

Rubber Research Aided War Effort

By SUSIE LINKROOM

During World War II, hundreds of U.S. Army trucks rolled on synthetic rubber developed in great part through research done at the University.

After the Japanese attack on Pearl Harbor in 1941, the United States was completely cut off from its supply of

crude rubber from Asia. Since a country is lost without mobility and transportation in time of war, the need for rubber was desperate.

Thus a committee was set up under the chairmanship of Edward Baruch to study the possibilities for making synthetic rubber. Dr. Merrill R. Fenske, research professor of chemistry and chemical engineering and director of the Petroleum Refining Laboratory at the University, was appointed to this committee.

Extensive study was made concerning the probable sources to be found in the United States. Even an obscure shrub, the guayule, found in New Mexico and Texas, was considered as a possibility for synthetic rubber.

Fenske and his staff at the Petroleum Refining Laboratory put in 290 man-months or 35,100 hours in their research and spent \$97,400. The end result of this tremendous amount of time and money was the development of separation processes which were used commercially in the synthetic rubber program.

The laboratory also produced some 20 different pure hydrocarbons needed for the synthetic rubber manufacturing processes. Many of these pure hydrocarbons were made available to industry and government war agencies.

The constituents of synthetic rubber are found in petroleum. Fenske and his staff received several awards for their conscientious service to the war effort.

Campbell Receives Appointment

Stanley H. Campbell, assistant to the director of general extension, has been appointed director of special projects in the office of A. E. Diem, vice president for business administration.

He will be responsible for the investigation and completion of



Stanley H. Campbell . . . receives appointment

projects and programs not directly administered by the business organization.

The appointment is effective immediately.

Campbell has been affiliated with the University since 1932, when he received his bachelor of arts degree in commerce and finance here.

He has worked with general extension since graduation, first as an accountant and later as a district representative in Harrisburg and Pittsburgh.

Sheep Barn Inhabitants

Playful Lambs Attract Visitors

By GRETCHEN HARRISON
Aren't they cute?" visitors remark to one another when they see the 135 lambs in the University Sheep Barns.

With lambing season soon at an end, sheep can be seen in every stage of growing up—from a few hours old to several weeks old.

All ewes and lambs are kept in the barn on Shortlidge road until they are put out to pasture in the spring. The pasture is on Farm No. 5 where the rest of the herd is kept the year around.

Only one set of triplets has been born this year. Twins, a common occurrence, has happened more often.

Like their cousins, the deer, lambs can get up and walk immediately after birth. However, Carroll Shaffner, head shepherd, feels it is best to put them in an

incubator for a few days. Each lamb is marked with a number corresponding to his mother's so that there are no mixups.

There are five different sheep varieties at the University, all distinguishable by their size and markings.

One variety, Hampshires, are black when they are born. But they are not outcasts all their lives like the story goes, because, eventually they lose their dark

coloring and become white.

Most of the sheep are raised for showing in fairs. Some are annually entered in the International Livestock Show in Chicago and many other national shows as well as those at the University.

The sheep are sheared twice a year, and students help as a part of an animal husbandry course.

Either a student or Schaffner is at the barn at all times and visitors are always welcome.

Kan. State--

(Continued from page six)
Tuesday night in a first-round game at New York.

Double-headers are scheduled Friday at each of the regional centers—Charlotte, N.C.; Evanston, Ill.; Lawrence, Kan., and San Francisco. Survivors clash Saturday, with the four winners qualifying to go to Louisville March 20-21 for the big showdown.

Here is the regional schedule: Easterns at Charlotte: West Virginia (26-4) vs. St. Joseph's (Pa.) (23-3); Boston U. (19-5) vs. Navy (17-5).

Mid-Eastern at Evanston: Louisville (17-10) vs. Kentucky (23-2); Marquette (23-4) vs. Michigan State (18-3).

Mid-Western at Lawrence: Texas Christian (19-5) vs. Cincinnati (23-3); DePaul (13-9) vs. Kansas State (24-1).

Far Western at San Francisco: St. Mary's (Calif.) (18-5) vs. New Mexico State-Idaho State winner; California (21-4) vs. Utah (21-5). Most of the regional fireworks appears to be concentrated in the midlands where four of the country's top-ranked teams are involved.

At Lawrence, Kansas State faces a possible clash with Cincinnati, the country's No. 5 team which is spearheaded by the unanimous All America choice, Oscar Robertson.

At Evanston, Adolph Rupp's Kentucky squad, barely beaten out for top honors by Kansas State, has as a potential Saturday foe Michigan State, No. 7. Kentucky and Michigan State drew first round byes.

University Lobby--

(Continued from page two)
ports from a state committee on higher education before he accepts or rejects the offer.

The University proposed to integrate the present 14 off-campus centers into a system of 2-year colleges.

"Year round operation of the University will cost more than the present nine months," Walker said but "not that much more." We will continue to use our expanded summer session program until at least 1961 and at that time we will take another look at the year-round program, he said.

University 12th in German Enrollment

The initial enrollment in German this past fall on the University Park campus and at the other campuses and centers puts Penn State in twelfth place among 613 institutions of higher learning offering the language.

This was shown in the annual compilation of "Modern Language Enrollment Figures for American Universities and Colleges," issued by Appleton-Century-Crofts.

While the increase in the University's total enrollment was relatively small, that in German was large. At all campuses and centers there were 833 students taking German in 1958, as compared with 590 in 1957, an increase of more than 41 per cent; and on the University Park campus, 682 in 1958, as compared with 512 in 1957 took the lan-

guage; an increase of more than 33 per cent.

This compares with a nationwide increase in German enrollment of 15 per cent, which accompanied an increase in overall degree-credit enrollment of 6.2 per cent.

According to the compilation, 23 colleges and universities have enrollments exceeding 600; thus Penn State occupies the middle position in this top echelon.

The top eleven are: University of California, 3568; University of Illinois, 1820; University of Michigan, 1517; University of Texas, 1362; New York University, 1124; University of Minnesota, 1113; City College of New York, 1095; Hunter College, 1023; University of Wisconsin, 1010; Columbia University, 982; and Indiana University, 869.

Among the eleven institutions below the University, with its

833 on six campuses, and above the 600-mark are: Harvard University and Radcliffe College, 726; University of Pennsylvania, 675; Ohio State University, 665; University of Washington, 618; and University of North Carolina, 613.

Still lower in German enrollments are Cornell University, 516; University of Pittsburgh, 515; Temple University, 354; and Michigan State University, 345.

Awaiting Your Arrival

Clean, comfortable and reasonable accommodations for male students, clubs, teams, administrators and groups in the heart of downtown New York, close to all transportation and nearby Empire State Building. All conveniences, cafeteria, coffee shop, tailor, laundry, barber shop, TV room, tours, etc. Booklet C. Rates. Single Rooms \$2.20-\$3.00, Double Rooms \$3.20-\$3.60.

WILLIAM SLOANE HOUSE Y.M.C.A.
356 West 34th St., New York, N. Y. OXford 5-5133 (nr. Penn Sta.)

Get WILDROOT CREAM-OIL Charlie!

J. PAUL SHEEDY, hair scientist, says: "Makes your hair look doggone handsome!"

*of 121 So. Harris Hill Rd., Williamsport, N. Y.

Just a little bit of Wildroot and... WOW!

+ CLASSIFIEDS +

FOR SALE	LOST
<p>EVENING DRESS, dusty rose schisli embroidered taffeta, size 10. Off shoulder neckline, bouffant skirt with poul at waistline. Worn only once. Phone ext. 122.</p> <p>GREYS: BEAUTIFUL MEMORIES for IFC Weekend. Individual portrait or house-party pictures. Anytime, any house during this Friday and Saturday. Write PSCPS, Box 437 State College for appointment. Free Photo Service.</p> <p>35' PALACE Ranch Home Trailer, 1956 model, excellent condition. AD 8-0448 between 5-7 p.m.</p> <p>U.S. AFROTC graduates Class A summer and winter uniforms, also summer Class B. Size 42. Call after 5-00 AD 8-1825.</p> <p>DRIVE HOME for Easter! 1949 Hudson six, excellent tires, new battery and muffler, just inspected—\$100. Matching trailer if desired. 230 Hartwick. AD 8-8637.</p> <p>ARMY OFFICER'S blue uniform, artillery stripes, 40L, cap size 7 1/4. Call AD 8-1617 evenings.</p> <p>3-SPEED CONSOLE phonograph. Will take best offer. Contact Theta Phi Alpha sorority ext. 935.</p> <p>U.S. AFROTC GRADUATES. Class A summer and winter uniforms also summer class B. Call after 5. AD 8-1825.</p> <p>1947 FORD four-door sedan. Current inspection. Price \$65. Call AD 8-8582.</p> <p>MOBILE HOME, 27 ft. American. Guaranteed excellent condition ideal for two. Ready for occupancy. \$500 down. AD 8-1229.</p> <p>TVs—COMPLETELY reconditioned, various sizes. \$49—\$59. Television Service Center at State College T.V., 232 South Allen.</p>	<p>1959 GOLD graduation ring with black stone and initial K on side. Call John ext. 3549.</p> <p>WANTED</p> <p>STUDENTS—EARN UP to \$1.50 per hour working two or three evenings of your choice, setting bowling pins. Downtown Dux Club, 124 South Pugh Street.</p> <p>ROOMMATE TO share 3-room apartment following Easter vacation. Call AD 8-0888.</p> <p>ANYONE WISHING to rent or sell a used tape recorder call ext. 3250 after 10 p.m., ask for Art.</p> <p>COMBO TO play at cabin party. No piano available. Call Kay ext. 439.</p> <p>RIDE TO Philly or vicinity Friday March 13. Leaving anytime after 3. Cal' Chuck ext. 289.</p> <p>BROTHERS: DON'T forget to take a color or black-white portrait with your lovely girl for IFC-Panellenic Hall. Friday 8-10:30 p.m. Waring Hall lobby PSCPS Free Photo Service.</p> <p>EXPERIENCED TYPIST with IBM typewriter desires typing of reports, stenils, or letters. Fast, reasonable service. Phone AD 8-6943 after 5:00.</p> <p>COLLEGE MEN—Last year college men in our department averaged \$75. per week. Due to conditions in our department this year, we expect even higher gains. Pleasant short hour arrangements allow plenty of time for studying. Car furnished, expenses paid. Call Clare Ross AD 7-4402 Mon. - Fri. after 11 p.m. Salary \$45 per week.</p>
FOR RENT	MISCELLANEOUS
<p>HALF OF double room with or without board. Close to campus. 243 South Pugh Street</p> <p>TWO BEDROOM Trailer; 46'x10'; washer and dryer. 1255 North Allen.</p> <p>MODERN FOUR-ROOM Apartment for rent in Centre Hall. Has own oil heating plant. \$60 per month. Write or phone R. M. Sessaman, 401 E. Walnut St., Lewisport. Phone 8-4433.</p> <p>DOUBLE AND half double room, central location, nice furnishings. Free parking. Call AD 7-2294 or AD 7-7906.</p>	<p>THESIS TERM PAPER assignments coming up? Rent a first class portable or standard typewriter now. Moderate weekly rental charge. Nittany Office Equipment, 231 South Allen Street. Phone AD 8-6125.</p> <p>STUDENT BOWLERS—Bowl for health and recreation. Open 6:30 to 12:00 p.m. Take bowling break. Downtown Dux Club, 128 South Pugh Street.</p> <p>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.</p> <p>MAIN CLUB meeting tonight. Everyone must attend. Elections. Vote for Finley. 7 p.m. HUB auditorium. P.S.O.C.</p> <p>TYPEWRITER REPAIR is our specialty. Give us your machine—we'll give you fast, expert repair and servicing. All work done in our State College Repair Shop. Nittany Office Equipment, 231 South Allen Street. Phone AD 8-6125.</p> <p>INTERESTED IN a '69 Pontiac, need convertible, or hard top? Call Tom Pavley AD 7-4903. Take Free test drive today!</p> <p>TYPEWRITER REPAIR is our specialty. Give us your machine—we'll give you fast expert repair and services. All work done in our State College repair shop. Nittany Office Equipment, 231 S. Allen St. Phone AD 8-6125.</p> <p>ENROLL NOW for ballroom dancing, tap, toe, or acrobatic lessons. Park Forest Village School of Dance. AD 8-1078</p>

1959

GRADUATE ENGINEERS

Here are the opportunities you have been seeking! Investigate our top salaries and excellent opportunities that prepare you for technical and administrative responsibilities.

Production Management Training
Equipment and Plant Maintenance
Research and Development
Quality Control
Power
Fuel Technology
Electrical Engineering (installation, testing, and maintenance)
Industrial Engineering
Roll Design

Become a member of our future management team. On March 23rd our representatives will be on your campus. Contact Mr. D. M. Cook of the Placement Service for an appointment.

INLAND STEEL COMPANY

East Chicago, Indiana