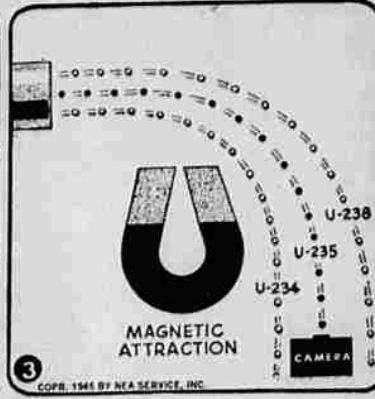
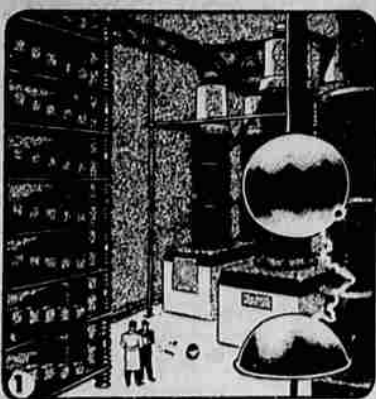




(1) The first artificially radioactive elements ever made were produced in Paris in 1934 by the daughter and son-in-law of Marie Curie, Irene Curie-Joliot and F. Joliot whose laboratory with its huge electrical equipment is shown above. To do this, they bombarded the elements boron, aluminum and magnesium with alpha particles, or the hearts of helium atoms. It is now known that radioactive forms of all the elements can be produced. Many of these already have become useful in medical and other forms of biological research. Radioactive sodium in table salt on a soda cracker, for example, can be followed in its course through the body, by the radiation it gives off.

(2) Neutrons, used in the atomic bomb, have proven to be some of the most useful of bullets to fire at atoms to blow them to bits. A stream of atomic bullets, fired from a cyclotron with a force of 40,000,000 electron volts, will cause a piece of steel in its path to vanish into vapor. The neutrons, made up of both positive and negative charges of electricity, goes straight to its mark because it is not pulled out of its course by any force in the outer shell of the atom. It was discovered by James Chadwick in England. The first neutrons obtained were knocked out of the atoms of beryllium, a close relative of aluminum, with alpha particles.

(3) With the discovery of the neutron, science had in its possession the first essential ingredient of the atomic bomb. The second essential ingredient, U-235, was discovered two years later by Arthur J. Dempster at the University of Chicago. It was found by Dempster's atomic microscope, or mass spectrograph. Uranium atoms were shot through an electric field, were deflected by the pull of a magnet and permitted to fall on a photographic plate. U-235 made a spot on the photograph. Ordinary uranium is a mixture of U-234, U-235, and U-238. The process of separating U-235 was like pulling iron buck shot of one size out of the air with a magnet when iron shot of different size was fired from a

gun. The iron shot would be attracted by the magnet; but each would be deflected according to its weight. Thus the U-235 would describe one curve, the U-234 and U-238 different curves.

(4) At the time of Dempster's discovery, Adolf Hitler was rallying the German people to world conquest. Not far from the resounding footsteps of the goose-stepping Nazis in Berlin before their Fuehrer, a group of scientists was quietly at work. They had put together the two ingredients of the atomic bomb—U-235 and neutrons—which might have brought victory to the Reich if events had gone differently.

Tomorrow: Scientists make headway.

SPORTS

Complete Local Reports

Tuesday, September 11, 1945

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Coast League in Final Stretch; Beavers in Lead

By United Press
Pacific Coast league baseball competitors swung into the final stretch of the season today as it was announced in four league cities final playoffs had been scheduled Sept. 25 at Seattle and Sept. 26 at Sacramento.

Tentative schedules for the playoffs call for games between the Seattle Rainiers and the Portland Beavers to begin in Seattle and finish in Portland over the weekend. The first three games between the Seals and the Seals will be played at Sacramento and three weekend contests to be held at San Francisco. If necessary, a seventh game will be played Oct. 1.

Games this week:
The Beavers, who have a 6½ game stranglehold on the top spot, play host to the sixth-place San Diego Padres. Runner-up Seattle plays the third place Solons at Seattle. Los Angeles, in seventh spot, invades Oakland and the San Francisco Seals travel south to play the cellarite Hollywood Stars.

Cavarretta's Word Brings Points to Holmes Bat Average

CHICAGO, Sept. 11 (UP)—Batting average of Tommy Holmes, Boston's second best hitter in the national league, was boosted today with the help of the man he's out to beat, Phil Cavarretta, Cub first baseman. Holmes was given credit for a base hit on a play made Sunday which had been credited to a Cub error. The correction was suggested yesterday by Cavarretta who pointed out Holmes had outrun the play before the error was made.

APPEAL DENIED
SALEM, Sept. 11 (UP)—Andrew W. Dennis, who was convicted in Multnomah county circuit court of murdering his mother-in-law, has been denied an appeal for rehearing by the state supreme court.

Billy Conn Hopes To Meet Louis in Bout in Summer

NEW YORK, Sept. 11 (UP)—Cpl. Billy Conn came home from Europe today for an army discharge and a title bout with heavyweight champion Sgt. Joe Louis and was greeted with a kiss and a hug from promoter Mike Jacobs when he stepped off the transport plane.

Jacobs, who took advantage of the occasion to reveal plans are about complete for a title bout between Conn and Louis, probably in New York next summer, made no secret of the fact he was delighted to see one of the principals in what may make the biggest fight gate in history.

The Pittsburgh corporal, wearing a combat jacket and carrying his overseas cap, arrived early this morning at Laguardia Field in a C-54 transport. He said he weighs about 190 pounds, about seven more than his fighting weight.

Eligible for a quick discharge because he has 91 service points accumulated in three and a half years in the army, 15 months of the time in the overseas service, he will report later today to Fort Totten, N. Y., for final assignment.

Army officials said Conn would be sent for mustering out to a separation center near his home in Pittsburgh.

Hand grenades were used extensively in the 15th and 16th centuries. Charles II used a company of grenadiers in 1680.

Granada

LAST TIME TONIGHT

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This girl... or a life of crime... hunted... hated... harried... that was the choice he had to make... that was the chance he had to take...

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LYNN KERRY, HENRY DANIELS

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THE CHICAGO KID

Washington Fumbles Chance to Get Lead

By CARL LUNDQUIST
NEW YORK, Sept. 11 (UP)—No major league team ever won the pennant by finishing in second place, a fact that is becoming all too realistic today to the Washington Senators, who have been trying for exactly three months without success to dislodge Detroit from the American league lead.

On June 11, the Tigers took over first place and they have been there since. Today they are on top by the bare margin of a game, but the fact remains they are the leaders and thus the best bet to win the pennant.

Dog Tired
Washington never had a better opportunity to close in than last night, but the Senators, dog-tired after weeks of doubling up on the schedule, couldn't make the grade.

The Tigers had divided a doubleheader at Boston and when the Senators won the first game with the Chicago White Sox, 10 to 4, they were within a half game of the lead. A second triumph would have put them into a virtual first place tie. For a time it looked as if they would get the job done.

Set Pace
Giving Marino Pieretti a 3 to 0 lead, they set the pace until the fourth but then Chicago, after six losing starts, teed off on Pieretti and Santiago Ulfirich for seven hits and six runs, 12 men batting during the inning. The Senators, who had a winning string of seven games, never had a chance thereafter.

On the encouraging side was Emil (Dutch) Leonard's performance in the first game when he pitched his first complete job in a month, showing no sign of shoulder trouble.

Yanks Win
Dave (Boo) Ferris, the Red Sox rookie star, sidetracked the Tigers 9 to 2 with a doubly-brilliant performance in which he gave up only eight hits and hit two doubles and a single, driving in two runs. The Tigers won the second game, 2 to 1, when Ed Mickiewicz, substiting for the injured Hank Greenberg, doubled home Rudy York with the winning run, giving Frank (Stubby) Overmire the victory in a pitching battle with Emmett O'Neill.

Charles Keller's bases-full homer and Ernie Bonham's five-hit pitching gave the Yankees a 5 to 1 victory over the Indians at New York and put them into third place. Nick Etten also got a Yankee homer.

Cut Lead
The Browns dropped to fourth by dividing a pair at Philadelphia. They won the opener, 3 to 2, on Vern Stephens' 21st homer, which gave Jack Kramer the decision over Russ Christopher. The A's took the second, 5 to 3, when Brown starter Newman Shirley weakened after two

innings. The Cardinals cut Chicago's lead to two and a half games in the National with a 2 to 1 victory over the Giants at St. Louis. Harry Brecheen won his 12th game, a six-hitter.

Rookie Ed Wright of the Braves shut out the Cubs, 2 to 0, at Chicago, handing them their third shutout in five games. The Braves bunched five of their nine hits in the first inning to score their runs.

Brooklyn won an abbreviated game at Cincinnati, 3 to 2, rain cutting it short in the eighth and causing postponement of the second game of a scheduled double bill. The Pirates won another rain-shortened game in seven innings, to move into fourth place, beating the Phillies at Pittsburgh, 9 to 5.

Baseball Standings
By United Press

AMERICAN LEAGUE

W. L. Pct.

Detroit 79 57 .581

Washington 80 60 .571

New York 70 65 .519

St. Louis 71 66 .518

Cleveland 67 65 .508

Chicago 66 72 .478

Boston 66 72 .478

Philadelphia 47 89 .346

NATIONAL LEAGUE

W. L. Pct.

Chicago 84 50 .627

St. Louis 82 53 .607

Brooklyn 74 59 .556

Pittsburgh 75 65 .536

New York 79 64 .553

Boston 59 77 .434

Cincinnati 54 80 .403

Philadelphia 42 95 .307

PACIFIC COAST

W. L. Pct.

Portland 104 65 .615

Seattle 98 71 .580

Sacramento 90 79 .532

San Francisco 89 80 .524

Oakland 82 86 .488

San Diego 77 92 .456

Los Angeles 70 98 .417

Hollywood 65 104 .385

Oregon State Has First Grid Session

CORVALLIS, Sept. 11 (UP)—Oregon State held its first football workout of the season yesterday with 65 men reporting to Coach Lon Stiner.

Reporting for scrimmage were seven new men. They included Hal Puddy, two year basketball letterman, Bill Briggs, Hood River, Ore., high school athlete, and Johnny Beharars, former ASTP player on the campus.

Major Attendance Sets New Records

NEW YORK, Sept. 11 (UP)—Major league baseball attendance, stimulated by close races and the end of the war, is near the 10½-million mark today—a million and a half more than total 1944 attendance—and two all-time park records already were set.

Including Sunday's games, the big leagues had played before approximately 19,375,631 paid admissions with 21 days of the season remaining.

Okinawa Campaign Cost 30 Ships Sunk, 233 Damaged

WASHINGTON, Sept. 11 (UP)—The navy disclosed today the Okinawa campaign cost the United States 30 warships sunk and 223 damaged. Twelve of the damaged ships were hit by our own gunfire.

Most of those sunk or crippled fell victim to Japanese suicide plane attacks. During the same period, the navy said, 3,836 Japanese planes were destroyed.

Despite its losses the navy said the fleet proved its staying power "as has been graphically illustrated to the nation in the navy film, 'The Fleet That Came to Stay.'"

Navy personnel losses in the Okinawa campaign were:
Fleet marine force, 2,573 killed and missing, 12,565 wounded; Pacific fleet, 4,907 killed and missing, 4,824 wounded; totals, 7,583 killed and missing and 17,489 wounded.

No units larger than destroyers were sunk, but damage was inflicted upon eight aircraft carriers, 10 battleships, two light carriers, three escort carriers, three heavy cruisers, two light cruisers and 67 destroyers. Among the ships to go down were 12 destroyers and lesser craft such as transports, minesweepers and one submarine chaser.

'The Clock' With Garland, Walker On Two More Days

Truly, every second of "The Clock" is a heartbeat. This new hit, at the Liberty theater today and Wednesday stars Judy Garland and Robert Walker, a brand new, grand new movie team.

"The Clock" is the tender, heart-warming story of the romance between Bob, a soldier in New York City for the first time, on a 48-hour pass, and Judy, as a lovely girl who takes the lonely serviceman to her heart.

Directed with genuine understanding by Vincente Minnelli, who made "Meet Me in St. Louis," and produced by Arthur Freed, "The Clock" is a success in any language.

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NEWS OF OUR MEN—WOMEN IN UNIFORM

Jim Yeske,
Chanute field track star, like any normal boy, was interested in athletics. Competing against other fellows in the neighborhood, he found that he could play ball better and run faster than the other fellows. But he never dreamed that he would be a javelin thrower.

During a Union county high school meet, La Grande school discovered it was minus a javelin thrower. So Yeske entered the event just for a lark, and to his surprise won it with a 159 foot heave. This started him off on a career as a competing lancer, and he won second place in the 1943 Eastern Oregon meet.

Through a similar accident he also became a hurdler. Short of high jumpers, Coach Sherwood, 1920 all-American, was attracted by Yeske's size. Patiently perfecting his stride and style, Sherwood had Yeske sufficiently polished to cop second in the high hurdles in the Oregon state meet.

Only 18 years old, Yeske was drafted out of East Oregon college after seven months. But he still had time to become captain of the basketball team. He plans to return after his discharge to major in physical education.

Clarence Edward Hays, carpenter's mate, first class, 1715 Spruce St., La Grande, is serving with an amphibious repair and training base which supplied troops and landing craft for major invasions in the Marshalls, the Gilberts and at Okinawa. Carrying a 24-hour, seven-day-week schedule, his unit maintained all types of landing and assault equipment and repair supplies. The base also trained personnel in amphibious communications, minesweeping and camouflage operations.

It will be some time before Okinawa will recognize itself — after the face-lifting given this battle scar of the Pacific by Edgar H. Kelley, shipfitter, first class, Seabees, 501 Fourth St., La Grande, Ore., and his naval construction battalion operating there. Two new hospitals rising from rice paddies and jungle undergrowth are the latest additions to the island by these Seabees. The modern buildings accommodate 600 men. The battalion is also credited with laying the first air strips and landing fields here. Arriving shortly after D-day landings the unit's first duty was to unload supplies and ammunition, but this work didn't last long enough for these veterans. In a matter of hours the battalion had laid a prefabricated bridge across an entire section of roadway.

First Lt. Ralph Badger left today after visiting since Sunday night with his parents, Mr. and Mrs. Ross Badger of Union. Lieutenant Badger is on a terminal leave prior to receiving a discharge from the army. He left La Grande with the national guard, has five stripes for overseas service, the Legion of Merit, the combat infantryman's badge, and ribbons for Pacific Asiatic and American defense. He served through the south Pacific campaigns, and will make his home at Sebo. Badger lived in La Grande before entering the service.

Clayton Case, BM 1/c, who transferred from the seagoing to the navy, has received a release from the navy at Bremerton. Case had to his credit 34 months overseas service, 18 months of it in the Aleutians and 16 months in Kwajalein. Case and his wife expect to be in La Grande soon, and will be guests at the home of his parents, Mr. and Mrs. E. F. Case.

Acorns Have Deal With Idaho Russets

OAKLAND, Calif., Sept. 11 (UP)—The Oakland Acorns have entered into a working agreement with the Idaho Falls Russets of the Pioneer league, it was announced today by General Manager Vic Bevincenzi.

The Oaks had sought to purchase the Idaho Falls franchise in the Class C league, but when only 50 percent of the stock was offered for sale, compromised on the working agreement whereby the Pacific Coast league club will furnish players.

The Pioneer league is expected to resume operation in 1946. It discontinued play at the end of the 1942 season after four years.

Endorsed by the EDITORS

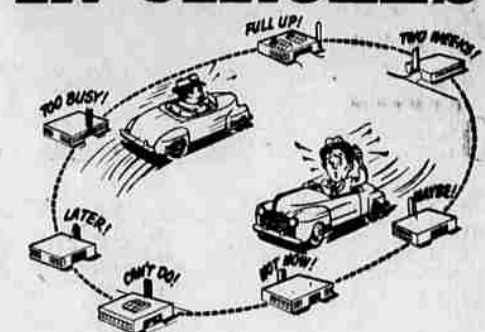
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September 19 and 20

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