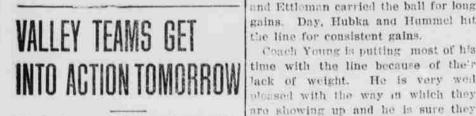


itiative while bad eyes ncourage procressination. You cannot afford to go without our glasses it your vision is defective. HALLETT Optometrist E Est. 1871 13143 O St. alialiationalialialiation it



All Conference Elevens Except Missouri Play Opening Games Saturday

Tomorrow will officially inaugurate DEAN LEROSSIGNOL the 1921 football season in the Missouri Valley conference. Every eleven in the Valley with the exception of Missouri will be be in action tomorrow afternoon. While the majority of the conference teams are scheduled to meet comparatively easy teams great interest is nevertheless mani fest in the initial contests.

The Universities of Nebraska Okh.boma, and Misouri are generally conceded to be the chief contenders in the race for Valley honors this fall, but no prophesies can be made

The schedule for Saturday contests follows:

University of Nebraska vs Ne braska Wesleyan at Lincoln. Coe College vs Iowa State College at Ames. Ia. Kansas Aggies vs Emporia College at Emporia, Kas. Oklahoma Aggies vs University of Missouri at Columbia, Mo.

Simison College vs Grinnell College be Grinnell, Ia. Dubuque College vs Drake University at Des Moines, Ia.

Washburn College 's University of Kansas at Topeka, Kas. Missouri School of Mines vs Wash-

ington University at St. Louis, Mo.

#### FIRST YEAR GRIDSTERS GIVE HARD SCRIMMAGE

carlings Are Developing into Fast Team and Bid Fair to Give Varsity a tSiff Fight

Van Dorn and Hinman both played

a good game at quarter, while Dewitz

Coach Young is putting most of his

can stop the ourush of any of the

(Continued on Page Two)

came to the University of Nebraska.

He has been with the state Univers-

ity since that time; first as professor

lirector of the School of Commerce;

of economics; from 1913 to 1919 as

Cusiness Administration was created,

degree of LLD, from the University

Dr. LeRossignol spent some months

n New Zealand investigating econ-

oute conditions in that country. The

The results of the investibation are

incorporated in his book, "State Sec-

intism in New Zealand." which is re-

cognized as a work of high order.

He had previously written (1907) "Or

hedox Socialism: A Criticism." In ad

dition to many periodical articles and

monographs he has published "Mon

molies. Past and Present." 1901:

'Little Stories of Quebec," 1908.

"Jean Baptiste," 1915; and "What is

Socialism?" 1921. During the past

ince summers the Dean has been

on the staff of The Weekly Review.

Dean LeRossignol married Jessie

Dean of the College. He has a

tinction there until 1911, when he

HONORED BY DEGREE

Varsity backs.

d Denver (1911).

Katherine Ross, also a graduate o McGill, in 1898. A son, E. Ross Le-Rogsignol, is a student at the University of Nebraska. A daughter, Helen, illends the Lincoln public school. As the "Alpha Kappa Psi Diary"

prince of good fellows." He has esis a thorough scholar and a genial The first-year men were put said of him: "James E. LeRossigno! hrough two hours of hard scrimmage Thursday afternoon. Coach Young is tablished himself in the hearts of all the students in the College of developing some very fast back field nen who can carry the pigska msiness Administration, and students of other colleges taking work in the through the line or around the ends Much time was spent in coaching the Leonomics and Commerce Department. He is a member of American guards to make their playing more Academy of Political and Social effective, The line was strong on tionce, the American Economis As both teams that were in action. Line nen who were doing exceptional worl sociation, the Author's Club (London), were Packer, McAllister, Perry and the Commercial Club, Sigma Delat tadices. Cameron played a good Chi, and Alpha Kappa Pst. game at end breaking several plays.

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#### How Do Hot Things Cool?

HE blacksmith draws a white-hot bar from the forge. It begins at once to cool. How does it lose its heat? Some is radiated, as heat is radiated by the sun; but some is carried away by the surrounding air. Now suppose the bar to be only one-half the diameter; in that case it loses heat only half as fast. Smaller bars lose in proportion. It would seem that this proportion should hold, however much the scale is reduced. But does it? Does a fine glowing wire lose heat in proportion to its diminished size?

The Research Laboratories of the General Electric Company began a purely scientific investigation to ascertain just how fast a glowing wire loses heat. It was found that for small bodies the old simple law did not hold at all. A hot wire .010 in. diameter dissipates heat only about 12 per cent more rapidly than a wire .005 in. diameter instead of twice as fast as might be expected.

The new fact does not appear very important, yet it helped bring about a revolution in lighting.

It had been found that a heated filament in a vacuum evaporated like water and that this evaporation could be retarded by introducing an inert gas such as nitrogen or argon. But it had long been known that the presence of gas in the ordinary incandescent lamp caused so much heat to be carried from the filament that the lamp was made useless. The new understanding of the laws of heat from wires, however, pointed out a way of avoiding the supposed necessity of a vacuum.

By forming the fine tungsten filament into a helix the heat loss was made much less prominent. The light radiated is then about the same as if the wire were stretched out, but the heat loss through the gas is very much less. So the tightly coiled filament was put into the gas-filled bulb-and a new lamp was created. At the same cost it gave more and better light.

Thus pure research, conducted primarily to find out how hot things cool, led to the invention of the gas-filled lamp of today-the cheapest, most efficient illuminant thus far produced.

Sooner or later research in pure science enriches the world with discoveries that can be practically applied. For this reason the Research Laboratories devote much time to the study of purely scientific problems.

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