May 26, 2006

MEMORANDUM

TO: Cheng-i Wei
Dean, College of Agriculture and Natural Resources

FROM: Phyllis Peres
Associate Provost for Academic Planning and Programs

SUBJECT: Proposal to reorganize units into the Department of Environmental Science and Technology (PCC log no. 05074) and transfer related academic programs (PCC log nos. 05075, 05076 and 05077)

On May 17, President Mote gave final approval to your proposal to reorganize a portion of the Department of Natural Resource Sciences and Landscape Architecture with the Department of Biological Resource Engineering, and to rename the latter unit as the Department of Environmental Science and Technology. He also gave final approval to the proposals to transfer into the unit (1) the B.S. in Natural Resource Sciences concentration in the Conservation of Soil, Water and Environment; (2) the Soil Science concentrations of the M.S. and Ph.D. in Natural Resource Science; and (3) the Soil, Water, and Land Resources concentration of the Environmental Science and Policy major.

The changes are formally effective July 1, 2006.

CWR/

Enclosure

cc: William Destler, Provost
Ellin Scholnick, Associate Provost for Faculty Affairs
James Baeder, Chair, Senate PCC
Sarah Bauder, Office of Student Financial Aid
Mary Giles, University Senate
Barbara Hope, Data Administration
Anne Turkos, Archives
Leon Slaughter, College of Agriculture and Natural Resources
MEMORANDUM

May 15, 2006

To: C.D. Mote, Jr., President

From: S. James Gates Chair of the University Senate

Subject: Proposal to Reorganize and Rename the “Department of Biological Resources Engineering” as the “Department of Environmental Science” and transfer academic degree program concentrations, Senate Document Number 05-06-49

I am pleased to forward for your consideration the attached report entitled, “Proposal to Reorganize and Rename the “Department of Biological Resources Engineering” as the “Department of Environmental Science” and transfer academic degree program concentrations, Senate Document Number 05-06-49.” The proposal was presented by Phyllis Peres on behalf of James Baeder, Chair of the Senate Programs, Curricula, and Courses Committee. The University Senate approved the proposal at its May 11, 2006 meeting with the attached amendment to rename the department to the “Department of Environmental Science and Technology.”

We appreciate your consideration of the proposal and request that you inform the Senate Office of your decision as well as any subsequent action related to your conclusion.

Enclosure: Senate Document 05-06-49

SJG/MG/am

cc: William Destler, Senior Vice President for Academic Affairs & Provost
James Baeder, Chair, Senate Programs, Curricula and Courses Committee
Andrew Baldwin, Acting Chair, Department of Biological Resources Engineering
Mary Giles, Executive Secretary and Director, University Senate
Phyllis Peres, Associate Provost, Academic Planning and Programs
Ellin Scholnick, Associate Provost for Faculty Affairs
Cheng-I Wei, Dean, College of Agriculture and Natural Resources
Ann Wylie, President’s Chief of Staff

Approved: [Signature]  Date: 5-17-06

C.D. Mote, Jr.

President
MEMORANDUM

DATE: May 9, 2006

TO: Dr. Adele Berlin, 2005-2006 Chair, University Senate
Dr. Sylvester Gates, 2006-2007 Chair, University Senate

FROM: Andrew Baldwin (Acting Chair, Biological Resources Engineering)
Cheng-i Wei (Dean, College of Agriculture and Natural Resources)

RE: Amendment to Senate Document Number 050549 to reorganize and rename the
"Department of Biological Resources Engineering" as the "Department of
Environmental Science" and transfer in the following academic concentrations:
a) The concentration in The Conservation of Soil, Water and the Environment in
the B.S. in Natural Resource Sciences; b) The Soil Science concentrations in the
M.S. and Ph.D. in Natural Resource Sciences; c) The Soil, Water, and Land
Resources concentration in the Environmental Science and Policy major.

The original proposing unit requests that a portion of the proposal in renaming of the
department be amended. The new name proposed is the "Department of Environmental
Science and Technology." The faculty of the proposed reorganized department and the Dean of
the College of Agriculture and Natural Resources endorse this amendment.

The amended department name more appropriately represents the specific field of
environmental science and the academic programs that will be housed within the department as
well as the areas of research, teaching and extension education focus in Ecological Design and
Technology, Ecosystem Science and Management, Soil and Watershed Sciences, and
Environmental Health.
THE UNIVERSITY OF MARYLAND, COLLEGE PARK
PROGRAM/CURRICULUM PROPOSAL

DIRECTIONS:
- Provide one form with original approval signatures in lines 1 - 4 for each proposed action. Keep this form to one page in length.
- Early consultation with the Office of the Associate Provost for Academic Planning & Programs is strongly recommended if there are questions or concerns, particularly with new programs.
- Please submit the signed form to Claudia Rector, Office of the Associate Provost for Academic Planning and Programs, 1119 Main Administration Building, Campus.
- Please email the rest of the proposal as an MSWord attachment to pcc-submissions@umd.edu.

DATE SUBMITTED April 4, 2006

COLLEGE/SCHOOL Agriculture and Natural Resources

DEPARTMENT/PROGRAM Biological Resources Engineering

PROPOSED ACTION (A separate form for each) ADD_____ DELETE_____ CHANGE_XX_

DESCRIPTION (Provide a succinct account of the proposed action. Details should be provided in an attachment. Provide old and new sample programs for curriculum changes.)

The purpose of this proposal is to combine a portion (25%) of the faculty in the Department of Natural Resource Sciences and Landscape Architecture with the faculty in the Department of Biological Resources Engineering who are remaining in the College of Agriculture and Natural Resources and rename the Department of Biological Resources Engineering to the Department of Environmental Science.

JUSTIFICATION/REASONS/RESOURCES (Briefly explain the reason for the proposed action. Identify the source of new resources that may be required. Details should be provided in an attachment.)

The reason for this action is to establish a Department of Environmental Science that will consolidate environmental science programs within the College of Agriculture and Natural Resources and provide an essential focal point for interdisciplinary environmental science research and education.

== APPROVAL SIGNATURES ==

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VPAAP 8-05
PROPOSAL FOR REORGANIZING AND RENAMING THE

DEPARTMENT OF BIOLOGICAL RESOURCES ENGINEERING

TO THE

DEPARTMENT OF ENVIRONMENTAL SCIENCE

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

UNIVERSITY OF MARYLAND

COLLEGE PARK

CHENG-I WEI, DEAN

Transfer of existing degree programs: B.S., M.S., Ph.D.

Effective July 1, 2006
PROPOSAL:
DEPARTMENT OF ENVIRONMENTAL SCIENCE

Executive Summary
This is a proposal to rename the Department of Biological Resources Engineering (ENBE) to the Department of Environmental Science (ENVS). Additionally, this proposal would reorganize the ENBE department by the transfer of 10 faculty members from the Department of Natural Resource Sciences and Landscape Architecture (NRSL) into the ENVS department, joining 8 current ENBE faculty members. Academic programs associated with the 10 faculty transferring from NRSL will also transfer. However, no changes to any academic programs are proposed at this time. This proposal is strictly a reorganization plan.

Rationale
The University of Maryland at College Park can become a nationally and internationally recognized leader in the field of environmental science research, teaching, extension education, and outreach to our citizenry if environmental programs and activities are consolidated and structured to enhance visibility and capacity. The University’s environmental science programs are currently spread among many colleges and departments within colleges. The College of Agriculture and Natural Resources has the greatest concentration of environment-focused faculty and academic programs at the University of Maryland. At the College level, our intent is to consolidate the diffuse environmental science efforts, focus environmental science research, teaching, and extension into one unit, and elevate the visibility of the University’s commitment to the environment. To accomplish this goal, we propose to create a new Department of Environmental Science that will consolidate environmental science programs within the College of Agriculture and Natural Resources and provide an essential focal point for interdisciplinary environmental science research and education on the College Park campus.

Overview
• This proposal describes a plan for reorganization within the College of Agriculture and Natural Resources (AGNR).
• It is proposed that two existing departments, the Department of Biological Resources Engineering (ENBE) and the Department of Natural Resource Sciences and Landscape Architecture (NRSL), be reorganized into two new administrative units and renamed the Department of Environmental Science (ENVS) and the Department of Plant Sciences and Landscape Architecture (PSLA), respectively. The proposal for renaming NRSL to PSLA is under separate cover.
• The net result of the proposed reorganization will be no change in the number of departments or the number of faculty within the College.
• The ENBE faculty will join with a portion (25%) of the current NRSL faculty and the combined faculty will rename ENBE to ENVS. The current NRSL faculty will be reduced in number by 25% and NRSL will be renamed PSLA.
• The proposed reorganization impacts 44 tenured or tenure-track faculty and 4 non-tenure-track faculty. Currently, 7 tenured or tenure-track faculty and 1 non-tenure-track faculty are members of ENBE, not including the four ENBE faculty members who will move to the new
Department of Bioengineering in the Clark School of Engineering. Currently, 37 tenured or tenure-track faculty and 3 non-tenure track faculty are members of NRSL.

- As of March 1, 2006, all current faculty (tenured, tenure-track and non-tenure-track) have formally declared their preference for affiliation with either ENVS or PSLA (as proposed).
- The faculty self-selection process allocated 16 tenured and tenure-track faculty and 2 non-tenure-track faculty to ENVS and 28 tenured and tenure-track faculty and 2 non-tenure-track faculty to PSLA.
- Four areas of research, teaching and extension excellence have been identified by the faculty committed to ENVS: 1) Ecosystem Science and Management; 2) Soil and Watershed Science; 3) Ecological Design and Technology; 4) Environmental Health.
- As proposed, ENVS will serve as a cornerstone for multi-disciplinary collaboration and cooperation among faculty and programs internal and external to the University.

**Background**

The field of environmental science is well-represented at many universities, including peer institutions of the University of Maryland. While various faculty members of the University of Maryland at College Park (UMCP) are involved in research, teaching and extension education in the environmental science arena, the University has not emerged as a leader in this field. This is surprising given our location near the nation’s capitol and the Chesapeake Bay, and the breadth of our faculty expertise. Our low visibility is largely due to the lack of a recognizable, defined unit that is a leader for environmental science programs and activities in a focused and coordinated manner. The diffuse and unconsolidated nature of environmental science studies at the University of Maryland differs markedly from many other major universities that have environmental sciences focused within single departments or schools (e.g., UC Berkeley, University of Illinois, University of Virginia, UC Davis, Rutgers University, and University of Pennsylvania). The current structure, or lack of overarching structure, of the environmental science programs at UMCP causes confusion among potential and current undergraduate and graduate students who are searching for opportunities for study in the environmental sciences. Program visibility is low, attractiveness to prospective students is poor, and, as a result, the University of Maryland is not recognized as a leader in environmental science studies at the undergraduate or graduate level.

The University hosts a large but diffuse population of faculty engaged in environmental science research and teaching. Casual observation indicates that most of the University’s “environmental” faculty are not familiar with each others’ research programs and rarely engaged in collaborative research activities outside of their specific areas of expertise. Undergraduate and graduate course offerings are scattered across multiple campus units. The decentralized nature of environmental science course offerings is not a concern, in and of itself, but our student body would be better served by improved coordination, enhanced compatibility and increased visibility of existing courses. There are a plethora of opportunities for unique and productive collaborative research programs in the environmental sciences including water quality in the Chesapeake Bay and its tributaries; watershed processes and transport of environmental contaminants; urbanization and the impact on natural ecosystems; sustainable agricultural ecosystems; design, development and management of green infrastructure; environmental health; biofuels and renewable fuel technology; and aquatic and terrestrial toxicology. An enhanced and
broadened focus on collaborative research and teaching among our diverse faculty will substantially increase the potential for securing extramural funding, synergistically increase our collective productivity, and rapidly enhance our stature and reputation as a leading institution for environmental science research and education. The proposed Department of Environmental Science (ENVS) will serve as the cornerstone for collaborative environmental science research and will be an ideal focused platform from which to launch multi-disciplinary, multi-department, multi-college, multi-university, and multi-agency initiatives that address broad and complex environmental challenges. Internal to the University, opportunities for collaboration exist among units such as Marine & Estuarine Environmental Sciences (MEES); Earth System Science Interdisciplinary Center (ESSIC); College of Chemical and Life Sciences’ Biological Sciences program; Behavior, Ecology, Evolution and Systematics Program (BEES); Department of Geography; Wye Research and Education Center Aquatic Toxicology Laboratory; University of Maryland Center for Environmental Studies (UMCES); and the Center for Integrative Environmental Research. External to the University, the possibilities for scientific collaboration and funding sources span the universe of state and national agencies, non-governmental organizations, and citizen/community groups. This is a timely opportunity for the University of Maryland.

Extension education in environmental science, as with academic and research programs, will benefit from having an identifiable center of excellence. Although individual extension faculty in various departments provide outstanding educational programs in subjects such as agricultural nutrient management, integrated pest management, and irrigation water use efficiency, no single unit houses extension faculty primarily dedicated to environmental science extension education. Given our location in the center of the Chesapeake Bay watershed, with rapidly urbanizing regions, strong agricultural industry, and proximity to the nation’s capitol, the University of Maryland is uniquely positioned to become a national leader in environmental science extension programs for a wide range of audiences. For example, urbanization and development impacts on the water quality of the Chesapeake Bay and its tributaries are increasingly viewed as top-priority public issues. Also, impacts on air, soil, and water quality from industrial, automobile and agricultural discharges are growing public concerns. Outreach efforts are needed to educate public decision-makers, private sector leaders, and our citizenry with sound, unbiased, science-based information. A major growth area for extension education programs is in the area of environmental health, a broad field encompassing topics ranging from water and air quality to environmental contaminants to ecological risk analysis.

Mission of the Department of Environmental Science

The mission of the Department of Environmental Science is to promote understanding and conscientious management of natural, agricultural and urban ecosystems and the interactions among air, water, soil, living organisms, and people. We will contribute to a sustainable future and enhanced environmental quality through conservation and management of our natural resources, study of human impacts on ecosystem structure and function, design and implementation of technology for enhanced environmental quality, and investigation of effects of environmental conditions on human health. We aspire to build the human capital and knowledge base needed to meet these goals through excellence in scientific research, education, extension, and outreach programs.
**Vision Statement**

The Department of Environmental Science will become widely known and respected as:

1. one of the top ten undergraduate programs in environmental science, worldwide;
2. one of the top ten graduate programs in the environmental sciences, worldwide;
3. the center of excellence for extension education and outreach relating to the environmental quality in the mid-Atlantic region;
4. the home of nationally and internationally recognized faculty in basic and applied environmental science research;
5. the mid-Atlantic regional focal point for interdisciplinary collaborative environmental science research that serves as the nexus for environmental science research, teaching, and extension education.

**Short-Term Goals (1-2 years)**

1. Establish the Department of Environmental Science.

2. Organize existing AGNR faculty and their research, teaching and extension education programs around four areas of excellence:
   - Ecosystem Science and Management
   - Soil and Watershed Sciences
   - Ecological Design and Technology
   - Environmental Health (in collaboration with HLHP’s proposed School of Public Health)

3. Update existing and propose new undergraduate (B.S.) programs, majors, concentrations, minors and curricula in:
   - Environmental Science
   - Natural Resources Management
   - Environmental Soil Science
   - Ecological Design and Technology
   - Environmental Health (in collaboration with HLHP’s proposed School of Public Health)

4. Administratively associate the multi-college Environmental Science and Policy (ENSP) program with the Department of Environmental Science but otherwise let it remain in its current state as an autonomous unit and a multi-college program. ENVS faculty will advise students in two current concentrations within ENSP and approval of a third concentration is pending. Through ENVS’s administrative association with, and support of ENSP, the department will be actively involved in the continuing evolution of the ENSP program, the College Park Scholars Environmental Studies Program, and the development of the recently-approved Eco-House Living Learning Community.

5. Update existing and propose new graduate programs (M.S. & Ph.D.) in:
   - Ecosystem Science and Management
   - Environmental Soil Science
   - Ecological Design and Technology
Environmental Health (in collaboration with HLHP and the proposed School of Public Health’s Masters of Public Health degree program concentration)

6. Focus and promote extension education and outreach activities in four areas of excellence:
   Ecosystem Science and Management
   Soil and Watershed Sciences
   Ecological Design and Technology
   Environmental Health (in collaboration with HLHP’s proposed School of Public Health)

This plan addresses the reorganization of ENBE and NRSL, the renaming of ENBE into the new ENVS department, and transferring of academic programs between departments. Details on updating existing academic programs or proposals for creating new programs will be addressed in future documents.

Planned structure of the Department of Environmental Science

The research and programmatic structure of the Department of Environmental Science is designed to maximize success in four areas of excellence: 1) Ecosystem Science and Management; 2) Soil and Watershed Sciences; 3) Ecological Design and Technology; and 4) Environmental Health (Fig. 1). These four areas of excellence are not served elsewhere at UMCP and offer a high probability of attracting students and funding for both basic and applied research. We anticipate evolving our program in Environmental Health in close collaboration with the HLHP’s proposed School of Public Health. Each area of excellence will include faculty and programs engaged in research, teaching and extension education. The “areas of excellence”-based system increases professional interactions and collaborations among faculty and enhances success in securing extramural funding and hosting comprehensive multidisciplinary projects.

The institutional structure of the Department of Environmental Science is designed to minimize the administrative burden placed on research, teaching and extension faculty by providing sufficient administrative, business management, and technical support to allow faculty the necessary time and freedom to pursue scholarly activities, maximize productivity and be successful professionally (Fig. 2).

Undergraduate Programs

Current undergraduate programs in NRSL and ENBE are presented in the upper portion of Figure 3. The lower portion of Figure 3 presents the reallocation of undergraduate programs between the proposed Department of Plant Sciences and Landscape Architecture (PSLA) and the Department of Environmental Science (ENVS). Undergraduate enrollment in current programs for the past four semesters is presented in Figure 4.

Future plans for updating existing programs and developing new proposals for undergraduate programs in the Department of Environmental Science include updating and modifying the Conservation of Soil, Water and Environment concentration of the Natural Resource Sciences major into a potential new major in Environmental Soil Science; modifying and expanding the existing Natural Resources Management major; and developing potential new majors, minors, and/or concentrations in Environmental Science, Ecological Design and Technology, and Environmental Health. All actions concerning modifying existing or creating new undergraduate programs will be addressed in future proposals.
Existing Undergraduate Programs

The Conservation of Soil, Water, and Environment concentration of the Natural Resource Sciences major enables students to understand the complex ways in which the quality and productivity of soil resources are influenced by soil and land management systems. The curriculum prepares graduates for work in variety of situations addressing natural resource and environmental issues and provides a rigorous science background for those planning to pursue post-graduate degrees in Environmental Sciences, Soil Science and other related fields.

The Natural Resources Management (NRMT) program is the first and longest-running environmental studies program at the University of Maryland. The NRMT program remains unique at the University of Maryland in its emphasis on management of ecosystems and strong field-based component of coursework. Our department faculty have developed and taught NRMT courses in ecological restoration, tropical ecology, wildlife ecology and management, wetland ecology, water quality, and other environmental areas. We have also relied on external instructors to teach fisheries biology, park management, and environmental education. The NRMT courses are required or elective in several specialization areas of ENSP and are popular with students.

Currently, the Environmental Science and Policy (ENSP) program is a multi-college program that is relatively autonomous. To maintain this autonomy, we propose that the ENSP program be administratively associated with the proposed Department of Environmental Science, as opposed to being transferred to within the department. We believe that this action is advantageous for several reasons:

1. Associating the ENSP program with ENVS will maintain the autonomy of the ENSP program while still providing increased consolidation of environmental studies;
2. ENVS staff can provide direct support to the ENSP program;
3. ENVS faculty are already responsible for two ENSP focus areas, with a third concentration pending; teach courses that are required or elective for several ENSP focus areas; and will develop new courses applicable to ENSP majors;
4. hosting ENSP within a defined organizational unit that is focused on environmental academics increases the likelihood of attracting students, endowments or extramural grants; and
5. through ENSP’s administrative association with ENVS, the department will be actively involved in the continuing evolution of the ENSP program, the College Park Scholars Environmental Studies Program, and the development of the recently-approved Eco-House Living Learning Community.

Vision and Growth in Undergraduate Programs

A potential new major, concentration and/or minor in Ecological Design and Technology would build on existing expertise in ecological technology and engineering. We believe this program would be attractive to students interested in quantitative aspects of ecological restoration, bioremediation, green building design, low impact development, wastewater treatment wetlands, and similar topics.

Environmental Health is a broad and increasingly important field with a wide range of applications in the environmental science and public health fields. According to the National Environmental Health Association, the field of environmental health encompasses
“environmental factors that may adversely impact human health or the ecological balances essential to long-term human health and environmental quality, whether in the natural or man-made environment.” Our current faculty have expertise that will serve as a foundation for a potential new undergraduate program in Environmental Health that include professional experience in environmental contamination, chemical fate and transport, environmental microbiology, and ecological risk analysis. Developing and implementing a new curriculum will require close collaboration with HLHP’s proposed School of Public Health and the synergies resulting from our combined faculty expertise will generate unparalleled opportunities for our students.

Graduate Programs
The scholarly reputation of departments relies to a large extent on the quality and number of its graduate students. For this reason, we plan to develop MS and PhD programs in the Department of Environmental Science in the areas of Soil Science, which currently exists as the Natural Resource Sciences - Soil Science option, and develop new graduate programs in Ecological Design and Technology, Ecosystem Science and Management, and Environmental Health. Current and proposed distribution of existing graduate programs among the existing Department of Natural Resource Sciences and Landscape Architecture (NRSL) and the Department of Biological Resources Engineering (ENBE) and the proposed Department of Plant Sciences and Landscape Architecture (PSLA) and the Department of Environmental Science (ENVS) are presented in Fig. 5 and Fig. 6.

The proposed Department of Environmental Science’s current faculty have expertise in three of these areas: Soil Science, Ecological Design and Technology, and Ecosystem Science and Management. To build strong graduate programs in these areas, however, we need additional faculty with complementary expertise. We believe that these areas of graduate education and research have tremendous growth potential, given the increasing recognition of the socioeconomic importance of ecosystem services. Our current faculty have limited expertise in the specialization area of Environmental Health. However, by combining the future promise of a graduate faculty supporting the proposed Master of Public Health degree concentration and hiring additional faculty with strong experience in areas such as indoor and outdoor air quality, chemical risk and exposure assessment, and aquatic and terrestrial toxicology, we will ultimately be capable of recruiting high quality graduate students in this area.

Extension Programs
We are planning to focus extension education and outreach activities in our four primary areas of excellence: Soil and Watershed Sciences, Ecosystem Science and Management, Ecological Design and Technology, and Environmental Health. Currently, the proposed faculty have extension expertise in each of these areas, but there is a clear need for additional faculty to improve the quality of extension and outreach programs and meet the growing expectations and demands of our citizenry. The overall goal of our planned Environmental Science extension program is to discover, apply, and disseminate cutting-edge scientific knowledge that will help enhance the quality of our natural, agricultural, and urban ecosystems. As such, the extension programs in the Department will center on our mandated Land Grant mission to conduct applied research and to put new knowledge into the hands of citizens for the betterment of the broader community.
Faculty Redistribution

As of March 1, 2006, all current tenured, tenure-track, and non-tenure-track faculty self-selected his or her formal affiliation and tenure home (if applicable) with one of the two proposed departments (Fig. 7). Faculty rank distribution summaries for the current and proposed departments are presented in Fig. 8. Within the College of Agriculture and Natural Resources, faculty are assigned appointments relative to the percent of each faculty’s position that is dedicated to teaching, research funded through the Maryland Agricultural Experiment Station (AES), or extension education funded through Maryland Cooperative Extension (MCE). Faculty position appointments are listed in Fig. 7 and summarized for the current and proposed departments in Fig. 9.

Staff Redistribution

Distribution of existing support staff in the Department of Natural Resource Sciences and Landscape Architecture and the Department of Biological Resources Engineering will be conducted with an effort to minimize ongoing program disruption and ensure equity relative to faculty redistribution. Technical research and extension support staff currently funded by and/or assigned to individual research or extension programs will remain with that specific program and “follow” the supervising faculty member to the department of the faculty member’s selection. Administrative support staff members will be reallocated to provide an adequate core of essential service providers that is equitable for both proposed departments.

Required Physical Resources

The reorganization of the current Department of Natural Resource Sciences and Landscape Architecture and the current Department of Biological Resources Engineering into the proposed Department of Plant Sciences and Landscape Architecture and the proposed Department of Environmental Science can be completed successfully by utilizing the physical space and facilities resources presently dedicated to the existing departments. No new physical resources are needed.

Resource Needs and Sources

There are no net increases or decreases in financial resources necessary to facilitate the proposed restructuring and establishment of the Department of Environmental Science. However, redistribution of funds within the College of Agriculture and Natural Resources will be necessary. The data presented in Figure 10 are preliminary estimates of how financial resources will be redistributed between the two proposed departments. A faculty transition steering team will complete the task of line-by-line budget redistribution by June 1, 2006. The following describes the rubric that will be used by the transition steering team to complete this process. Current budget resources supporting faculty lines and staff lines allocated to the Department of Natural Resource Sciences and Landscape Architecture will be redistributed according to faculty and staff placement in the two proposed departments (Figure 10). Extramural grant and contract funds will reside in the department of the principal investigator’s affiliation. Graduate student assistantship funds will be allocated according to current enrollment, department faculty hiring commitments, teaching and course commitments, and the departmental destination of the two graduate program concentrations (Figure 10). Operating funds and labor and assistance (L&A)
funds will be distributed in proportion to faculty distribution between the two proposed
departments (Figure 10). All programs and faculty currently in the Department of Biological
Resources Engineering that will remain in the College of Agriculture and Natural Resources will
become part of the proposed Department of Environmental Science. Therefore, all College
budget resources allocated to the Department of Biological Resources Engineering will be
transferred to the Department of Environmental Science.

Projected Outcomes

This plan outlines a strategy for creating a Department of Environmental Science that has
the potential to be one of the top ten environmental science departments in the country, if not the
world. The vision for the proposed Department of Environmental Sciences is to become widely
known and respected for research, teaching, extension education, outreach to citizens in four
areas of excellence: Ecosystem Science and Management, Environmental Soil Science,
Ecological Design and Technology, and Environmental Health. The proposed Department of
Environmental Science initially will be a relatively small and focused platform from which to
launch multi-disciplinary, multi-department, multi-college, multi-university, and multi-agency
initiatives that address broad and complex environmental challenges. This is a timely opportunity
for the University of Maryland. By focusing and coordinating environmental science programs
in this proposed department, the visibility and reputation of environmental science research,
teaching, and extension education at the University of Maryland will increase dramatically.
While this transition cannot happen overnight, within a 5-year period the Department of
Environmental Science promises to be a formidable force in the environmental arena.
Figure 1. Programmatic structure of the proposed Department of Environmental Science with areas of excellence in soil and watershed sciences, ecosystems science and management, ecological design and technology, and environmental health and example focus areas.
Figure 2. Administrative organizational structure of the proposed Department of Environmental Science.
Current Undergraduate Programs

- Department: Biological Resources Engineering
  - Major: Biological Resources Engineering (BS)
  - [moving to Clark School of Engineering, 2006]
  - Major: Natural Resources Management (BS)
  - Major: Environmental Science and Policy (BS)
    - Concentration: Environmental Restoration and Management

- Department: Natural Res. Sci. & Landscape Architecture
  - Major: Agricultural Science and Technology (BS)
  - Major: Landscape Architecture (BLA)
  - Major: Natural Resource Sciences (BS)
    - Concentration: Conservation of Soil, Water and Environment
    - Concentration: Horticulture and Crop Production
    - Concentration: Landscape Management
    - Concentration: Plant Science
    - Concentration: Turf and Golf Course Management
    - Concentration: Urban Forestry
  - Major: Environmental Science and Policy (BS)
    - Concentration: Environment and Agriculture
    - Concentration: Soil, Water and Land Resources

Proposed Undergraduate Programs

- Department: Environmental Science
  - Major: Natural Resource Sciences (BS)
    - Concentration: Conservation of Soil, Water and Environment
  - Major: Natural Resources Management (BS)
  - Major: Environmental Science and Policy (BS)
    - Concentration: Soil, Water and Land Resources
    - Concentration: Environmental Restoration and Management

- Department: Plant Sciences and Landscape Architecture
  - Major: Agricultural Science & Technology (BS)
  - Major: Landscape Architecture (BLA)
  - Major: Natural Resource Sciences (BS)
    - Concentration: Horticulture and Crop Production
    - Concentration: Landscape Management
    - Concentration: Plant Science
    - Concentration: Turf and Golf Course Management
    - Concentration: Urban Forestry
  - Major: Environmental Science and Policy (BS)
    - Concentration: Environment and Agriculture
Fig. 4. Undergraduate student numbers in the Departments of Natural Resource Sciences & Landscape Architecture and Biological Resources Engineering and the reallocation of those students to the proposed Department of Plant Sciences & Landscape Architecture and the proposed Department of Environmental Science.

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<th>Dep. of Natural Resource Sciences &amp; Landscape Architecture (NRSL)</th>
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<th># students</th>
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<td>Major Landscape Architecture (BLA)</td>
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<td>Major Natural Resource Sciences (BS)</td>
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<tr>
<td>Concentration Conservation of Soil, Water and Environment</td>
<td>8</td>
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<td>9</td>
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<tr>
<td>Concentration Horticulture and Crop Production</td>
<td>9</td>
<td>10</td>
<td>10</td>
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<tr>
<td>Concentration Landscape Management</td>
<td>48</td>
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<td>58</td>
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<tr>
<td>Concentration Plant Science</td>
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<td>8</td>
<td>11</td>
<td>9</td>
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<tr>
<td>Concentration Turf and Golf Course Management</td>
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<tr>
<td>Concentration Urban Forestry</td>
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<tr>
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<tr>
<td>Concentration Environment and Agriculture</td>
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<td>1</td>
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<tr>
<td>Concentration Soil, Water and Land Resources</td>
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Figure 4 (continued). Undergraduate student numbers in the Departments of Natural Resource Sciences & Landscape Architecture and Biological Resources Engineering and the reallocation of those students to the proposed Department of Plant Sciences & Landscape Architecture and the proposed Department of Environmental Science.

<table>
<thead>
<tr>
<th>Proposed Undergraduate Programs</th>
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<th>Spring 2005</th>
<th>Fall 2005</th>
<th>Spring 2006</th>
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<tbody>
<tr>
<td><strong>Department of Environmental Science (ENVS)</strong></td>
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<td># students</td>
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<td># students</td>
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<td>9</td>
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<tr>
<td>Concentration</td>
<td>Conservation of Soil, Water and Environment</td>
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<td>8</td>
<td>9</td>
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<tr>
<td>Major</td>
<td>Natural Resources Management (BS)</td>
<td>16</td>
<td>16</td>
<td>17</td>
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<tr>
<td>Major</td>
<td>Environmental Science and Policy (BS)</td>
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<td>11</td>
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</tr>
<tr>
<td>Concentration</td>
<td>Soil, Water and Land Resources</td>
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<td>11</td>
<td>11</td>
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<tr>
<td>Concentration</td>
<td>Environmental Restoration and Management</td>
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<td>6</td>
<td>7</td>
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<td><strong>ENVS Total</strong></td>
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<td>46</td>
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<table>
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<th># students</th>
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<td>7</td>
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<td>Major</td>
<td>Landscape Architecture (BLA)</td>
<td>48</td>
<td>53</td>
<td>41</td>
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<tr>
<td>Major</td>
<td>Natural Resource Sciences (BS)</td>
<td>9</td>
<td>10</td>
<td>10</td>
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<tr>
<td>Concentration</td>
<td>Horticulture and Crop Production</td>
<td>9</td>
<td>10</td>
<td>10</td>
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<tr>
<td>Concentration</td>
<td>Landscape Management</td>
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<td>45</td>
<td>58</td>
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<tr>
<td>Concentration</td>
<td>Plant Science</td>
<td>6</td>
<td>8</td>
<td>11</td>
</tr>
<tr>
<td>Concentration</td>
<td>Turf and Golf Course Management</td>
<td>20</td>
<td>19</td>
<td>17</td>
</tr>
<tr>
<td>Concentration</td>
<td>Urban Forestry</td>
<td>3</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Major</td>
<td>Environmental Science and Policy (BS)</td>
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<td>1</td>
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<td><strong>PSLA Total</strong></td>
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<td>147</td>
<td>145</td>
<td>140</td>
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</table>
Figure 5. Current graduate programs in the Departments of Natural Resource Sciences & Landscape Architecture and Biological Resources Engineering and the reallocation of current graduate programs to the proposed Department of Plant Sciences & Landscape Architecture and the Department of Environmental Science.

**Existing Graduate Programs**
- Department of Natural Resource Sciences & Landscape Architecture
  - Natural Resource Sciences (MS, PhD)
    - Plant Science
    - Soil Science
- Department of Biological Resources Engineering
  - Biological Resources Engineering (MS, PhD)
    [moving to Clark School of Engineering, 2006]

**Proposed Reallocation of Graduate Programs**
- Department of Plant Sciences and Landscape Architecture
  - Natural Resource Sciences (MS, PhD)
    - Plant Science
- Department of Environmental Science
  - Natural Resource Sciences (MS, PhD)
    - Soil Science

Figure 6. Graduate student numbers in the Departments of Natural Resource Sciences & Landscape Architecture and Biological Resources Engineering and the proposed Departments of Plant Sciences & Landscape Architecture and the Department of Environmental Science.

### Existing Graduate Programs

<table>
<thead>
<tr>
<th>Department of Biological Resources Engineering</th>
<th># students</th>
<th># students</th>
<th># students</th>
<th># students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Biological Resources Engineering (MS, PhD)</td>
<td>Fall 2003: 43</td>
<td>Fall 2004: 38</td>
<td>Fall 2004: 38</td>
<td>Fall 2005: 40</td>
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<td>[moving to Clark School of Engineering, 2006]</td>
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<td></td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Department of Natural Resource Sciences and Landscape Architecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Natural Resource Sciences (MS, PhD)</td>
</tr>
<tr>
<td>Concentration Plant Science</td>
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<tr>
<td>Concentration Soil Science</td>
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### Proposed Reallocation of Graduate Programs

<table>
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<tr>
<th>Department of Environmental Science</th>
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</thead>
<tbody>
<tr>
<td>Major Natural Resource Sciences (MS, PhD)</td>
</tr>
<tr>
<td>Concentration Soil Science</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Department of Plant Sciences and Landscape Architecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Natural Resource Sciences (MS, PhD)</td>
</tr>
<tr>
<td>Concentration Plant Science</td>
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16
Figure 7. Faculty distribution between the current Department of Natural Resource Sciences and Landscape Architecture and the current Department of Biological Resources Engineering and the proposed Department of Plant Sciences and Landscape Architecture and the proposed Department of Environmental Science.

<table>
<thead>
<tr>
<th>Tenured/Tenure-track Faculty</th>
<th>Faculty Rank</th>
<th>Appointment %T-%R-%E</th>
<th>Current Department</th>
<th>Proposed Department</th>
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<tbody>
<tr>
<td><strong>ENVS</strong></td>
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<td></td>
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<tr>
<td>Baldwin, Andy</td>
<td>Associate Professor</td>
<td>33-34-33</td>
<td>ENBE</td>
<td>ENVS</td>
</tr>
<tr>
<td>Becker, Jennifer</td>
<td>Assistant Professor</td>
<td>0-25-75</td>
<td>ENBE</td>
<td>ENVS</td>
</tr>
<tr>
<td>Coale, Frank</td>
<td>Professor</td>
<td>0-20-80</td>
<td>NRSL</td>
<td>ENVS</td>
</tr>
<tr>
<td>Felton, Gary</td>
<td>Associate Professor</td>
<td>25-0-75</td>
<td>ENBE</td>
<td>ENVS</td>
</tr>
<tr>
<td>Hill, Bob</td>
<td>Professor</td>
<td>25-75-0</td>
<td>NRSL</td>
<td>ENVS</td>
</tr>
<tr>
<td>James, Bruce</td>
<td>Professor</td>
<td>0-50-0</td>
<td>NRSL</td>
<td>ENVS</td>
</tr>
<tr>
<td>Kansas, Pat</td>
<td>Associate Professor</td>
<td>100-0-0</td>
<td>ENBE</td>
<td>ENVS</td>
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<tr>
<td>Miller, Ray</td>
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<td>n/a</td>
<td>NRSL</td>
<td>ENVS</td>
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<tr>
<td>Momen, Bahram</td>
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<td>NRSL</td>
<td>ENVS</td>
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<tr>
<td>Needelman, Brian</td>
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<td>40-60-0</td>
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<td>ENVS</td>
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<td>Rabenhorst, Marty</td>
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<td>Ross, David</td>
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<td>ENVS</td>
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<tr>
<td>Tilley, Dave</td>
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<td>75-25-0</td>
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<td>ENVS</td>
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<tr>
<td>Well, Ray</td>
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<td>ENVS</td>
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<tr>
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<td>ENVS</td>
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<td>ENVS</td>
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<td><strong>Non-tenure-track Faculty</strong></td>
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<tr>
<td>Adams, Lowell</td>
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<tr>
<td>Bouwkamp, John</td>
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<td>PSLA</td>
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<td>PSLA</td>
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<tr>
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<td>NRSL</td>
<td>PSLA</td>
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<td>NRSL</td>
<td>PSLA</td>
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<td>NRSL</td>
<td>PSLA</td>
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<td>PSLA</td>
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<td>PSLA</td>
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<td>PSLA</td>
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<td>PSLA</td>
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<td>PSLA</td>
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<td>PSLA</td>
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<td>PSLA</td>
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<td>PSLA</td>
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<td>NRSL</td>
<td>PSLA</td>
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<td>NRSL</td>
<td>PSLA</td>
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<td>NRSL</td>
<td>PSLA</td>
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<td>PSLA</td>
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<td>NRSL</td>
<td>PSLA</td>
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<td>PSLA</td>
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<tr>
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<td>NRSL</td>
<td>PSLA</td>
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<td>Assistant Director</td>
<td>100-0-0</td>
<td>NRSL</td>
<td>PSLA</td>
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</table>
Figure 8. Faculty rank distribution between the current Department of Natural Resource Sciences and Landscape Architecture and the current Department of Biological Resources Engineering and the proposed Department of Plant Sciences and Landscape Architecture and the proposed Department of Environmental Science.

<table>
<thead>
<tr>
<th>Faculty Rank</th>
<th>ENBE</th>
<th>NRSL</th>
<th>ENVS</th>
<th>PSLA</th>
<th>Total</th>
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<tr>
<td>Assistant Professors</td>
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<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Associate Professors</td>
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<td>3</td>
<td>16</td>
<td>40</td>
</tr>
<tr>
<td>Professors</td>
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<td>15</td>
<td>9</td>
<td>8</td>
<td>30</td>
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<tr>
<td>Non-tenure-track Faculty</td>
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<td>2</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>8</td>
<td>40</td>
<td>18</td>
<td>30</td>
<td>106</td>
</tr>
</tbody>
</table>

ENBE = Biological Resources Engineering  
ENVS = Environmental Science  
NRSL = Natural Resource Sciences & Landscape Architecture  
PSLA = Plant Sciences & Landscape Architecture
Figure 9. Faculty appointment distribution between the current Department of Natural Resource Sciences and Landscape Architecture and the current Department of Biological Resources Engineering and the proposed Department of Plant Sciences and Landscape Architecture and the proposed Department of Environmental Science.

<table>
<thead>
<tr>
<th></th>
<th>% Teaching (Instruction)</th>
<th>% Research (AES)</th>
<th>% Extension (MCE)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current Departments</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>ENBE</td>
<td>2.96</td>
<td>1.24</td>
<td>2.83</td>
<td>7.03</td>
</tr>
<tr>
<td>NRSL</td>
<td>13.34</td>
<td>13.59</td>
<td>8.48</td>
<td>35.41</td>
</tr>
<tr>
<td><strong>Proposed Departments</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>ENVS</td>
<td>5.73</td>
<td>4.68</td>
<td>5.12</td>
<td>15.53</td>
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<tr>
<td>PSLA</td>
<td>10.57</td>
<td>10.15</td>
<td>6.19</td>
<td>26.91</td>
</tr>
</tbody>
</table>

ENBE = Biological Resources Engineering  
ENVS = Environmental Science  
NRSL = Natural Resource Sciences & Landscape Architecture  
PSLA = Plant Sciences & Landscape Architecture
Figure 10. Preliminary estimate of budget distribution between the current Department of Biological Resources Engineering and the current Department of Natural Resource Sciences and Landscape Architecture and the proposed Department of Environmental Science and the proposed Department of Plant Science and Landscape Architecture.

<table>
<thead>
<tr>
<th></th>
<th>Current ENBE</th>
<th>Current NRSL</th>
<th>Proposed ENVS</th>
<th>Proposed PSLA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty lines salary</td>
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<td>3,326,547</td>
<td>1,760,222</td>
<td>2,445,919</td>
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<tr>
<td>Staff lines salary</td>
<td>345,856</td>
<td>942,193</td>
<td>497,333</td>
<td>790,716</td>
</tr>
<tr>
<td>TA&amp;RA lines salary</td>
<td>79,240</td>
<td>370,876</td>
<td>171,959</td>
<td>278,157</td>
</tr>
<tr>
<td>L &amp; A funds</td>
<td>26,752</td>
<td>55,610</td>
<td>40,655</td>
<td>41,708</td>
</tr>
<tr>
<td>Operating funds</td>
<td>126,098</td>
<td>292,813</td>
<td>199,301</td>
<td>219,610</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,457,540</strong></td>
<td><strong>4,988,039</strong></td>
<td><strong>2,669,470</strong></td>
<td><strong>3,776,109</strong></td>
</tr>
</tbody>
</table>

Salary % of total

|          | 92 | 94 | 93 | 94 |

ENBE = Biological Resources Engineering  
NRSL = Natural Resource Sciences and Landscape Architecture  
ENVS = Environmental Science  
PSLA = Plant Science and Landscape Architecture
March 22, 2006

Dr. Cheng-I Wei  
Dean, College of Agriculture and Natural Resources  
Campus

Dear Cheng-I,

I am writing to support the establishment of two new departments in the College of Agriculture and Natural Resources: Department of Environmental Science and Department of Plant Science and Landscape Architecture. We have significant activities in environmental engineering in our Department of Civil and Environmental Engineering and hope to coordinate our efforts and collaborate with the new Department of Environmental Science.

I wish you success in reorganizing your college.

Sincerely,

Nariman Farvardin  
Professor and Dean  
Clark School of Engineering
Subject: Re: [Fwd: Draft Description of Proposed AGNR Departmental Changes]
From: Steve Halperin <shalper@deans.umd.edu>
Date: Tue, 04 Apr 2006 16:52:47 -0400
To: Steve Halperin <shalper@deans.umd.edu>, lslaugh@umd.edu
CC: cmps-ac <cmps-ac@umd.edu>

Dear Cheng-I,

I am writing to confirm the support of CMPS for the proposal to rename your Departments. This is with the understanding, confirmed yesterday by the Provost, that the name "Department of Environmental Science" will not be interpreted as assigning an exclusive right to this department or your college to offer courses and/or programs in environmental science.

steve

Steve Halperin wrote:

This is backup for the AGNR reorg about which I just emailed.

steve

-------- Original Message --------
Subject: Draft Description of Proposed AGNR Departmental Changes
Date: Wed, 22 Mar 2006 13:16:53 -0500
From: Leon Slaughter <lslaugh@umd.edu>
To: Norma M. Allewell <allewell@umd.edu>, Nariman Farvardin <farvar@umd.edu>, Stephen Halperin <shalper@umd.edu>, Edward B. Montgomery <montgome@umd.edu>, Robert S. Gold <rsgold@umd.edu>

Attached you will find a bullet draft description of the proposed reorganization of the two AGNR departments.
Leon

--

Steve Halperin
Dean
Computer, Mathematical, and Physical Sciences
University of Maryland
Leon,

The NRSL faculty vote for the PSLA proposal was: 28 in favor, 0 opposed
The NRSL faculty vote for the ENVS proposal was: 28 in favor, 0 opposed.
If you need anything further, please advise.

Stephanie

-----Original Message-----
From: Leon Slaughter [mailto:lslaugh@umd.edu]
Sent: Monday, April 10, 2006 3:08 PM
To: Stephanie Bergwall
Subject: Re: PCC action

Thanske Stephanie. I have been in contact with both Bill and Andy. I think everybody is on the same page (no pun intended). Leon

Stephanie Bergwall wrote:

All,

I have incorporated all the changes into the ENVS proposal, and am attaching
the final proposal, as it now stands. I have given the hard copies of these
changes to Sheila already, but wanted to provide the electronic version as well. This version does not include the items requested below.

Leon, you need an executive summary in the form of a cover letter, giving a brief overview of the proposal? And you need the vote count in the form of an e-mail, addressed to you?

Please let me know if there are any additional changes or clarifications.

Stephanie

-----Original Message-----
From: Leon Slaughter [mailto:lslaugh@umd.edu]
Sent: Monday, April 10, 2006 11:25 AM
To: Frank Coale; Andrew Baldwin; Bill Kenworthy
Cc: Howard Leathers; Leon H. Slaughter; Sheila Brown; Stephanie Bergwall
Subject: PCC action

Andy, Bill, and Frank,

The ENBE and NRSL proposal were both approved by College PCC today with a request for additional information. Each proposal should include a cover letter/executive summary describing the contents; email from Frank and Andy describing the outcome of faculty vote on the two proposals. Send hard copy of these additions to Sheila for insertion into the original documents. Electronic copies should be sent to campus not later than the 12th (Phyllis Peres). If these are to make the Senate this needs to be asap. Senate meets friday March 14.
RE: PCC action

Andy has agreed to write the summary for ENBE. I suspect that if Frank is not here today that Bill will write the Summary for NRSL. In either case we need it asap.

Leon

--
Leon Slaughter
Associate Dean for Academic Programs
College of Agriculture and Natural Resources
1104 Symons Hall
University of Maryland
College Park, Maryland 20742
Phone: 301.405.2078
Fax: 301.314.9146
email: lslaugh@umd.edu
Subject: ENBE Vote on ENVS package
From: Andrew Baldwin <baldwin@umd.edu>
Date: Mon, 10 Apr 2006 09:59:07 -0400
To: Leon Slaughter <lslaugh@umd.edu>
CC: Frank Coale <fjcoale@umd.edu>

Dear Leon:

The ENBE faculty that are not moving to engineering voted and approved by majority vote the proposal to rename ENBE to ENVS. These faculty are Baldwin, Becker, Adams, Kangas, Tilley, Ross, Wheaton, and Felton. This vote was separate from a vote by NRSLA faculty because in order for this to move forward, BOTH departments needed to separately approve the proposal by majority vote.

With best wishes,
Andy

--
Andrew H. Baldwin, Ph.D.
Acting Chair
Dept. of Biological Resources Engineering
1439 Animal Science Bldg.
University of Maryland
College Park, MD 20742

Tel: 301-405-7855
Fax: 301-314-9023
email: baldwin@umd.edu
Web: http://www.bre.umd.edu/baldwin.htm
April 12, 2006

Dr. Cheng-I Wei, Dean
College of Agriculture and Natural Resources
1296 Symons Hall
CAMPUS

Dear Dr. Wei:

This letter is being written in support of the establishment of two new departments within the College of Agriculture and Natural Resources. It is my understanding that they will be the Department of Environmental Science and the Department of Plant Science and Landscape Architecture. As you know, this college is in the process of creating a School of Public Health. A number of departments and institutes in that school would create opportunities for significant collaboration and we look forward to that prospect.

I wish you success in the upcoming reorganization of your college.

Sincerely,

Robert S. Gould, Ph.D., Dr.P.H., FAAHB
Professor and Dean
College of Health and Human Performance