement, complement, or collaborate with those programs?

The Department of Architecture currently offers the only accredited architecture programs in the state of Oregon and is complementary with many OUS programs such as Landscape Architecture (UO), Environmental Studies (UO), Planning (UO, PSU), and a non-accredited Architecture program (PSU). The UO’s Department of Landscape Architecture, in the School of Architecture and Allied Arts, recently began a Ph.D. program in Fall 2006. The UO’s Department of Art History, also in the School of Architecture and Allied Arts, has a Ph.D. program. Neither of these duplicates efforts in the proposed program. They may help to complement it, particularly by helping to form a learning community of Ph.D. students in the School of Architecture and Allied Arts, a professional school in which, for most
programs, a professional master’s has been the terminal degree. There will be no redundancy in offerings through the addition of the proposed Ph.D.

4. What new resources will be needed initially and on a recurring basis to implement the program? How will the institution provide these resources? What efficiencies or revenue enhancements are achieved with this program, including consolidation or elimination of programs over time, if any?

The program is expected to be self-supporting by its fourth year, at which time an anticipated 12 students will be enrolled. During the first four years of the new program, no new faculty members will be required. Current faculty will absorb the additional workload associated with participating in a Ph.D. program through a variety of efficiency measures, including strategic usage of GTF/GRF awards for doctoral students, further leveraging faculty resources for the Ph.D. program, and realignment of teaching responsibilities to create additional 600-level course offerings, benefitting both the Ph.D. program and the existing master’s program. The Department will appoint a member of the Ph.D. faculty to serve as the director of the Ph.D. program. The Ph.D. program director will coordinate and oversee the doctoral program and work closely with the director of graduate studies to identify symbiotic opportunities for the master of architecture and Ph.D. programs. While there will be a modest number of purchases required to enhance the library collection, the School of Architecture & Allied Arts (A&AA) will absorb these costs through an existent donor gift fund. For students whose major professors do not have space beyond their personal offices, secured office space will be provided by the A&AA. Students will provide their own computers as specified by the A&AA Computing Support. The A&AA’s research labs will provide specialized computer workstations for members of research teams.

All appropriate University committees and the OUS Provosts’ Council have positively reviewed the proposed program.

RECOMMENDATION TO THE COMMITTEE
The OUS Provosts’ Council recommends that the Board’s Academic Strategies Committee authorize the University of Oregon to establish an instructional program leading to a Doctor of Philosophy (Ph.D.) in Architecture, effective Fall 2010. With Committee approval, a five-year follow-up review of this program will be conducted in 2015-16.

COMMITTEE DISCUSSION AND ACTION
Chair Francesconi called upon Provost Jim Bean to present the item. Dr. Bean informed the Committee that the architecture program at the University of Oregon is ranked seventh overall, nationally, and first, nationally, in sustainable architecture. A significant portion of the faculty across the country in sustainable architecture programs are University of Oregon master’s graduates and the UO’s department has been urged by other universities to begin producing Ph.D.s in this area to be faculty members in sustainable architecture. He advised that the department currently has available the teaching assistantships and research funding to support a doctoral program and that the program will only enroll two to three students per year at this
time. Director Powers expressed her excitement at the prospect of this program. She noted that she has been very impressed by Professor Erin Moore’s work in the field and stated her support of the proposal. Dr. Bean advised that, nationally, there are very few women in the field of architecture but that the program at the UO is headed by Associate Professor Christine Theodoropoulos and the dean of the college is Frances Bronet—the UO has two of possibly ten women administrators in architecture across the country.

**Action:** Chair Francesconi called for a motion; Directors Rosemary Powers made the motion and Preston Pulliams seconded. Those voting in favor included: Jim Francesconi, Hannah Fisher, Rosemary Powers, and Preston Pulliams. Those voting no: none. Note: Director Jill Eiland was not present during the voting.

2. **Adjournment**
   
   With no further business, the meeting was adjourned at 1:21 p.m.