

Physics Prof Will Test Structure of 'Whiskers' In Car Accident

How does the atomic structure of a whisker affect its strength? A University professor is after the answer.

This won't be a beard-growing contest, however. The "whiskers" in question are metal crystals, and the testing will be conducted by Dr. Erwin W. Mueller, research professor of physics.

Under certain conditions, Mueller said, metal crystals grow in the form of fine hairs or needles thus the name "whiskers." They are especially interesting because these crystals have extraordinary properties, with strength as much as 100 times greater than the same kind of metal produced by conventional methods.

The whiskers and their atomic arrangement will be the subject of a year-long study by Mueller and two graduate assistants. The study will be supported by a research grant of \$19,399 from the Wright Air Development Center of the U.S. Air Force.

With the University's powerful field ion microscope, researchers will be able to see directly the atoms in the form of crystal lattices.

The high strength of the

"whiskers", according to Mueller, is thought to be due to the high degree of perfection and the regularity of the atomic arrangement of the crystals.

But theoretically, crystals can't be absolutely perfect, Mueller said, and the form of the imperfections and dislocations in the "whiskers" can now only be guessed. The forming of expected faulty crystals in the "whiskers" will be the object of this study.

The Wright grant brings to \$121,000 the amount available for research in field ion microscopy this summer. Other projects are supported by the Air Force Office of Scientific Research and the Office of Naval Research.

Bridges Opposes—

(Continued from page one) in keeping citizens better informed, they are achieving something. We need men who will stand up for their convictions, he said.

"Our principal concern today is the survival of our country," Bridges concluded. "If we get into trouble there is no one we can turn to. We are the last strong core of freedom."

Two University students were released from Centre County Hospital yesterday after they were detained for injuries suffered from a 1-car accident.

The accident occurred on the closed portion of Rt. 545 at Centre Furnace, just east of State College.

Witnesses said Kenneth E. Young, junior in mining engineering from Natrona Heights, and Young C. Kim, graduate student in mining engineering from Taegu, Korea, were driving to State College from Bellefonte when their car skidded out of control. It was reported to have skidded on mud into several large boulders.

PART-TIME WORK

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SALARY \$45 WEEKLY

Baker, Baldwin to Edit Engineer

Charles Baker, junior in mechanical engineering from Middletown, and Jeffrey Baldwin, junior in mechanical engineering from Corry, have been named editors-in-chief of the Penn State Engineer.

Gary Robinson is the new managing editor and Donald Groff is business manager.

Other members of the managing board for next year are: James

Davitt, business accountant; James Baker, national advertising; Robert Kadis, local advertising; Martin Scherr, photography; Charles Gwinn, office manager; James Warren, publicity; Lew Housel, illustrations; Harold Hughes and Richard Haber, circulation; Dennis Evans, features; James Ettelson, area industries; and Judy Siefert, coed circulation.

+ CLASSIFIEDS +

RATES
CASH—17 words or less
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\$5.00 one insertion
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\$1.00 three insertions
Additional words—3 for \$5.00 for each day of insertion
ADS MUST BE IN BY 11:00 A.M. THE PRECEDING DAY

FOR SALE

1954 FORD Country Sedan Station Wagon, 6-cyl. overdrive, R&H. Original owner, 61,600 miles, clean. AD 8-0228 after 5.

28 FT. 1951 TRAILER 12-ft. side bedroom, excellent condition. \$1150. No. 52 Wooddale Park. AD 7-3628 after 5 p.m.

1947 PLYMOUTH 4-door. Good condition and good rubber. \$75. Call AD 8-0118 or AD 7-4125.

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LOG LOG Duplex Decitrig Slide Rule with leather case and instructions, perfect condition. AD 8-1504.

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FOR SALE

LIGHT BLUE formal, size 10, very good condition. Call ext. 672.

SPALDING GOLF clubs one and three woods; putter, three, five, seven, nine irons. Reasonably priced. Ext. 3359, after 8 p.m.

1959 TRIUMPH Tiger Cub Motorcycle with accessories. Less than 700 miles. 3525. Call AD 8-9030 or contact M. J. Ebert, 338 West College Ave.

WILCOX-GAY Tape Recorder, 3-speaker, 1 1/2 years old. \$78. Ext. 2984, Charles Jacques, 120 Hamilton.

ONE COMPLETE set of Colliers' Encyclopedia; published in 1958. Call AD 7-4905.

1955 SPORTSMAN Trailer, 27 foot, excellent condition. Shade trees, many extras. Call AD 7-3489 after 5.

P.S. SUMMER Jackets, Sweat-Shirts, T-Shirts. Fine selection of P.S. souvenirs. You can GET IT AT METZGERS.

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FOR SALE: Selling out stamp collection, as whole or by sets. Call AD 7-3309.

TVs—COMPLETELY reconditioned, various sizes. \$49—\$89. Television Service Center at State College T.V., 223 South Allen.

NEED TROPHIES? You name it—I have it. Plain or engraved. Big discounts. Quick service. Phone AD 7-7681 after 6:00. Troutman's Trophy-Novelsy Shop.

FOR RENT

WHY LIVE above ground? Call AD 8-1814 for information about cool basement apartment; summer or longer.

FURNISHED EFFICIENCY apartment for two; two blocks from campus. Living room, kitchen, bath. Free parking. Available June 2. Call AD 8-1649.

ONE BEDROOM unfurnished apartment available June 1 \$74.00. One bedroom unfurnished available July 1 \$73.13. Vaughn Nittany Apartments, corner of Bi-diy and Pugh. Call AD 7-7758 if no answer call AD 8-6028.

IDEAL THREE room summer apartment, completely furnished, contains everything needed, including private telephone. Twenty-five steps from mall. Phone AD 8-1536.

3 ROOM apartment. Available June 1 for summer. Free parking. Phone AD 7-4735.

LOST

WILL WHOEVER switched tan raincoats with me Saturday at Pi Lambda Phi please call Ernie Lofgren AD 7-4939. I have yours.

AIR FORCE ROTC raincoat with blue jacket inside, from outside Rm. 424 Boucke between 1:15 & 2:15 Tuesday. Call ext. 3567.

YOU PICKED up my hat in Boucke by mistake. I have yours. Call ext. 2948.

LIGHT KHAKI raincoat taken outside 117 Boucke, Monday. Name in collar. Please call John Kruk AD 8-6680.

TAN RAINCOAT in the cafeteria of the HUB on April 22. Call Chuck AD 7-4937. I have your raincoat.

TAN TRENCH Coat taken from HUB coat-room last Tuesday at election rally. Name on inside collar. Please return Carl L. Smith ext. 3487.

FOUND

GENTLEMAN'S CLASS Ring found in Boucke Building. Call Mrs. Smith ext. 2576 Boucke.

WANTED

SENIOR NEEDS date for weekend, including Ball. Call AD 7-3044 by 1 p.m.

HELP—Need apartment or will fill vacancy in apartment for fall. Alan ext. 3468.

THESIS—ONE STOP service. Typing and Multilithing. Call AD 8-0774 after 5 p.m.

WAITERS—Chi Phi. Work for meals. Call AD 7-4332 ask for Marty.

KITCHEN HELP needed. Call Caterer, Sigma Chi. AD 8-6786.

AHSOO, YOU HAVE bunk? We need bunks. For May 8-10. Call Wilkie, AD 8-6464 or AD 7-2044, Kappa Sigma.

FRATERNITY KITCHEN HELP. Call AD 7-2044 ask for Wilkie.

MISCELLANEOUS

STORE YOUR trunks, bikes, books, etc. Special summer storage to students. Pick up and delivery service. Call AD 8-6751.

INFORMATION WANTED for lead to possible ride from Ithaca to State College for Mother's Day weekend. Driver will be contacted in Ithaca. Call ext. 2419 days or AD 8-0958 evenings. Ask for Don.

INDEPENDENT COEDS — bring your family to the Mother's Day breakfast (sponsored by Leonides) 9:30 a.m. to 10:30 a.m. Sunday, May 10 in Simmons Lounge. Sign up with your representative or call Peg Orchard ext. 1144.

WILL KEEP children age 2-up in our home Mon.-Fri. References. AD 8-6914.

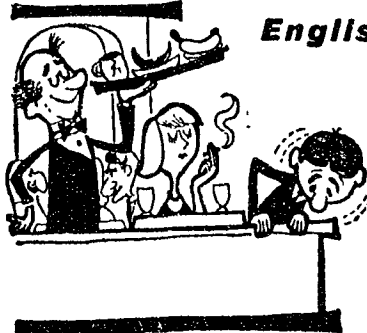
FLIGHTS TO Europe—July 15th to August 28th. Round trip—\$275.00. For information call: Barbara Knight ext. 1351-J.

NEWMAN CLUB'S annual Spring Picnic, Sunday, May 3, Black Moshannon Park. Cars leave behind Oamond 1 p.m.

TENNIS FANS—Expert racket stringing and repairs by Hassinger. Nine grades of nylon and gut. Prompt service. Guaranteed satisfaction. University Tennis Service, 514 E. Beaver Ave. Phone AD 7-2316.

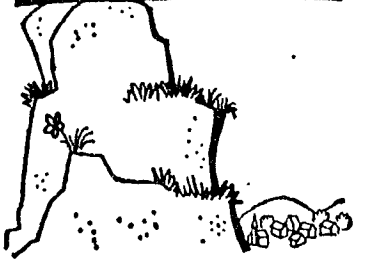
ENROLL NOW for ballroom dancing, tap, toe, or acrobatic lessons. Park Forest Village School of Dance. AD 8-1474.

THINKLISH



English: HILLTOP HASH HOUSE

Thinklish translation: This diner is perched on a mountain peak, which makes it a *crestaurant!* The view is tops—but from there on, things go downhill. A typical meal includes a puny melon (*scantaloupe*) and your choice of sandwiches (*shamburgers* or *rankfurters*). It's all served up, naturally, on 50-yr.-old dishes (*crackery*). Best course to take: light up a Lucky . . . enjoy the honest taste of fine tobacco. There's no tip at the end!



English: FEATHERED MUSICAL GROUP



Thinklish: STORKESTRA

ALLAN BISHOP, NORTHWESTERN U.

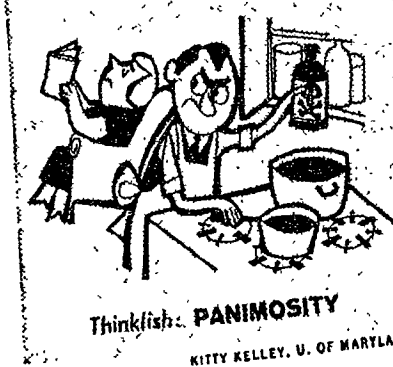


English: HAG'S TIMEPIECE

Thinklish: WITCHWATCH

DONALD MACPHERSON, N.Y.U.

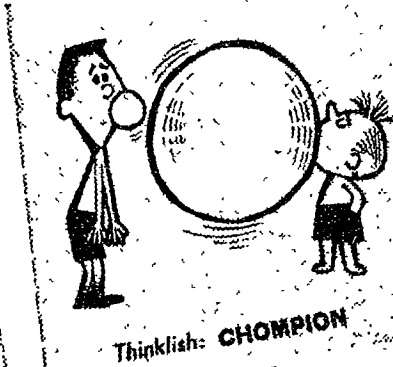
English: AVERSION TO COOKING



Thinklish: PANIMOSITY

KITTY KELLEY, U. OF MARYLAND

English: BUBBLE-GUM EXPERT



Thinklish: CHOMPION

ALBERT ALSCHULER, HARVARD

HOW TO MAKE \$25

Take a word—*amplifier*, for example. With it, you can make a wet microphone (*damplifier*), a torch singer's mike (*vamplifier*), a boxing-ring loudspeaker (*champlifier*) or a P.A. system in an army post (*camplifier*). That's Thinklish—and it's that easy! We're paying \$25 for the Thinklish words judged best—*your* check is itching to go! Send your words to Lucky Strike, Box 67A, Mt. Vernon, New York. Enclose your name, address, college or university and class.

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