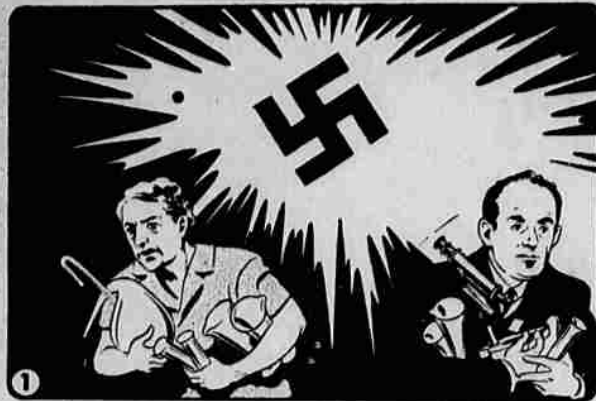




(1) Professor Enrico Fermi, a Nobel prize winner, left Fascist Italy to work at Columbia University. At Columbia, his discovery that slow neutrons are more effective in splitting atoms than fast neutrons proved an important step toward making the atomic bomb a reality. At a Berlin laboratory, Drs. Lise Meitner, Otto Hahn, F. Strassmann and O. Frisch, repeated Fermi's experiment and opened a direct route that led to the unleashing of the atom's enormous energy storehouse. Headless of the value of non-Aryan scientists in future defense of Germany, the Nazis exiled Dr. Meitner and Dr. Frisch.

(2) Concerned more with the importance of her work at the Berlin laboratory than expulsion from her homeland where she had made many valuable contributions to science, Dr. Meitner set about to calculate the full significance of the German scientists' work. Where previous scientists had failed to do more than knock small chips off the heart of the atom, they had split uranium almost in half. The products were barium, the common metal in barium sulphate which patients swallow when doctors X-ray stomachs, and krypton, a rare gas used in neon-type lights. She calculated that energy could be released by this means on the order of 200,000,000 electron volts, or 5,000,000 times greater than the burning of coal. American

scientists set at work at once to repeat the work which had been done originally in Germany. A great 75-ton cyclotron was available at Columbia where Dr. Fermi was working with Dr. George B. Pegram and other American scientists. The studies at Columbia revealed that when a uranium atom split in two, the amounts of energy suggested by Dr. Meitner actually were released. But the problem was a very complicated one and a number of questions needed to be answered.

(3) By all calculations, the scientists believed, atomic fission should start a chain of reactions that would blow up

uranium in a terrific explosion. But this did not happen. The results were anything but spectacular. Then Dr. Niels Bohr in Copenhagen and Dr. J. A. Wheeler at Princeton offered an explanation. They said a chain reaction might occur if the scientists used pure U-235, the form of uranium that Dr. Dempster at Chicago University had reported upon. Ordinary uranium contains U-234, a form of the metal 234 times heavier than hydrogen; U-235, which is 238 times heavier than hydrogen, and U-238, U-235 acts as a fuse to light the fire, but the fire is quenched by U-238 and U-234.

Tomorrow: Hunting for the rare U-235.



CHICAGO, Sept. 12 (UP)—The Chicago Bears returned to the practice field today to cure a severe case of butter fingers which led to their defeat last night by the Washington Redskins, 14 to 7, in a National football league exhibition game between 26,000 fans at Soldier field. An alert Redskin defense turned one of the Bears' fumbles into the game-winning touchdown while the other numerous bobbles merely gummed up the Bears' T-attack, once the most dangerous in football. Even the presence of Sid Luckman, football's No. 1 quarterback, failed to cure the Bears' sloppy ball handling as they made their 1945 debut.

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Complete Local Reports

Wednesday, September 12, 1945 Page 6

O'Neill's Move Gives Detroit Advantages

By CARL LUNDQUIST
NEW YORK, Sept. 12 (UP)—They'll be talking for a long time about the daring strategy of Detroit Manager Steve O'Neill in pitching Paul (Dizzy) Trout out of turn against the hard-hitting Red Sox, but because it worked the Tigers are a long way nearer the American league flag today. They beat the Red Sox, 5 to 0 on Trout's blistering two-hitter while the Senators were losing 2 to 1 to the White Sox. That left the Tigers with a two-game lead which actually is better than it looks because they have a four-game advantage in the important last column.

Chips Down
Moreover, they have a chance to increase their margin since the "Trout maneuver" gave the pitching staff added rest for four games in three days with the last place Athletics. Washington opposes the frequently tough Cleveland Indians in a set of three. O'Neill had at least three pitchers, staff ace Hal Newhouser, Tommy Bridges and Alton Benton who were more rested than Trout, but when he looked down the bench at Boston yesterday it was the "chips down" guy from Sandeud, Ind., who got the nod.

Cramer Homers
Trout, who must have been "dog-tired," responded with his fourth win and second shutout in eight days and because of the circumstances, the game must rank with the best pitched in the majors this season. He permitted singles to Skeeter Newsome in the third and Johnny Lazor in the seventh. Three others got on, two by walks and one on an error, but a double play stopped one and another was caught stealing. Newsome got to third on two infield outs before he was stranded. Roger Cramer supplied the necessary punch with a three run homer.

Senators Lose
Meanwhile, old John Niggeling was losing a heart-breaker at Washington. White Soxer Thornton Lee and Niggeling put on a brilliant pitching battle. Lee yielded the only run of the game

Commercial Fishing Season Opens Again

ASTORIA, Sept. 12 (UP)—Commercial fishing boats returned to the Columbia river today as the closed season for sports fishermen ended Monday and the fall commercial season opened. Fishermen said weather conditions were ideal on the river with muddy water building up hopes of gillnetters looking for salmon. The tuna outlook was still far from good.

So essential was the yew tree for making bow-staves that early English laws made the planting of these trees compulsory.

Beavers Stretch Lead by Taking San Diego, 2-1

By United States
The Oakland Aacorns, who apparently waited too long before making their stretch run in the Pacific Coast baseball league race, pulled another game out of the fire in their own park Tuesday night with an 8-7 victory over Los Angeles in the ninth inning.

Bunt Wins
Bolstered by the acquisition of such players as Charley Metro, Don Smith, Jay Difani and the return of Norm Dewese to the line-up, Manager Billy Raimond's boys began playing playoff caliber ball late in August when the third and fourth place teams held too great a margin.

The league-leading Portland Beavers gained a half game on idle Seattle, with a 10-inning, 2-1 victory over San Diego.

The Beavers scored the winning run when manager-player Marvin Owen squeezed in catcher Roy Younker with a perfect bunt. The first Portland run came on Ted Gullie's double following a single by Hank Souza in the fourth.

Los Angeles took a strong lead over Oakland in the fourth when outfielder Jim Tyack clouted a home run over the right field wall with the bases full.

Beats Seals
Oakland fought back until it knotted the count in the sixth at five-all but lost it in the Angels' half of the ninth. They regained it, however, when Dewese doubled to score Difani, who had singled and stolen second, and Metro, who had walked.

Hollywood forced big boy Joyce to hurl 15 innings before giving way and enabling him to post his 31st victory with a 5-4 triumph for the San Francisco Seals.

Union High School Has 123 Enrollment

UNION, Sept. 12 (Special)—Union high school opened Monday as scheduled with an enrollment of 123, which compares favorably with last year's enrollment of 115. There are many new faces in the school rooms this year among the pupils as well as the teachers. Mrs. L. Z. Terrill and Rev. O. A. Fortune are substitutes until the regular teachers for the English and the social science classes are able to come and take over their work. Superintendent Miedinger, who has been busy most of the summer making plans for this year's work, expresses himself as well pleased at the initial attendance for the term.

Baseball Standings
By United Press

NATIONAL LEAGUE			
	W.	L.	Pct.
Chicago	85	50	.630
St. Louis	83	53	.610
Brooklyn	75	60	.556
Pittsburgh	77	65	.542
New York	73	65	.529
Boston	59	78	.431
Cincinnati	55	81	.404
Philadelphia	49	97	.302

AMERICAN LEAGUE			
	W.	L.	Pct.
Detroit	80	57	.584
Washington	80	61	.568
New York	70	65	.519
St. Louis	71	66	.513
Cleveland	67	65	.508
Chicago	67	72	.482
Boston	66	73	.475
Philadelphia	47	89	.346

PACIFIC COAST			
	W.	L.	Pct.
Portland	105	65	.618
Seattle	98	71	.580
Sacramento	90	79	.532
San Francisco	90	80	.529
Oakland	83	86	.491
San Diego	77	93	.453
Los Angeles	70	99	.414
Hollywood	85	105	.382

Oregon State to Try New Plays

CORVALLIS, Sept. 12 (UP)—A new version of the optional running pass play and other new plays which are a change from those used in prewar years were introduced to the Oregon State football squad today by Coach Lon Stiner. Backfield Coach Bill Howard assisted in demonstrating the new plays to the Orangemen.

Arthur V. Grant of Culver became the first casualty of the season Tuesday when the armed forces claimed him. Grant received his call and left the Beaver grid camp Tuesday.

Beazley Pitches No Hitter, Wins

HONOLULU, Sept. 12 (UP)—Johnny Beazley, former pitcher for the St. Louis Cardinals, turned in a no-hit no-run performance for a 4 to 0 triumph in a Hawaii league game yesterday.

The army air forces captain and star of the 1942 world series turned in his perfect game for the civilian Braves against the Athletics in the league's annual post-season Cartwright series.

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