

Research Review

Use of Rare Metals Examined

Rare earth metals of the Western Hemisphere and their role in the composition of heavy metals for space agency and industrial use are being investigated by the Department of Mineral Preparation.

Columbium, molybdenum and tungsten, plus their alloys, and chromium are being examined in laboratory scale tests under the supervision of H. B. Charnbury, head of the department.

"WE ARE SURVEYING a way

of taking ore as it is mined and putting it into a form that can be used by all heavy metal industries," Charnbury said. "The extent to which these metals may be used can be expanded if we discover a more economical way to prepare them," he added.

The project, supported by the Molybdenum Corp., which supplies metals from Canada, New Mexico and South America, is in its fifth year. Previous investigation has resulted in the preparation of a rare earth salt now being

used commercially by steel manufacturers.

MINED ORES are tested in the department's laboratory then sent to the Molybdenum Corp., where the alloys are tested on a large scale. Steel Manufacturers utilize alloy-strengthened steel in industry and recently in conjunction with U.S. space projects.

A project which aims to eliminate air pollution resulting from burning mine refuse is also being conducted by the Department of Mineral Preparation.

Walker to Moderate Discussion At Annual Engineers Council

President Eric A. Walker will moderate a panel on "The Goals of Engineering Education" at the 30th annual meeting of the Engineers Council for Professional Development.

The meeting will stress the need to stimulate increased engineering enrollments in colleges. It will be held Oct. 1 and 2 in Philadelphia.

OTHER MEMBERS of the panel which Walker will moderate include James L. McGraw, dean of the Technical Institute of the University of Dayton; George A.

Hawkins, dean of engineering and mathematical science, Purdue University; and Joseph M. Pettit, dean of the School of Engineering, Stanford University.

Featured speakers at the conference will be James H. J. Tate, Philadelphia mayor; Dr. I. S. Ravdin, vice president in charge of medical education at the University of Pennsylvania and cancer research specialist; and Abe Silverstein, director of space flight development for the National Aeronautics and Space Administration.

COLLEGIAN CLASSIFIEDS

FOR SALE
1955 BUICK—owner in Mediterranean. Good, safe car. Working parts in excellent condition. Will sacrifice for \$295. AD 8-9659.
1960 MGA, excellent condition. Call AD 7-7787.
MOTORCYCLE—1955 Harley "165" cc. (modified for scrambling) \$175 or highest offer. MUST SELL. AD 8-2826.
M.G.A. TWIN CAM—divisional champion of Northeastern United States in 1961. Undisputedly fastest M.G. in United States. Suitable for road or track. Contact Steve Duray, Room 215, Hotel State College.
BICYCLE, brand new man's Raleigh Sports with Dynahub generator, lights and horn. Worth \$79.50, selling for \$60. Call AD 7-4288.
1962 RENAULT Dauphin Delux. Condition guaranteed—8 months remaining on manufacturer's warranty. Priced to sell. AD 7-4412.
MOTOR SCOOTER—1961 All State Compact, practically new. Low mileage, spare tire. \$195 or best offer. Phone changed. Call Al AD 8-2504.
LOTS FOR SALE within 1/4 mile of University Dam. Call Standing Stone, NO 7-3426.

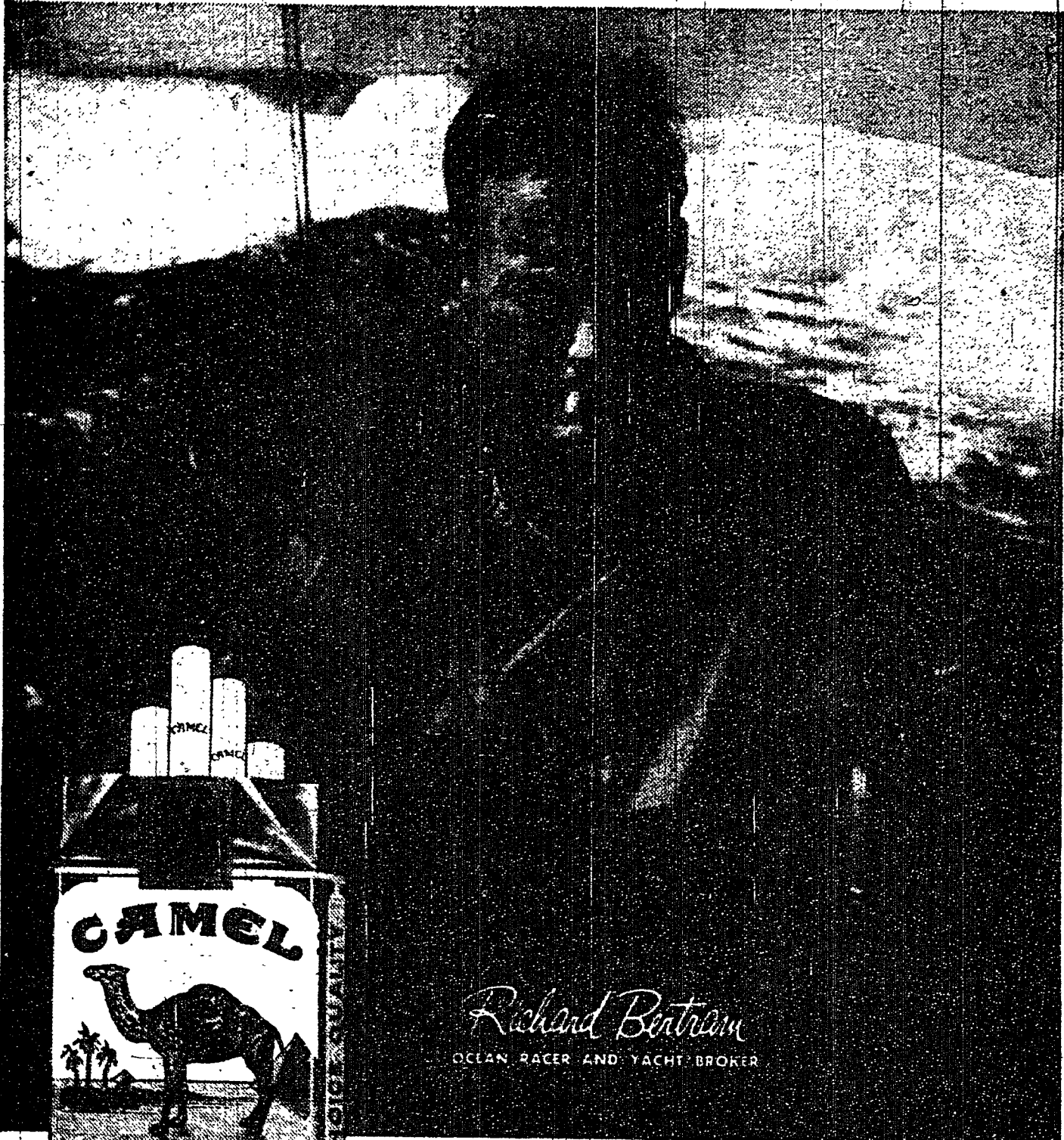
FOR SALE
MOTORBIKE, excellent condition. Legal for Freshmen. See it and price it. AD 8-6873.
TWO PENN STATE-AIR FORCE football tickets. Cheap. Call Marion UN 5-5882.
PHONO RECORD PLAYER. Excellent condition. Half price. Call AD 7-2111.
1953 STUDEBAKER Commander Coupe. Needs work but runs — \$50. Call AD 8-2206.
POCKET MAGNIFIER—14X—Bausch and Lomb; for Rocks and Minerals courses. AD 7-4203, Bob Dimock.
LIGHTWEIGHT AMERICAN BOY'S Bike, like new. Reasonable. Call Pete AD 8-2060.
TERRIFIC BUY! Girl's English Rudge Bicycle, excellent running condition. Originally \$65, asking \$30. Make offer. Call UN 5-8000 after 6, Gail Radcliffe.
DRESSERS, breakfast sets, beds, tables and sofas. Hoy's Used Furniture, Lemont. Open 6-9 p.m.
MOTORCYCLE for sale, 500 cc 4-speed A.J.S. No reasonable offer refused. Will accept bicycle as part payment. UN 8-5745; Bill.
TWO TICKETS for Air Force game CHEAP!! AD 7-7026.

FOR SALE
WEIMARANER PUPPIES (5) 8 wks. old A.K.C. registration. Reasonable. EL 5-9867.
FOR RENT
HAVE APARTMENT—Want roommate. 124 North Atherton St. Call Harvey, AD 8-9536.
DOUBLE ROOM and half a double room at Friends Student International House. Close to campus, cooking privileges. Phone in the P.M. to AD 8-4667.
WANTED
FIVE WAITERS wanted for meals six days a week. Call Al Harris AD 7-4444.
FRESH CUSTOM'S VIOLATORS by The Customs Board. Violator slips available at HUB desk, Waring lounge and Pollock dining hall.
ROOM WANTED desperately. Single or one-half of double. Non-smoker. Call Al, AD 7-2145.
WANTED: A DISHWASHER and a Waiter for Delta Sigma Phi.
MECHANICAL ENGINEERING Thermodynamics by Mooney. Call AD 8-3681 between 1 and 4 p.m.

WANTED
NEEDED: FOURTH MAN for apartment at 1000 E. Allen St. Call Steve Ferris AD 8-0210.
DORM CONTRACT must be sold for East Halls room. Contact Stan Selkowitz UN 8-3129 if you are interested.
CASH FOR Used Motorscooter. \$160 to \$125. Call UN 5-2204.
HELP WANTED
WAITERS AND Dishwashers wanted. Call caterer AD 8-9021.
ONE BOY to work in Boarding House; 8 meals each day except Sunday. Call AD 7-7247.
MAN WANTED—full or part-time. Experienced in cabinet work or fine woodwork, to do picture framing. Income adjusted to ability. AD 7-3442.
TWO WAITERS—work for meals. Call AD 8-4407 or AD 8-8962. Best food going.
E.E. STUDENT—part-time, repair work. AD 8-9602.
HELP WANTED for women. Fine immediate openings, part-time work \$1.65 per hour. Choose your own hours. Phone AD 8-1985.

WORK WANTED
DRUMMER, experienced, available immediately. Call AD 8-3362.
LOST
LOST: MAROON PURSE at Phi Kappa Tau. Jammy Saturday. Reward. Call Sam AD 7-4968.
LOST: TAN RAINCOAT Saturday night at S.A.E. Please call Irene UN 8-4892.
LOST: GOLD ORLOFF Wristwatch—vicinity of S. Allen. Reward. Call Shirley UN 5-8570.
LOST: TAN RAINCOAT in Osmond taken by mistake on Monday. I have yours. Call Elben, UN 8-8449.
LOST: ON Sat. night—raincoat, reversible, light blue denim with madras lining. Reward. Call Jackie UN 8-3330.
LOST: HORN-RIMMED Glasses in green case near Tyson on Monday. Call Reni, UN 5-4258.
LOST: BLACK RAINCOAT at S.A.E., Sat. night. Call Nancy UN 5-3564.
LOST: MAN'S GOLD wrist watch with black leather band in the vicinity of Boucke. Reward. Call UN 5-3044.
LOST: BROWN STRAW Purse. Please return to HUB desk. Papers important.

Have a real cigarette—have a CAMEL



Richard Bentham
OCEAN RACER AND YACHT BROKER

The best tobacco makes the best smoke!

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NOTICE
JAM SESSION on Sunday at KDB 6:30-7:30. Casualty fraternity men, and dates are invited. TKE and KDR.
MISCELLANEOUS
PIANOS TUNED, repaired. Dick Eshenbower. Call AD 8-2102, evenings.
FOR A BETTER PENN STATE. Enforce Customs.
SOCIAL CHAIRMEN: The COLLEGIANS are back on campus with a new and dynamic sound. Rock sessions or pledge formal. Limited bookings still available. Contact Jeff Brown AD 7-7833.
THE MUSIC MART—The Complete Music Store — Guitars and Guitar accessories, Sheet Music and a Complete Instrument Repair Service. Also Ukles, Banjos, and Mandolins.
BOOKSTORE at Lewisburg, 64 N. Front St. two blocks off Market. 17,000 critically selected volumes for your browsing pleasure. Used, Rare, Out-of-Print. Reasonable prices. Open daily and evenings.
LEARN FOLK GUITAR. Professional instruction in right-hand styles. Moderate prices. Call Neal AD 8-3119.
NOTICE IS hereby given that Campus Patrol, on The Pennsylvania State University is in possession of a number of bicycles found on or about the campus, owners unknown. Owners are invited to claim their bicycles at address below by furnishing proper identification. Bicycles not claimed will be considered abandoned and subject to sale at public auction. Signed: Campus Patrol, Spruce Cottage, University Park, Pennsylvania.
ALPHA PHI OMEGA, men's service fraternity, invites you to a Rushing Smoker on Oct. 1 at 7:30 in HUB dining rooms A and B.
SAXOPHONIST, double clarinet and piano, experienced in all types of music. Call UN 8-5740, ask for Steve. Available immediately.
SOCIAL CHAIRMEN: Watch out, here we go again! The-Catalinas are providing those "jammies" sounds for another year. Contact: Ed, UN 5-4837.
BACKGROUND GUITAR desires: combo work. Experienced. Can take lead, play all R&B, progressions and beats. Contact Bob Ruth, UN 5-5818.
ALPHA LAMBDA DELTA: Membership plus, certificates for Spring initiates available at 129 Grange. Hours: 8-12, 1-5.
NEWMAN CLUB of the Penn State Catholic Center—Fall picnic 1:30 Sun, Sept. 30, Holmes Foster Park. Games, food.
CATHOLIC CENTER—Pizza Party, Oct. 5, First Friday after 5:15 Mass, Chapel Lounge.
WHICH ARE YOU—a leader or a follower? If you're a leader, and are enrolled in Army ROTC as a freshman, sophomore, or junior, there's only one thing you can do to develop your skills. Come to the rushing smoker of the Association of the U.S. Army at 8 p.m., Monday, Oct. 1 in 205 Wagner. See a demonstration of Army weapons and equipment and enjoy refreshments later.
NEED EXERCISE? Come Rock Climbing with Outing Club this Sunday, 9:30 a.m., Rec Hall. FREE EATS!!
HIKE! HIKE! HIKE! Shingletown Gap by Route 845, Sunday, Leave Rec Hall 1 p.m. Sign up — HUB desk.
FLYING CLUB Meeting Monday, Oct. 1, 7:30 p.m., 215 HUB. All interested persons invited. Members: Dues will be collected.
PETE SEEGER—presented by Folk Lore Society on film, 8 p.m. Sunday, HUB Assembly Room; meeting follows.
NEWMAN CLUB of the Penn State Catholic Center—open business meeting and informal breakfast, Sunday, Oct. 7, 10:15 Chapel lounge.