Space Needs Assessment Committee

March 31, 2004
Appointees to SNAC by the Provost and Council of Academic Deans

Ethan Seltzer, Committee Chair
Director, School of Urban Studies and Planning

Duncan Carter
Associate Dean, College of Liberal Arts and Sciences

Mike Driscoll
Vice Provost, Academic Personnel & Budget, Office of Academic Affairs (OAA)

Ron Geason
Finance Director - College of Engineering & Computer Science

Darrell Grant
Asst. Professor Jazz Studies, Music Department

Bill Greenfield
Chair, Department of Educational Policy, Foundations, and Administrative Studies

Maureen O'Connor
Professor, School of Business Administration

Tom Pfingsten
Director, Millar Library

Glen Sedivy
Asst. Dean of Administration and Summer Session, Extended Studies

Lisa Vuksich
Executive Asst to the Dean, Graduate School of Social Work

Staff to the Committee:
Burt Ewart
Manager of Campus Design and Planning, Facilities and Planning

Mark Wubbold
Research Assistant, Finance & Administration
The Charge to the Committee

Assess current space issues, including

• Space currently used inefficiently
• Space that is needed to optimize the learning environment
• Issues regarding inappropriate use and arrangement of spaces
• Opportunities for research lost for lack of suitable space

Project space needs based on enrollment growth:

• General undergraduate population growth
• How growth patterns are affected by out-of-state/country students vs. local students
• Effect of providing more student housing on campus
• Interrelationship between programs when growth in one field is disproportionately higher than other fields.

Discover and disseminate ideas, concerns and priorities of the Campus Community

Prepare report to the Executive Committee and the Council of Academic Deans suggesting policies regarding growth
The Committee was asked to consider the space needs of the campus in the following areas:

- **Instructional** (classrooms, laboratories, etc.)
- **Research**
- **Administrative/Office**
- **Support** (Student Affairs, Library, and other support functions)
- **Auxiliary Service** (student union, recreation, athletics, housing, parking, food services, open space, etc.)
The Committee decided that an in-depth analysis of departmental growth relationships and changes to the campus climate due to increased on-campus housing and out-of-area students was more detailed than could be appropriately dealt with in the timeframe allotted. Therefore, the SNAC Report broadly addresses:

1) Current Unmet Space needs

2) Space needed to support enrollment of 35,000 students by 2012 (30,000 on the PSU main campus and 5,000 at other sites)

3) Space needed to support externally funded research levels of $50M, $75M and $100M annually.
Background material initially provided:

The Charge to the Committee

1) Current Space Inventory for Each Academic Unit

2) Excerpts from Final Report of the Budget and Priorities Committee

3) Excerpts from Vision, Values and Priorities and White Paper (Budget and Priorities Committee)
Methodology

• Each Committee Member was charged with ascertaining the space needs of his/her Academic Unit.

• Committee members to determine how the lack of adequate or appropriate space affects the ability of PSU and each unit to meet enrollment targets, curricular goals, research objectives and community services needs.

• Committee staff, Mark Wubbold and Burt Ewart, met with members and others to draw out information and confirm initial reports.
Data came back in a variety of formats and levels of detail

From formal numerical matrices

To formal anecdotal analyses

CUPA Space Needs
October 6, 2003

The needs of the College of Urban and Public Affairs can be divided into three main categories:

1) Classrooms – Units within the College report that there is an immediate need for more high tech classrooms of all sizes, but particularly for 75-100 students and 100-165 students. Due to the nature of the material presented in classes in the College, it will be essential to equip all classrooms with up-to-date presentation equipment linked to the University’s network. We estimate that to simply meet known and upcoming needs 5-7 rooms able to hold 75-100 students, and 3-5 for 100-165 are needed in the near future. In addition, CUPA units need more teaching labs equipped with computer stations for every student. We currently have one such facility with 12 stations, but need, on a regular basis, a teaching lab with between 25 and 35 stations. The current inventory of high tech classrooms and labs is inadequate to meet existing needs. Without additions to that inventory, it will be extremely difficult to continue to meet curricular goals and to contribute to the overall growth of the university through increases in enrollment in College programs.

2) Faculty Offices and Graduate Student Space – Some units are reporting a lack of faculty office space. Current unmet needs are approximately 2 – 3 faculty offices. Future enrollment growth will ultimately put even greater pressure on our supply of faculty office space, including dedicated space for adjuncts. We currently

To informal discussions and emails
Some units even provided proposals for new buildings.

SBA’s Graduate Programs Center idea.
The raw data was reviewed and numerically interpreted using OUS Space Standards, and given back to the Committee for confirmation.

The data was then aggregated to show general areas of demand and trends.
Support Units required special analysis:

Library: Accreditation requires appropriate Library space, and the previous accreditation report questioned the current size of the Library. Various standards exist; by some measures PSU needs to double the size of its collections space, and triple its seating capacity.

Classrooms: Pooled Classrooms at PSU are currently used at 128% of OUS standards. Academic units desire more owned classrooms to accommodate special space and/or scheduling needs, but schedule their classrooms less heavily to allow non-scheduled activities. The SNAC recommendations are to increase both pooled and departmentally controlled classrooms.

Research: The Academic Units were largely unable to forecast future research needs. Based on data collected from the Office of Graduate Studies and Sponsored Research, and using industry standards, Staff prepared the growth projections summarized in the Report.
Support Units required special analysis:

Parking: Parking needs are based on the Transportation Office’s recommendation for parking growth, and are projected to be required incrementally as existing parking facilities are displaced and new demands placed on the current parking inventory.

Housing: While the creation of new student housing opportunities will have a significant impact on the amount and character of the University’s growth, the SNAC committee did not have the resources available to research future housing needs.

Off-Campus Facilities: The Committee limited its study to the PSU downtown campus, as the facilities needed for students enrolled with our community college partners is dependent on the capacity of the various community colleges to accommodate this new initiative. It was assumed that by 2012, 5,000 students of the projected 35,000 enrollment will be accommodated at the community colleges.
## Baseline Assumptions:

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Total Campus Building Area</td>
<td>4,130,000 GSF</td>
</tr>
<tr>
<td>Campus Buildings Less Housing and Leased Space</td>
<td>3,050,000 GSF</td>
</tr>
<tr>
<td>Current Enrollment (Fall 2003 Headcount)</td>
<td>23,117</td>
</tr>
<tr>
<td>Future Student Headcount for Growth Projections</td>
<td>30,000</td>
</tr>
<tr>
<td>Percentage Predicted Growth</td>
<td>30%</td>
</tr>
<tr>
<td>Current Research Expenditures</td>
<td>$31,000,000</td>
</tr>
</tbody>
</table>
## Compilation of Current Space Shortages:

<table>
<thead>
<tr>
<th>Category</th>
<th>GSF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Unit Departmental Office Space</td>
<td>80,000</td>
</tr>
<tr>
<td>Classrooms and Teaching Labs</td>
<td>210,000</td>
</tr>
<tr>
<td>Library and open Computer Labs</td>
<td>160,000</td>
</tr>
<tr>
<td>Administrative Space</td>
<td>10,000</td>
</tr>
<tr>
<td>Student Support Space</td>
<td>30,000</td>
</tr>
<tr>
<td>Parking/Auxiliaries (Not including Housing)</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL CURRENT SPACE NEEDS</strong></td>
<td>490,000</td>
</tr>
<tr>
<td>GSF</td>
<td></td>
</tr>
<tr>
<td>Mitigation by Projects Currently Underway</td>
<td>(160,000)</td>
</tr>
<tr>
<td><strong>NET CURRENT SPACE NEEDS</strong></td>
<td>330,000</td>
</tr>
<tr>
<td>GSF</td>
<td></td>
</tr>
</tbody>
</table>

Percentage Shortfall from Current Space Available: 11%
<table>
<thead>
<tr>
<th>Space Category</th>
<th>Requirements (GSF)</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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<td>0</td>
</tr>
<tr>
<td><strong>TOTAL CURRENT SPACE NEEDS</strong></td>
<td>490,000</td>
</tr>
</tbody>
</table>

- Mitigation by Projects Currently Underway: (160,000)

**NET CURRENT SPACE NEEDS**: 330,000 GSF

**Percentage Shortfall from Current Space Available**: 11%

Compilation of Current Space Shortages:

- **Academic Space Needs**: Or About 1.4 Cramer Halls
  - Cramer Hall = 239,564 GSF

**Or About 1.4 Cramer Halls**
# Findings

## Academic Space Needs

### Future Needs Based on Enrollment Growth:

<table>
<thead>
<tr>
<th>Space Type</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Unit Departmental Space</td>
<td>270,000</td>
</tr>
<tr>
<td>Instructional Space</td>
<td>210,000</td>
</tr>
<tr>
<td>Academic Support Space</td>
<td>325,000</td>
</tr>
<tr>
<td>Administrative Space</td>
<td>15,000</td>
</tr>
<tr>
<td>Student Support Space</td>
<td>250,000</td>
</tr>
<tr>
<td>Parking</td>
<td>160,000</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>1,230,000 GSF</strong></td>
</tr>
</tbody>
</table>

This represents facilities growth of 34% over current inventory.
### Findings

**Academic Space Needs**

**Future Needs Based on Enrollment Growth:**

- **Academic Unit Departmental Space**: 270,000
- **Instructional Space**: 210,000
- **Academic Support Space**: 325,000
- **Administrative Space**: 15,000
- **Student Support Space**: 250,000
- **Parking**: 160,000

**TOTAL**: 1,230,000 GSF

This represents facilities growth of 34% over current inventory or over 5 Cramer Halls.
Future Needs Based on Research Growth (from current $31 M volume):

To Accommodate $50 Million add 110,000 GSF

For Each $25 Million beyond $50 Million, Add 140,000 GSF

Space needs will vary based on intensity of laboratory and other special space used in specific research projects

Based on growth over last 15 years, by 2012, total Research Expenditures at PSU should be approximately $75 Million.
By 2012 we will have 30,000 Students, and will be conducting almost $75 Million in Funded Research. To accommodate this growth PSU will need at least:

<table>
<thead>
<tr>
<th>Description</th>
<th>Area (GSF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Space Needs</td>
<td>490,000 GSF</td>
</tr>
<tr>
<td>Academic and Support Space Due to Enrollment Growth</td>
<td>1,230,000 GSF</td>
</tr>
<tr>
<td>Research Space</td>
<td>250,000 GSF</td>
</tr>
<tr>
<td><strong>Total New Space by 2012</strong></td>
<td>1,970,000 GSF</td>
</tr>
<tr>
<td>Current Campus Floor Area</td>
<td>4,130,000 GSF</td>
</tr>
<tr>
<td><strong>2012 Campus Floor Area</strong> (Not including new Housing, Retail Space or Parking for Housing or Retail)</td>
<td>6,100,000 GSF</td>
</tr>
</tbody>
</table>
By 2012 we will have 30,000 Students, and will be conducting almost $75 Million in Funded Research. To accommodate this growth PSU will need at least:

- **Current Campus Floor Area**: 6,100,000 GSF
- **2012 Campus Floor Area** (Not including new Housing, Retail Space or Parking for Housing or Retail): 6,100,000 GSF
- **250,000 GSF** Research Space
- **1,230,000** GSF Academic and Support Space Due to Enrollment Growth
- **490,000 GSF** Current Space Needs

**Roughly 8 Cramer Halls**
By 2012, PSU will need over 6.1 Million Square Feet

Today, PSU has almost 4.2 Million Square Feet
How does PSU compare to other Urban Universities?

To check our findings, six urban public universities were selected based on similarities to PSU in land area, enrollment and program offerings.
## How does PSU compare to other Urban Universities?

<table>
<thead>
<tr>
<th>Institution</th>
<th>Location</th>
<th>TOTAL STUDENTS</th>
<th>Campus Acreage</th>
<th>Building Floor Areas</th>
<th>Ratio Graduates/Undergraduates</th>
<th>Fall 2000 Student to Faculty Ratio</th>
<th>Total Research Expenditures, 2001 ($1,000)</th>
<th>No Parking Spaces</th>
<th>Students/Parking Space</th>
<th>Housing Capacity</th>
<th>% Students in On-Campus Housing</th>
<th>Campus Building Floor Area per Student</th>
<th>Students per Acre of Campus Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cleveland State University</td>
<td>Cleveland, OH</td>
<td>15,703</td>
<td>85</td>
<td>4,106,000</td>
<td>51%</td>
<td>17.0</td>
<td>12,966</td>
<td>3,000</td>
<td>5.2</td>
<td>240</td>
<td>2%</td>
<td>261</td>
<td>185</td>
</tr>
<tr>
<td>University of Wisconsin</td>
<td>Milwaukee, WI</td>
<td>23,578</td>
<td>100</td>
<td>5,600,000</td>
<td>32%</td>
<td>13.0</td>
<td>23,402</td>
<td>3,000</td>
<td>7.9</td>
<td>2,500</td>
<td>11%</td>
<td>230</td>
<td>236</td>
</tr>
<tr>
<td>San Jose State University</td>
<td>San Jose, CA</td>
<td>24,000</td>
<td>89</td>
<td>5,842,000</td>
<td>23%</td>
<td>18.7</td>
<td>40,200</td>
<td>4,100</td>
<td>5.9</td>
<td>3,379</td>
<td>14%</td>
<td>243</td>
<td>271</td>
</tr>
<tr>
<td>University of Pittsburgh</td>
<td>Pittsburgh, PA</td>
<td>26,710</td>
<td>132</td>
<td>9,775,000</td>
<td>50%</td>
<td>18.0</td>
<td>348,752</td>
<td>4,600</td>
<td>5.8</td>
<td>6,015</td>
<td>23%</td>
<td>366</td>
<td>202</td>
</tr>
<tr>
<td>University of Cincinnati</td>
<td>Cincinnati, OH</td>
<td>27,289</td>
<td>137</td>
<td>7,315,000</td>
<td>38%</td>
<td>18.8</td>
<td>192,855</td>
<td>12,600</td>
<td>2.3</td>
<td>3,600</td>
<td>13%</td>
<td>268</td>
<td>199</td>
</tr>
<tr>
<td>Temple University - Main Campus</td>
<td>Philadelphia, PA</td>
<td>28,355</td>
<td>87</td>
<td>6,604,668</td>
<td>54%</td>
<td>13.9</td>
<td>60,182</td>
<td>3,209</td>
<td>8.8</td>
<td>4,826</td>
<td>17%</td>
<td>233</td>
<td>326</td>
</tr>
<tr>
<td>Portland State University</td>
<td>Portland, OR</td>
<td>23,117</td>
<td>49</td>
<td>4,187,000</td>
<td>38%</td>
<td>18.0</td>
<td>16,838</td>
<td>3,614</td>
<td>6.4</td>
<td>1,396</td>
<td>6%</td>
<td>181</td>
<td>472</td>
</tr>
<tr>
<td>PSU Today, Adding Current Unmet Needs Space</td>
<td>23,117</td>
<td>49</td>
<td>4,677,000</td>
<td>38%</td>
<td>18.0</td>
<td>31,000</td>
<td>3,814</td>
<td>6.1</td>
<td>1,900</td>
<td>8%</td>
<td>202</td>
<td>472</td>
<td></td>
</tr>
<tr>
<td>PSU, with 30,000 Students and Future Needs Projections Added</td>
<td>30,000</td>
<td>55</td>
<td>6,100,000</td>
<td>38%</td>
<td>18.0</td>
<td>75,000</td>
<td>4,036</td>
<td>7.4</td>
<td>3,200</td>
<td>11%</td>
<td>203</td>
<td>545</td>
<td></td>
</tr>
</tbody>
</table>
Comparing Campuses: PSU compared to Similar Urban Universities

Students per Acre of Campus Area

- Cleveland State University
- University of Wisconsin at Milwaukee
- San Jose State University
- University of Pittsburgh
- University of Cincinnati
- Temple University - Main Campus
- Portland State University Today
- PSU Today, Adding Current Unmet Needs Space
- PSU, with 30,000 Students and Future Needs Projections Added
PSU compared to Similar Urban Universities

Campus Building Floor Area per Student

- Cleveland State University
- University of Wisconsin at Milwaukee
- San Jose State University
- University of Pittsburgh
- University of Cincinnati
- Temple University - Main Campus
- Portland State University Today
- PSU Today, Adding Current Unmet Needs Space
- PSU, with 30,000 Students and Future Needs Projections Added
1. Solve the Current Space Needs Crisis Immediately

Based on our findings, Portland State has an immediate need for 330,000 SF of classroom, office, support, and public space, equivalent to 1.4 Cramer Halls. This is over and above the space expected through the construction of the new Engineering tower and the Broadway Housing academic space. This current unmet need is real and must be addressed whether enrollment grows or not. Based on reports of biology labs scheduled on Sunday mornings, unanswered needs for informal study and meeting space, classroom use conflicting with maintenance needs, and a current lack of classroom space in general, the current unmet need at Portland State should be regarded as a crisis requiring immediate and direct response. To not do so will be to jeopardize faculty and staff morale and student learning.
2. Embark on a Systematic Space Creation Program

Additionally, to grow to an enrollment of 30,000 FTE on the main campus, Portland State University needs to quickly develop **1.2 million square feet** of classroom, research, support, office, and public space, the rough equivalent to 5.1 Cramer Halls. Note that this report has not investigated the space requirements, opportunities, or constraints associated with locating an additional 5,000 FTE at partner Community College or other sites.
3. Formally Engage the Campus Community in Planning Efforts

There is an immediate need to engage the entire campus community in a detailed space master planning effort to strategically plan and make capital expenditures for the next 20+ years. In taking that next step the Committee would strongly recommend that such a planning process be directed and informed by the University’s Vision and Values as currently articulated. We also recommend that this planning process consider both the needs of the core campus as well as the remote learning sites that may become more important to our operations in the future.