

Beavers Take Pads To Stay In Second

The Portland Beavers defeated San Diego 6-2 Monday night in the first contest of a four-game Pacific Coast league series and capped the scoring with a three-run homer.

Jack Littrell belted his 12th home run of the season in the eighth inning when the Beavers were leading 3-2. The win left Portland in second place, one game behind league leading Sacramento.

Marty Kutyna pitched a four-hitter in recording his 10th win versus eight defeats. Padre starter Carl Thomas took the loss, his fourth in seven appearances.

Lined Scores
 Portland loaded the bases with no outs in the first inning on hits by Milt Graff, Clarence Moore and Dave Melton. Then Thomas hit Jim

New Theory Says Heavens Are Hot Rather Than Cold

Cambridge, Mass.—(Science Service)—The heavens are hot, not cold as has been supposed.

This theory is proposed by Prof. Thomas Gold of Harvard university here and Prof. Fred Hoyle of Cambridge university, England. Their idea of a "hot universe" complements the steady-state hypothesis for the origin of the universe, they suggested, with Hermann Bondi of London, several years ago. According to the steady-state theory, matter is being formed continually, and the universe has always looked and always will look as it does now.

The hot universe theory explains some puzzles, such as the origin of cosmic rays, and of galaxies and the bright radio "halo" that surrounds them. The two astronomers discuss their theory in the "Paris Symposium on Radio Astronomy," published by Stanford University Press.

Scattered Islands
 Galaxies are great scattered islands of millions of stars. The Milky Way in which the sun and its planets, including earth, are located is only one of millions of such giant groups of stars. Galaxies hurtle thousands of miles a second through space filled with a tenuous hydrogen gas. The hydrogen atoms of this gas in intergalactic space may have temperatures up to 100 million degrees, Prof. Hoyle and Gold suggest.

Their theory does not mean that an intergalactic space traveler who puts his arm out the window would be burned; his arm would freeze. This is because the hydrogen atoms, although they have an average temperature of 100 million degrees as measured by their speed, occur only one or two in each cubic yard of space. The concentration of heat is therefore close to zero.

Number of Tons
 Although one or two atoms per cubic yard seems small, the universe is so large that the number of tons of hydrogen gas in space is close to the figure 10 followed by 48 zeros.

The hot universe theory explains how galaxies may be formed from the hot hydrogen gas in space. Compared with the energetic hydrogen atoms in intergalactic space, the star galaxies themselves are cold. As they speed through space, the star galaxies leave a cold pocket in their wake. The hot gas condenses around this cold pocket on a scale of the "sands of light years, and a galaxy is born.

In time, nuclear reactions will produce other chemical elements from the hydrogen starting material.

Radio Halo
 The radio halo detected around galaxies is produced by radio waves emitted by the gas. Hot hydrogen gas surrounding a colder galaxy would have sufficient energy to produce the observed radio emission, Prof. Hoyle and Gold believe.

In trying to explain the origin of cosmic rays in the past, astronomers have tailored their theories to fit the main assumption that the universe between the galaxies is cold. Cosmic rays, therefore, couldn't arise in such energyless space, and the current view is that this radiation originates only within galaxies and is accelerated by magnetic fields.

However, certain very energetic cosmic rays cannot be explained by this theory since the magnetic field strengths of galaxies are not high enough. In the hot universe theory, cosmic rays could arise everywhere, and enough energy would exist in intergalactic regions for such energetic radiation to originate there.

Greengrass with a pitched ball to spare Graff. Moore raced home when Bob DiPietro hit into a double play. Thomas walked two men and Melton scored when Jim Westlake hit into a forced play.

San Diego's runs came on solo homers by Steve Jankowski in the fourth and Allen Jones in the seventh, both in the left field seats.

Phoenix Wins
 The Phoenix Giants defeated Spokane, 5-4, in the only other PCL game played. Sacramento at Vancouver, the only other game scheduled, was rained out.

Spokane's loss stretched the distance between seventh place and first place to 5½ games in the girde-tight PCL race.

Bill Wilson tripled and scored on a sacrifice fly in the 10th inning to give Phoenix its win. Toger McCardell and Benny Valenzuela clouted homers for the Giants and Joe Shipley got the win. Bobby Prescott of Phoenix doubled home Jay Van Noy in the ninth to put the game in overtime.

Lined Scores
 (10 innings)
 Phoenix 3 0 0 0 0 0 1 1 5 11 0
 Spokane 2 0 0 1 0 0 0 4 8 1
 Renoire, Shipley (7), Solis (10) and McCardell; Wade, Nicolosi (9), Merritt (8) and Sherry.

San Diego 0 0 0 0 1 0 0 2 4 0
 Portland 3 0 0 0 0 3 6 8 1
 Thomas, Wojey (8) and Jones; Kutyna and Neal.

Sacramento at Vancouver, postponed, rain.

Increases Noted In Three Diseases Throughout U.S.

Washington—(Science Service)—This country is now grappling with a substantial rise not only in the number of polio cases, but in three other communicable diseases as well.

Diphtheria, infections and serum hepatitis, and meningitis are occurring more frequently than last year, U.S. Public Health Service reports show.

For instance, the incidence of hepatitis has increased 50 per cent. This disease attacks the liver and can result in permanent damage to that organ. More than 12,000 cases have been reported so far this year as compared to 8,100 last year at this time.

The number of cases of diphtheria has risen 20 per cent above the 1958 total. Many of the reported cases of meningitis, inflammation of the membranes that envelop the brain and spinal cord, exhibited mild symptoms of the disease but not paralysis or permanent damage to the spinal cord. This helps account for the large number of cases reported.

Not Any Worse
 Despite these growing figures, one health official stated that this summer did not appear to be any worse than many of our previous summers.

Paralytic polio continues to fan out from the Des Moines area. Rate-wise, this city is now the biggest trouble spot in the country. California and Texas have both reported larger numbers of cases than Des Moines, however. Both states have reported between 70 and 80 cases each while the Iowa city has reported 45 since January, 1959.

The polio peak will not arrive for another six weeks, at least it never has before, one official said. This season's polio pattern plus last year's high incidence performance may be following the heavy polio trend of 1952, 1953, 1954—before Salk—when an unusually large number of paralytic polio cases were reported each of those years.

Constant prodding by the PHS plus weekly reports that polio was increasing prompted state and local health organizations to set up inoculation clinics, resulting in a demand for more Salk vaccine. Pharmaceutical companies will be able to produce only several million doses during July and August. It takes a dose of vaccine six months to travel from a beginning batch to an individual's arm. At present, only 4,000,000 doses are available.

New Drugs Used In Ailments Mentioned

Chicago—(Science Service)—Three comparatively new drugs that may be used in the treatment of circulatory ailments have been described here.

One is an anticoagulant, used to dissolve or prevent blood clots. The other two are antihypertensive drugs, for treating high blood pressure. The drugs were described in the Journal of the American Medical association.

SPORTS

Hydros To Qualify At Seattle

By ELDON BARRETT

Seattle—(UPI)—Bronco buster Bill Stead is expected to give the Maverick a rip-snorting ride today as he attempts to qualify the gold hydroplane for Sunday's Gold Cup Race.

Stead, a Nevada rancher, indicated he would try to better the qualifying mark he set in last summer's Gold Cup trials when he drove the Maverick one lap in 120.267 miles per hour and averaged three laps in 119.956 m.p.h.

The current Maverick, a near replica of the boat he drove last year, is owned by Bill Waggoner, a millionaire Phoenix cattleman.

Running Beautifully
 Maverick was on the course Monday humming like an electric razor as she zipped around in an exhibition with Wahoo, a Seattle hydro driven by Mira Slovak.

When Stead returned to the pits he said, "She's running beautifully."

There was a possibility that four or five other boats would attempt to avoid the last minute rush by qualifying today, depending on weather and motor engine temperament.

In this crowd were Kol-Roy, Wahoo and Miss Pay 'n Save of Seattle and Miss Spokane of Spokane.

To Qualify
 The unlimited hydroplanes must turn three laps of the tree-mile course on Lake Washington at an average of at least 90 miles an hour to qualify for Sunday's three-hour, 90-mile grind.

Other boats who must make qualifying runs before the starting gun sounds Sunday are Miss Thriftway and Thriftway, Too, Seattle; Hawaii Kai III, Bellevue, Wash.; Coral Reef, Tacoma; Miss U.S. I, Gale V and Gale VI, Detroit; Miss Tri-City, Pasco, Wash.; Breathless II, Lake Tahoe, and Nitrogen, Washington, D.C.

Californians Link Starters

Portland—(UPI)—A flock of Californians were added Monday to the starting field for the 57th Western Amateur Golf championships which open next Monday here at Waverley Country club.

Among the newest entrants was former Public Links champion Gene Andrews, Pacific Palisades, Calif. Andrews was a semi-finalist in this year's North and South championship.

Other Californians included Harry Craviotto of Carmel, Frank Hardison of LaCanada, Michael P. Korich of Roseville, Edward E. Lowery of San Francisco and Richard Hardison of Glendale.

Other new entries announced Monday included Pete Dye of Indianapolis, Ind., 1958 Indiana amateur champion and 1958 Western Amateur semi-finalist.

RV Senior Finalists Decided

Larry Butler and George Stacey will meet in the senior men's golf championship finals of Rogue Valley Country club.

Butler defeated Leland Clark in one semi-final and Stacey won from Bayard Getchell in the other.

Lloyd Pope won the first flight prize with a 1 up count over Bill Catey in finals. Jerry Cottingham defeated Al Dumas by the same score in the second flight finale. Morris Leonard also won 1 up over Ken Teeter for the third flight honors.

RVCC's Junior Meet Scheduled

Rogue Valley Country club junior club championship tournament will be held on Aug. 17 and 18.

It will consist of 36 holes of medal play with 18 holes each day.

Club members under the age of 18 years are eligible and all interested are asked to sign up at the pro shop.

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Varipapa Featured At Bowling Lanes During Open House

Expansion of Medford Bowling lanes to a 38-alley establishment will be marked here Wednesday by an open house, the appearance of nationally known bowler Andy Varipapa and matches among men's and women's teams of five communities.

Open house at the lanes, which has just placed 16 new alleys in use and has enlarged its lunch facility, will start at 10 a.m. and last through the day and evening.

Varipapa, hall of famer

and former national match game champ, will perform at 2 and 8 p.m. He will give an exhibition of bowling skills and trick shots and will give tips on the sport. In addition he will roll in matches against top Medford keggers.

In the evening team matches men's and women's teams of Yreka, Calif., Klamath Falls, Grants Pass and Ashland will compete.

The enlarged lunch accommodations, seating 68 persons, is to go into operation tonight or Wednesday. Expanded facilities include a nursery.

Largest In Northwest

With its 38 alleys, Medford lanes is the largest bowling establishment in Oregon and Washington. The other 22 alleys recently were refinished and all alleys have been in operation since last week.

Varipapa is appearing here through the cooperation of Fred Anderson, Medford lanes manager, and Brunswick-Balke-Collender Co., manufacturer of bowling equipment. The world famous trick shot artist is on the Brunswick advisory staff.

Bowling's little giant has set many scoring records in his career and is most proud of his second consecutive triumph, in 1947, in the All-Star tourney for national match game laurels. He is the only bowler in history to boast such an achievement.

Varipapa averaged 210.8 per game in the 1947 tourney.

The stellar kegger teamed with Lou Campi in 1948 for the national match game doubles title.

He is fifth among all participants in the All-Star average with 205.41.

Even the bowling experts admit that when it comes to trick shots, there is no one to challenge Varipapa. Possessor of a sharp-breaking hook and an unerring eye, Andy is able to make the most difficult shots, often with either hand.

COLTS CUT ROSTER

Westminster, Md.—(UPI)—The Baltimore Colts today placed rookies Tom Stevens, a half-back from Syracuse; Jim Murphy, a tackle from East Tennessee State, and Thurman Terry, another tackle from Rice, on waivers. Their departure reduced the Colts squad to 52, including two players who are working out with the College All-Stars.

Golf Final Reached By Sheldon

Jim Sheldon will play either Bob Phillips or Phil Mongrain for the men's golf championship of Rogue Valley Country club.

Phillips and Mongrain were to vie today in the semi-finals of the club title tourney. Sheldon advanced to the championship flight finals by defeating Dr. William Miller 2 and 1.

One flight of action has been completed with Dr. Abner Clark winning 4 and 2 over Dr. Russ Mayer in the fourth.

George Harrington, Phoenix, Ariz., former manager of RVCC, won the low gross prize in week end ball sweepstakes. He shot a 70. Tying for second were Dr. Robert Buck, Alan Holmes and Phil Mongrain with 72s.

Jim Lowman had low net score, 71-11-60. Next was Bud Judy with 80-12 - 68.

Clayton Lewis was third with 74-5-69. In a fourth place tie were Jay Brown 77-7-70, Joe Moore 82-12-70 and Curt Butterfield 88-18-70.

QUARTER-FINAL RESULTS:

First Flight
 Clayton Lewis def. Lee Flink; Owen Thomas def. Dr. Bob Bayuk; Ivan Harrington def. Bayard Getchell; E. W. Peterson def. Deane Lambert.

Second Flight
 John Jensen def. Ed Milne 3 and 2; Dr. N. J. Wilson def. Tom Hamlin 1 up; Nelson Gallant def. Jack Edwards 7 and 5; Joe Moore def. Jim Quincy 6 and 4.

Third Flight
 Bob Wells def. Frank Allen 3 and 2; Clark Mears def. Virgil Swanson, 19 holes; Paul Haviland def. Paul Moore 5 and 4; Tom Van Etten def. Dick House 19 holes.

Fourth Flight
 Harry Withrow def. Ed Radzweit and 3; Dr. Abner Clark def. Duane Lubbers 1 up; Dr. Russ Mayer def. Bob Benson 2 up; Darrell Miller def. Dr. Robert DeLorme 2 up.

Fifth Flight
 Dick Hogan def. Warren Bayliss; Curt Butterfield def. Harry Barker 3 and 2; Floyd Baker def. Jack Dumas 6 and 5; Bob Lockwood def. Jim Dunlevy 1 up.

SEMI-FINAL RESULTS:

Third Flight
 Mears def. Wells 2 up; Van Etten def. Haviland 5 and 4.

Fourth Flight
 A. Clark def. Withrow; Mayer def. D. Miller 1 up.

Some Wonder Drugs Cause Bad Effects

Washington—(Science Service)—Some "wonder" drugs may cause permanent harmful effects long after patients have stopped taking them.

A study of the after-effects of some drugs on rats resulted in a plea to drug companies by a psychobiologist. He urges that drug companies test the long-range effects of drugs upon animals and their possible connection with humans.

To his knowledge, drug companies test the side-effects of drugs at the time of their use, but do not test the effects of drugs when they are no longer needed. Dr. Curt P. Richter told Science Service.

Dr. Richter of the Henry Phipps Psychiatric Clinic at Johns Hopkins hospital, Baltimore, reported the results of his rat experiments in the current Proceedings of the National Academy of Sciences.

Servicemen

SERVING ABOARD

Richard T. Rosemus, seaman, U.S. Navy, son of Thomas Rosemus, 5179 Crater Lake highway, Medford, is serving aboard the attack aircraft carrier USS Essex. During operations off the East coast the 90,000th aircraft landing was made on the decks.

The Essex is scheduled to join the U.S. Sixth Fleet in the Mediterranean late this summer.



PGA CHAMP—Bob Roseburg of Palo Alto, Calif., and his son Paul, hold on to the PGA cup which was presented to Roseburg after he won the PGA Golf Tourney at Minneapolis, with a three under par 277.

Hillsboro Nine Will Be First Tourney Rival of Dairy Maids

Rogue Valley Dairy Maids will oppose Hillsboro in their first game in the women's state tournament of the Oregon State Softball association.

The tournament is, set for

Plastic Tubing Helps in Hearing

Washington—(Science Service)—Plastic tubing and skin grafts are restoring hearing to the deaf suffering conduction disorders.

The plastic tubes can be used safely in the middle ear as a functioning part of the conduction apparatus. And most ear drum punctures can be closed with grafts of outside skin.

Such measures are not effective where there is nerve involvement.

The surgical techniques were described in Medical Annals of the District of Columbia here by Dr. G. W. Taylor of the U. S. Naval hospital, Bethesda, Md.

Pros Shoot 66's To Tie for Lead

Salem—(UPI)—Two professionals, Chuck Congdon of Tacoma, Wash., and Eddie Hogan of Portland, tied for the lead Monday with sizzling four-under-par 66's in the first round

Ron Caperna, Medford, shot a 36-36-72 in the first round of the Northwest Open tourney.

Jim Sheldon, Medford, shot a 38-38-74.

of the Pacific Northwest Open golf tournament here.

Hogan carded a 32 in the morning and a 34 over the back nine. Congdon shot 33 both times.

Tied for second place with 67's were Al Feldman, the 1957 champion from Tacoma, Wash.; Jim Shriver of Spokane, Wash., and Seattle's Lon Bies, all pros.

Four golfers were knotted at third with 68's. They were pros Tom Marlowe of Portland; Harold West of Longview, Wash.; Jim Russell of Walla Walla, Wash., and Cliff Whittle of Twin Falls, Idaho.

The 72-hole tourney climaxes with the 36-hole final round Wednesday.

MAIL TRIBUNE, Medford, Or.
 Tuesday, August 4, 1959

Basic Structure of Polio Virus Found

London—(Science Service)—The basic structure of the polio virus has been determined by two British scientists here.

The spherical virus is a cluster of 60 identical units of protein, arranged rather like the seeds of a raspberry, around a central core, Dr. A. Klug and J. T. Finch of London University report.

The polio virus is the first animal virus to be identified in detail. The anatomy of only two other spherical viruses—both affecting plants—has been studied in comparable detail.

The scientists were able to identify the raspberry structure by means of X-ray photographs. Within the structure lies a core, composed of nucleic acid. This is the portion of the virus which transmits infection. The 60 protein units act as a protective shield for the acid, the men explained.

Total U.S. capital now invested in Cuba is about \$825 million.

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