Creation of the Future 1

Access, Excellence, Leadership

Office of Academic Affairs
University of Wyoming
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This document is an invitation to university planning for the period 2009-2014. Comments are welcome at

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I. AN INVITATION TO UNIVERSITY PLANNING

The University of Wyoming has entered a pivotal stage of its history. Our state, which weathered prolonged economic stress at the end of the last century, now enjoys unprecedented fiscal resources. The state’s leaders look to education as a key to long-term advancement. As Wyoming’s only public, baccalaureate-granting institution, UW is at the center of these discussions. Along with a talented faculty and dedicated staff, among the university’s most important assets are a refined set of academic foci and a solid commitment to the planning needed to advance them.

This document represents an early stage in the development of an institutional plan (University Plan 3, or UP3) for the period 2009-2014. It is part of a multistage template for planning established in the development of Academic Plan 2 (AP2), adopted by the Trustees in 2004:

Stage 1: Identifying the main issues and themes, through presentations to and feedback from college deans, department heads, the Faculty Senate and other faculty groups, ASUW, Trustees, support service divisions and their directors and members of the President’s Executive Council.

Stage 2: Formulating specific ideas through a sequence of increasingly detailed position papers, of which this document is the first.

Stage 3: Developing department- and college-level plans that are responsive to the main issues and themes.

Stage 4: Developing a university-level plan.

Each stage will involve discussion, feedback, and refinement of ideas and drafts. The purpose of the early stages is to advance ideas for discussion, not to cast them in concrete. Accordingly, in many cases the current document identifies issues without proposing specific measures to address them. The aim is to develop a plan that reflects the best thinking of as many stakeholders as possible. A detailed time line for the overall process appears at the end of this document.

The current document is the first step in stage 2. The remainder of the document has the following structure:

II. Introduction of five motifs, serving as organizing principles for strategic planning.

III. A sketch of issues associated with one of these motifs, access to higher education.

IV. Brief discussion of another motif, fostering excellence.

V. Brief discussion of a third motif, cultivating leadership.

VI. Conclusion.

Complementing the academic dimensions of planning are those associated with support and infrastructure — facets of the university without which academics cannot function effectively. In contrast to the planning processes used for AP1 (1999) and AP2 (2004), we envision a more inclusive plan for the period 2009-2014. Academic Plan 2 fostered a commitment to interdisciplinary academics — a culture that we wish to sustain. UP3 will broaden this mandate, identifying opportunities for the academic and support divisions of the university to collaborate more closely.
The plan for the period 2009-2014 will integrate the institution’s academic plan with plans for support services and capital facilities, to ensure that all of the plans mesh effectively with the university’s major academic directions.

The Office of Academic Affairs welcomes all feedback to this document, including comments about issues that do not appear, suggestions for reframing issues that do appear, and proposals for well-defined action items at all levels of the institution. All formats are welcome; comments and suggestions relayed in writing or via email are easiest to incorporate into subsequent documents. Although we welcome personal messages, it is possible to email comments to up3@uwyo.edu.

II. PLANNING MOTIFS

We propose five motifs as organizing principles for UP3.

Motif 1: Building depth versus adding breadth. UW has many academically distinguished programs. Few, however, enjoy the faculty depth, graduate assistantships, or support budgets to which they aspire. Wyoming’s strong economy furnishes an opportunity — indeed, a mandate — to build genuine depth in areas of distinction in which we have struggled to do so for decades.

Good strategic planning requires balancing the imperative to build depth and strength in existing programs with the inevitable pressure to add new degree programs. To help strike this balance, any proposal to add a new degree program should address the following questions:

- **Foundation.** Does UW have sufficient faculty expertise and commitment — and student interest — to sustain a viable program?

- **Cost.** To what extent will the proposed program require new faculty positions, new support staff, new or renovated space, new library resources, and new support funding? To what extent can these resources come from redirection of resources currently dedicated to outdated programs?

- **Curriculum.** To what extent will the proposed program require courses beyond those currently offered? To what extent can these courses replace existing courses, instead of simply adding to the faculty’s overall teaching commitments?

Temptation to add programs is rarely matched by willingness to eliminate programs, but doing so is necessary in promoting a dynamic, up-to-date, and adequately funded curriculum. UW’s regulation governing academic program closure prescribes a procedure that is time-consuming and effort-intensive, even when there is consensus among the affected faculty and student demand is low. We invite the Faculty Senate to examine UniReg 43, with the aim of streamlining the processes by which departments can eliminate obsolete or nonviable degree programs.

Building depth requires more than balancing mission and resources. It requires deep thinking about the organization itself. Being one of the nation’s smallest public research universities, UW has virtually no hope of matching the department sizes characteristic of sister institutions in states like Texas, Illinois, California, and Washington. However, we can capitalize on our scale through interdisciplinarity. By promoting shared scholarly interests and overlapping areas of expertise across department and college boundaries, individual academic units can expand their intellectual communities within the university, at the same time as they build their stature in national and international arenas. The next motif addresses precisely these shared interests and overlapping areas of expertise.
Motif 2: Reinforcing areas of distinction. As part of the academic plans developed in 1999 and 2004, UW identified six areas of distinction. Areas of distinction are broad areas of academic inquiry and curriculum in which the institution has both an existing foundation in faculty expertise and a commitment to sustained and increasing prominence. In alphabetical order, the areas of distinction identified in the 2004 academic plan are as follows:

- Critical areas of science and technology
- Cultural assets, arts, and humanities
- Environment and natural resources
- History and culture of the Rocky Mountain region
- Life sciences
- Professions critical to the state and region.

These areas are neither carved in stone nor codified in regulation. Still, it makes little strategic sense to change an institution’s major academic directions radically from one five-year planning period to the next. A central task for the 2009 plan will be to refine and reinforce these areas.

Areas of distinction provide opportunities for many academic departments, even small ones, to pursue excellence and depth. This strategy stands in contrast to a more common model, which is to identify “marquee departments” for special emphasis and funding. By pursuing excellence in a well defined set of themes, UW can enhance its ability to recruit outstanding faculty members and students across the institution. Wyoming and the region will be better places to live — a rich environment for personal growth, cultural depth, intellectual leadership, and economic development — if the university offers a stable, carefully crafted set of academic directions that involve all colleges and that enjoy national and international recognition.

Motif 3: Promoting access to higher education. Access is the first of three motifs proposed in President Buchanan’s convocation address in 2006. As a public land-grant institution, the university has an historic commitment to access to higher education. Access also refers to our responsibility to guide students and to hold ourselves accountable for how much they learn. Access is one of three broad headings used below to organize the issues and initiatives that, we believe, merit closer attention in UP3.

Motif 4: Fostering excellence. Excellence is the second motif advanced in the President’s 2006 convocation address. As discussed below, many of UW’s most fertile opportunities to foster excellence reside in the areas of distinction. Others reside in the institution’s responsibility to build excellence in human capital. Yet a third category of opportunities revolves around the need to plan for excellence in UW’s capital facilities, also discussed below.

Motif 5: Cultivating leadership. The President’s third motif is leadership. Few states look so consistently to their flagship university for leadership. UW is Wyoming’s most logical anchor for the professional and civic efforts required to build a magnet environment — what Wallace Stegner called a “society to match the scenery.” Many of these efforts involve professions critical to the state and region, as these are among UW’s most publicly visible vehicles for strengthening communities.

Each of motifs 3, 4, and 5 deserve more detailed discussion.

III. ACCESS

With the Hathaway scholarship program in place, a tradition of cooperation among the university and community colleges, and recent increases in permanent funding for post-secondary education, Wyoming is poised for national leadership in promoting access to higher learning. The university has a responsibility to address four broad areas to help make this vision a reality.
Cost of attendance. The Hathaway scholarship program represents a remarkable stride in lowering the cost barrier to a college education, but it does not eliminate that barrier for all students.

- UW has considerable resources, in the form of privately funded scholarships, with which to complement the Hathaway program. An important potential use of these resources — one that requires careful study because of the complexities associated with endowment agreements — is to enhance need-based support for non-tuition costs of a UW education. These costs are especially significant for low-income, nontraditional, and part-time students, for whom there are few other sources of financial aid.

- The Hathaway program has also confounded UW's deliberations on tuition rates. Because tuition revenues constitute a significant part of UW's operating budget, the institution needs a coherent policy for determining tuition rates. Such a policy would (1) identify the appropriate uses of revenues generated by tuition increases, (2) strike a balance between the public and personal benefits of a college education, and (3) clarify the institution's mechanisms for minimizing adverse impacts on students for whom cost is a genuine barrier.

- Many of UW's residence halls and apartments need remodeling and upgrading. Yet the costs, traditionally borne by students who use the buildings, can add significantly to the cost of attendance. A university housing plan, including clear fiscal plans for operating and upgrading these facilities, must be a factor in our deliberations on student fees as well as an element in UW's capital facilities plan.

Delivery. Along with institutions nationwide, UW delivers an increasing portion of its curriculum to nontraditional students in nontraditional modes.

- UW administrators have already begun discussions about enhanced partnerships with Wyoming community colleges in the delivery of baccalaureate and masters'-level coursework and degree programs. In some cases, such as with Laramie County Community College and our long-standing partnership with Casper College, the conversations focus on new buildings. In other cases there is less emphasis on bricks and mortar and more on specific academic programs. Partnerships between UW and the state's community colleges and the developing Wind River Tribal College represent a sound model for expanding access to higher education. However, considerable academic and administrative planning will be necessary to determine the appropriate degree programs to offer and the staffing levels needed.

- The demand for distance education in Wyoming is rapidly outstripping the infrastructure available to deliver it. A plan for the state's distance-education infrastructure, including upgrades and maintenance of the state's data networks and facilities, not only would help address the fastest growing segment of UW's student body but also would facilitate coordination among all levels of education throughout Wyoming.

- UW's academic calendar plays a role in access to academic programs. Some faculty members have expressed interest in a winter session; others ask whether a different structure for summer session could more effectively serve students needs. And meshing the traditional 15-week semester with the Outreach School's calendar poses some unresolved challenges for faculty members involved in distance education.

Student success. Access without a reasonable chance at success is a hollow benefit. UW must work across the spectrum of Wyoming's educational network to ensure that students enter college with the right preparation, begin their college careers with the right courses, and have access to the right tools and resources to succeed.
• With UW’s leadership, the state has recently established a P-16 (pre-school through baccalaureate) Council, to promote information sharing and cooperation among various sectors of Wyoming’s education system. This council is a vehicle for more vigorous articulation among UW, the community colleges, and K-12 teachers and for smoothing the transition between high school and college — efforts already seeded through the work of individual UW faculty members, the Wyoming School-University Partnership, and initiatives funded by the School of Energy Resources.

• Four out of 10 UW students are nontraditional: they are over 25 and are not entering university directly from high school. The university must identify ways to assess nontraditional students’ preparation for the university experience and provide resources to promote their success.

• Since the 2004 Academic Plan, UW has made significant headway in the assessment of student learning. This progress notwithstanding, our assessment culture is still a patchwork: some disciplines have made tremendous progress; others still struggle to identify well-defined outcomes. A productive next step will be to establish a best practices institute for the assessment of student learning, to facilitate a vibrant exchange of ideas on how to gauge the effectiveness of UW’s curriculum.

• The Hathaway success curriculum, enacted by the 2007 Legislature, delivers a profound message about the importance of high school preparation in post-secondary education. Assessing the Hathaway curriculum is a statewide responsibility. Still, UW has a natural role to play in helping to refine the curriculum over time. Of special interest are the impacts that the curriculum will have on students’ preparation for the core college curriculum.

• Expanding programs for students who have not declared majors has the potential for retaining more students through graduation. Establishing a learning community with clustered courses could serve the undeclared student and help with course management at UW.

Inclusiveness. As the state provides new opportunities for its students, the responsibility falls to UW to maintain an inclusive environment for teaching and learning. We need to continue reaching out to those for whom opportunity may not come so easily: students of color, students of limited economic means, students who have never even dreamed of going to college. And we must cultivate the diverse and heterogeneous environment that our graduates will find as participants in the global economy.

• The institution has made great strides in expanding students’ opportunities to study abroad and in smoothing some of the increased bureaucratic barriers that confront international students and scholars who seek to study and work at UW. A key element in UP3 will be to solidify the institution’s emphasis on internationalization, in part by enhancing opportunities for study abroad and in part by more effectively importing international perspectives into the curriculum.

• A coherent plan for more effective recruitment and retention of students of color may include such measures as partnerships with historically black colleges and universities and with other minority-serving institutions of higher education; greater outreach to Latino and Latina students, especially in Wyoming and Colorado; and more focused efforts to recruit and retain American Indian students.

• UW has arguably had less success in retaining women and people of color on the faculty than in recruiting them. Recent first steps in analyzing the roots of this problem have included a salary equity study, participation in a nationwide survey on the experiences of early-career faculty members, and an examination by the University Tenure and Promotion Committee of potentially subtle barriers to reappointment, tenure, and promotion. The issue’s
very persistence — at UW and at research universities nationally — suggests that additional measures are worth investigating.

• An issue of increasing prominence in the American workplace is providing fair, equitable benefits to domestic partners of UW employees. For UW to remain competitive with the corporate sector, with the top tier of private universities, and with an increasing number of our public peer institutions, we must develop expanded health insurance coverage and a sound strategy for funding an appropriate suite of benefits.

• UW has made significant progress toward full access for students and employees with disabilities. An important task for UW for the near future will be implementation of key recommendations made by UW's disability services task force.

• Through planning, coordination, outreach and grants administration, UW can continue to grow the population of Wyoming students pursuing post-secondary education. Close collaboration with K-12 and Wyoming community colleges to help students understand the opportunities of higher education in our state is essential in expanding the student pipeline.

IV. EXCELLENCE

Among the most productive pathways to excellence is through areas of distinction, defined earlier in this document. AP2 identified six areas of distinction, five of which are as follows:

• Critical areas of science and technology
• Cultural assets, arts, and humanities
• Environment and natural resources
• History and culture of the Rocky Mountain region
• Life sciences.

A sixth area,

• Professions critical to the state and region,

is one of the central topics of the next section.

Critical areas of science and technology

AP2 advanced three focus areas in science and technology:

• Energy and earth science,
• Computational science,
• Materials science.

Each area is potentially quite broad and therefore faces the risk of being ill defined or spread too thin. Lasting depth will require sustained attention to a clearly understood set of shared interests among affected departments. In addition, any strategic thinking about the future of these three areas must take into account the intellectual overlaps among them.

• Increases in enrollments, curricular changes, and growth in the research enterprise have combined to place significant stresses on UW's laboratory space. High on the list of priorities for new capital facilities is a science teaching laboratory facility, which would provide modern laboratory space dedicated to instruction in entry-level laboratory courses and relieve some of the pressure on research laboratory space.
- UW's presence in the computational sciences, once limited to isolated sectors of the faculty, is now well established. Nevertheless, the university's computational science community is still too small to support the institution's recently established partnership with the National Center for Atmospheric Research (NCAR). Key tasks for UP3 will include (a) hiring at least five faculty members who have joint appointments with NCAR and (b) developing a coherent plan for UW's high-performance computing infrastructure.

- The School of Energy Resources (SER), established with new state funding in 2006, provides a vision and a set of incentives for expanding UW's traditional strengths in earth and energy science. The school itself faces a delicate task of balancing the need for relevance to Wyoming's current energy portfolio, which is truly remarkable but largely based on fossil-fuels, with the need for a broader energy portfolio for the long term. A critical task in stabilizing SER is the planning, funding, and construction of a School of Energy Resources facility, to house interdisciplinary teaching and research in disciplines contributing to the school.

- Materials science remains the least well organized of the three areas. In part this fact is attributable to the sheer breadth of the field itself; in part it is attributable to differences in vision among various faculties. Perhaps the most effective pathways toward a better focused materials science program at UW are through such scientific areas as the Molecular and Cellular Life Science program, discussed below, and our growing community of computational scientists.

- Some faculty members have proposed creating a College of Science, to provide a new administrative home for the science departments residing in existing colleges. While issues of organizational structure are inherently controversial, academic planning is the proper context in which to examine them. Any proposal to reconfigure UW's college structure should identify the tangible benefits to teaching, research and service; the real costs of adding a new complement of administrators and staff members; and the intangible costs of the bureaucratic churn associated with the transition.

### Cultural assets, arts, and humanities

Already home to the richest array of cultural assets in the state, UW enjoys a reputation in the fine arts and humanities that would be enviable even at larger, wealthier institutions. With strong academic programs in the studio and performing arts, a new MFA program in creative writing, an art museum of increasing national prominence, and outstanding archives, the university has an impressive array of attributes upon which to build a magnet environment.

- AP2 called for stronger links between the Art Museum, the American Heritage Center, and the curriculum-bearing programs in the fine arts and humanities. To a commendable extent, the directors of these units have expanded and fostered these links. UP3 should promote solidification of these efforts, where feasible, through the establishment of joint positions and more significant incorporation of the collections into the curriculum.

- The Fine Arts Building no longer suffices to house the Departments of Art, Music, and Theatre and Dance. A pressing task for the coming years is to seek funding for new fine arts facilities, including a new building to house visual arts programs and funds for renovation needed to make the existing building suitable for teaching and learning in the performing arts.

- The facilities housing the American Heritage Center archives and the Art Museum suffer from a complicated array of maintenance and repair problems whose resolution apparently will require several years and millions of dollars' worth of work. A plan for the maintenance and
repair of the Centennial Complex is a critical step in the advancement of this area of distinction.

- In any university, identifying consistent focus areas for the humanities is, by the nature of the disciplines, a challenging task. Several UW faculty members have proposed the establishment of a humanities institute, to provide a unified intellectual home and common forum for this segment of UW's scholarship. Recognizing that there may be disparate thoughts about the best configuration and mission for such a center, we encourage interested faculty members to lead the discussion.

Environment and natural resources

UW's expertise and reputation in environment and natural resources (ENR) are now firmly established. Measures worth exploring further include the following:

- One of the most promising opportunities in the near term is the potential for strong connections between the Haub School and Ruckelshaus Institute for Environment and Natural Resources and the School of Energy Resources. Complementing this opportunity — especially in light of increasing undergraduate enrollments in the area — is the need for a review of the Haub School’s structure and its teaching workforce.

- UW has faculty expertise in water resources distributed across many departments and several colleges. Water resources being central to the life and economy of the Rocky Mountain west, there are compelling reasons to explore interdisciplinary graduate and professional programs and enhanced faculty expertise in water-related fields.

History and culture of the Rocky Mountain region

Potential measures for advancing the institution’s already considerable presence in this area of distinction include the following:

- Several social science departments, the American Heritage Center, and the Art Museum already house collections and expertise focused in this area. Continued emphasis on faculty expertise in Rocky Mountain history, culture, religions, and immigration will help solidify these assets. A proposal for a major in Religious Studies holds some promise in this respect, subject to the caveats listed in section II above for new degree proposals.

- A preliminary vision for an American Indian Center at UW is another promising avenue for advancing interdisciplinary scholarship in a core element of this area of distinction and for promoting the recruitment and retention of American Indian students and faculty members.

Life sciences

Like many land-grant universities, UW has a long tradition of strength in the life sciences. In recent years this strength has become more focused. Through a combination of efforts, including academic planning, new graduate programs, and large programmatic grants, UW has identified several focus areas for faculty hiring, doctoral education, and infrastructure development. Three of these areas have been particularly successful, having attracted widespread faculty interest across several departments and colleges:

- Ecology
- Molecular and Cellular Life Science (MCLS)
- Neuroscience.

An important question for UP3 is how to refine and complete this set of focus areas.
The question of refinement is especially difficult. Each of the three areas listed above admits so much breadth that it risks having little sustainable focus. In practice, however, UW already has several outstanding nucleation sites around which to develop future faculty hiring in each area. A critical task for the life science faculty will be to craft a strategy for avoiding intellectual dilution in these areas.

The question of completeness is essentially the question whether the three focus areas listed above are sufficient. Not all of UW's life scientists fit naturally into these areas. And there have been numerous suggestions for other focus areas: reproductive biology, systems biology, biomedical science, to mention just a few. The arguments range from a desire to encompass all existing areas of life-science expertise to a perceived need for closer links between clinically oriented and research-oriented programs.

- Defining a reasonably complete and stable array of life-science doctoral programs is perhaps the most difficult — and most important — task facing life scientists at UW. A recent position paper\(^1\) on life science doctoral programs, posted by the Graduate School and the Office of Academic Affairs, provides some suggestions and ground rules for this discussion, which we urge the faculty to undertake. The questions posed in section II above for new degree proposals will be critical in this project.

- The Program in Ecology (PiE), established as a doctoral program under AP2, has rapidly acquired stability and momentum. We encourage affected faculty members to explore natural ties among PiE, the Haub School of Environment and Natural Resources, and the School of Energy Resources in matters related to land use policies, wildlife, long-term impacts of energy development, and an understanding of climate change.

Building excellence in human capital

The foundation of an excellent university is excellent people. In UP3, we urge greater institution-wide attention to developing the talents of our students, faculty, and staff.

- More effective recruitment and retention of top undergraduates from both within and outside of Wyoming will have a profound effect on UW's educational climate, not only in our classrooms but also in students' personal aspirations and the co-curricular learning environment.

- UW has made noteworthy strides in assessing its curriculum and in cultivating an institutional environment focused on learning. Measures to encourage further advances will help solidify the learning cascade — from cutting-edge scholarship to classroom-based learning — that undergirds UW's competitive advantage as a research university.

- Faculty hiring and retention practices are pivotal in determining UW's future. While UW's culture of excellence in hiring has grown more robust over the past decade, several issues are perpetual sources of concern. We welcome fuller discussion of credit toward tenure, early tenure, and the appropriate institution-wide criteria for promotion to the rank of professor.

- UW's practices in budgeting for classified staff positions leave little room for adaptivity or responsive decision-making. A key step for the next five-year planning period will be to develop an effective system for allocating some fraction of the resources associated with vacated staff positions.

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Building excellence in capital facilities

- The Laramie campus is undergoing an unprecedented period of new construction. Pressures for continued growth in capital facilities suggest the need for a comprehensive master plan for UW properties east of 15th Street.

- Concomitant with the expansion of the Laramie campus is the need for a comprehensive UW-Laramie transportation plan.

- As a leader in energy-related teaching and research, UW has a responsibility to demonstrate the principles of sustainable and energy-efficient operating practices, not only through business practices such as recycling and energy conservation but also in its plans for new facilities, including plans for the future operation of the central energy plant.

- Given the growth in off-campus enrollments as well as the need to serve Wyoming citizens through the Cooperative Extension Service, Student Educational Opportunity, and Wyoming Small Business Centers, UW should develop a comprehensive statewide plan for learning facilities.

V. LEADERSHIP

As a planning motif, leadership spans both the institutional and personal levels. The university itself has a leadership role to play, most prominently in educating people for professions critical to the future of the state and region but also in nurturing a reserve of expertise to help solve the state’s most pressing problems. Paralleling the institution’s leadership role is the responsibility to cultivate the often intangible aspects of character at the personal level that make good leaders. This mandate seldom appears explicitly in a university’s curriculum or in any enumeration of its research or service accomplishments. A central element of the 2009 institutional plan will be to weave this motif more tightly into the fabric of our students’ experiences and our employees’ careers.

Professions critical to the region’s future

Arguably more critical in Wyoming than in other states is the need to align a significant portion of the university’s teaching, research, and service with the economic needs of the state and region.

Health care

- The national landscape in health care includes rapid growth in the number and cost of clinical degree programs. To remain responsive to the needs of the state and region, UW must focus its faculty energies on a thoughtfully circumscribed set of programs and practical experiences, through a comprehensive clinical education plan in the College of Health Sciences.

- Wyoming faces a persistent shortage of primary care physicians. The urgency of the problem suggests a more integrative mission for UW’s Division of Medical Education and Public Health in the recruitment, training, and career placement of physicians, ranging from recruitment into the premedical curriculum through the post-residency placements.

- UW has wide-ranging expertise in mental health disciplines. To build on this expertise, we urge faculty members in the relevant departments to form an interdisciplinary mental health collaborative, to organize the institution’s involvement in the mental health issues that are widespread in Wyoming’s communities.
Education

- Wyoming is fertile ground for improvements in science, technology, engineering, and mathematics (STEM) education — a topic that looms large in national conversations about elementary and secondary education. UW’s new partnership with NCAR suggests an opportunity for truly creative initiatives to import computational science into the K-12 curriculum.

- UW has many departments that house expertise in early childhood. We encourage even greater collaboration among these units, both in research and in the development of Wyoming’s child-care workforce.

- The College of Education has become a center for scholarship in literacy and English as a second language, areas that appear to be poised for national prominence.

- The College of Education also faces continual pressures to provide lifelong learning and professional development for in-service teachers throughout Wyoming. We recommend that the college develop a professional development plan to manage these pressures responsively.

Energy

- The School of Energy Resources already furnishes a remarkable set of resources for colleges that can contribute to the school’s mission. An important task for the next few years will be to establish a reasonably stable portfolio of well-funded energy research centers within SER’s Institute for Energy Research.

- Open questions remain about the possibility of a baccalaureate curriculum housed in SER. The Earth Systems Science major is one possibility. Balancing the interest in defining an SER-sponsored undergraduate curriculum is SER’s main mission, which is to provide support and incentives for energy-related teaching and research in UW’s seven colleges, which are more natural homes for majors and degree programs.

- Carbon management is a rapidly growing area of research, owing to international concerns about the climate-related impacts of energy consumption. Because carbon dioxide is an inevitable by-product of fossil fuel use, and because of the close technical connections between carbon dioxide management and Wyoming’s oil and gas production, there is an urgent need for a well-defined strategy for SER’s involvement in carbon capture and sequestration.

Economic and community development

- UW’s Cooperative Extension Service has begun to be involved with household energy education and economic development in communities experiencing energy-related impacts. We urge CES to deepen this role, and to address longer-term community issues associated with energy conservation and sustainable energy use as well.

- The Office of Research and Economic Development manages and coordinates a wide array of initiatives supporting economic diversification and development, entrepreneurship, innovation and business incubation. Many of these initiatives provide excellent avenues for colleges and their faculty and students, such as the College of Business, to link to the university’s economic development activities.
• To augment the Wyoming Technology Business Center, we encourage closer examination of prospects for a research park in southeast Wyoming.

Law

• Recent increases in faculty resources provide an outstanding opportunity for enhanced faculty depth in natural resource and energy law, a goal that we see as critical to building strength in the College of Law.

• As a link between its professional degree and one of UW's longest-standing areas of distinction, the College of Law has proposed an option in Environment and Natural Resources within the JD program.

Knowledge transfer and policy analysis

• The School of Energy Resources creates new opportunities for statewide energy-related outreach. We urge the Western Research Institute to become a partner in delivering these programs.

• UW is home to an enormous reservoir of faculty expertise in areas of interest to policy-makers. To facilitate the contributions of experts from many disciplines to local, state, and federal decision-making, we advocate the exploration of a policy analysis clearinghouse at UW.

Cultivating leaders

Universities are home to many of society's intellectual leaders, and they develop future leaders in all walks of life. These roles suggest more prominent roles for many aspects of UW's mission that extend beyond the traditional setting of the credit-bearing curriculum.

• To promote greater levels of excellence in one of UW's premier academic programs for future leaders, we propose increased attention to the infrastructure and support for the Honors Program.

• A wide array of UW's student programs have proven highly effective at fostering student leadership, civic engagement, and place-based and service learning. These programs range from ASUW to athletic and club-sport teams to the Outdoor Adventure Program, to mention just a few. We urge more systematic attention to leadership development in organizations like these.

• Universities need a steady supply of leaders in the faculty, staff, and administration, not only to assume formal management responsibilities but also to provide day-to-day guidance in tasks that are essential to higher education. To promote rich opportunities for lifelong personal growth and to ensure smooth transitions in governance, it is critical to implement programs for developing leadership skills and career pathways among UW's faculty and staff.

• UW already plays a role in leadership development statewide, as a partner in Leadership Wyoming. However, the program can be substantially enhanced through greater UW faculty and staff participation in the program.
VI. CONCLUSION

The future of the University of Wyoming is inextricably linked to the health of our state. As Wyoming’s only public university, UW has the capacity to make Wyoming and the Rocky Mountain region an environment where people value higher learning, where citizens enjoy opportunities for rich and rewarding lives, and where arts, creativity, and the entrepreneurial spirit flourish. Our challenge is to build a citizenry and an economy that sustains thriving, culturally vibrant communities. UW must be the catalyst, providing the access, promoting human excellence, and demonstrating the leadership needed to create the future.

Anticipated Time Line for UP3

AY 2006-2007: Propose main issues through presentations in various forums
October 2007: First position paper from Academic Affairs
Department-, division-, and college-level conversations, feedback to Academic Affairs
March 2008: Second position paper from Academic Affairs
Department-, division-, and college-level conversations, feedback to Academic Affairs
August 2008: Third position paper from Academic Affairs
October 2008: Due date, first draft of department-level plans and other division-level plans
November 2008: Due date, first draft of college-level plans
January 2009: First draft of university plan
March 2009: Final drafts of all plans
May 2009: Consideration by UW Board of Trustees
The task of the university is the creation of the future, so far as rational thought, and civilized modes of appreciation, can affect the issue.

Alfred North Whitehead