Minutes of Faculty Senate Meeting
10 February 2011

Chair Stan Howard called the meeting to order at 11:06 a.m. Senators present: Drs. Jason Hower, Marius Ellingsen, Dan Kratzer, John Dreyer, Frank Matejcik, PV Sundareshwar, Travis Kowalski, Bill Cross, Michael Foygel, Larry Stetler, Chip Tolle, Thomas Fontaine, and Purushotham Tukkaraja proxy for Chuck Kliche, with Al Boysen excused

Upon motion by Bill with second by John, the agenda for today’s meeting was approved. Upon motion by Larry with second by Marius, the minutes of the 13 January 2011 Faculty Senate and the 27 January 2011 General Faculty meeting were approved.

Report from the Chair
A. General Faculty meeting report
   See Minutes, Thanks to Dr. Wharton for attending
B. Master Planning update
   Ongoing process, next campus visit in March
C. GPA for Graduation Requirements
   AAC considering a BOR policy for a GPA limit of graduation
   Senate does not see need for BOR to police graduation GPA limits
   Graduate student policies in ECE and RIAS require GPA of 3.0 in program of study
D. University Cabinet Report
   Students do not have school – provided insurance
   School employees have workmen’s compensation
   Update to Vehicle Fleet and Travel policies in 2nd reading
   Motorcycles are not covered by school insurance for business travel
   Campus Logo and Branding policy in 2nd reading
   Campus Committees are being updated
   Student Senate Resolution requesting smoking policy be enforced

Reports of Standing Committees
E. Academic Affairs:
   Common Exam Policy – CLOSED
   Curriculum Requests from Feb. 2011 – List Attached
   Primarily changes in co/pre-requisites
   BS EnvE program modification – remove PHYS 213 from required and replace with Science Elective – catalog requires PHYS 213 for all engineering curricula
   Co-requisite refers to “before or during”
   Upon motion by Bill, seconded by Larry, all curricular request with the exception of BS EnvE Program modification be approved. The motion carries
   Upon motion by Bill, seconded by PV, the BS EnvE Program Modification be approved.
   Discussion
Proposed removal of PHYS 213 conflicts with catalog requirement of PHYS 213 for all engineering curricula. Need to consider changing the catalog before approving BS EnvE. Upon motion by Chip, seconded by Tom, the motion to approve the BS EnvE program modification was tabled.

Catalog Requirement for 16 credits of Basic Sciences – Report Attached
No definition of basic sciences
Faculty “owns” the catalog requirements within the limits of BOR policy
Catalog requirements should satisfy ABET Basic Science

The Academic Affairs Committee was charged with developing recommendation regarding catalog requirements of basic sciences including a definition of Basic Science for report at March meeting.

F. Research and Scholarly Affairs:
   Research Overhead Rates – CLOSED

Ethics and NSF requirement (with Academic Affairs) – report in March

G. Finance and Personnel:
   No Report

H. Student Affairs:
   Campus Advising Practices -- CLOSED

I. University Relations:
   No Report

J. Senate Bylaws
   No Report

Old Business
1. None

New Business

1. Campus Committee Restructuring – Current List Attached
   Provost is working to streamline University committee structure
   Senate is encouraged to participate in key University committees

2. Librarians and Tenure from DSU – Letter Attached
   COHE issue, but unclear if SDSM&T Librarians are tenure eligible
   Side Discussion regarding place of Faculty Senate in University Environment

3. Simpson Award
   No nominations submitted as of 9 Feb., deadline is Friday
   Dr. Howard requesting nominations from Senate members

4. Student Opinion Surveys (Dr. Cross)
   Concern regarding submission rates
   Dr. Kowalski to ask for response rate data from Dr. Hrnir and consider the statistical

Upon motion by Larry, seconded by Bill, the meeting adjourned at 12:35pm.
Bachelor of Science Graduation Requirements

Curricular Requirements
All bachelor of science programs require the general education core requirements as described earlier. Other requirements for each degree are determined by the faculty in each program, with approval through the university curriculum approval process. Some of these other program requirements are common to most or all programs offered at School of Mines. These include

A. Mathematical Sciences: all programs, with the exception of interdisciplinary science, geology and mining engineering, require a minimum of 16 credit hours of mathematics at the level of calculus and above. To qualify for MATH 123, Calculus I, a student must have completed at least three units of mathematics in high school and must have obtained an acceptable score on the School of Mines mathematics placement examination. A student with less preparation in mathematics may register as a freshman in engineering but will be required to start the mathematics sequence at a level indicated by his or her formal preparation and all School of Mines mathematics placement examination scores or ACT placement score. Mathematics courses taken below the level of MATH 123 are not totaled in the semester hours required for each curriculum with the exception of the B.S. in Interdisciplinary Science and the A.A. in General Studies. MATH 021 and MATH 101 do not count toward any degree.

B. Basic Sciences: minimum of 16 credit hours - CHEM 112, 112L, PHYS 211, and PHYS 213 are required for all engineering curricula.

C. Humanities and social sciences: minimum of 15 or sixteen 16 credit hours - This subject area must include six credits in humanities and 6 credits in social sciences. The number required for each major is listed in the department section of the catalog. Students majoring in engineering must complete at least three of these credits at an advanced level.

Source: http://resources.sdsmt.edu/catalog/academic-information.pdf

Basic Sciences are not defined by the five dictionaries I examined. Wikipedia redirects basic science to fundamental science and says

“Fundamental science (or basic science, pure science) is science that describes the most basic objects, forces, relations between them and laws governing them, such that all other phenomena may be in principle derived from them following the logic of scientific reductionism. Physics is a typical fundamental science, chemistry is sometimes included. There is a difference between fundamental science and applied science (or practical science)\(^1\). Fundamental science, in contrast to applied science, is defined as a fundamental knowledge it develops. The progress of fundamental science is based on well controlled experiments and careful observation. Fundamental science is dependent upon deductions from demonstrated truths, or is studied without regard to practical applications. Fundamental science has traditionally been associated
with the natural sciences, however, research in the social and behavioral sciences can be deemed fundamental (e.g., cognitive neuroscience, personality).”

So one could use the definition of natural sciences for basic sciences

Earth Science (Geology, Atmospheric science, Materials Science, Oceanography)
Chemistry
Biology
Physics

Current counts

Civil Engineering – 16
Computer Engineering – 11
Electrical Engineering – 11
Environmental Engineering – 16+
Geological Engineering – 16+
Industrial Engineering – 11
Mechanical Engineering – 11 (15)
Metallurgical Engineering – 20
Mining Engineering – 13 (16)
Curriculum Requests February 2011

To Academic Affairs Council
New Baccalaureate Degree Minor
Minor in Robotics

To Academic Affairs Council
Revised Course Request: Common Course
EM 214 Statics
EM 331 Fluid Mechanics

To Academic Affairs Council
New Course Request
CEE 130/130L Introduction to Civil Engineering
CEE 500 Research Methods
CBE 463 Process Design for Chemical Engineering
CBE 466 Capstone Design for Chemical Engineering
CM 619 Construction Company Management
ENVE466 / CEE 466/566 Environmental Engineering Process Design

FOR INTERNAL USE ONLY
Existing Courses: Minor Modification Requests
ATM 406 / BIOL 403 Global Environmental Change
CBE 111/111L Introduction to Chemical Process Modeling
CBE 217 / ENVE 217 Chemical Engineering I
CBE 218 Chemical Engineering II
CBE 222 Chemical Engineering Thermodynamics I
CBE 250 Computer Applications in Chemical Engineering
CBE 317 / ENVE 315 Chemical Engineering III
CBE 318 / ENVE 316 Chemical Engineering IV
CBE 321 Chemical Engineering Thermodynamics II
CBE 343 Chemical Kinetics and Reactor Design
CBE 361 Chemical Engineering Laboratory II
CBE 362 Chemical Engineering Laboratory III
CBE 417 Chemical Engineering V
CBE 461 Chemical Engineering Laboratory IV
CBE 464 Chemical Engineering Design I
CBE 465 Chemical Engineering Design II
CEE 284/284L Digital Computation Applications in Civil Engineering
CEE 316/316L Engineering and Construction Materials
CEE/ENVE 325 Introduction to Sustainable Design
CEE/ENVE 326 Introductory Environmental Engineering Design
CEE/ENVE 327 Environmental Engineering Process Analysis
CEE/ENVE 327L Environmental Engineering Process Analysis Lab
CEE/ENVE 337 Engineering Hydrology
CEE 358 Applied Structural Design
CEE 368/368L Introduction To Transportation Engineering
CEE 421/521 ENVE 421 Environmental Systems Analysis
CEE 426/526 ENVE 426 Environmental Engineering Physical/Chemical Process Design
CEE 427/527 ENVE 427 Environmental Engineering Biological Process Design
CEE 428L/528L ENVE 428L Environmental Engineering Operations and Processes Lab
CEE 437/437L 537/537L Watershed and Floodplain Modeling
CEE 448/548 Applied Geotechnical Engineering
CEE 451/451L 551/551L Design of Wood Structures
CEE 463 Civil Engineering Profession
CEE 468/568 Highway Engineering
EE 483/483L Antennas for Wireless Communications
ENVE 464 Environmental Engineering Design I
ENVE 465 Environmental Engineering Design II
Delete ENVE 500 Level Courses
MATH 321 Differential Equations
MATH 353 Linear Optimization
CSC 456/456L Operating Systems
ME 216 Introduction to Solid Mechanics
ME 316 Solid Mechanics
ME 322 Machine Design I

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Existing Program: Minor Program Modification
B.S. in Industrial Engineering and Engineering Management
B.S. in Interdisciplinary Sciences, Atmospheric Sciences Specialization
B.S. in Applied and Computational Mathematics
B.S. in Chemistry
B.S. in Chemical Engineering
B.S. in Civil Engineering
B.S. in Computer Engineering
B.S. in Computer Science
B.S. in Electrical Engineering
B.S. in Environmental Engineering
B.S. in Geological Engineering
B.S. in Mechanical Engineering
B.S. in Metallurgical Engineering
B.S. in Physics
M.S. in Civil Engineering
M.S. in Construction Management
Certificate in Construction Management
Committee List

Updated as of: November 5, 2010

Committees Listed by Responsible University Official

President

- Executive Council
- University Cabinet

Provost/Vice President of Academic Affairs

- Academic Appeals
- Admissions Committee
- Atmospheric and Environmental Sciences
- Biomedical Engineering MS/PhD Advisory Council
- Civil and Environmental Engineering Graduate Council
- Commencement
- Cooperative Education Program
- Council on Graduate Education
- Degrees
- Design Fair
- Engineers Week
- Ennenga, Simpson, Kitchen, and Presidential Award for Outstanding Professor
- Faculty Senate
- Financial Aid
- Environmental Engineering Program Management Committee
- General Education Assessment
- Institutional Agreement Management Committee
- Library
- Materials Engineering and Science /MES-MS
- Materials Engineering and Science / MES-PhD
- Nanoscience and Nanoengineering PhD
- Promotion and Tenure
- Retention
- Science Contest
- Science Fair
- Scholarship
- University Curriculum
- West River Math Contest
Vice President for Business & Administration

- Affirmative Action
- Campus Beautification Committee
- Campus and Facilities Planning
- Career Service Council
- Emergency Response and Planning
- Environmental Health, Safety, and Risk (EH&R) Management
- Exempt Employees' Association
- Parking
- Stoltz Faculty-Staff Lounge
- Sustainability Committee
- Tech Educational Radio Council (TERC)

Vice President for Research

- Research and Intellectual Property Council (RIP)

Vice President for Student Affairs

- ADA Advisory
- Ethics
- M-Week
- Student Association Senate
- Student Conduct Council

Vice President for University Advancement

- Branding, Advancement, and Materials Advisory Committee (BAMAC)
- Honors Convocation

Athletic Director

- Athletics
DSU MOTION Regarding Librarians

On January 28, 2011, the General Faculty of Dakota State University voted to approve the following motion:

*That the General Faculty take a position against recent BOR contract proposals concerning library faculty and send the following letter to the people designated.*

To: BOR General Counsel James Shekleton
From: General Faculty, Dakota State University
CC BOR: Director Jack Warner, President Terry Baloun, Regent Kathryn Johnson, Regent James O. Hansen, Regent Harvey C. Jewett, Regent Dean Krogman, Regent Randall K. Morris, Regent Carole Pagones, Regent Patrick Weber, Regent Randy Schaefer
CC DSU: President Douglas Knowlton, Vice President Wittmayer
Date: January 28, 2011
Re: BOR Contract Proposal to Create Librarian Ranks

In negotiating new faculty contracts, the Board of Regents recently proposed to create three classes of faculty: lecturer ranks (instructor, lecturer, senior lecturer), librarian ranks (assistant librarian, associate librarian, librarian), and professorial ranks (assistant professor, associate professor, and professor). As a part of this new class structure, library ranks and lecturer ranks are assigned to term contracts, ineligible for tenure. In targeting librarians, the BOR is denying the option of tenure track and tenured positions based solely on discipline/field.

To deny faculty the option of tenure track and tenured positions based solely on discipline is of considerable concern to all faculty, not just those whose discipline has been specifically targeted for term contracts. Library faculty in South Dakota’s higher education system have functioned with professorial rank for several decades by meeting the requirements for promotion and tenure. Furthermore, the American Association of University Professors (AAUP) adopted as policy in 1973 the *Statement on Faculty Status of College and University Librarians* that calls for the granting of faculty status to academic librarians involved in teaching and research. Drafted jointly with the Association of American Colleges (now the Association of American Colleges and Universities) and the Association of College and Research Libraries (ACRL), the statement was reaffirmed by the ACRL Board in 2007.

The protection of academic freedom through tenure is no less critical for library faculty than for other faculty. Whether librarians are teaching, doing research, selecting materials, recommending materials, or providing access to materials, they must be able to do so unguardedly without threat to their employment or to their ability to perform their professional duties when dealing with controversial topics and information. “Academic freedom gives tenure-track faculty members the freedom to voice opinions and publish in areas where they are trained and without the fear of

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dismissal for going against what university administration and/or certain segments of society agree with."3

The BOR contract proposals offer an option for librarians to hold dual ranks, both a librarian rank and a professorial rank or a librarian rank and lecturer rank. It appears that librarians are the only faculty who must hold dual ranks in order to retain professorial rank and to retain tenure or tenure track positions. That is, a librarian will not be able to be an “Associate Professor” without also holding a librarian rank such as “Associate Librarian.” Evaluation is thus complicated because “librarian ranks will be evaluated under the procedures that pertain to the rank assigned for their primary employment, and their performance in each role will be evaluated independently based upon that [sic] standards that pertain to that role.”4 Thus, librarians will be subject to meeting the evaluation, promotion, and tenure standards for both ranks. However, the dual rank requirement is most likely to affect only librarians currently holding tenure track or tenure appointments who wish to keep those appointments, because we see no evidence that librarians will be hired into anything other than librarian ranks with term contracts under the proposed new contract.

While the new proposal for librarian ranks puts librarians into term contracts without the option for tenure, it also sets additional requirements for promotion above and beyond those of the professorial rank, including the attainment of additional advanced degrees. The minimum qualifications for employment at librarian rank and minimum eligibility criteria for change in librarian rank are excessive compared to other faculty in term contracts.

This is a very odd time to attempt to remove tenure for librarians/information scientists given the roles they play in teaching and scholarship, the increasing emphasis on scholarly research in South Dakota’s higher education system, and the growth of the global information economy.

If the Board of Regents wants to provide a high quality higher education system for South Dakotans and increase the reputation of South Dakota’s higher education system in the nation, then keeping as many faculty as possible within the tenure system where they are expected to meet scholarship, research, and service standards is essential. In this regard, the formation of the lecturer ranks is also troubling. Recognizing that universities will need individual faculty to take greater or lesser roles in each of the three areas of scholarship, research, and service in order to provide high quality educational experiences is also essential. To de-professionalize faculty and to create a discriminatory faculty class system for those intimately involved in the teaching and learning of students is a disservice to students and to faculty.

The General Faculty of Dakota State University opposes the removal of library faculty from the ranks of the professoriate and their relegation to term contracts.

4 BOR Proposal 11.3