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## HARVARD MAN LECTURES ON GRAND CANYON

Prof. W. M. Davis Gives Illustrated Address in Temple Theater

### EROSION CAUSES CHANGE

Time Involved Should Make People Realize Their Responsibility, Stated Speaker

"A study of this canyon will make the people realize the long future time that is needed for further development. It will induce them to take their responsibility on their shoulders and help in the advance," stated Professor William Morris Davis, professor-emeritus of physical geography at Harvard, in his address on "The Lessons of the Grand Canyon of the Colorado" at the Temple Theater on Monday morning. Dr. Barbour introduced the scientist to the students.

One can think out for himself something of the measure of time it has taken for the formation of this phenomenon, he explained; think that about the measure of time it has taken for its cutting is about the measure of time that man has been developing on earth. Professor Davis described the Grand Canyon of the Colorado, using slides to illustrate his lecture, and explained that it was not produced by any tremendous convulsion of nature, but that the rock formations are the results of gradual processes during almost incomprehensible periods of time. The level plateaus on either side of the canyon, which is in the northern part of Arizona, are monotonously covered, at the lower altitudes, with only sage-brush; at greater altitudes, with pine forests.

#### First Sight Is Overwhelming

"An on-looker at first sight of the canyon, lapses into silence," said Dr. Davis; "it is such an overwhelming spectacle. Its vastness makes it seem that the earth could not be old enough for the infinitely slow processes to produce a phenomenon so huge." At one point it is 5000 feet deep and about a mile wide, and at another, it is nearly 6000 feet deep and from ten to twenty miles wide. If it had been simply a crack as has been supposed, its sides would be almost vertical, whereas, the speaker explained, they are broken by side canyons and promontories.

"The processes which made the canyon are still at work," stated the speaker. "The main canyon is still deepening, and the side canyons are still lengthening." The completion of the process will not be reached until the plateaus are worn down to lowlands, Professor Davis asserted. The time for this completed process, he designated as the cycle of erosion.

#### Nothing Mysterious About Erosion

"There is nothing mysterious or extraordinary about this erosion, excepting the time," declared the speaker. "The destruction of the plateau may seem fantastic, but if time goes on, it will be completed," he added. Though the canyon itself seems old, the plateau and the earth had to be built up even previous to it. A study of the walls discloses the make-up of the earth's crust and how it came to be formed as learned by inference. These walls are made up of what are called the plateau series of strata; in a two-fold formation; the basic, granite-like rock, and the covering rock which includes several types of rock, among them the slanting series of strata, in the shape of a wedge.

As much time was taken in the cycle of construction as in the cycle of erosion—a period of endless upheaving and deposition, of a deepening of valleys and a wearing away of ridges. Well-defined fossils were preserved for the first time when the lowlands sank. The top of this heap that resulted from the general upheaval of the earth's crust is found in the pink tips to be seen in the canyon proper. The canyon, then, is a comparatively modern thing. "It constitutes the first pages of a new long chapter which is not yet completed," the speaker said. "The total duration of these various chapters," he added, "were to be calculated in scores of million of years, which however, is only the development on a previously made earth."

"No organic records are found in the crystallized rock," Professor Davis stated, "but the white rocks were formed about the same time as the coal beds in Pennsylvania; those just above include the fossils of dinosaurs, followed by the age of mammals, and the pink or top cliffs were contemporaneous with the development of man."

#### Weather Forecast

Tuesday: Fair and warmer.

## University Hall Was Not Equipped With Slate Blackboards Until 1890

Chalk Inscriptions Written Thirty-Five Years Ago Are Uncovered In Wrecking Top Floors of Old Building.

That the University Hall classrooms on the third and second floors were not equipped with slate blackboards until early in the nineties was revealed by dates and written matter uncovered on the walls when the slate blackboards were removed Saturday and Monday. Before that time a cement coating had been applied to the plaster and painted over with black paint.

The slate was apparently installed between class periods in some of the rooms, as class exercises were still evident on the black wall, the chalk clinging to the surface, and as distance as it must have when applied thirty-five years ago.

In room 201 an inscription in chalk was found showing the date the slate blackboard was put up and the names of the men who did the work. The writing reads: "These blackboards were set August 1891 by John McElroy and J. H. Shaw of Lincoln."

In a nearby room, number 213, a similar inscription was found stating "Washington Slate Company, Glatington, Pennsylvania, E. E. Chowins, Agent, Lincoln, August 28, 1890."

A complete set of examination questions in trigonometry was uncovered in room 211 on the northwest corner of the second floor. The slate in this room was set a few years later than the others according to Professor A. L. Candy, who taught classes there in the nineties before the mathematics department was removed to its present location in the Mechanical Arts Hall.

Dr. Candy remembers well how the students petitioned once to have a class changed to one of the other

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## NAME NEW PLEDGES TO DRAMATIC CLUB

Formal Pledging Will Be Held on Thursday; Eloise McAnan Committee Chairman

Successful candidates will be notified today of their election to the Dramatic Club. The pledging will be held at 8:30 in the Dramatic Club rooms on Thursday evening, after which a lunch will be served. A social hour will follow. The committee in charge of the pledging is as follows: Eloise McAnan, chairman; Elizabeth Tracy and Margaret Long.

The following are the ones who will be pledged:

Willard Baily, Kenneth Cook, Alice Wiese, Louise Hillsbeck, Zoley Lerner, Keith Miller, Ardath Srb, Herbert Morrison, Werner Mall, Fred Foss, Elsie Nealey, Mildred Orr, Frank Moore, Josephine Drapier, Ruth Clendenin, Doris Pinkerton, Harvey Shepherd, Fred Stahl, Fritz Noble, Fred Van Valkin, Margaret Peterson, \*zo Cunningham, Winifred McClure, Jack Rank, Kate Goldstein, Margaret Dudley, Don Helmsdorfer, Paul Miller, Joyce Adair, Sylvia Lewis, Margaret Nichols, Irene Lavelly, Eric Lundgren, Charles Warren, Elton Pee, Mildred Sweet, Dorothy Louise Lewis, William Prawl, Cornelia Ayres, Ray Ramsey, Marjorie Sturdevant, Mary Dudley, Thad Cone, Betty Woodbury, Polly Robbins, Inez Latta, Charles Sikes, Howard Bell, Marion Cass.

## STUDENT'S CONDUCT RESEARCH

Graduates of College of Business Administration Make Studies

Three graduate scholars in the College of Business Administration are now engaged in business research work which will be of considerable interest to business and professional men of Nebraska when completed.

Vernon G. Morrison, B. Sc. (Business Administration) '25, is making a study of Lincoln's retail trade territory and the manner in which it is now being affected by the automobile and improved roads. Ernest F. Witte, B. Sc. (Business Administration) '25, is making a study of the purchasing power of Lincoln people in which he is attempting to find the basic facts about incomes, occupations, and mercantile needs of the city's population. Elmer C. Bratt is studying "merchandise" in the retail business with the intent of determining the relative amount of mark-downs and the effect on store problems, it being thought that this information may throw considerable light on buying questions. The results of these studies will be available upon completion and may be published by the committee on business research of the College of Business Administration.

## MISSOURI LEADS IN VALLEY RACE

Tremendous Upset Necessary To Shake Tigers from Top Position

### PLAY ONE MORE GAME

School	Pct.	Index
Missouri	1,000	22.0
Drake	833	18.3
Ames	666	17.5
Nebraska	500	15.0
Kansas Aggies	500	15.0
Oklahoma	400	16.0
Oklahoma A. & M.	500	15.0
Grinnell	333	15.0
Kansas	142	11.4
Washington	000	11.2

Missouri seems to be the champion of the Missouri Valley. It will take a tremendous upset to tumble the Tigers from that position because the only game left on their schedule is with Kansas this week, and Kansas is rated as a very poor second division team.

This week's Dickinson rating of the football teams in the Missouri Valley conference show Missouri, Drake and Ames still holding the three high positions, with Nebraska and Kansas Aggies tied for fourth.

With but one or two games left on each team's schedule the rating shows signs of becoming permanent for the season of 1925. Missouri will surely hold first place, as Kansas has scored only once this season, and has won a single game.

Drake plays Ames this Saturday in a game which will probably disturb the ratings somewhat, as both are first division teams. If Ames loses she will become a second division team, but Drake is bound to continue as a first division aggregation. (A first division team is one which has won more games than it has lost.)

#### Nebraska is Through

Nebraska is through as far as the Missouri Valley is concerned, but the Kansas Aggies play on Thanksgiving Day. By defeating Ames the Aggies will have a chance to climb above Nebraska and perhaps into third place in the standings.

Oklahoma plays the Oklahoma Aggies on Thanksgiving and Grinnell and Washington meet on that day. That will be the last of the season. Nebraska and Kansas Aggies stand above Oklahoma this week, although Oklahoma has a higher index number. The reason is that the Sooners lost to Nebraska and Nebraska tied the Kansas Aggies.

Oklahoma Aggies are rated sixth because they defeated Grinnell. And although the Aggies have the same rating as Nebraska and Kansas Aggies they do not deserve as high a rating because they have played only three conference games, one of which was a tie.

Kansas and Washington trail the conference.

## Miss Dake to Talk At Vesper Service

Miss Frances Dake, general secretary of the Y. W. C. A. of Lincoln, will speak at Vespers Tuesday evening, on her missionary work in Montevideo, Uruguay, South America, where she spent five years. The service will be led by Rose Fayingtinger and a vocal solo will be given by Pearl Diller.

The general theme of the Vesper services on Tuesday, November 24, will be "Friendship" and the Big Sister Board are in charge of the arrangements.

## EIGHTEEN ATTEND ENGINEER MEETING

Members of Three Institutions Present Problems Concerning Engineering Education

About eighteen members of the Nebraska faculty attended a meeting of the midwest section of the Society for the Promotion of Engineering Education. The meeting was held at Manhattan, Kansas, Friday evening and Saturday morning of last week. The meeting was attended by delegates from the University of Kansas, Kansas Agricultural College, and the University of Nebraska. Dean Ferguson, president of the society, presided at the Friday evening session at which members of the three institutions gave problems concerning engineering education.

Members of the Nebraska faculty who took part in the program are: Prof. Sjogren, who talked on "Teaching Personnel;" Prof. Chaburn, who talked on "Admission and Elimination of Engineering Students," and Prof. Edison, who discussed "The Engineering Graduate."

## Was Elected Queen Of Military Carnival



Ardath Srb, 27, Omaha, who was elected Carnival Queen at the Military Carnival Saturday night.

## OPEN HOCKEY TOURNAMENT

Juniors Tie Seniors on Monday; Sophomores Win from Freshmen Friday

### THIRD GAME IS TODAY

Juniors and seniors tied 1 to 1 on Monday in the second game of the Women's Athletic Association hockey tournament. In the opening game of the season Friday, the sophomores drabbed the freshmen 9 to 0.

The freshmen and juniors have been paired for today, and members of both classes who have had the required number of try-out practices must be at the game.

The line-up for Friday's game:

Soph—	pos.	Freshmen
Isaacson	rw	Hoper
Beaz	ri	Eastabrooks
Otten	c	Clayton
Carroll	li	Peterson
Darland	lw	Kunkley
Morehead	rh	Frahm
Olds	ch	O'haussen
Platt	lh	Hoag
Ayres	rb	Rightig
Bauer	lb	Grau
Clark	g	Bergstrom

Substitutions: freshmen, Kendall for Kunkley. Sophomore, Kuncel for Olds, Olds for Platt.

Timekeeper: Elsie Gramlich.

Scorekeepers: Miss Simpson and Margaret Hymer.

Referees: Miss Wheeler, Miss Wagner.

Score: sophomore 9, freshmen 0.

Juniors—

pos.	Seniors
Chapman	Howe
West	Wohlford
West, (c)	Hymer
Zorbaugh	Morris
Hansen	Sturdevant
Schuebel	Freeman
Kidwell	Krieg
Whelpley	Eastham
Safford	Pfeiffer
Folmer	Flatemersch
McDonald	Damme

Substitutions: Juniors—McDonald for Whelpley; Whelpley for McDonald. Seniors—Eastham for Morris; Morris for Eastham.

Timekeeper—Miss Mabel Lee.

Scorekeeper—Miss Simpson.

Referees—Miss Wheeler and Miss Wagner.

Score—Senior, 1; Junior, 1.

## Six Women Needed For Campfire Work

Six University women are needed to take charge of campfire groups over the city. The work only requires one hour a week and no previous experience is necessary. Any University woman interested is asked to consult with Miss Erma Appleby in her office in Ellen Smith Hall or with Helen Howe who is in charge of the University workers.

## Request Applications For Nebraskan Staff

Applications for the following positions on the staff of The Daily Nebraskan for the second half-semester will be received by the Publication Board until Tuesday morning, 9 o'clock, November 17: editor, contributing editor, managing editor, news editor, and assistant news editor.

Application blanks may be got at the office of the chairman (U. H. 113) and of Secretary J. K. Selleck, (Armory.)

Applicants are requested to submit evidence as to their qualifications in as clear, concise form as they can.

Applicants who already have material on file in this office need not duplicate it.

Signed,

M. M. FOGG, Chairman.

## Annual Struggle Between Freshmen And Sophomores Comes Saturday

## FALL ISSUE OF AWGWAN IS OUT

November Number Contains New Department Edited By Roman Becker

### PHIL FENT DRAWS COVER

A striking two color poster cover by Phil Fent, depicting fall weather, furnishes the theme that prevails through the humor of the November issue of the Awgwan. The subject of the weather is developed with cartoons and humorous sketches.

One of the most attractive features of this issue is a pen painting, "Rain at Night," by Kenetha Thomas. One page of original sketches has been given over to the illustration of stanzas written in the style of the "old farmers almanack."

Among the humorous literary contributions are "A Jazz Poster," an impressionistic poem with an exotic touch, and one of Butch's "Bed-Time Stories."

A new department has been inaugurated in this issue, called the "Sling and the Harp," which is a column of "Talk About Books" conducted by Roman Becker.

The following students have contributed to the November issue of the Awgwan: Jessie Baldwin, Barbara Bell, Pauline Bilon, Glen Coppo, Joe Deming, A. V. Dougan, Katherine Foote, Ruth Godfrey, Ruth Harrington, Viola Mercer, Edith Mae Johnson, Margaret Nichols, Ben Offerle, Elizabeth Ottman, and Blanche Stevens.

### HOLD THIRD MIXER SATURDAY

Colonians Will Furnish Music for All-University Party

Plans for an all-University party to be held next Saturday evening at 8:15 o'clock in the Armory were announced by the all-University Party Committee yesterday. The Colonians will furnish the music for the evening.

This is the third of a series of University mixers sponsored by the all-University Party Committee. Both of the mixers given in the early part of the semester were well attended by the students. Free checking was offered, special entertainment was introduced during the intermission period and refreshments were served throughout the evening. The admission fee was reduced to twenty-five cents at the last party.

## PLENTY OF SEATS FOR NOTRE DAME

Fifteen Thousand Additional Seats Have Been Erected Over Track And at Ends

Plenty of seats are now available for the Notre Dame-Nebraska football game to be played in Nebraska Memorial Stadium Thanksgiving Day. John Selleck, manager of student activities, estimates that between six and seven thousand seats are still to be had.

The original thirty thousand seats in the stadium were sold out some time ago, but fifteen thousand additional seats have been erected. Five thousand of these are parquet seats erected along the running track and the remaining ten thousand have been erected at the open ends of the stadium. On the day of the game, the stadium will seat approximately 45,000 people.

Those who want seats for the game may get them from several sources. The Beaton Drug Company at Fifteenth and Farnum streets, Omaha, have tickets for sale as do Latsch Brothers in Lincoln. Tickets may be bought by mail through the University. Any outstate people wanting tickets can mail their money to the Student Activities office at the University and they will receive their tickets by return mail. The parquet tickets are on sale at three dollars and the end bleachers at two dollars.

## Life of Entomologist Reviewed in Magazine

An account of the life of Walter David Hunter, A. B. '95, A. M. '97, is given in the current issue of The Nebraskan. Mr. Hunter was one of the foremost entomologists in the world and was the last man to officially be placed in charge of boll weevil investigation by the government. He was assistant entomologist at the University from 1902 to 1905. He died October 13 at El Paso, Texas, where he was engaged in federal work designed to further control of the boll weevil.

## STRIP "U" HALL CLASSROOMS OF ALL EQUIPMENT

Will Save Much Material for Future Use and for Historical Purposes

### START WRECKING SOON

Expect Operation of Tearing Down And Building Roof to Take Two Months

University Hall was stripped of all class room equipment, heating and lighting fixtures and other removable equipment by Monday evening, leaving only bleak walls for the wreckers. A board fence will be built around the building today, and demolition work will be started very soon, either on the tower or the slate roof.

Temporary class room assignments were still being made out yesterday. Most of the classes are located in University buildings on the campus. Many of them are in buildings adjoining the campus. No detailed schedule was available yesterday for publication because changes are being constantly made by instructors. Students are advised to watch the bulletin board east of University Hall where the latest room assignment will be posted by the faculty members.

The wrecking operation and building of the roof over the first floor is expected to take about two months. Work is being rushed by the B. J. Jobst Company of Lincoln to have the two ground floors ready for occupancy after the Christmas holidays.

A tar "five year" temporary roof will be constructed over the first floor, which will be used for at least two years until necessary funds are appropriated by the legislature to put up a new building.

Wooden barracks on the drill field were at first contemplated to help relieve the congestion. The plan of putting a flat roof over the first story was adopted because it will be less expensive. The buildings will stand that way for a short time only, possibly two years at the most.

#### Material Will Be Saved

Material from the condemned structure will be saved and used wherever it can safely be used in University building operations. The bricks will probably find a final resting place in heating and lighting tunnels where they can be set in the walls, as no great weight will be put on them there. They are too soft to be used in a building.

Over one thousand dollars worth of slate blackboards were removed from the second and third floor classrooms yesterday. They will be put up in some future new building as the slate is as good as it ever was. Yale locks to the value of several hundred dollars were likewise removed and will be installed on the campus as needed.

All of the steam heating apparatus will be saved for possible use in later buildings. Some of the old chairs have been kept. A great many of the classroom chairs and desks will not be saved for they are of an antiquated type and repair parts can no longer be secured for them.

The slate from the roof will also be saved, as was the slate from Nebraska Hall roof. It will be carefully taken off, and tied up into small stacks. Some of the lumber will also be available for future use.

#### Preserve Historic Items

For historical purposes the old walnut banisters and other familiar objects will be saved. They will be temporarily stored in the stadium. One of the things to be saved for the historical collection will be the old clock which for the past twenty-five years has shown the time of day in the post-office on the first floor.

Of interest on the banisters are the small wooden blocks placed at intervals of few feet to prevent students sliding down. They were put up almost fifty years ago, in the seventies, according to Superintendent Seaton, who based his statement on the fact that the wood is the same as the banister and in about the same condition, and must have been installed shortly after the building was erected.

The old college bell visible from the south side will form another part

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## Need More Ushers for The Notre Dame Game

More ushers are still needed for the Notre Dame football game Thanksgiving Day. Men who wish to apply for positions open must be members of the R. O. T. C. unit and are asked to leave their names at the Student Activities office the first of this week. Over 200 more men are needed.