The Faculty Senate will meet on Friday, December 8, 2006, at 2:10 p.m. in the Alumni House, First Floor, 1925 F Street, N.W.

AGENDA

1. Call to order

2. Approval of the minutes of the regular meeting of November 10, 2006, as distributed

3. Resolutions

A RESOLUTION ON CONSTRUCTION OF NEW ACADEMIC FACILITIES (06/4): Professor Linda L. Gallo, Chair, Physical Facilities Committee

4. Introduction of Resolutions

5. Report on the GW Law School: Dean Frederick M. Lawrence

6. General Business:

   (a) Nominations for election to Senate Standing Committees:
       Educational Policy: Professor R. Emmet Kennedy

   (b) Nominations for appointment by the President to the following
       Administrative Committee: Joint Committee of Faculty and Students:
       Professor Harry E. Yeide

   (c) Interim Reports of Standing Committee Chairs

   (d) Report of the Executive Committee

7. Brief Statements (and Questions)

8. Adjournment

Elizabeth A. Amundson
Elizabeth A. Amundson
Secretary

Attachment
A RESOLUTION ON CONSTRUCTION OF NEW ACADEMIC FACILITIES (06/4)

WHEREAS, investment in new academic facilities and programming is an investment in the future of students and faculty advancing the Institution’s Strategic Goals for Academic Excellence, enhancing connections to external partners, improving the Institution’s ability to compete with peer institutions, attracting benefactors, and expanding the endowment, and;

WHEREAS, the Administration recognizes the opportunities created by investment in new academic facilities and, consistent with this recognition, has identified four schools (SEAS, SPHHS, GSEHD, Law) and two centers (Science, Cancer) in need of new/expanded academic space, and;

WHEREAS, the approval of a new campus plan is pending and a Science Center was identified earlier by the faculty as the top priority for investment among future academic projects (Senate Resolution 04/1), it is timely for the faculty to prioritize the programmatic needs for new facilities among the identified Schools and Cancer Center, and;

WHEREAS, the operations of the Institution in the main University and in the Medical Center are budgeted separately, it is appropriate to prioritize separately the need of each for new academic facilities, and;

WHEREAS, the Physical Facilities Committee of the Faculty Senate, charged with studying the programmatic needs of the identified Schools and Cancer Center, has completed this study and concluded that the magnitude of need is greatest in SEAS, followed by SPHHS and GSEHD with no decisive differences between the latter two, and that need in the Law School and Cancer Center is comparatively lesser, and;

WHEREAS, The Council of Deans and the Executive Committee of the Faculty Senate have reviewed both the data available to and the conclusions reached by the Physical Facilities Committee and have expressed confidence in these conclusions, NOW, THEREFORE,

BE IT RESOLVED BY THE FACULTY SENATE OF THE GEORGE WASHINGTON UNIVERSITY:

1. That the Faculty Senate endorses investment in new facilities for SEAS as the priority second to a Science Center among future academic construction projects on the University side of the Institution, and;

2. That GSEHD assumes the priority second to a Science Center among future academic construction projects on the University side of the Institution if SEAS is accommodated in the Science Center as planned, and;

1 present working name is Science and Engineering Complex
3. That SPHHS is the top priority among future academic construction projects on the Medical Center side of the Institution, and;

4. That existing, single use academic space that becomes available as programs transition into the new Science Center will be offered temporarily to GSEHD and SPHHS while these Schools await new facilities, and;

5. That the emphasis of advancement activities for new academic construction on the University side of the Institution should be in support of the Science Center, SEAS, and GSEHD and that the emphasis of advancement activities for new academic facilities on the Medical Center side of the Institution should be in support of the SPHHS.

Physical Facilities Committee
November 27, 2006
1. Selected facts:
   A. #students
   2,200 (1700 G, 500UG)
   968 (782 G, 186UG)
   1752 (grad, half on campus)

   B. #faculty
   90 (75 T/TT, 80 engaged in scholarly activity, 57 with sponsored funding)
   84 (16 T/TT, 68 research, all engaged in scholarly activity, 77% with sponsored funding)

   C. Sponsored funding
   13 million FY '05
   9 million FY '05
   16.5 million FY '05 (among highest $ amt/faculty nationally and 2nd highest $ amt/GW Schools)

   D. National ranking, US News/World Report
   53 overall
   None

2. Space:
   A. Specialized instructional
   (1). What they have
   18,220 sq. ft.-FB
   300 " -MV
   525 sq ft. FB
   16,450 sq ft.-FB
   0 " -MV
   19,800 sq. ft. of flexible space with collapsible walls
   0 " -VA
   ~650 " VA (includes 2 classrooms)

   (2). What they need
   33,000 sq. ft. -FB (most critical need is specialized lab space particularly for team projects)
   No sq. ft. estimate, greatest needs include environmental health lab (EOH), increased computer lab space (EB), new physical activity facility and motion analysis space (ES), video conferencing space (HSML, GH), marketing labs (PCH).

   (3). Why the need
   A. Limitations to existing courses
   CS has limited lab space for hands on instruction. 20% of courses / 200 students limited. Need desks in clean, safe, and comfortable setting.
   CEE 189, Enviorn Eng Lab limits # students/section to 8. Discourages interested students in the fastest growing area in CEE.
   Need wireless internet access, networking capacities, screens and projectors. No computer lab for students.

   B. Limitations to existing courses
   MAE and CEE heavy lab space severely lacking, materials and hydraulics lab space shared by two depts., 30-40% of both dept's. courses
   Add daytime public health-related activities and grand rounds.

   An example of limitations is seen in the inability to grow the counseling programs e.g., the School Counseling Program and the Community Counseling Program--no space for adjuncts, no space for labs, no space for more students. Need specialized equipment for videotaping and reviewing. In the Rehabilitation Counseling Program and Special Education Programs, it is impossible to access and model best practices. Many students in these programs have disabilities (2129 G St inaccessible, 2136 G St difficult to access). These limitations affect every student in all 3 M.S. counseling programs as every student must have 60 hrs of lab experience.
impacted.

MAE instructional instrumentation and controls lab equipment is 20 years out-dated.

ECE has shortage of biomed eng labs, limits growth of this fastest growing program. Affects 30-50 students / yr.

Inadequate project work space for collaborative course projects, senior design projects, and national competition projects. Space in hall- ways, a non-climate controlled shed, and school parking lot used.

B. New courses to be added with new space/ equipment. Benefits.

CS and EMSE would add labs for both CSIA and Knowledge and Information Security Mgt. These areas are of increasing importance to our technological society, draw interest from local and national companies and from students at all levels. Benefits 25-50 students /yr. Benefit SEAS and SB.

MAE would add UG course in mechatronics, grad course in electromechanical control, and advanced course in control theory. These courses would advance areas of strategic importance to the dept. Benefit 20-40 students/ yr. Benefit CCAS (Physics, Chemistry), SMHS.

Offer daytime courses to UG majors and grad. students in public health. Benefits 250 day students. Benefit CCAS.

Add courses in women’s health policy
Add courses to overlap medical (med and allied health students) and public health interests.
Add capstone course for Community Leadership Program plus courses that cover history, mgmt. theory and financing of community health ctrs.
Add new courses for environmental health risk science program e.g., Introd to Risk Assessment, Toxicology in Risk Assessment, Introd to Risk Communication, Risk and Cost Benefit Analysis.
Add courses in the design, mgmt, and operation of public health labs for UG and grad students.

C. New programs dependent on space/ equipment. Benefits.

MAE would add biometrics and bioinspired eng. Student increase of 25.(at all levels). Benefit CCAS (biol. sci) MAE would modernize instrumentation and controls lab/ introduce a credible mechatronics element to undergrad program.

Add a day program in public health.
Add a specialized program in women’s health policy (a co-venture with Jacob’s Institute for Women’s Health). Benefits Public Policy.

Initiate a Visitor’s Scholar Program in global health and extend in time to all SPHHS depts. Need offices and one classroom/dept. Scholars will

Add new dual degree programs (4+1) in foreign language, math, science. Benefit SEAS, CCAS and add 20-25 new students/ program.

Grow existing masters programs e.g., Counseling, International Ed., Higher Ed Adm. Add 20-25 students/program.

Programs in secondary math, science, English,
25. CS would expand computer security and information assurance program-needs hands on lab. Student increase of 25. CS would expand biomedical computing lab facilities. Benefits SMHS.

ECE would grow the high performance computing program-requires specialized lab space and equipment. Benefits other SEAS depts and CCAS (biol. sci., physics). ECE would develop a micro and nanotechnology integration program-requires equipment/lab space. Student increase of 25.

CS, ECE, MAE have the faculty to develop a powerful program in micro and nanotechnology.

teach. Benefits ESIA.

Launch an Environmental Health Risk Assessment Program to assess/evaluate environmental risk hazards.

Establish with Assoc. of Public Health Labs a site to train public health lab workers worldwide.

Expand exercise science programs with new research into geriatric physical activity.

Develop a leadership training program between SPHHS depts. of health services mgt. and leadership and health policy with the National Assoc. of Community Health Ctrs. Need dual conference/classroom space.

Design/launch a School of Allied Health Professions in United Arab Emirates. Need classroom space to house UAE students/faculty.

House new National Commission on America's Health. Benefits SB and ESIA.

Provide home for Global Health Institute. Benefits ESIA.

(not possible to estimate # of students attracted to above programs)

B. General purpose classroom

(1). What they have

<table>
<thead>
<tr>
<th></th>
<th>sq. ft. not given</th>
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<tbody>
<tr>
<td>27 classrooms used</td>
<td></td>
</tr>
<tr>
<td>3 TH (15-25)</td>
<td></td>
</tr>
<tr>
<td>13 1776 G (10-25)</td>
<td>rented</td>
</tr>
<tr>
<td>11 VA Campus, only grad classes</td>
<td></td>
</tr>
</tbody>
</table>

28,750 sq. ft. -FB (2,750 sq. ft. rented)

(2). What they need

<table>
<thead>
<tr>
<th></th>
<th>sq. ft. estimated</th>
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<tbody>
<tr>
<td>11,000 sq. ft. (FB)</td>
<td></td>
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</table>

No sq. ft. estimate given. Need includes one large (200) classroom + 6 small (30-35) rooms + small group space.

19,800 sq. ft. of flexible space for general classroom and specialized use.

C. Research

(1). What they have

<table>
<thead>
<tr>
<th></th>
<th>sq. ft. estimated</th>
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<tbody>
<tr>
<td>23,160 sq. ft. (FB), estimated (research and instructional lab space)</td>
<td></td>
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</table>

No sq. ft. estimate given, but have a level of sponsored research to support 18,000

0 sq. ft. in GSEHD space.
2. What they need

<table>
<thead>
<tr>
<th>sq. ft.</th>
<th>No estimate</th>
<th>No estimate</th>
</tr>
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</table>

3. Impact

<table>
<thead>
<tr>
<th>sq. ft.</th>
<th>All current and potential faculty impacted.</th>
<th>All faculty and students impacted. No space/equipment to support research.</th>
</tr>
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</table>

4. Total all purpose need

<table>
<thead>
<tr>
<th>sq. ft.</th>
<th>151,000 sq. ft.</th>
<th>100,000 sq. ft. estimated</th>
<th>80-90,000 sq. ft.</th>
</tr>
</thead>
</table>

3. Student evaluation of space/facilities '05:

<table>
<thead>
<tr>
<th>Poor/fair</th>
<th>Dissatisfied/very dissatisfied</th>
</tr>
</thead>
<tbody>
<tr>
<td>14% (n=148)</td>
<td>76% (n=148)</td>
</tr>
</tbody>
</table>

B. Graduating seniors:

<table>
<thead>
<tr>
<th>Dissatisfied/very dissatisfied with classroom/labs</th>
</tr>
</thead>
<tbody>
<tr>
<td>21% (n=83, 95% response rate)</td>
</tr>
</tbody>
</table>

4. Strategic plan for academic excellence:

A. Plan goals advanced by new school:

<table>
<thead>
<tr>
<th>1,2,3,4,5,6</th>
<th>1,2,3,4,5,6</th>
<th>1,2,3,4,5,6</th>
</tr>
</thead>
</table>

B. Selective signature programs/school:

<table>
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<tr>
<th>None</th>
<th>None</th>
<th>None</th>
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C. Strategic alliances (# of academic, research, service partnerships):

| 201 funded (146 corporate, 55 federal agencies); 84 (51 private/nonprofit corp; 20 gov. agencies; 13 public/private universities) connected with centers, institutes, research labs. | 257 (52 fed, local, internatl gov.; 123 not-for-profit; 21 foundations; 24 corporate; 37 hospitals/health care facilities). Formal written agreements with 99. | 94 funded projects; 58 partnership initiatives; 9 institutes/centers with 35 associated partnership initiatives. |

Overlap
5. Accreditation issues:

- ABET has raised space concerns for some activities e.g., Civil Eng labs devoted to environmental eg, soils materials, hydraulics; computer eng with limited lab and office space.
- Biomedical engineering programmatic space may be an issue for ABET in '07.
- Council on Education noted in '02 that the school's functions were scattered and that students had many facilities complaints i.e., classroom space overcrowded/uncomfortable.
- Lack of adequate space was cited by all the accrediting bodies (CACREP, NCATE, CORE) in both 2000 and '06.
- Commitment to consolidated space essential to '07 review.

6. New revenues expected:

- 200 more undergrads → $4M
- Improve capability for sponsored funding to $30M from $15M
- Tuition revenue from 250 day students (complete degree in two rather than 4 years, expect breakeven point for new facility at end of 1st year).
- Save $1M/yr in off-campus rent.
- Increase sponsored research.
- Increase ability to partner with school systems.
- Offer services to community.
- Rent flexible use space to internal and external parties.
- Increase the use of distance and program technology in program delivery.

7. Alternatives to new FB faculty?

A. VA campus
- Undergrad education (computer security field) cannot be supported on VA campus.
- Expect externally funded projects to be equally located on two campuses.
- Not a viable space alternative (need to be close to SMHS).
- VA campus space used to house three off campus programs. The VA campus is not a viable option for housing on campus programs due to need for proximity to D.C.

B. FB (occupy vacated space)
- currently lease ~18,000 sq. ft.
- currently lease ~ 41,500 sq. ft.
- currently lease ~23,600 sq. ft.

8. Facilities of competitors:

- competitors have better facilities

9. Projected need for graduates:

- Great need nationally and internationally e.g., mech eng has 2nd largest # openings for B.S. grads; computer science openings to increase 40-50% between 2004-2014; companies seeking grad education for technical employees.
- Severe shortage of workers nationally and internationally due to current events e.g., anthrax threats, Katrina, expected flu pandemic, exploding diseases (obesity, diabetes, HIV/AIDS, TB, malaria), uninsured families, medical errors. Half of federal
- Projected need for 2M new teachers nationally and 16 M internationally in next 5-10 years. Forty percent of public school teachers expected to exit within 5 yrs. Education administrator need expected to increase 9-17% through 2014; counselor need expected to
public health forces eligible to retire, up to 20% of state public health jobs vacant and 80% salaried public health workers without specific training. increase 27% or more through 2014. There is increased need for international educators. Market potential unlimited.
A RESOLUTION ON CONSTRUCTION OF NEW SCIENCE FACILITIES AS THE TOP PRIORITY AMONG NEW ACADEMIC STRUCTURES (04/1)

WHEREAS, science and technology have a critical impact on all life, and;

WHEREAS, investment in science facilities and science programming is an investment in the future of students, of the Institution, and of society, because it creates the opportunity for:

- strengthening teaching and learning at the undergraduate and graduate levels;
- increasing the enrollment and retention of talented science majors, in general, and diversity among science majors, in particular;
- attracting and retaining accomplished undergraduate students, whatever their major;
- increasing the number of non-science majors who enroll in science courses;
- bringing to students a command of the tools of focused inquiry, mentored discovery-based learning, collaborative problem-solving, writing, quantitative and informational literacy, and information exchange essential for work and lifelong learning;
- improving post-graduate outcomes in graduate/professional school acceptances and job placements;
- recruiting and retaining outstanding faculty;
- attracting exceptional graduate students and postdoctoral researchers in the sciences;
- improving professional placement of doctoral graduates;
- enabling collaborations and emerging interdisciplinary interactions in teaching and research;
- increasing research involvement and productivity for students and faculty;
- increasing competitiveness for external grants for such purposes as research, curriculum and faculty development, and instrumentation;
- enhancing connections to area external partners, e.g., the NIH, the Smithsonian; The Institute for Genome Research, the Goddard Space Flight Center, the Children’s National Medical Center, the Naval Research Lab, and National Institute for Standards and Technology;
- expanding technology infrastructure through state-of-the-art laboratories and general purpose classrooms;
- affecting the University community in a positive manner with respect to morale, inspiration, involvement, collegiality, cooperation, and social interaction;
- attracting benefactors, engaging alumni, and expanding the endowment; and;
WHEREAS, an investment in science facilities and science programming advances the Institution’s Strategic Plan for Academic Excellence by creating the opportunity for:

- delivering engaged and consequential undergraduate education;
- becoming a tier-one research institution;
- promoting quality, highly visible, revenue-generating graduate education;
- recruiting and retaining a diverse, nationally and internationally known, faculty producing increased research;
- leveraging the D.C. environment to deliver a world-class education;
- integrating research and teaching to solve problems in the urban environment;
- fostering a sense of community through a unified approach to science, and;

WHEREAS, understanding the draw of science and the revolution that is occurring within it, local universities, competing universities, aspirant universities, and schools of lesser status have constructed or committed to construct new science facilities, and;

WHEREAS, new science facilities will benefit other Schools, other CCAS disciplines and disciplines within the Schools that depend on excellence in the basic sciences both in academics and research, by providing the opportunity for:

- access to additional technology-enabled general use classrooms;
- flexible arrangements to accommodate the changing landscape of science;
- greater integration of mathematics, statistics, and computational sciences with other disciplines across the University, and;
- enhanced opportunities for cross-disciplinary collaborations, and;

WHEREAS, the construction of new science facilities and the accompanying benefits would have such a major immediate and future impact on the Institution, that funding by revenues generated by individual gifts, capital campaigns, indirect cost recovery, reallocation of funds, and new revenues (e.g., financial value derived from the old hospital site, tuition-generating programs and certificates) is justified, and;

WHEREAS, the quality and quantity of existing science facilities and science programming deprive the students, the Institution, and society of the full-benefits cited above and thus, undermine the effort of the Institution to achieve the goals stated in the Strategic Plan for Academic Excellence, NOW, THEREFORE,

BE IT RESOLVED BY THE FACULTY SENATE OF THE GEORGE WASHINGTON UNIVERSITY:

(1) That the Faculty Senate endorses the investment in new science facilities that accommodate the physical, life, and mathematical sciences, and science programming, and science–related engineering programs ming as the top priority among future academic projects; and

(2) That the new science facilities will be defined with respect to size, site, use (school-wide, university-wide) and program goals through a careful collaborative planning process that includes science and non-science faculty, academic deans, campus planners and architects, advancement staff, and budget officers.

Adopted, as amended, May 7, 2004