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CADY ADDRESSES SCIENTIFIC BODY IN FIRST MEETING

Head of Chemistry Department at Kansas University Discusses "Radium and Radioactivity."

LAST MEETINGS SATURDAY

Professor Nutting of Iowa Lectures Today at 4:30 on "Marine Life in the West Indies."

On account of the large number who were unable to attend the lecture last evening, Professor Cady will repeat the major portion of his lecture on "Liquid Air and Its Application" tonight at the First Presbyterian church at 7 o'clock, preceding the lecture of Professor Nutting.

Dean H. P. Cady, head of the department of the School of Chemistry of the University of Kansas, gave a lecture Thursday afternoon in the auditorium of the Chemistry building on "Radium and Radioactivity." Professor Cady performed a series of experiments along with his lecture by which he showed that radium gave off three different kinds of rays alpha, beta, and gamma. These rays have various penetrating powers and are of different speeds. They are deflected when they pass through a magnetic field and when the field is of known strength the speed of the rays may be measured. Certain substances when in the path of these rays fluoresce.

"From the experiments and known laws arrive by a process of deduction that the alpha rays are positively charged particles of helium and the beta rays are negatively charged electrons. The latter play a very important part in radio. The actions of the radio active substances give strong evidence of the existence of atoms. The gamma rays are the ones which are used in the treatment of cancer," said Professor Cady.

The meetings of the Academy of Science, under the auspices of which Dr. Cady spoke, began Thursday noon and will be continued until the evening of Saturday, April 14. According to notices sent out this week the meetings will be of interest to students, faculty, and towns-people alike. Other organizations that will meet with the Academy are: Nebraska Radio Association, Nebraska section of the American Chemical Society, the University chapter of Sigma Xi, and the Lincoln Academy of Medical Science.

"Marine Life in the West Indies," illustrated with several reels of motion pictures, will be the subject of a lecture given by Prof. C. C. Nutting, head of the department of zoology at the University of Iowa. This lecture will come at 4:45 on Friday afternoon, in Social Science Auditorium.

Two papers to be given in connection with the meetings of the Academy are "Water Purification," by George T. Prince of Omaha, which will be read at 3:15, Friday afternoon in Room 206, Mechanical Engineering building, and "Sewage Disposal," by H. P. Letton, of the Lincoln firm of Grant, Fulton, and Letton, given at 9:30, Friday at the same place.

Other papers written by members of the faculty of the University of Nebraska upon many subjects will be read at some time while the Academy meets. The scope of the papers include treatises on Anthropology, Astronomy, Botany, Electrical Engineering, Organic Chemistry, Paleontology, Physics, Plant Pathology, and Political Sciences. These papers have all been published by the Academy and will soon be off the press.

A membership campaign will be carried on in connection with the meetings over the weekend. Prof. P. K. Slaymaker of the College of Engineering, is the treasurer and the membership secretary. Membership will be taken from 8 to 8:30 in the hallway of the Temple on Friday morning.

The vocational bureau of the University Y. M. C. A. announces that it has had many calls for young men to do heavy work and odd jobs for spring housecleaning, raking lawns, beating carpets, and the like are useful accomplishments.

Engineers Are Fed and Filmed on Trip

The Nebraska Power Company of Omaha had taken an eight by ten photograph of the more than one hundred engineering students who made the annual inspection trip this spring, and recently sent a copy of the picture, mounted on a twelve by fourteen cardboard, to every man in the party.

At the Crete Mills, Crete, Nebraska, the Blue River trip, the men were invited to lunch and were seated at a banquet. Mr. Johnson, president of the company, took charge of the occasion in person. Orpheum talent and musicians entertained them.

At nearly all of the companies visited the entire plant with its force of employees was turned over to the students for inspection. The Northwestern Bell Telephone company at Omaha also entertained the group at lunch, and other concerns made the men as welcome as they could in the short time allotted, passing cigars and so on.

ENGINEERS COMPLETE COMPRESSOR UNIT FOR TWO-TON ICE MACHINE

Castings Are Donated by Baker Ice Machine and Company—Product Fine Piece of Work.

With the skills being put under it for transportation to the place of exhibition during Engineers' Week, April 23 to 28, the compressor unit of a two-ton ice machine built from a set of castings in the machine tool laboratory in the Mechanical Engineering building by engineering students is now ready for the final coat of paint. The preliminary tests have been run to insure proper construction before final finishing.

The semi-steel castings in the rough were donated to the mechanical engineering department by Mr. Baker, president of the Baker Ice Machine company, a little over a month ago. The machine as finished is the vertical type of ammonia compressor, said C. A. Sjogren, instructor in charge of the machine tool laboratory. The cylinders and fittings are of steel.

Excellent workmanship was necessary in the finishing of the parts and the construction of the machine. Mr. Sjogren said. Unless the work was skillfully and accurately done the unit would not operate under the high pressure for which it was designed.

The government equipment bought some time ago by Prof. W. L. DeBaufre at Long Island, New York, is now being overhauled in the mechanical engineering laboratories, Mr. Sjogren said.

GRADUATION EXERCISES AT AG SCHOOL TONIGHT

Twenty-five Graduates Receive Degrees—Walter C. Coffey Is the Principal Speaker.

Walter C. Coffey, dean of the Minnesota College of Agriculture, will be the principal speaker at the annual graduation exercises of the School of Agriculture of the University of Nebraska at 8 o'clock on Friday, April 13. Twenty-five students will be graduated from the school, of whom four will receive elementary state teachers' certificates.

Chancellor Avery of the University will preside at the exercises, and will confer the degrees on the graduates. Mrs. Lillian Helms Polley will sing.

The sessions of the School of Agriculture begin late in the fall, and end usually in the middle of April, because most of the students live in the country, and are needed by their parents. The standing is about the grade of the average high school.

Interclass Mat Meet Scheduled for Today

The interclass wrestling meet will be held today at 4 o'clock in the Chapel, the west end of the Armory. The regular classes will compete. Winners in each weight are to receive class numerals. Anyone except men who have been on the Varsity team may enter. Dr. Clapp said. Contestants may weigh in at any time after noon. No admission will be charged.

DEBAUFRE HOME FROM EXTENDED TRIP THRU EAST

Visits Dr. Richards at Lehigh, Former Dean of Nebraska Engineering College.

MAKE HELIUM FROM GAS

United States Bureau of Mines Sending Four-stage Air Compressor for Experimenting.

Prof. W. L. DeBaufre, chairman of the department of mechanical engineering, returned Wednesday morning from a trip to the East in connection with the work of extraction of helium from natural gas. He visited Lehigh University at Bethlehem, Pennsylvania, where he met Dr. Richards, president of Lehigh University and former dean of the Nebraska College of Engineering, who asked to be remembered to his friends in Lincoln. Liquid air machinery is on the way to the University to be used by Professor DeBaufre in heat-transfer experiments he said.

Contracts have been let for most of the parts of the semi-commercial helium-production plant to be erected this summer at Fort Worth, Texas. Professor DeBaufre's return was delayed a few days when he stopped in Cincinnati and Chicago to consult with firms building some of the apparatus for the helium plant.

His visit to Lehigh University was for the purpose of discussing with Dr. Richards the possibility of cooperation of Lehigh University with the committee on application of oxygenated air to metallurgical processes of which Professor DeBaufre is a member. The committee has been working out the possible advantages of using oxygenated air in blast furnaces and is planning to conduct an experimental demonstration of these advantages by building a small blast furnace with an oxygen production plant, Professor DeBaufre explained. The location of this experimental apparatus has not yet been definitely determined, however; it may be located at the Ohio State University, at Pittsburgh, or at some other college.

The United States Bureau of Mines is sending a four-stage air compressor, capable of putting air under a pressure of 2500 to 5000 pounds per square inch, to be installed in the Mechanical Engineering building. A liquefier will be installed with it so that liquid air may be produced.

Professor DeBaufre derived a new formula for heat-transfer apparatus last summer while he was in Washington working on the helium problem, and this formula has greatly simplified the design of interchanges. The object of the experiment which he proposes to carry out is to check the relations involved in this new formula at temperatures down to that of liquid air.

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Minnesota University President Tells Interesting Story at Annual Banquet

Lotus D. Coffman, president of the University of Minnesota, used to be a coach of athletics.

Athletic authorities at the University and from Minnesota high schools were treated to a surprise, when Prexy Coffman, speaking at the banquet for teams in the state high school basketball tournament told how for seven years, when he was principal of a high school in southern Indiana, he helped direct the football, track, and baseball teams.

Incidentally, he brought the track fans to their feet with his description of the way a rangy Hoosier boy trained for the mile run, which his high school had to win in order to figure in an Indiana interscholastic meet.

"Our only chance," said Prexy, "was a tall, incredibly thin boy who lived on a farm about four miles from town. His name was John. With his sister, he drove to and from school daily in a rattletrap of an old buggy. I thought I saw speed in him but he had no time to practise. He had to leave school as soon as classes were dismissed so that he might

Honorary Colonel to Review Cadets Today

At 5 o'clock this afternoon, all cadets will participate in a parade and review on the drill field north of the Social Science building, to honor Miss Pearl Swanson, '23, honorary colonel of the cadet regiment. Miss Swanson was elected to this position by popular vote this fall, and was formally presented at the Military Ball December 9. She will review the cadets from the stand on the drill field.

The schedule of reviews for the remainder of the school year was given out yesterday. The only event for the military department which has not yet been scheduled is the annual competitive drill, which is the culmination of the year for the cadets.

The calls for the reviews will be as follows:

First call 4:45.

Final call 5:00.

APRIL NUMBER OF AMERICAN STUDENT MAGAZINE IS OUT

Many Interesting Articles in Digest of College Publications—Contains 60 Pages.

The April number of "The American Student," a digest of college publications, has just been issued. This is the second issue of the sixty-page magazine, which is published in Buffalo, New York.

The first few articles of the magazine comprise the feature section, including "Thrift—in a Wisconsin School" and "A Student's Idea of Educational Success."

Ninety-three articles are devoted to a digest of college news. Seventy-one articles are given to a chronicle of the high school news of the country. A page of editorials by high school and college editors is given.

"A Department for Mothers" is the title of a section given over to articles discussing the welfare of the child. What the athletes are doing is condensed into six pages of terse stories. The ever present humor section is filled with clippings from school papers.

Every section of the country is represented in the pages given over to the correspondents of the paper. The stories cover a wide range of interesting activities in American schools.

Items from every state are told in a sentence in a section at the last part of the magazine.

Fordyce Lectures on Forming of Character

Dr. Charles Fordyce, professor of educational measurements and research in the University, will deliver a lecture on "Relative Influence of Inherited Characteristics and Environment in the Moulding of Character," to the University Men's class at St. Paul Methodist Episcopal church, Twelfth and M streets, Sunday morning April 5, 9:45 o'clock.

ANNUAL IOWA-NEBRASKA DEBATE HOTLY CONTESTED BY BOTH TEAMS

Debaters Talk for Three Hours on "Should the United States Enter League of Nations"—Iowa Upholds Affirmative and Nebraska Negative—Large Attendance.

LIEUTENANT-GOVERNOR FRED G. JOHNSON PRESIDED

Professor M. M. Fogg Well Pleased with Showing Made by Nebraska Debaters in Defending Negative Side of the Question—Open Forum Discussion Follows Debate.

FEDERAL POSITIONS OPEN TO STUDENTS

Government Offers Jobs of Radio News Editor, and Examiners to Applicants.

A radio news editor is needed by the Civil Service Commission. The applicant must have had practical experience in newspaper or magazine work, and must submit published articles to the commission. Education and experience count 35 per cent, and a practical test counting 35 per cent will be given to applicants who can fill the other requirements. The salary varies according to the ability of the employe from \$1,800 to \$2,100 plus a bonus of \$20 a month to employes whose services prove satisfactory.

A civil service examiner is wanted. The applicant must take an examination on the general information necessary to the position. He must also write a paper of 300 words on one of several subjects named by the commission, such as Chemistry, Economics, Spanish, or Editing and Proof-reading. The salary varies from \$1,000 to \$1,200 a year plus the bonus.

Beside contact and intercourse with men and women in the government employ, who in many cases stand at the head of their profession, universities conveniently situated in the city offer a wide range of courses leading to bachelor's, master's and doctor's degrees. These courses are arranged as to hours so that studies may be pursued in evening classes. The student may thus be self-supporting.

A salary of \$1,200 to \$1,800 goes to the successful applicant for the position of junior chemist. An examination covering the chemistry and physics and some optional subject will be given by the commission. Education, training, and experience count 30 per cent in the awarding of the position.

Inspectors and agents required under the anti-narcotic act are asked for by the commission. Applications should be in before May 15. The ratings are made on the basis of physical ability, ten per cent, and training and experience, 90 per cent. The duties involve the inspection of the records of manufacturers engaged in the manufacture of narcotics and the investigation of illicit traffic.

A junior statistical clerk will be selected in an "assembled" examination May 9. Practical tests in statistical tabulation and computation will be given to applicants. A large background of experience is required.

Theta Sigma Phi Alumni Plan Tea to Raise Funds

Twenty-five Columbus alumnae of Theta Sigma Phi, woman's honorary and professional journalistic sorority, will give a bridge tea at Lazaus', April 21. Tickets will be sold by active and alumnae members for 50 cents apiece, and tables may be reserved for \$2.00.

Proceeds will go to the Woman's National Journalistic Register which was founded in Chicago in 1920. Its aim is to place students and graduates of college courses in journalism in positions. Although founded and sponsored by Theta Sigma Phi it serves all women who are interested in working in the newspaper or magazine field.

The managing board of the Register is supervised by the grand council of the organization, of which Harriet E. Daily '19 of Columbus, is a member.—Ohio State Lantern.

A hot head is a man who hardly can restrain his impulse to make other men fight for his country.

"Resolved, That the United States Should Enter the League of Nations" is the question over which verbal battle was waged for three hours last night at the Temple Theatre. Iowa upheld the affirmative of the question, and Nebraska defended the negative. The debate was spirited, and the open-forum discussion held after the formal debate lasted for three-quarters of an hour until it was choked off by Lieutenant-Governor Fred G. Johnson, who presided.

The debate Thursday wasn't "just talking" but was a keen intellectual battle. The lower floor of the theatre was jammed. Many people from the city were present and the attendance was greater this year than at the debate last year.

"Good teams—both of 'em," tersely commented Professor M. M. Fogg, who is in charge of inter-collegiate debate. When asked his opinion on the performance of the team, he asserted, "Well done, well done. They mastered the question at home. Very ready they were in answering all sorts of unexpected questions. Their command of the material was especially good."

"I regret that I didn't take more of the argumentation courses under you when I was in school," stated Fred G. Johnson, Law '03, who presided. "The boys did very well."

That both the affirmative and negative sides had failed to discuss the question to the greatest advantage was the contention of Judge B. F. Good in the open-forum discussion. He believed that the negative should have offered something better than the league before condemning it, and the Iowa team should have asked the Nebraskans to offer an optional plan. James M. Stewart opened the discussion for Iowa. He explained the structure of the league, and attempted to prove that the League offers the highest and most efficient form of international co-operation. He stated that the League represents 75 per cent of the population of the globe.

Ronald Burton, '25, Lincoln, made the second speech of the evening. He tried to establish the point that the League was failing to settle the major European problems, that the League had in many cases failed in attempted solutions, and that in other situations—the Ruhr problem was an example cited—had failed to try to solve the problems. The fact that the League was not aiding in the economic recovery of Europe was given as a proof of its inefficiency.

Edwin Baker, '24, continued the argument for the affirmative with the contention that the League was the most effective means of settling world problems. He stated the League of Nations is the only power which is able to bring about the settlements because it could concentrate the force of the entire world on any recalcitrant nation.

Bernard Gradwohl, '23, Law '24, upheld the idea that the League is unsound in structure. He stated that the requirement of unanimous consent by the members of the council prevented any effective action. He objected to the League on the ground that judicial disputes were to be settled by a political body, and that the delegates would not be able to rise above their nationalist passions. The indefinite nature of the agreements is a point against the League according to the speech of Mr. Gradwohl. He cited as examples, varying constructions placed upon articles in the covenant at different times.

That the League of Nations has the potential power to settle all world problems was stated by Robert E. Birchard, '24, in the Iowa speech in the concluding affirmative argument. He stated that one of the greatest achievements of the League was the perfecting of a permanent organization. That the League was successful in operation was shown by the facts that the Council and Court had to hold extra meetings in order to take care of problems, was one of his statements.

Wendell Berge, '25, Lincoln continued. (Continued on Page Two.)