

THE UNIVERSITY OF WYOMING
MINUTES OF THE TRUSTEES

January 18, 1974

For the confidential information
of the Board of Trustee

THE UNIVERSITY OF WYOMING
Minutes of
THE TRUSTEES
18 January 1974

Table of Contents

	<u>Page</u>
ROLL CALL -----	1
BOND REFUNDING PROPOSAL -----	1
APPROVAL OF MINUTES -----	4
APPOINTMENTS	
1. Walter G. Langlois -----	5
2. Clarke E. Homoly -----	5
3. Jack L. Van Baalen -----	5
REAPPOINTMENT -- COLLEGE OF HEALTH SCIENCES	
Cecelia Capuzzi -----	5
CHANGE IN ASSIGNMENT -- UNIVERSITY EXTENSION	
Robert E. Quade -----	5
ACTING HEADSHIP FOR DEPARTMENT OF VOCATIONAL EDUCATION -- James R. Durkee -----	5
LEAVE OF ABSENCE -- COLLEGE OF ENGINEERING	
Howard F. Silver -----	6
RESIGNATIONS	
1. Carolyn M. Rudow -----	6
2. Gerald M. Morel -----	6
3. Eugene A. Huey -----	6
APPLIED MUSIC LESSON FEES -----	6
APPROVAL OF DEGREES -----	7
REPORT ON TRAVEL IN REGARDS TO THE ENERGY CRISIS --	7
LEGISLATIVE PROGRAM -----	7
ADJOURNMENT AND DATE OF NEXT MEETING -----	8

THE UNIVERSITY OF WYOMING
Minutes of
THE TRUSTEES
18 January 1974

A visitation meeting of the Trustees of The University of Wyoming was called to order by President Pence at 8:20 a.m. on 18 January 1974, in the Board Room of Old Main Building.

ROLL CALL

The following members answered roll call:

Brodrick, Bunning, Hickey, Hines, Hollon, McBride, Pence, Quealy, Sullivan, Thorpe, True, Wilson, and ex officio members Carlson and Miller. Ex officio members Governor Hathaway and Dr. Schrader were absent. Dr. Walter Edens was in attendance representing the Faculty Senate. Also present were Joseph R. Gerard, University Legal Counsel, Elliott G. Hays, Vice President for Finance, John Conrad from Boettcher and Company, Denver, Colorado, and Robert Johnson of Dawson, Nagel, Sherman & Howard, Denver.

BOND REFUNDING
PROPOSAL

Mr. Hays introduced Mr. Conrad and Mr.

Johnson to the Trustees and indicated they were present at the meeting to discuss with the Trustees the adoption of two resolutions in connection with the formal refunding proposal submitted by Boettcher and Company which had been discussed by the Trustees at the 14 December 1973 meeting at which time a revision was requested by the Trustees. The revised proposal was approved by the Executive Committee 5 January 1974 and now accomplishes the following objectives as requested by the University:

1. Debt reduction of approximately \$600,000 in 1973-75
2. Provide a means to bring the 1965 Dormitory bonds under the same revenue base as the Facilities Improvement Bonds
3. Provide all the savings at the front of the maturity schedule
4. Level debt service on an annual basis

At the conclusion of the discussion Mr. Pence suggested the titles of the resolutions be read as a matter of record.

Mr. Hines then introduced the first resolution entitled: AUTHORIZING THE ISSUANCE OF THE TRUSTEES OF THE UNIVERSITY OF WYOMING FACILITIES REFUNDING REVENUE BONDS, SERIES JANUARY 15, 1974, IN THE PRINCIPAL AMOUNT OF \$35,260,000.00 FOR THE PURPOSE OF REFUNDING DESIGNATED OUTSTANDING BONDS PERTAINING TO THE UNIVERSITY; PROVIDING THE FORM, TERMS AND CONDITIONS OF THE REFUNDING BONDS, THE MANNER OF THEIR EXECUTION; THE METHOD OF THEIR PAYMENT, THE SECURITY THEREFOR, AND THE USE OF THE PROCEEDS OF SUCH BONDS; PROVIDING FOR THE REFUNDING AND PAYMENT OF THE DESIGNATED OUTSTANDING BONDS, FOR THE CREATION OF AN ESCROW AND THE EXECUTION OF AN ESCROW AGREEMENT PERTAINING THERETO, FOR THE PURCHASE OF FEDERAL SECURITIES WITH REFUNDING BOND PROCEEDS AND OTHER MONEYS, FOR THE DEPOSIT OF THE FEDERAL SECURITIES AND UNINVESTED MONEYS IN SUCH ESCROW, THE TEMPORARY INVESTMENT AND REINVESTMENT OF THE ESCROWED MONEYS, AND FOR THEIR USE; PROVIDING FOR THE COLLECTION AND USE OF REVENUES DERIVED FROM THE UNIVERSITY PERMANENT LAND FUND, FROM THE UNIVERSITY'S PORTION OF MONEYS REMITTED BY THE UNITED STATES OF AMERICA TO THE STATE OF WYOMING AND ACCOUNTED FOR IN ITS GOVERNMENT ROYALTY FUND, FROM THE OPERATION AND USE OF INCOME-PRODUCING FACILITIES OF THE UNIVERSITY, AND FROM OTHER FEES AND CHARGES, AND FOR THE COLLECTION AND USE OF OTHER MONEYS DERIVED FROM OTHER REVENUE SOURCES: PROVIDING CERTAIN COVENANTS AND OTHER DETAILS AND MAKING OTHER PROVISIONS CONCERNING THE REFUNDING BONDS, THE OUTSTANDING BONDS

TO BE REFUNDED, THE REFUNDING PROJECT, SUCH REVENUES AND OTHER MONEYS, ACCOUNTS AND FUNDS PERTAINING THERETO, AND THE DESIGNATED ESCROW AND THE AGREEMENT RELATING THERETO, PROVIDING FOR THE PRIOR REDEMPTION OF SOME OF THE OUTSTANDING BONDS TO BE REFUNDED, FOR GIVING NOTICE OF SUCH PRIOR REDEMPTION, AND FOR AGREEMENTS AND OTHER DETAILS PERTAINING THERETO; PROVIDING OTHER MATTERS PROPERLY RELATING TO THE FOREGOING MATTERS; RATIFYING ACTION PREVIOUSLY TAKEN AND PERTAINING THERETO; AND PROVIDING THE EFFECTIVE DATE HEREOF.

It was then moved by Mr. Quealy, seconded by Mrs. Hickey, and carried that all bylaws and other rules and regulations of the Board of Trustees of The University of Wyoming which might prevent unless suspended in cases of emergency the final adoption of this resolution at this meeting or which might unless suspended conflict with any provision of the resolution, be, and the same hereby are, suspended for the purpose of permitting the final adoption of the resolution at this meeting without modification as to its form, pursuant to Article VIII of the Bylaws of the Board.

It was moved by Mr. Hines, seconded by Mr. McBride, and carried to adopt the resolution.

Then Mrs. Hickey introduced the second resolution entitled: CONCERNING THE PRIOR REDEMPTION OF CERTAIN OUTSTANDING BONDS OF THREE SERIES OF BONDS OF THE TRUSTEES OF THE UNIVERSITY OF WYOMING, PURSUANT TO THE RESOLUTION ADOPTED THEREBY AND DESIGNATED BY THE SHORT TITLE "1-15-74 BOND RESOLUTION"; PROVIDING NOTICES TO BE GIVEN OF SUCH PRIOR REDEMPTIONS AND OTHER DETAILS IN CONNECTION THEREWITH; RATIFYING ACTION PREVIOUSLY TAKEN TOWARD REDEEMING SUCH BONDS; AND REPEALING ALL RESOLUTIONS IN CONFLICT HEREWITH.

It was then moved by Mr. Quealy, seconded by Mrs. Hickey, and carried that all bylaws and other rules and regulations of the Board of Trustees of The University of Wyoming which might prevent unless suspended in cases of emergency the final adoption of this resolution at this meeting or which might, unless suspended conflict with any provision of the resolution, be, and the same hereby are, suspended for the purpose of permitting the final adoption of the resolution at this meeting without modification as to its form, pursuant to Article VIII of the Bylaws of the Board.

It was moved by Mr. Hollon, seconded by Mr. Hines, and carried to adopt the resolution.

A copy of each resolution is attached to the official minutes of this meeting as a matter of record.

Messrs. Geraud, Hays, Conrad and Johnson then left the meeting.

APPROVAL OF MINUTES

It was moved by Mr. Sullivan, seconded by Mr. Bunning, and carried that the minutes of the meeting of 14 December 1973 be approved as circulated.

It was moved by Mr. Bunning, seconded by Mr. Sullivan, and carried that the meeting go into executive session at 8:45 a.m. The meeting was reconvened in open session at 9:30 a.m. with the same persons present.

At the request of President Carlson matters contained in the President's Report were considered, and, on the basis of the discussions which took place during the executive session, the following actions were taken.

APPOINTMENTS

Mrs. Hickey moved that the following appointments be approved as recommended by the President.

The motion was seconded by Mr. Sullivan, and it carried.

1. Walter G. Langlois as Professor of French and Head of the Department of Modern and Classical Languages for the 1974-75 academic year, effective 1 July 1974.

2. Clarke E. Homoly as Supply Instructor in Vocational Education for the 1974 Spring semester.

3. Jack L. Van Baalen as Professor of Law for the academic year 1974-75.

REAPPOINTMENT --
COLLEGE OF HEALTH SCIENCES

It was moved by Mr. McBride,
seconded by Mr. True, and carried

that, as recommended by the President, Cecelia Capuzzi be reappointed as Supply Instructor in Nursing for the 1974 Spring semester.

CHANGE IN ASSIGNMENT --
UNIVERSITY EXTENSION

It was moved by Mr. Hollon,
seconded by Mr. Wilson, and

carried that, as recommended by the President, Robert E. Quade, presently Johnson County Agricultural Agent, be reassigned as Assistant County Agent in Goshen County, effective 1 February 1974.

ACTING HEADSHIP FOR
DEPARTMENT OF VOCATIONAL
EDUCATION

It was moved by Mr. Sullivan,
seconded by Mr. Bunning, and
carried that, as recommended by

the President, James R. Durkee, Assistant Professor of Vocational Education, be designated Acting Head of the Department of Vocational Education for the 1974 Spring semester while Dr. James Zancanella is on sabbatical leave.

LEAVE OF ABSENCE --
COLLEGE OF ENGINEERING

It was moved by Mr. Wilson,
seconded by Mr. Bunning, and

carried that, in accordance with President Carlson's recommendation, Dr.

Howard F. Silver, Professor of Chemical Engineering, be granted a leave of absence from his duties in the Department of Chemical Engineering for the 1974-75 academic year to permit him to participate in the research program of the Electric Power Research Institute (E. P. R. I.).

RESIGNATIONS

It was moved by Mr. True, seconded by Mr. Hines, and carried that the following resignations be accepted, to be effective on the dates indicated.

1. Carolyn M. Rudow, Instructor in Nursing, effective 22 December 1973.
2. Gerald M. Morel, Assistant County Agent in Goshen County, effective 8 January 1974.
3. Eugene A. Huey, Assistant Football Coach and Instructor in Inter-collegiate Athletics, effective 10 January 1974.

APPLIED MUSIC LESSON FEES

Dr. Carlson discussed the need to increase the fees charged for applied music lessons, pointing out that if the fees were increased as recommended the approximate cost per lesson with faculty would be \$3.50 on the basis of a 17-week semester. It was then moved by Mr. McBride, seconded by Mr. Hollon and carried, with Mrs. Hickey voting nay, to approve the request that the applied music lesson fees per semester be increased as set forth below, with the increase to become effective at the beginning of the 1974 summer session.

Semester Lesson Fee with Faculty and Part-time Faculty

One lesson per week	\$ 60.00
Two lessons per week	100.00

Semester Lesson Fee for Study with a Graduate Student

One lesson per week	\$35.00
---------------------	---------

APPROVAL OF DEGREES

It was moved by Mr. McBride, seconded by Mr. Hollon, and carried that the award of degrees for the 1973 Fall semester be approved as recommended by the faculty and deans, with a record of such degree awards to be maintained by the Registrar in the Division of Registration and Records after authentication by the President of the University pursuant to this action.

REPORT ON TRAVEL IN REGARDS TO THE ENERGY CRISIS

Dr. Carlson reported briefly on the energy crisis as it affects the various operations of the University and on the plans being made for carrying out the University's obligations in these areas. He pointed out that, in the near future it will be necessary to increase the basic mileage rate charged for University pool cars to meet rising costs of operation. Dr. Carlson indicated that University personnel would be requested to observe the 55 mile per hour maximum speed limit.

At 10:15 a.m. the Trustees were joined by Hugh B. McFadden, Vice President for University Extension, and James Ranz, Vice President for Academic Affairs, and the entire group proceeded to the Biochemistry Building to commence the scheduled visits to the divisions of the College of Agriculture and the Agricultural Extension Service. A report of those visits is attached hereto and made a part of these minutes.

LEGISLATIVE PROGRAM

At this time the Trustees held a general discussion concerning the requests presented by the University to the Legislature. No official action was taken.

ADJOURNMENT AND DATE
OF NEXT MEETING

There being no further business, upon

a motion duly made by Mr. Brodrick

and seconded by Dr. Thorpe, the meeting was adjourned at 5:30 p.m. The

next meeting date of the Trustees will be 22 February 1974.

Respectfully submitted,

A handwritten signature in cursive script, reading "Gordon H. Brodrick". The signature is written in dark ink and is positioned above the printed name and title.

Gordon H. Brodrick
Secretary

SUMMARY OF VISIT OF UNIVERSITY TRUSTEES TO
THE COLLEGE OF AGRICULTURE AND THE AGRICULTURAL EXTENSION SERVICE

January 18, 1974

A visitation of the Board of Trustees to the College of Agriculture was held on January 18, 1974. The following Trustees and officials of the University were present: Gordon Brodrick, C. E. Hollon, Joseph B. Sullivan, Christian Bunning, Paul O. Hines, Patrick J. Quealy, Robert McBride, Winifred E. Hickey, Alfred Pence, Willard Wilson, Virgil Thorpe, William D. Carlson, Steve Miller, James Ranz, Hugh B. McFadden, N. W. Hilston and Lloyd C. Ayres.

For the information of the visitors, each division in the College of Agriculture offered a brief presentation covering its activities, purposes and goals.

DIVISION OF BIOCHEMISTRY

Biochemistry Building
9:45 A.M.

Dr. Glenn J. Miller, Head of the Division of Biochemistry, presented a short lecture covering the structure, services and facilities of the Division. His talk was illustrated by slides and other informative material was distributed to the visitors.

Service to the people of the State in the form of analytical services was described. There were questions from the Trustees regarding how long it took to research various requests, where most of the requests originated, the cost to the University of rendering this service, and the possibility of making a charge for this service. A short discussion followed.

Increased enrollment was mentioned, and various courses were outlined and discussed. This was followed by a description of both problem oriented and basic research being carried on in the Division, and how the research is supported.

The Trustees left the Biochemistry Building and were taken to the Agriculture Building. At this time, the group was divided into two sections - Group A and Group B - in order to keep the audience small and to make discussion easier. Each division then made its presentation to each group.

Group A consisted of Mr. Quealy, Mr. Hines, Mrs. Hickey, Mr. Bunning, Mr. Sullivan, Mr. McFadden, Mr. Ayres, President Carlson and Mr. Miller.

Group B consisted of Mr. Brodrick, Mr. Hollen, Mr. McBride, Mr. Pence, Mr. Wilson, Mr. Thorpe, Mr. Ranz and Mr. Hilston.

Group A met with members of the Agricultural Extension Service in Room 126 and Group B met with members of the Division of Microbiology and Veterinary Medicine in Room 137. At the end of the presentations, the groups were reversed, with Group A in Room 137 and Group B in Room 126. Following is a brief resume' of each presentation.

AGRICULTURAL EXTENSION

College of Agriculture
Room 137
10:30 A.M.

Robert F. Frary, Associate Director of University Extension, welcomed the group and introduced the following members of his staff who were participating: Edwin H. Amend, Arvil D. Ashment, Josephine Ruud, and Donald K. Rolston.

Mr. Amend spoke briefly on "What is Extension." His talk was illustrated by overhead charts. He displayed and explained the value of the new Pesticide Manual. He also mentioned the roles of Specialists, County Agents and County Extension Home Economists in relation to their "clientele" who are all the people in the state off campus.

Mr. Ashment commented on Extension programs and accountability. His comments were supported by information charts stressing the fact that Extension is a delivery system for getting information from the University out to the people which were distributed to the audience. Programs are planned according to the demands of the people and are constantly changing and growing to meet the needs.

Mrs. Ruud discussed Home Economics and how it works with Extension. Her comments were illustrated by slides showing various underprivileged families and children being reached by the Expanded Food and Nutrition Project, and how many Extension programs are aimed at improving their standards of living through better education with particular emphasis on home-making, clothing, nutrition and housing.

Mr. Rolston's presentation touched upon the membership of 4-H and the areas reached (rural, non-farm and urban) and what it accomplishes. It was stressed that it develops skills, leadership, community development and community pride through participation in 4-H Club activities. He mentioned scholarships, grants and other sources of support.

Mr. Frary concluded the presentation, stating that the goal of the Agricultural Extension Service is to become the best - not the largest, an organization responsive to the needs of Wyoming's people.

Mr. Frary pointed out that the University Extension is an organization in transition and he gave a few of the transitory steps such as:

- 1969 Transfer of Extension Specialists to divisions in the College of Agriculture to increase their effectiveness.
- 1970 Board action authorizing the establishment of the University Extension under the leadership of Dr. Hugh B. McFadden as Vice President for University Extension.
- 1969-73 Internal evaluation by comprehensive review covering all procedures; surveys and review of problem areas; continual monitoring and evaluation to improve the operation.

Mr. Frary spent some time discussing administrative concerns and future plans, touching on civil rights, availability of Federal funds, employment practices, upgrading staff competencies by selective recruiting and training of specialists, as well as other problems. He also mentioned increased operating costs - publications, travel, telephone and other expenses - and methods of coping with them.

The need for specialized Agricultural Information people, more facilities and enlarged programs was pointed out. Coordination by all segments was stressed.

DIVISION OF MICROBIOLOGY AND VETERINARY MEDICINE

College of Agriculture
Room 137
11:10 A.M.

Dr. James O. Tucker, Head of the Division of Microbiology and Veterinary Medicine, greeted the visitors and conducted the presentation. The following faculty members were present: Robert C. Bergstrom, Daniel R. Caldwell, Leroy R. Maki, Brinton Swift, Lee E. Belden, John C. Adams and Newton Kingston.

Dr. Tucker gave a brief summary covering the activities of the Division including personnel, teaching, research, extension programs, curricula, problems of increasing enrollment, increasing costs and funding. The WICHE program was discussed - its purpose, its operation and funding.

The Division's role in services to the people of Wyoming was emphasized. These services are primarily through professional consultations with various organizations, hospitals and individuals, membership in medical associations, and group participation in many state and other meetings by Dr. Tucker and members of his staff.

Dr. Tucker pointed out that the Division cooperates with many other areas on the campus such as rendering veterinary services for all livestock, activity on the Animal Welfare Programs and a variety of other services.

A number of comments were made and questions asked during the presentation, primarily regarding where do the students go from here and what are their prospects.

There was considerable discussion on methods of cooperating with community colleges in order to properly coordinate the curricula. The importance of this was strongly emphasized.

At 11:45 A.M. the entire party was taken to the new greenhouse complex where lunch was served. The following University officials, faculty members and guests joined the Trustees for lunch and a subsequent tour of the new facility: Joseph R. Geraud, Vice President for Student Affairs, Elliott G. Hays, Vice President for Finance, Vern E. Shelton, Assistant to the President for Information, Robert F. Frary, Arvil D. Ashment, Edwin H. Amend, Josephine B. Ruud, Lloyd C. Ayres, Leon H. Paules, Andrew Vanvig, Clarence F. Becker, Paul O. Stratton, Glenn J. Miller, Martha A. Poolton, James O. Tucker, Lee I. Painter, Neal W. Hilston and Virginia Hulse. Dr. Becker, Head of Agricultural Engineering, presented a guest, Dr. George Rauenhorst of Olivia, Minnesota, who is a member of the Board of Regents of the University of Minnesota. Each Trustee was presented with samples of three experimental low-fat cheeses which are being developed by the Division of Animal Science, as well as a sample of Pinto beans which had been developed at the Powell Substation. Other informational material was also distributed.

An invitation was extended to the Trustees to visit the Experimental Farms on Saturday, and arrangements were made to transport those who cared to go.

DIVISION OF PLANT SCIENCE

Greenhouse Complex
12:45 P.M.

Following lunch, Dr. Painter, Head of the Division of Plant Science, showed plans and diagrams of the new Greenhouse Complex and explained the layout and the functions of the various sections of the facility which are utilized as teaching labs for Crops, Range Management and Plant Pathology; combination research and teaching lab for Weed Science; research labs for Crops (Physiology, Chromotography, Isotope and Cytology), Entomology and Plant Pathology; and supporting facilities.

Dr. Painter discussed the organization of the Division and its goals and purposes through instruction and research, giving a brief resume' of his personnel, curricula, number of students and what their prospects are for future careers. He also commented on research projects in progress.

A number of questions were asked concerning research on re-vegetation and reclamation after strip mining. The research project at its various locations was explained by Dr. Painter.

At approximately 1:45 P.M. the Trustees returned to the Agriculture Building and were again divided into two groups.

DIVISION OF AGRICULTURAL ECONOMICS

College of Agriculture
Room 126
2:00 P.M.

Group A met with the Division of Agricultural Economics and were welcomed by Dr. Vanvig, Head of the Division, who then introduced Richard T. Clark and Gordon Kearl. He then gave a brief outline of the structure, purposes and goals of the Division in which he covered undergraduate and graduate programs, enrollment and placement of students. Various grants and the uses of the funds were described. Dr. Vanvig then discussed several theses topics.

One subject of particular interest to the Trustees was entitled "The Economic Costs of Providing Ambulance Service in Wyoming," and there was some discussion on this topic. Research projects in the Division were commented on by Dr. Vanvig and he described the objectives, application and potential benefits of the work being done, the choice of projects and their funding.

Dr. Clark and Dr. Kearl were called upon to discuss the new Office of Water Resources Grant Project, Extension work and service activities, including farm and ranch management and marketing as well as price analysis.

Dr. Vanvig then commented briefly on Extension activities, with particular emphasis on land use.

Each visitor was given a typed report covering this presentation.

DIVISION OF HOME ECONOMICS

College of Agriculture
Room 137
2:45 P.M.

Group A was greeted by Martha A. Poolton, Head of the Division of Home Economics. Dr. Poolton asked the Trustees to introduce themselves and then requested members of her staff who were participating to introduce themselves. Present were Robert Higginson, Suzanne Zeglin, Linda Hackwell, Josephine Ruud, Ruth Elliston, Carolyn Raab, Anna Mae Brenner, Margaret Boyd, Louise Wesswick, Marcella Martin, Pat Davis, Maureen Moore, a graduate student, and special guest Verna Hitchcock, former Head of the Division.

Dr. Poolton discussed the functions and goals of the Division of Home Economics. Her comments covered personnel, course offerings, funding, present work being accomplished, possibilities for research and the priorities for these goals to be attained, in cooperation with other divisions and colleges. A comment from Michelle Fackrell, undergraduate student representative, was read by Dr. Poolton.

Miss Martin discussed accreditation, giving a resume' of action necessary, reasons for the necessity of accreditation, the progress being made, and the current status of this process.

Mrs. Hitchcock, former Head of the Division, spoke on the success of the Summer 1973 Newsletter to alumni, its use as a public relations tool, and its accomplishments.

Miss Wesswick commented on the directions in course offerings with increased opportunities for students to participate in field experiences, its aims and objectives.

Miss Brenner and Mrs. Boyd gave a presentation on the dietetics major. Emphasis was placed on the need for a coordinated undergraduate program and the opportunities for careers in this field.

Mr. Higginson spoke briefly on the Child Development and Family Relations area, commenting on its rapid growth in the region and on a national scale, and the potential on this campus.

Mrs. Hackwell commented on the use of supplemental resources for enhancing learning experiences for students with examples of special materials, outside speakers and field trips.

Miss Zeglin discussed briefly the inter-disciplinary approach, and the need for related courses in other disciplines to prepare students for careers in various fields. We have a communications major developed jointly by the Home Economics Division, Journalism and Broadcasting Departments. Industry has a need for trained home economists.

Mrs. Moore spoke on behalf of the graduate students, commending the advising and counselling of the faculty in relation to her M.S. Degree.

DIVISION OF ANIMAL SCIENCE

College of Agriculture
Room 137
3:30 P.M.

The group was welcomed by Paul O. Stratton, Head of the Division of Animal Science. Dr. Stratton talked to the group, setting out the structure, goals and purposes of the Division of Animal Science.

On-going research was described by Dr. Stratton. Research of most economic significance to the State includes fertility of cattle and sheep as affected by breeding, nutrition and physiology; red meats, quality and quantity; specification buying of wool; and predator control. Studies of forage management, feedlot problems and dairy cattle management are primarily involved at the Substations, and this research is a cooperative effort with other divisions and Agricultural Extension.

Dr. Stratton discussed the consolidation of the instructional program which occurred in 1970. This was done in order to provide course offerings by discipline and to establish a curricula for students interested in the food industry. Job opportunity was foremost in the planning. Team teaching by discipline was explained. Dr. Stratton explained the relationship and operation of the Division with regard to instruction, research and extension, using overhead slides for illustration.

According to Dr. Stratton, the dairy herd produces enough to meet the fluid milk needs on campus. All progeny from the breeding herds not kept for replacements are used in the meats laboratory to provide data for specific research projects, and in the classroom for slaughter and processing instruction. Excess milk is used in classroom instruction for ice cream, butter and cheese production and for research on these same products.

In response to questions from the group, Dr. Stratton described the facilities of the Division in detail, pointing out the locations of the various Dairy, Meat and Wool Labs as well as the seven farm units located off campus. He also commented on the needs, present and future, of the Division. With the help of overhead slides, the livestock inventory was discussed and Dr. Stratton pointed out how these animals were used for both instructional and research purposes. It was emphasized that for budget purposes it is difficult to separate research from instructional, since many animals are used for both. There was some discussion regarding the research in which the Division is involved.

The subject of the proposed relocation of the Stock Farm was brought up by the Trustees, with specific reference to why this should be done, how it would be accomplished, and why it would take a number of years to complete. This was explained by Dr. Stratton.

Prospects for careers and employment for students and graduates from Animal Science were discussed. Opportunities for careers in Agriculture appear most encouraging with the changes having taken place in needs for food production.

DIVISION OF AGRICULTURAL ENGINEERING

Vocational Education Building
4:15 P.M.

The group was welcomed by Dr. Becker, Head of Agricultural Engineering. Dr. Becker first took them on a short tour of the lab where various experimental machinery for seeding, weed control, and other projects was described. The group then went back to the new quarters of Agricultural Engineering in the Vocational Education Building where Dr. Becker introduced the following faculty members: Robert D. Burman, K. James Fornstrom, Michael A. McNamee, Larry O. Pochop and Donald J. Brosz.

The role of Agricultural Engineering in a Hungry World was presented by Dr. Becker with the aid of a short series of slides. It was indicated that a great deal of emphasis was being put on the study of energy exchange in the atmosphere - how much of the energy from the sun actually ends up as usable protein, heats the atmosphere, heats the soil and evaporates water from the soil surface and plants. The role of tillage practices and irrigation in the above process was outlined. Work on sugar beet maggot control (which results in tremendous losses to Wyoming growers) and weed control in sugar beets was described. It was pointed out that the work was inter-disciplinary with Agricultural Engineers, Entomologists and Weed Scientists involved. It was noted that several new dairy set-ups have been built in the state with technical assistance from Agricultural Engineering Extension.

Results of work on the potential advantages of Precipitation Augmentation in the winter wheat growing area of Wyoming was outlined.

Slides of instrumentation utilized for determining components of the energy from the sun as related to water needs of crops were shown.

A short discussion period followed.

STOCK FARMS

Saturday, January 19, 1974
Stock Farm

The following members of the Board of Trustees were taken on a tour of the Stock Farm, the Beef Breeding Unit, the Dairy Farm and Paradise Ranch by Dr. Paul O. Stratton and Director N. W. Hilston: President William D. Carlson, Joseph B. Sullivan, Christian Bunning, Willard Wilson, Virgil Thorpe, and Alfred Pence. Associate Director Lloyd C. Ayres also accompanied the group.

In addition to the visitors, several faculty members and researchers were present to explain the research projects being carried on.