

DISCOVERIES ALTER CRYSTAL THEORIES

Chemists Reveal Revolutionary Arrangements of Bodies In Rolled Metal

Revolutionizing prevalent theories of crystal arrangement in rolled metals, Prof. Wheeler P. Davey, of the department of chemistry, and Cleveland B. Hollabaugh, graduate student of physical chemistry, are reaching startling conclusions in the fields of physical chemistry while working on a thesis for the latter's doctor's degree.

The new ideas discovered have a large contributory value to the final solution of metallurgical problems caused by metal casting when it is rolled. A solution will be made more possible by a comprehensive knowledge of the orientation of crystals in rolled metal, discovered during the research.

Contrary to the existing idea that when face-centered cubic metals are rolled into sheets, one layer of atoms arranges itself parallel to the surface of the sheet, Professor Davey and Mr. Hollabaugh have found that crystals of rolled metals are not lined up accurately, but that they arrange themselves like bricks in a poorly laid pavement.

To Present Papers Upsetting the theory that all face-centered metals behave alike and show definite, fixed arrangement, the scientists found that angular limits of this preferred orientation are different for dissimilar face-centered cubic metals and depend upon the chemical valence of the metal.

The investigators thus found that copper and nickel, both having valence of two, behave exactly alike and differ from silver with a valence of one in orienting within dissimilar limits. These arrangements are still different from that of aluminum with a valence of three.

The orientation aspect has been practically settled, and now the scientists are faced with the problem of finding a reason in physical chemistry for these different arrangements and why they depend on the metals' valences. At present, metallurgical concerns are using orientation to improve their factory methods of rolling. Professors Davey and Hollabaugh are planning to present a paper on their research problem before the American Physical Society at Washington, D. C. April 30 and May 1, 2.

Bright Hued Lapel Ribbons Herald Greek Honorary Pledging Season

Open season for honorary fraternities pledging is here again, and once more the campus is teeming with already key-burdened individuals proudly wearing bits of assorted hued ribbons bring an amazing whirl of Greek letter combinations and, very often, in their collective lapels.

To the uninitiated this time of year brings an amazing whirl of Greek letter combinations and, very often, beautiful friendships are broken because of congratulations prompted in good faith but uttered with seemingly malicious inaccuracy.

Know then that Eta Kappa Nu is an honorary electrical engineering society and is not for recognition of skill in Spanish, that Alpha Pi Mu is to reward future doctors in the making and does not seek to pledge interior decorators, and that Purple Quill does honor to embryonic Sinclair Lewis and is not for the encouragement of smock-wearing artists.

If you would hold on your best friends, realize that Parni Nons is not for French students but rewards active juniors and seniors, understand that Skull and Bones pledges upper-

class activities leaders and is not intended as compensation for the labors of student biologists, and remember that Pi Delta Epsilon honors aspiring journalists and has not the remotest connection with mathematics.

Don't gaze dumbly at a Delta Sigma Iho shingle for activity in debating and congratulate the owner for being a prominent football man. Never make the mistake of felicitating the wearer of Seaboard and Blade military ribbons for being on the fencing team, and don't commit a similar faux pas by crediting the owner of a Blue Key shingle with skill in industrial engineering.

Only when bolts of ribbon have been used for lapel ribbons, barrels of India ink have been consumed for honorary shingles, thousands of stamps have been licked by neophytes writing home for initiation money, and hundreds of paddles have been broken over prospective key-wearers, may the unknown step forth again. Even then he risks the danger of meeting his best friend submerged in a Friar's hat and congratulating him for his work in the home economics department!

2 OF FACULTY WILL ATTEND POLITICAL SCIENCE MEETING

Dr. Jacob Tangey and Dr. Harold F. Alderfer, of the department of history and political science, will attend a meeting in Harrisburg on April 2 and 3 to aid in organizing an association of Pennsylvania college teachers of political science. Dr. Tangey is a member of the committee in charge.

In conjunction with men from various departments of the State government and possibly Governor Pinchot, the delegates from Pennsylvania colleges will also discuss public utility problems, new election laws, and the State's financial system.

GIVES AGRICULTURE LECTURE

Miles Horst '16, associate editor of the Pennsylvania Farmer, delivered the weekly agricultural lecture in 1100 Hort Tuesday afternoon. Mr. Horst had as his topic "The Future of Pennsylvania Agriculture."

XI SIGMA PI ELECTIONS

(Honorary Trustees) Undergraduates Ephe M. Oliver '31 Horace R. Josephson '32 Gordon G. Mark '32 Herbert H. Muntz '32 Joseph V. Zary '32

PSYCHIATRIST TO GIVE FIRST LECTURE IN SERIES TUESDAY

Opening a series of five lectures on "Abnormal Psychology and Mental Hygiene," Dr. Horace V. Pike, clinical psychiatrist at the Danville State hospital, will speak on the "Unconscious Mind" in the Chemistry amphitheatre at 7 o'clock Tuesday night.

The psychiatrist has visited and lectured at Penn State many times in the past nine years. His talks are a part of the state-wide program of health education and mental hygiene provided by the State Board of Health and his lectures here are sponsored by the School of Education.

DISBAND RUTGERS SOCIETIES

Cap and Bell, sophomore society at Rutgers university, was ordered disbanded by student council because it lacked "pep," according to the Connecticut Democrat. At the same time, the council ordered the dissolution of Scarlet Key, junior organization which was supposed to entertain guests of the university but failed to fulfill its purpose.

ENGINEERS WILL HEAR AIR BRAKE COMPANY EXECUTIVE

Mr. L. K. Silcox, vice-president of the New York Air Brake company, Watertown, New York, will be the speaker in the weekly engineering lecture when he addresses senior engineers on "Changing Conditions in Transportation and Commerce" in the Chemistry amphitheatre at 4:10 o'clock this afternoon.

Having served as general superintendent of motive power on the Chicago, Milwaukee, and St. Paul railroad before assuming his present position, the speaker has had experience in the field of transportation.

Campus Bulletin

Intramural tennis managers will meet at the Phi Delta Theta house tonight at 6:30 o'clock. Entrance fee of \$1 will be due at that time.

Intramural Track managers will meet at the Kappa Sigma house at 8 o'clock Tuesday night. The entrance fee of \$1 will be due at that time.

Freshman women's study schedules are due in Dean Ray's office Monday.

Those wishing to go on the unemployment trips to Philadelphia and Pittsburgh are requested to report at the Y. M. C. A.

Dean Charlotte E. Ray and assistant dean Helen E. Cleaver will be at home to all senior women living off campus from 4 to 5:30 o'clock Monday in Woman's building and to all juniors living in town at the same time Tuesday.

Candidates for first assistant Baseball managers are to report at the Freshman Field Saturday afternoon, at 2 o'clock.

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There will be a meeting of all students from Indiana county tonight at 7 o'clock in Room 318 Old Main.

CLASSIFIED

FOR SALE—Special riding tickets on easy terms. Beginner's classes 6 p. m. daily—instruction free. Other groups at 4 p. m. Phone 9799 by noon for reservations. Ask about Phys. Ed. Credits. Campus Saddle School (rear of theatres). 2Tch

WANTED—Student to assist in kitchen. Must room at the house. Good opportunity. For interview call 817. ltpap

WANTED—2 RIDES to Philadelphia and return during Easter holidays. Edward Cornely. Phone 138.

LOST—Black leather note book somewhere between Engineering "A" and the Women's building. Finder please return to Miss Margaret Troup, Woman's building.

PAPERING and DECORATING OF ALL KINDS—NEW SPRING SELECTIONS IN WALL PAPERS and PAINTS Exclusive Agency for SHERWIN-WILLIAMS PRODUCTS All Contracts Placed Before April 1 Will Receive a Special Discount PORTER and WEBER 128 South Fraser Street Phone 688

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William Haines in Metro Goldwyn Mayer's "A Tailor-Made Man" You'll Agree He's a Wonder! From the Famous Broadway Smash—The Story of a Pants Presser With a Personality—The Best Picture William Haines Has Had in Two Years! CATHAUM Monday and Tuesday March 30 and 31 Matinee Daily at 1:30

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What a JOYOUS EASTER This Is Going to Be Especially for the young men who have succumbed to the lure of the new spring suits. Society Brand Charter House Braeburn Hait, Schaffner & Marx They are the last word in smart new styles, colors, fabrics and priced so moderate. Something here for every figure—for every taste—and if you are short of a little ready cash—an arrangement can be made to pay after Easter. FROMM'S Opposite Front Campus