

Minutes  
COMMISSION ON RESEARCH  
September 9, 1998  
206 Sandy Hall

Members Present: E. Brown, P. Burge, C. Finch, C. Ganoë, T. Herdman, D. Jones, G. Lacy, M. McGilliard, L. Richardson, D. Russell, R. Russell-Tillar, H. Schnoedt, R. Simpson, M. Smith, M. Uysal

Members Absent: J. Burger, S. DeDatta, P. Eyre, J. Johnson, L. Peters, K. Reifsnider, L. Taylor, S. Tolin

Invited Guests: J. Eaton

1. Announcements and Introductions: Dr. Uysal welcomed all new and continuing members of the Commission on Research and thanked Dr. Herdman for his leadership last year. Introductions were made. Dr. Brown announced there would be a small business collaboration workshop (SBIR) on September 23 and 24 in Owens Dining Hall. Dr. Eaton announced the annual Research and Graduate Studies retreat will be held on Saturday, November 14 at the Continuing Education Center.

2. Adoption of Agenda: Dr. Uysal asked that item 8 be slightly changed. Dr. Smith motioned adoption of agenda; Dr. Finch seconded. Motion carried.

3. Minutes of May 7, 1998: Dr. Brown motioned approval of the minutes; Dr. Smith seconded. Minutes were approved.

4. Current Graduate Student Enrollment: Dr. Eaton reported that for on-campus students we are at about the same level as last year and for extended-campus students we have approximately 120 more than last year. Dr. Brown asked about indication of quality. Dr. Eaton responded it would be two weeks before he would have that information.

5. The Research Retreat: Dr. Brown stated a research retreat was held August 26. It was hosted by Dr. Peters and attended by all college deans, associate deans, Research and Graduate Studies personnel and Dr. Meszaros. The purpose of the retreat was to share with colleagues the record of research for the entire university as well as graduate student recruitment efforts. Dr. Brown reported that Dr. Meszaros summarized five items at the end of the meeting: 1) We need a strategy to take advantage of the research support provided by the National Institutes of Health and involve the cross-cutting initiatives in a synergistic way; 2) colleges must work with new faculty in order to aid them in developing research connections; 3) need to review strategies in the gap analysis in order to take full advantage of the cross-cutting initiatives; 4) university should invest in graduate research assistants; and 5) we need to look increasingly at the opportunities for thesis research at extended-campus centers. Dr. Brown went over some overheads dealing with the research side, and Dr. Eaton did the same with overheads on the graduate student side. Much discussion followed on Virginia Tech's rankings in the various categories presented.

6. Status Report on Center Reviews: Ms. Burlingame provided the membership with a written report. Dr. Brown motioned that the written report be included in the Minutes; Dr. Herdman seconded. The motion carried. The written report is attached. Dr. Herdman asked that a timeline be set for return of the center reviews back to the Commission. He also asked that the Commission membership be given guidelines prior to a review report. Dr. Smith mentioned the importance of having a Commission member on each review committee.

7. Nominating Committee for Vice Chair: Dr. Uysal asked for volunteers for a nominating committee for vice chair. Drs. Smith, Herdman and Brown volunteered.

8. Issues for COR to Address: Dr. Uysal mentioned research professor positions within university centers would be an ongoing item for discussion this year. Some other issues he brought up were: communicating faculty activities to minority graduate students on campus; the intellectual property policy, non-traditional scholarship; availability of serials in the Library; training research professors; faculty to faculty mentoring in research, teaching and public service; and having the Commission be more proactive rather than just reactive. It was suggested that the reward system for research productivity be examined. Dr. Brown suggested having focus groups on research.

9. Adjournment: Meeting adjourned at 5:00PM.

September 9, 1998

Report to the Commission on Research

Center Reviews.

The Center reviews that were carried over from last academic year will be presented to the Commission this fall. As requested by the Commission at the last regular meeting of the 1998 academic year, the review for the Center for Gerontology has been returned to the chair for revisions. The requested revision is included in the minutes from the last meeting. The other reviews that will be presented are for the Virginia Water Resources Research Center, the Interdisciplinary Center for Applied Mathematics, and the Center for Adhesive and Sealant Science.

The Centers with reviews scheduled for the current academic year include:

Center for Human-Computer Interaction. This was established under C.O.R. policy as an interim Center. As an interim center it is up for review after the end of its first full year of operation.

Center for Wireless Technology. This is a former CIT Technology Development Center. According to our records, this will be the first review for this Center.

Center for Composite Materials and Structures. Our records indicate that this will be the first review of this center.

Center for Advanced Ceramics. This is also a former CIT Technology Development Center. Our records indicate that this will be the first review of this center.

Dr. Reifsnider is currently in the process of establishing the review committees for these reviews.

Respectfully submitted,

Sherry M. Burlingame  
Office of Interdisciplinary Programs

Minutes  
COMMISSION ON RESEARCH  
October 14, 1998  
206 Sandy Hall

Members Present: R. Wynne (for J. Burger), S. DeDatta, P. Eyre, C. Ganoë,  
T. Herdman, M. Perry (for J. Johnson), D. Jones, G. Lacy, L. Peters, S. Burlingame (for K. Reifsnider), L. Richardson, D. Russell, R. Russell-Tillar, H. Schnoedt, R. Simpson, M. Smith, L. Taylor, S. Tolin, M. Uysal

Members Absent: E. Brown, P. Burge, C. Finch, L. Hawkins, M. McGilliard

Invited Guests: E. Fox, L. McCoy, R. Salinas

1. Announcements: Dr. Uysal announced a new location for the Commission meetings would be found by the next meeting. He introduced two visitors from the College of Human Resources and Education.

2. Adoption of Agenda: Dr. Eyre motioned approval; Dr. Herdman seconded. Agenda was approved.

3. Minutes of September 9, 1998: The minutes were approved as written.

4. The Research Retreat - The Next Step: Dr. Peters said the participants at the research retreat had discussions on what the research environment at Virginia Tech is currently, where we have been over the last 20 years, and some ideas of where we should be heading. He suggested a joint forum, involving both the Commission on Research and the Commission on Graduate Studies and Policies, to discuss the current research environment at Virginia Tech and some strategies to improve that environment. After much discussion it was decided to have the joint meeting with CGS&P during a regular Commission meeting from 3-6PM. Dr. Eyre made a motion to have a joint meeting with the Commission on Graduate Studies and Policies to discuss the research environment. Dr. Russell-Tillar seconded. Motion carried. Dr. Peters stated he would get reading material out to the membership.

5. Virginia Tech's Internet Technology Innovation Center: Dr. Ed Fox presented an overview of the history of the creation of the Internet Technology Innovation Center at Virginia Tech. He stated there is a new CIT program statewide with \$2M funding, and this is one of the first technology innovation centers in this new program. Dr. Fox said the initial funding is \$2M to be split across a number of institutions with a rotating directorship among the institutions. He provided a description of the structure, governance, potential funding sources, funding prospects, space, and future directions. A charter was provided to the membership. Much discussion followed. Dr. Lacy made a motion to approve the charter contingent upon three areas of concern being addressed by Dr. Fox. Those areas were: 1) membership of the advisory committee should be more specific to cover disciplines and colleges; 2) rewording of the review process on page 6 to state the center will be reviewed after its' first, third, and fifth year and operation thereafter every five years consistent with the guidelines of the policies established by the Commission on Research; and 3) statement on intellectual properties consistent with university policy. Dr. Herdman seconded. Motion carried.

6. Election of Vice Chair: Dr. Herdman reported the nominating committee was unsuccessful in finding a candidate for vice chair. Dr. Uysal asked for nominations from the floor. There were none. The nominating committee will attempt to bring back the name of a nominee at the next meeting.

7. Nomination to VTIP Board of Directors: Dr. Uysal asked for nominations to replace Dr. Anne McNabb on the VTIP Board of Directors. Dr. Peters stated the person in this position does not have to be a member of the Commission on Research and that it is for a three-year term. There were none. Dr. Uysal asked the nominating committee (Drs. Herdman, Smith, and Brown) to bring back the names of two nominees to the next meeting.

8. Adjournment: Meeting adjourned at 4:55PM.

Minutes  
COMMISSION ON RESEARCH  
November 11, 1998  
325 Burruss Hall

Members Present: E. Brown, P. Burge, J. Burger, S. DeDatta, P. Eyre, C. Finch, C. Ganoe, T. Herdman, D. Jones, G. Lacy, M. McGilliard, L. Richardson, D. Russell, R. Russsell-Tillar, H. Schnoedt, L. Taylor, M. Uysal

Members Absent: L. Hawkins, J. Johnson, L. Peters, K. Reifsnider, R. Simpson, M. Smith, S. Tolin

1. Announcements: Dr. Brown announced that Jim Voytuk from the National Research Council will be the speaker at the annual Research and Graduate Studies Fall Retreat on November 14. Dr. Uysal announced a letter had been sent to Dr. Meszaros requesting that the Internet Technology Innovation Center be established. He stated that as far as he knew the changes requested by the Commission were made in the charter. Dr. Uysal announced an intellectual properties workshop would be held on Monday, November 16 at the CEC. Dr. Brown announced a broad new NSF program to support strategies for increasing the number of women in mathematics, the physical sciences, and engineering. He asked for suggestions to promote the writing of collaborative proposals since only one proposal can be sent forward on behalf of the university. Drs. Carol Burger, Ruth Alscher, and Marge Murray were suggested as individuals whom Dr. Brown might contact. Dr. Penny Burge asked that she be added to the list.

2. Minutes of October 14, 1998: Dr. Brown motioned approval of minutes; Dr. Herdman seconded. Minutes were approved.

3. Nominating Committee Report: Dr. Herdman announced that at this point there are no nominations for the Virginia Tech Intellectual Properties vacancy. He placed Dr. George Lacy's name in nomination for vice chair. A motion was made to close nominations. It was seconded. Nominations were closed. Dr. Uysal called for the vote. Dr. Lacy was unanimously chosen as vice chair.

4. Status Report on the Library: Dr. Brown met with the Library administration to seek ways to deal with serials cancellation and to look at the Library in a broader sense. He suggested a joint meeting of the Commission on Research and the Commission on Graduate Studies and Policies to discuss this issue with the graduate students. Reference was made to the current survey. Dr. Brown stated he would like to develop some kind of strategy whereby everyone is better served by the Library. Dr. Richardson suggested that the Library Committee be invited to the joint Commissions meeting.

5. Reflections on the Joint Meeting of COR and CGS&P: Dr. Uysal asked for comments on the joint meeting of the Commissions on Research and Graduate Studies and Policies. Discussion followed on the next step to be taken on this issue. Recruitment was mentioned as well as how to generate more external funding. Dr. Brown mentioned there are a lot of strategies already in place to generate more funding. The cross-cutting initiatives were mentioned in helping to focus on seven areas. It was decided to put this item on the agenda for the next meeting. Minutes of the joint meeting will be provided prior to the next Commission meeting.

6. Adjournment: Meeting adjourned at 4:50PM.

Minutes  
COMMISSION ON RESEARCH  
January 13, 1999  
325 Burruss Hall

Members Present: E. Brown, C. Ganoë, M. McGilliard, L. Richardson,  
D. Russell, M. Smith, M. Uysal

Members Absent: P. Burge, J. Burger, S. DeDatta, P. Eyre, C. Finch,  
L. Hawkins, T. Herdman, J. Johnson, D. Jones,  
G. Lacy, L. Peters, K. Reifsnider, R. Russell-Tillar,  
H. Schnoedt, R. Simpson, L. Taylor, S. Tolin

Invited Guest: C. Christian

1. Call to Order: Dr. Uysal called the Commission on Research meeting to order at 3:35 p.m.

2. Announcements: Dr. Uysal was invited to a meeting with the President and Provost and the other commission chairs at which he reported that: 1) COR was discussing with CSG&P how it could best support the discussions of research priorities and strategies begun at the dean's retreat in August; and 2) the possible resolution coming from COR on library resources. His report was well-received. Dr. Brown then announced that the Cross-Cutting Initiatives (CCI) Communications Workshop given by the Provost was being held on Saturday, January 16. Dr. Brown stated that he would try to arrange an invitation for any Commission members who wanted to attend.

3. Approval of Minutes: The approval of minutes from the November 11, 1998, COR meeting was postponed until the next meeting due to the small number of Commission members present.

4. The Health Science and Technology Initiative: Dr. Brown stated that the federal government is providing an increasing amount of funding in the health science areas. He reported that since we want to increase the level of funding Tech receives from NIH, a plan had been developed to make the opportunities in the health sciences and technology area more well-known to those who might contribute to it. Dr. Brown then welcomed Dr. Carole Christian, Government Program Development Specialist in Research and Graduate Studies, who has been spearheading this plan. Dr. Christian gave a presentation introducing the plan, which involves the input of three focus groups, to increase health science and technology funding at Tech. A copy of this presentation is appended to these minutes. Dr. Brown solicited comments and suggestions from the commission members to provide impetus for this plan. Dr. Russell suggested that one possible area of focus is medical technology, such as the use of advanced materials to replace body parts. Dr. Christian agreed and said that the School of Engineering is very much aware of the potential. Dr. Brown stated that one outcome of these focus groups that Dr. Christian mentioned might be to make just these sorts of connections and that at least in part our success in obtaining additional resources would depend upon our making the appropriate linkages with the cross-cutting initiatives.

5. Status Report on Center Reviews: Dr. Brown distributed a written report on Research Center Reviews. He suggested that this report be appended to the minutes. Dr. Uysal recommended that guidelines for Interdisciplinary Research Centers be distributed at the next meeting.

6. Library Resources: The intention here is to discuss the possibility of drafting a resolution for approval by the University Council which focuses attention on the importance of having a library on a par with our status as a research institution. The library will help us get started on this. Dr. Brown stated that our vision is that the COR will be the lead organization

and that the resolution should be formulated along the lines of "whereas's" that lead us into the recognition that being a major research university requires a major library facility. He suggested that a COR subcommittee is needed to do this. Dr. Richardson suggested that the University Library Committee meet jointly with the COR. Dr. Brown felt, however, that since the basic principle is the association of the quality library with the quality research institution, the resolution would be strongest coming out of COR, but that the Library Committee could review the resolution with the COR. Dr. Uysal then suggested inviting someone from the library to talk about what the library was before and what it is today. Dr. Richardson recommended inviting Paul Metz, who is the principal bibliographer and head of collections, and who has been in charge of the latest faculty serial needs review.

7. Adjournment. The meeting was adjourned at 4:40 p.m.

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## PLAN FOR INCREASING HS&T FUNDING AT VIRGINIA TECH

### Rationale:

#### Threat

Federal sector is source of 70% of sponsored research at Virginia Tech  
R&D budgets of all but one of Virginia Tech's 4 largest federal customers flat or declining

Only 7.5% of Virginia Tech research sponsored by federal sector is with agency sponsoring 59% of basic research at universities

#### Opportunity

HS&T opportunities  
-Growing in federal and private sectors  
-Expected to continue indefinitely  
NIH experiencing a major R&D increase

#### Proposed budgets of

- \$14.8B for FY'99 (8.4% increase)
- \$20.2B for FY'03 (48% increase)

#### Approval of FY'99 proposal will give NIH

- 47% of federal sponsored basic research
- 59% of federal sponsored university research
- Several proposals for doubling over next 5-10 years
- Pharmaceutical industry planning 11% increase in R&D for next year

#### Feasibility

Other non-medical school universities have significantly higher levels of HS&T, e.g. Purdue, Iowa State, NC State  
Virginia Tech already has significant HS&T strengths  
Focused effort can minimize HS&T weaknesses

#### Compatibility with University (Strategic) Plans

HS&T growth important to achieving "Strategic Directions"  
-" ... maintaining its (sponsored research) position among the top 50 ... (top 10 for those without medical schools) ..."  
-"... enhance status as leading innovator in applications of advanced communications and information technologies ... "

#### HS&T itself a cross-cut of 5 of 7 Cross-Cutting Initiatives:

- Biosciences and Biotechnology
- Computing, Information, and Communications Technology
- Environmental Science and Energy Systems
- Food, Nutrition, and Health
- Materials

## HS&T GROWTH INITIATIVE PLANNING APPROACH

### Focus Groups

Develop comprehensive, focused plan for HS&T growth  
Utilize three faculty focus groups of diverse backgrounds:

- All 8 colleges
- All 7 cross-cutting initiatives
- Various centers
- Faculty currently with HS&T grants or contracts
- Faculty currently without HS&T grants or contracts
- Senior and junior faculty

Each group independently

- Generate inputs on growth strategy and implementation
- Critique draft plans for growth initiative

R&GS staff

- Coordinate HS&T initiative planning including
- Integration of focus group inputs to produce initiative plan
- Marketing of initiative plan to administrators and faculty
- Support plan implementation

#### FOCUS GROUP SESSIONS

##### Task

Focus group provide inputs for establishing a focused, comprehensive plan for increasing HS&T sponsorship

What are the University's specific HS&T-related strengths and weaknesses?

What overall (technological) strategy should the University pursue?

What should be done to insure synergy with other university plans and programs?

What are the incentives for and barriers to implementation of this strategy?

What actions are needed to increase incentives, lower barriers and facilitate implementation of this strategy?

- At the University level?
- At the college/department/faculty member level?
- By R&GS?

Commission On Research - January 13, 1999

#### Report on Research Center Reviews

I. The Centers to be reviewed for this year are:

Center for Wireless Telecommunications (CWT)  
Center for Composite Materials and Structures (CCMS)

The committee for the CWT review has been identified and an initial meeting set up for January 28. The members of the review committee are Robin Russell Tillar, Dennis Kafura, Rick Claus, Leonard Ferrari, Ed Fox, and Rod Hall.

The CCMS committee is being drawn up and will be appointed by the beginning of February.

II. The Advanced Ceramics Materials Center was to have been reviewed this year. However, its director and primary principle investigator, Seshu Desu, resigned from the University effective January 9, 1999. There is no



current funded research in the center. There is interest at the department level in re-invigorating the center, appointing a new director, and pursuing funded research opportunities.

III. Reviews holding over from last year are being finalized and will be presented this semester (Gerontology, ICAM, Virginia Water Resources Research Center).

#### IV. Director Appointments

Two new directors have been appointed to fill vacancies due to resignations.

Virginia Coal and Energy Research Center. Dr. Michael Karmis has been appointed to replace Dr. Malcolm McPherson. Dr. McPherson continues to serve the University in his capacity as Associate Dean in the College of Engineering.

Center for Adhesive and Sealant Science. Dr. David Dillard has been appointed to replace Dr. John Dillard. Dr. John Dillard will serve as faculty in the Chemistry Department.

Minutes

COMMISSION ON RESEARCH

January 27, 1999

325 Burruss Hall

Members Present: E. Brown, P. Burge, J. Burger, S. DeDatta, C. Finch,  
T. Herdman, D. Jones, L. Peters, L. Richardson,  
D. Russell, R. Simpson, M. Uysal

Members Absent: P. Eyre, C. Ganoe, L. Hawkins, J. Johnson, G. Lacy,  
M. McGilliard, K. Reifsnider, R. Russell-Tillar, H. Schnoedt,  
M. Smith, L. Taylor, S. Tolin

1. Call to Order: Dr. Uysal called the Commission on Research meeting to order at 3:35 p.m.

2. Announcements: Dr. Uysal distributed two handouts concerning guidelines on Center reviews. Questions should be directed to Dr. Ken Reifsnider and Dr. Sherry Burlingame at the next meeting.

3. Approval of Minutes: Dr. Herdman motioned for approval of the minutes for November 11, 1998. Dr. Brown seconded. The minutes were unanimously approved. Dr. Brown motioned for approval of the minutes for January 13, 1999. Dr. Burger seconded. The minutes were unanimously approved.

4. Reflections on Cross-Cutting Initiatives Workshop: Dr. Uysal reported that the objectives of the Cross-Cutting Initiatives Workshop held on January 16, 1999, as indicated by the Provost were: 1) dissemination of the recommendations developed by the seven cross-cutting initiatives, and 2) solicitation of recommendations and feedback from the faculty. It was noted that Dr. Brown, Dr. Burger, Dr. Peters, Dr. Russell, and Dr. Uysal all attended the workshop. Dr. Russell attended the "Materials" and "Computing, Information, and Communications Technology" sessions. Dr. Russell agreed with the gap analyses that we do need additional strength in certain areas, but felt that what was overlooked was the importance of creating connections between these areas. Dr. Burger attended the "Environmental Sciences and Energy Systems" session. Dr. Burger felt that there is not much interaction or communication among the different areas and that interdisciplinary activity across these areas should be encouraged. The session he attended displayed pessimism about the initiative probably based on the poor success of earlier initiatives in this area, and also because of a lack of focus since energy and environment cover such a breadth of activities. The group was struggling to determine how to put together a mechanism that would allow a cross-cutting activity to become possible. Dr. Uysal attended the "Computing, Information, and Communications Technology" and "Learning Communities" sessions and observed that there were a lot of creative and innovative new ideas upon which to build. Dr. Burger reported that one criticism in his group was that there is no intention to provide monies for administering these initiatives, and that there really needed to be someone championing each initiative. They felt that someone with teaching and research responsibilities could not devote the full-time energy and effort required for such a complex undertaking.

Dr. Peters attended the "Biosciences and Biotechnology" and "Environmental Sciences and Energy Systems" sessions. Dr. Peters reported that the interaction and discussion that occurred at the workshop was very healthy. He said that the workshop succeeded in involving many individuals in the discussion. Pertaining to the energy and environment issue, he remarked that his group was struggling because of the breadth of the area. His session posed the question of whether this initiative is concerned with the union of all of the activities in energy and environment or the

intersection of all of the activities in energy and environment, which are distinctly different. If it is dealing with the intersection, then there might be a chance of beginning to gain focus. Dr. Brown attended the "Food, Nutrition, and Health" sessions. He stated that this group was concerned with the interfaces between food, nutrition, and health. They proposed the formation of an institute with a director. His group suggested that the structure of the university in its departments and colleges was not well suited to moving forward the cross-cutting initiatives. Dr. Peters said that this was also brought up in the Biosciences session.

Dr. Uysal raised the question, "Where do we go from here?" Dr. Peters emphasized that it is very important not to forget the basics in order to strengthen the foundation. He stated that areas being examined are potential funding opportunities, cross-cuts of the cross-cutting initiatives, administrative strategies, and how to effectively accomplish the goals with limited additional resources. Dr. Peters said that Dean Eyre has properly observed that the whole concept of the CCI's is challenging the basic organizational (department/college) structure of the university and that this has to be realized if the CCI's are to be successful. Dr. DeDatta suggested that making the faculty feel that they are a part of the process is absolutely essential, and he gave several examples which supported his contention. He felt that the key is not in mandating faculty collaboration, but that it should be a result of activities undertaken at their initiative.

5. The Resolution: Dr. Uysal proposed a new resolution which would be broader, more integrative, and more comprehensive than the library resolution which was discussed at the last meeting. This new resolution would include the issues brought up in the research agenda at the joint meeting with CGS&P. Dr. Uysal asked the members for suggestions and support for this endeavor. He explained that this resolution would be a joint effort on the part of the COR and the CGS&P. He proposed that a subcommittee, to include the chairs of the COR and the CGS&P, be formed to draft the resolution. The resolution would then be reviewed by the members of the Commission for suggestions and approval so that the resolution could be taken to the University Council. The goal is to have the resolution ready to be delivered to the Council sometime during the next academic year in the late fall or early spring 2000.

Dr. Burger reiterated the idea that we need a renewed commitment to research, scholarship and education, and that we need to bring this renewed commitment to the attention of the university community through a resolution. He referred to the document "A Blueprint for Building the Infrastructure for Research and Graduate Education at Virginia Tech" dated May 19, 1997. He felt that if the key tasks named within this blueprint had been put into practice, perhaps the CCI would not have been necessary and we would not have fallen out of the top 50 research universities. Recognizing that graduate education is connected to the whole research agenda, Dr. Burger handed out some personal written comments on four of the items listed by Dr. Peters at the joint meeting as research concerns. These four items dealt particularly with graduate education.

Dr. Russell expressed concern about the new resolution because of the danger of losing too much focus on the library issues. He felt that a strong statement needed to be made concerning the library which should then be followed by a broader resolution on the graduate program and research in general. Dr. Uysal pointed out that the library issue could be a major element in the broader resolution. Dr. Russell responded that the broad resolution should contain a small number of well identified areas of focus. Dr. Herdman pointed out that the library is a subset of research.

Dr. Peters agreed with Dr. Russell that there should be three or four carefully crafted major points of focus in the resolution. He felt that a university would not be a top 50 research university if it is ranked as the

100th in library, so the library should be a major focus. Dr. Peters stated that, secondly, we need to focus on the ratio of undergraduate to graduate students if we are to remain competitive with our peer institutions. The third area of focus concerns the infrastructure of the university, which is both the quality of space and the quality of facilities. Maybe the fourth area is the whole environment or climate of what you want to accomplish in research and scholarship. Dr. Peters felt that the new resolution would strengthen what we want to say about the library, by putting it in the context of where we are.

Dr. Uysal called for a motion from the floor to support the development of a resolution on the broader research issues to take to the University Council. Dr. Herdman motioned that the Commission on Research appoint a committee to work jointly with a committee from the Commission on Graduate Studies and Policies to draft a resolution addressing the research, library, graduate education, and other concerns or issues before us, and that this resolution be brought forward to the individual commissions for approval before being sent forward. Dr. Simpson seconded the motion. The motion was unanimously approved and so carried.

6. New Business: Dr. Jones made some complimentary remarks on the newest issue of the "Research" magazine. Dr. Peters asked that they be communicated to the editor, Susan Trulove.

7. Adjournment: The meeting was adjourned at 4:50 p.m.

Minutes  
COMMISSION ON RESEARCH  
February 10, 1999  
325 Burruss Hall

Members Present: E. Brown, P. Eyre, C. Ganoë, T. Herdman, J. Johnson, D. Jones, G. Lacy, L. Peters, L. Richardson, D. Russell, H. Schnoedt, R. Simpson, L. Taylor, S. Tolin, M. Uysal

Members Absent: P. Burge, J. Burger, S. K. DeDatta, C. Finch, L. Hawkins, M. McGilliard, K. Reifsnider, R. Russell-Tillar, M. Smith

Invited Guest: P. Sforza

1. Call to Order: Dr. Uysal called the Commission on Research meeting to order at 3:33 p.m.

2. Announcements: Dr. Uysal announced that the Commission on Research members are invited to attend a meeting on February 17 of the Commission on Graduate Studies and Policies. Provost Meszaros will speak and the resolution will be the first item on the agenda. Dr. Brown introduced a guest, Peter Sforza, Chair of the 1999 Research Symposium of Virginia Tech. Mr. Sforza discussed the upcoming 15th Annual Research Symposium to be held on March 29. The featured speaker this year will be General Colin Powell. He suggested topics for informal round table discussions to be held and asked for input of topics from COR members. Mr. Sforza passed out copies of a memorandum which described the event.

3. Approval of Minutes: Dr. Peters motioned for approval of the minutes for January 27, 1999. Dr. Brown seconded. The minutes were unanimously approved.

4. Center Reviews: Dr. Uysal distributed two handouts concerning guidelines on Center reviews to anyone who had not received these at the last meeting. Dr. Herdman raised an issue, which had been brought up at a previous meeting concerning a review that suggested that, the colleges or departments should spend some money on the center, either for support or staff, etc. He pointed out that some commission members did not feel that the review team should be doing this. Dr. Peters stated that the emphasis does need to be on meeting program goals, but if the resources seem much too limited to meet the program goals, then that should be brought out without necessarily saying who should pay for it.

5. The Resolution: Dr. Uysal read the motion concerning the library resolution which had been passed at the last meeting. This motion, contained in #5 of the January 27, 1999, COR meeting minutes, states that "the Commission on Research appoint a committee to work jointly with a committee from the Commission on Graduate Studies and Policies to draft a resolution addressing the research, library, graduate education, and other concerns or issues before us, and that this resolution be brought forward to the individual commissions for approval before being sent forward." A similar motion to draft a resolution was passed at the CGS&P meeting. Dr. Brown and Dr. Peters reported on issues brought up at this meeting. Dr. Uysal then announced the recently appointed members of the subcommittee assigned to draft this resolution which is comprised of the ex-officio members - Dr. Leonard Peters, Dr. Eugene Brown, and Dr. John Eaton, chair of COR - Dr. Muzaffer Uysal, chair of CGS&P - Dr. Jim Burger, COR members - Dr. Terry Herdman, Dr. George Lacy, and Ms. Linda Richardson, and CGS&P members Dr. Julia Beamish and Dr. Skip Fuhrman.

6. New Business: Dr. Brown reported that the comments from the CCI workshop are now on the web and promised to send everyone the URL

location. He also stated that next week a meeting is scheduled for the provost's representatives of the cross-cutting initiatives and that this meeting is the first step in the decision-making process.

Four candidates have been invited to interview for the position of Associate Dean of the Graduate School. Dr. Peters stated that there would be interaction between these candidates and the Commission on Research and the Commission on Graduate Studies and Policies. These candidates are Dr. Robert Ibarra from the University of Wisconsin, Dr. Roger Avery from Cornell, Dr. William Fischer from San Jose State, and Dr. Susan Brooker-Gross from Virginia Tech.

Dr. Peters and Dr. Eyre reported on a research retreat which they had attended that was hosted by the University of Virginia College of Medicine. Approximately twenty individuals from other institutions were in attendance, including Virginia Tech (Tracy Wilkins, Peter Eyre, and Len Peters) and Salem VA Hospital. The event was held from Friday evening until Sunday morning at The Greenbrier. Also in attendance were UVA faculty outside the College of Medicine. The total attendance was approximately 250 people. Dr. Peters complimented the Dean of Medicine and the Associate Dean of Medicine of UVA for doing such a good job of arranging and coordinating the retreat. Dr. Peters stated that the Virginia Tech representatives were impressed with the model and agreed that Virginia Tech should sponsor a similar event. Dr. Wilkins, Dr. Eyre, and Dr. Peters suggested this idea to the provost and to the deans' group. They also discussed with the Dean of Medicine of UVA the possibility of holding a joint retreat. The Commission members agreed that this would be a good idea with UVA and VCU. Dr. Peters suggested discussing ideas for this event at the next meeting.

7. Adjournment: The meeting was adjourned at 4:15 p.m.

Minutes

COMMISSION ON RESEARCH

March 24, 1999

325 Burruss Hall

Members Present: E. Brown, S. K. De Datta, P. Eyre, C. Finch, C. Ganoë, T. Herdman, M. McGilliard, L. Peters, L. Richardson, H. Schnoedt, M. Smith, L. Taylor, S. Tolin, M. Uysal

Members Absent: P. Burge, J. Burger, L. Hawkins, J. Johnson, D. Jones, G. Lacy, K. Reifsnider, D. Russell, R. Russell-Tillar, R. Simpson

Invited Guests: S. Burlingame, L. McCoy

1. Call to Order: Dr. Uysal called the Commission on Research meeting to order at 3:35 p.m.

2. Announcements: The 15th Annual Research Symposium will be held on March 29, and the featured speaker on March 30 will be General Colin Powell.

Research and Graduate Studies is sponsoring a workshop on the new NSF cross-agency initiative on education entitled "Interagency Education Research Initiative (IERI)" on March 29. The workshop will be conducted by Dr. Eugenia Toma of the National Science Foundation's Directorate for Social, Behavioral, and Economic Sciences, who was instrumental in designing this program.

3. Approval of Minutes: Dr. Eyre motioned for approval of the minutes of February 10, 1999. Dr. Herdman seconded. The minutes were unanimously approved.

4. Nominating Committee for Chair 1999-2000: Dr. Uysal proposed that a COR Chair nominating committee be formed by the next COR meeting on April 14 and that the chair be elected at the last meeting on April 28.

5. Virginia's Research Agenda: Dr. Brown handed out copies of an agenda and slide presentation entitled "The Commonwealth of Virginia's First Presentation of a Comprehensive Priority Research & Development List on Capitol Hill" from a meeting he attended on March 10 held by the Secretary of Technology of Virginia, Don Upson, involving six major research universities in the state of Virginia. Dr. Brown reported that Don Upson's purpose is to assist the institutes of higher education in Virginia to obtain additional federal funding for research projects and activities. To further this goal, Don Upson suggested that the research universities of Virginia present a "unified front" to the congressional delegation. The thrust of the presentation was to present some statewide priorities and a decision was made to focus on efforts to seek additional funding for the Langley Research Center and the Jefferson Laboratory, to support the President's Information Technology for the 21st Century Initiative, and to support the Carrier Integration Center. Dr. Peters added that the meeting provided an opportunity to make sure that the statewide initiatives do not conflict with what we want to do as a university.

6. CCI's Progress: Dr. Brown reported that a dinner meeting was held on March 17 with Dr. Meszaros and the Provost's representatives to the Cross-Cutting Initiatives to provide advice on the prioritization of the various strategies contained in the Cross-Cutting Initiatives. Dr. Brown attended as the Provost's representative for the Food, Nutrition, and Health initiative. Dr. Brown stated that the process is in the final stages of information collection. On April 5, the Provost will hold a

dinner meeting with the deans, and by the middle of April, some decisions will be made and some recommendations will be forwarded as part of the budget cycle for the next fiscal year.

7. Center Reviews: Copies of a memorandum from Provost Meszaros was distributed detailing the university's new policy on the creation and management of centers and including a census of centers separated into research, outreach, and instructional categories, and identified as department, college, or university-wide. These administrative policies and procedures are supplemental and do not replace the governance process that the Commission on Research already has in place. Dr. Peters reported that, during the last year, he had been part of a group composed of representatives from the academic community, the controller's office, the budget office, the foundation, etc., that was working on administrative policies and procedures for centers which initially dealt with issues associated with research centers. As a follow up to this activity, Dr. Peters noted that there are no similar governance procedures for instructional or outreach centers. Accordingly, the Commission on Undergraduate Studies and Policies has been asked to determine if similar procedures can be developed for these instructional centers. The Commission on Outreach is conducting a similar review for Outreach Centers.

Dr. Sherry Burlingame provided a report on center reviews. The Center for Wireless Telecommunications review is chaired by Robin Russell-Tillar of the Commission on Research and the review has been proceeding smoothly. Robin Russell-Tillar had requested that each of the committee members provide to her their section of the review by March 16. She has received about a 95% compliance with her request. The committee plans to meet on April 1 to review the draft document, and intends to present the report for review at the COR April 14 meeting. Due to a request by the center co-director, the review for the Center for Composite Materials and Structures has been postponed until Dr. Reifsnider's return from sabbatical. The reason for the postponement is their involvement in a CIT feasibility study this semester. Much of the documentation required for this feasibility study overlaps the information required to be provided by the Center for the review. This study should be completed during the summer and the review should be presented to the COR at the first meeting in the fall. Concerning ICAM, there have been some difficulties in obtaining the component parts from the committee members to whom they have been assigned. Hopefully, the ICAM review will be presented at the COR April 14 meeting. Dr. Burlingame handed out the revised review for the Center of Gerontology which had been presented to the Commission last year, and the Commission had suggested certain revisions be made. The improved version of the document incorporates those suggestions. It will be presented for approval at the COR April 14 meeting. Dr. Peters suggested that the members needed to review the minutes of May 7, 1998, to determine if the commission formally accepted the report or accepted it contingent upon making the requested changes.

8. New Resolution: Dr. Uysal reported that the Resolution Subcommittee hopes to hold one meeting before the next COR April 14 meeting and then present a draft at the COR meeting for the members' suggestions and comments. If this occurs, then, hopefully, during the last meeting of COR on April 28, the resolution will be approved and moved forward.

9. New Business: Dr. Peters explained that one of the most prestigious fellowship awards that are given by the federal government are NSF fellowships. These programs are extremely competitive and there are only a few hundred awarded each year from all of the science and engineering areas. This year, five Virginia Tech students received NSF fellow awards, and four students (not necessarily Virginia Tech students, but coming from other universities) have indicated that they would probably be coming to Virginia Tech.



Dr. DeDatta announced that effective September 30, 1998, the office of International Research and Development (OIRD) received an \$11.99M five-year renewal of their integrated pest management (IPM-CRSP) program.

10. Adjournment: The meeting was adjourned at 4:30 p.m.

Minutes

COMMISSION ON RESEARCH

April 14, 1999

325 Burruss Hall

Members Present: E. Brown, S. K. De Datta, C. Ganoë, T. Herdman, J. Johnson, D. Jones, G. Lacy, M. McGilliard, L. Peters, L. Richardson, D. Russell, H. Schnoedt, M. Smith, L. Taylor, M. Uysal

Members Absent: P. Burge, J. Burger, P. Eyre, C. Finch, K. Reifsnider, R. Russell-Tillar, R. Simpson, S. Tolin

Invited Guests: S. Burlingame, E. Hitchingham

1. Call to Order: Dr. Uysal called the Commission on Research meeting to order at 3:30 p.m.

2. Adoption of Agenda: Dr. Uysal entertained a motion to adopt the agenda for the present meeting of April 14, 1999. Ms. Richardson moved for approval of the agenda, Dr. Taylor seconded, and the motion was unanimously passed.

3. Approval of Minutes: Dr. Uysal entertained a motion for the approval of the minutes of March 24, 1999. The motion was made by Dr. Brown, seconded by Dr. Herdman, and unanimously passed.

4. Digital Libraries: Dr. Uysal introduced a guest, Dr. Eileen Hitchingham, Dean of the Libraries. Dean Hitchingham delivered an informative presentation on digital libraries.

5. Announcements: Dr. Uysal handed out copies of three resolutions approved by the Commission on Graduate Studies and Policies on April 7, 1999, entitled "Resolution Regarding Changing Advisory Committee Membership," "Resolution Regarding Transfer Credit for Master's Degrees," and "Resolution Regarding Residency for Doctoral Degrees." Each resolution will be recommended to the University Council for approval on Monday, April 19, 1999. Dr. Peters gave a brief explanation of each resolution.

6. Center Reviews:

The Center for Gerontology: Dr. Uysal reported that the Center for Gerontology Review was presented to this Commission on May 7, 1998, and that the Commission had sent the report back to the review committee for recommended revisions. Dr. Burlingame presented the revised review at the last meeting on March 24, 1999, and it was agreed that the Commission would vote on approval of the review at today's meeting. Dr. Uysal passed out copies of the minutes of May 7, 1998, to allow members to determine if the review had been revised according to the suggestions of the Commission. Dr. Smith made a motion to accept the improved report as written and Dr. Peters seconded the motion. Dr. McGilliard questioned the accuracy of a statement made on page 14 of the report: "Periods with directors have been associated with lesser funding." It was agreed upon that the statement should be corrected to: "Periods without directors have been associated with lesser funding." Dr. Johnson expressed her satisfaction with the improved version of the document, and it was generally agreed upon that changes had been made to appropriately incorporate the suggestions that had been offered by the Commission. The motion to accept the report as written was then voted upon and unanimously passed.

The Interdisciplinary Center for Applied Mathematics: Dr. Burlingame distributed copies of the Interdisciplinary Center for Applied Mathematics(ICAM) Review report. Dr. Herdman, a member of the Commission

and present at today's meeting, is currently the director of ICAM. Dr. Burlingame provided a brief summary of the review. She pointed out that interviews with students, faculty, and deans indicated that ICAM has benefited students and faculty and that there were very positive interactions with industry partners. Dr. Burlingame stated that the primary recommendations in Section 5 are the continuation of the Center and its leadership for another five years. Dr. Burlingame emphasized that the committee feels that ICAM can contribute even more to the University and quoted the final suggestion made by the committee: "There is no doubt that the center is recognized as one of the top international research facilities in the activities it currently engages in. It would help and strengthen the center to broaden its interdisciplinary mathematics projects. For example, by increasing its range of research the core group of faculty will grow. Increasing this group should increase the number of resource possibilities and build a bigger base of support for the Center's activities." Approval of this review will be voted on at the next meeting.

Dr. Burlingame reported that the CWT Review would not be presented today. Dr. Burlingame informed the members that the reviews for the Virginia Water Resources Research Center and the Center for Wireless Telecommunications would be distributed to them by campus mail next week and can be voted on at the next meeting.

7. Update on COR Chair: Dr. Uysal reported that a COR Chair nominating committee had been formed and is chaired by Dr. McGilliard. Dr. McGilliard stated that the committee consisting of Dr. Finch, Dr. Uysal, and himself met a week ago and that they hope to have a nomination for chair by the next meeting on April 28.

8. Update on the Research Resolution: Dr. Uysal reported that the Research Resolution Subcommittee is scheduled to meet on April 19 and that they hope to present a draft of the resolution for review at the last COR meeting of the academic year on April 28. He explained that this draft would also need to be submitted to the Commission on Graduate Studies and Policies since this is a joint resolution.

9. New Business: Dr. Peters distributed copies of "Research Faculty Policies And Procedures" and a memo to Deans and Academic Department Heads regarding "Research Professor appointments" dated September 18, 1995. He explained that in academic 94-95, the Commission on Research developed procedures for three new research faculty ranks--research assistant professor, research associate professor, and research professor. These non-tenure track positions were intended to parallel the tenure track of assistant, associate, and full professor but without the requirement of teaching responsibility. The primary responsibilities of these positions are in research, and are supported for the most part on soft funds. Dr. Peters elaborated that the memo to DDD expanded on what was contained in the policies and procedures, and in particular pointed out the phrase in the second paragraph which states "will not have regularly scheduled teaching assignments." These professors could be involved, however, in teaching special topics courses or certain parts of courses that would utilize their particular expertise. Dr. Peters further explained that on several occasions the issue had been raised that there may be reasons why some of these professors should have teaching assignments that one would not necessarily classify as irregular and that they might teach on somewhat of a regular basis. Dr. Peters asked for some guidance on this issue from the Commission members, and asked if the issue should be reexamined or if "regularly scheduled teaching assignments" should be better defined. He requested that the members review the documents for discussion at the next meeting.

10. Adjournment: The meeting was adjourned at 5:00 p.m.

Minutes  
COMMISSION ON RESEARCH  
April 28, 1999  
325 Burruss Hall

Members Present: E. Brown, S. DeDatta, C. Ganoë, T. Herdman, D. Jones,  
G. Lacy, L. Richardson, D. Russell, H. Schnoedt, R. Simpson, L. Taylor,  
S. Tolin, M. Uysal,

Members Absent: P. Burge, J. Burger, P. Eyre, L. Hawkins, J. Johnson, M.  
McGilliard, L. Peters, K. Reifsnider, R. Tillar, M. Smith,

Invited Guests: S. Burlingame, T. Hurd, L. McCoy, S. Trulove, M. Boisen

1. Call to Order: Dr. Uysal called the Commission on Research meeting  
to order at 3:35 pm.

2. Adoption of Agenda: Dr. Richardson entertained a motion to adopt the  
agenda for the present meeting of April 28, 1999. Dr. Tolin seconded and  
the motion was unanimously passed.

3. Approval of Minutes: Dr. Herdman requested two changes to "New  
Business paragraph #9" of the minutes by changing sentence #3 to start  
as "These non-tenure track positions" and sentence #6 to start as "These  
professors could be involved". Changes were noted and made to original  
minutes of 4/14/99. Dr. DeDatta motioned for approval of the minutes of  
April 14, 1999. Dr. Lacy seconded, and it was unanimously passed.

4. Center Report Review - ICAM (Interdisciplinary Center for Applied  
Mathematics): Dr. Boisen presented the ICAM Report and Dr. Herdman  
(Director of ICAM) was excused.

Dr. Boisen- The review committee had meetings/interviews with everyone  
they thought were related to ICAM, (students, faculty, people off-campus  
who had formal relationships w/ICAM). The committee did not identify  
with any real issues that needed to be addressed.

ICAM is a valuable part of our University landscape-- fulfilling its  
mission in a significant way, is attracting funding and has done good  
things with past funding. The review committee believes that ICAM will  
continue to receive external support from funding agencies.

Recommendations are:

1. ICAM should continue as an Interdisciplinary Center. 2. The  
membership list should be looked at carefully, to make sure all people  
involved in ICAM are included. The way that ICAM is funded is a little  
bit of a difficulty, Ad hoc funding, certain rules change. 3. ICAM  
should proceed with formation of a Stakeholder's (University Policy #  
3020), where that committee would participate in any future deliberations  
over who would direct ICAM. 4. How will Mellissa Chase be supported?

Dr. Uysal made motion to approve the report, Dr. Brown seconded, and  
report was unanimously approved.

5. "Update on Resolution Statement and Vote on Presidential Selection  
Committee Statement": Dr. Brown presented and handed out a document on  
the resolution on COR and Graduate Studies & Policy. Skip Fuhrman will  
make a presentation, approved and endorsed by COR, to the Presidential  
Selection committee on May 1, 1999. Dr. Uysal motioned for acceptance of  
the endorsement. Motion was unanimously passed. (Statement attached)

6. Election of COR Chair for 1999-2000: Nominating COR (Dr. Uysal, Dr. Finch & Dr. McGilliard) nominated Dr. Terry Herdman. Dr. Sue Tolin motioned and Dr. Roger Simpson seconded, and it was unanimously passed.

7. Discussion of Research Faculty Policies: After considering discussion of Dr. Peters' memo concerning the nature of Research Professor appointments, the committee endorsed the statement and interpretation in general, that research professor's teaching assignments would be limited to an occasional graduate level course in areas of the Research Professors expertise". (see attached memo dated Sept. 18, 1995)

8. New Business: COR will share concerns, wishlist for new agenda items with Dr. Herdman at [herdman@icam.vt.edu](mailto:herdman@icam.vt.edu) prior to next meeting.

9. Adjournment: The meeting was adjourned at 5:05 p.m.