The Daily Nebraskan

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SIGMA XI LECTURE

RICHARDS ADDRESSES A LARGE AUDIENCE.

Takes "The Steam Turbine" for Subject and Traces Its Development From 200 Years Before Christ.

Professor C. R. Richards delivered a very interesting lecture to the Sigma Xi society and a large number of guests Saturday evening in the lecture room of Brace Hall.

He took as his subject, "The Steam Turbine," and traced its development from "Hero's mill," which was the first steam turbine down to the present day "Parsons" or "Curtis" type of machine.

"The turbine is the oldest type of steam engine known and was used in its primative form from 200 B. C., till 1705 when the first reciprocating engine was invented. Watt invented the separate condenser and used steam up to a maximum of eight or ten pounds. In 1800 inventors broke away from Watt's ideas on steam pressures and began to increase the pressure up to twenty or thirty pounds per square inch. Since then the steam pressures have been raised till at present pressure as high as two hundred and fifty pounds per square inch is used in some service. This is as high as it is advisable to carry pressure either practically or theoretically. In 1849 Corliss invented the Corliss valve gear which has supplanted the slide valve with a large increase in economy in slow speed engines.

"In 1883 De Laval invented the turbine of that name. He used the same principle that Hero had used two hundred years before Christ. Other types were invented in 1883 and 1896. The success of the modern turbine depends to a great extent on the design of the expanding nozzle. By the use of this nozzle the intrinsic energy is converted into kinetic energy, giving a very high velocity. Steam expanding from two hundred pounds to atmospheric pressure of about three thousand feet per second and a turbine to use the energy of the steam economically must have a peripheral speed of one-half this if it is a single stage machine. Some of the Parson's turbines run at a speed of twenty thousand revolutions per minute and it was not possible to balance them until they were tnemounted on a flexible shaft by which they were made to rotate about their center of gravity instead of their geometrical center. Some of the ten horsepower motors have a shaft the size of a lead pencil. By using several nozzles and expanding the steam in several steps Curtis was able to reduce the speed of rotation of his motor.

"The advantages and disadvantages of the turbine were summed up somewhat as follows: The turbine, on account of its high speed gives a large power for small machines and thus saves floor space and weight. On account of using the velocity of the steam instead of the pressure it may

(Continued on page 3)

FRATERNITY HALL WALT'S ORCHESTRA

Company B Hop

FRIDAY, MAY 1ST, 8:30 P. M.

TICKETS $1.25 LIMIT 80

GLEE CLUB TRIP.

The Club Takes a Two-Days' Jaunt, Giving Two Concerts.

The Glee club left Lincoln at seven o'clock Tuesday morning for Kearney, where they gave a concert in the evening. They were met at Kearney by Miss Castor, who came from Denver to help in the concert there and also in the home concert on Friday evening. The Kearney people enjoyed the concert and showed their appreciation by giving the boys a dance at the Elk's hall after the performance. Two former University boys, Mr. Wilburn and Mr. Porter are teaching at Kearney and they were responsible for the splendid treatment accorded the boys. On Wednesday night the concert at St. Paul was received with a great deal of enthusiasm. The people there also entertined the boys at one of the finest homes in the city. There are also several University graduates in St. Paul, Mr. S. H. Martin, who is superintendent of schools was a membor of the first Glee club organized in the University. The first club was organized in 1895, under the direction of Hary Reese. Mr. Martin had the distinction of being able to sing any of the four parts and in case of necessity he was called upon to do so. He is one of the republican candidates for nomination for state superintendent.

SCHOOL FETE DAY.

High Schools of State to Appear on Campus May 15.

The Annual High School Fete Day is to be May 15. The debate for the state high school championship will he held in Memorial Hall, at eleven o'clock on that date. The school holding the championship for each district will send its best debater. Professor Fogg, who is secretary of the League expects to announce the question for this debate this week.

Only two districts have reported their winners. In the Northern district, Albion is first; and in the Southeastern district, Wymore won the first place.

Art Haste, E. E., '07, was visiting old friends about the University yesterday. Since graduation he has had much valuable experience in his line of work, both in Pittsburg and Chicago.

There will be a meeting of Phi Alpha Tau in the temple this evening.

The best coffee I ever drank—that served in The Boston Lunch. Try it.

GET TAGGED.

Every Man Without a Tag Tomorrow Gets Stung.

Tonight at the city Y. M. C. A. the University association will complete plans for raising the amount of money necessary to cancel all indebtedness incurred during the present year. Thirty-five men will take supper together and after several short speches explaining the movement, each man will be provided with tage. Tomorrow morning every man without a signal flying fromy his button hole will be attacked for a dollar pledge. All having made pledges before will receive the signs of truce without further parley, but anyone without is subject to attack until ready to "knuckle." In this way $300 will be raised by evening and since every one of the working force is pledged to get the subscriptions, the sum is assured—unless everybody cuts classes and shies at the campus.

The money so raised will go for the general running expenses. Several men stayed over a day during Easter vacation and raised $175 toward the sum owed on the furnishings. Since then, sufficient money has been added to clear up the entire debt. Hence, after tomorrow, Y. M. C. A. finances will, if places are properly executed be in excellent condition.

May Pole Dance.

Mary Strahorn.
Alice Rudersdorf.
Nell Ludden.
Pearu Fitzgerald.
Messie Kimmel.
Stella Vrimble.
Marion O'Connell.
Mary Brown.
Keo Curray.
Ethel Wood.
Wilhelmina Herold.
Otis Hassler.
Florence De Lacy.
Lilian Hrubesky.
May Bordwell.
Ora Shaw.
Alumni banquet Orator—Ross King.
Track manager—F F. Mueller.
Baseball manager—E. A. Schmidt.

Sophomore Baseball.

Sophomores who desire to try out for the class baseball team will please meet me at the Armory today at eleven.

L. FLOWER,
Manager.

German Club, Thursday, April 30. At 8 p. m., with Miss Glaideth Denny, 1726 Q.

FRAT BASEBALL

SIGMA ALPHA DEFEATS PHI PSI AND NOW LEADS THE LIST.

Three More Games Played—Interest Increases Daily—Sigma Alpha and Delta Upsilon Tie.

Three more games have been played in the interfrat league since Friday. On Saturday the Alpha Theta Chis beat the Phi Delts by a score of 7 to 6. Batteries—Alpha Theta, Fleming and Elliott; Phi Delts, Halligan and Owen.

The Alpha Tau Omegas beat the Beta Theta Pi team by a score of 8 to 1. Batteries—A. T. O., Flower and Jessup; Beta, Harts and Murphy.

Yesterday the Sig Alphs kept up their fast pace by defeating Phi Psi 10 to 2. They head the list now, having played and won three games. The Phi Psis played a poor game, abounding in errors and noticeably lacking in hits.

Score of the game:

Sigma Alpha Epsilon.

	AB	R	H	PO	A	E
L. Greenslit, ss.	3	1	1	1	3	1
R. Burruss, 3b.	3	1	0	1	2	0
R. Greenslit, c.	5	2	1	7	2	0
Hughest, lf.	4	1	0	0	0	0
Meyer, 1b.	5	1	2	10	1	0
Randall, 2b.	4	1	2	1	1	1
Frank, cf.	3	1	0	0	0	0
Kompton, p.	4	1	1	0	4	0
Eager, rf.	4	1	1	1	0	0
Totals	35	10	8	21	13	2

Phi Kappa Psi.

	AB	R	H	PO	A	E
Fricke, 3b.	4	0	1	0	2	0
Bentley, 2b.	3	0	0	3	2	1
Johnston, 1b.	3	0	0	12	0	1
Wangerien, ss.	2	0	0	2	3	0
Cherrington, p.	3	0	0	1	3	1
Temple, rf.	2	1	0	1	0	0
Lloyd, cf.	1	1	0	0	0	0
Burnett, c.	3	0	0	1	1	4
Slaughter, lf.	2	0	0	1	0	1
Totals	23	2	1	21	11	8

The standing of the teams at present is as follows:

	Pld.	W.	L.	P. C.
Sig. Alpha Epsilon	3	3	0	1000
Delta Upsilon	1	1	0	1000
Alpha Tau Omega	3	2	1	.667
Phi Delta Theta	3	2	1	.667
Alpha Theta Chi	2	1	1	.500
Delta Tau Delta	2	1	1	.500
Phi appa Psi	2	1	1	.500
Sigma Chi	2	1	1	.500
Beta Theta Pi	2	0	2	.500
Kappa Sigma	2	0	2	.000
Phi Gamma Delta	2	0	2	.000

A. E. Wolfe, '07, who has been principal of the Leavenworth, Wyoming, high school this year, writes that he has the opportunity of staying another year if he cares to. He says the climate, scenery and experience is well worth the price and that the western country is the place for the young man in any line of work or profession.