

Exhibition Plans For Kiwanis Fair Announced Today

Exhibit plans for the 1959 Kiwanis Centennial fair to be held Aug. 20 through 23 have been announced by Larry Horton, coordinator for the exhibition section.

Four departments will be available for exhibitors, but applications must be received by Aug. 15 from those intending to enter. All rules and regulations governing the Oregon State fair will apply, Horton added. Entries will be taken to the Medford armory Thursday, Aug. 20 between 9 a.m. and noon.

First through fifth place ribbons will be awarded in each class and all other entries will receive a "county fair participation ribbon."

Department divisions include food, bread and rolls, cakes, pies, and food preservation; textile, baby goods, bedroom linens, handweaving, knitted clothing, rugs and sewing; floral arrangements, amateur and professional arrangements; and land products, tree fruits, vegetables and melons and squash.

Medford Men Are Department Officers

Two Medford men were among the officers appointed to state duties at the 38th annual convention of the Disabled American Veterans held in Salem last week.

Pat Graham, past department commander, was appointed publicity and public relations director and Edward Branchfield, Medford attorney, was appointed judge advocate.

The appointments were made by Dan E. Cole, Springfield, newly elected department commander.

Other officers elected were James Ollilla, Clatskanie, senior vice commander; William M. Moyer, Portland, junior vice commander; Frank Barnes, Portland, chaplain; and Arch L. Brewster, Salem, treasurer. Also appointed was Thomas F. Van Lanningham, Portland, adjutant.

Bend was chosen as the 1960 convention site.

Nickel has been used for coins since 1861 when Switzerland adopted the metal as a money base. Today 34 countries use nickel for coins in 90 denomination values.

Apples give off an ethylene gas strong enough to wilt cut flowers.

World's Largest Telescope Photographs Celestial Bodies Billion Light Years Away

(Editor's note: The following dispatch is condensed from The Beehive, quarterly publication of the United Aircraft Corp.)

By JOHN H. MARTIN
(Distributed by UPI)

Wilson, Calif. (UPI) — It was 6:15 p.m. Pacific time on Palomar Mountain in Southern California. Dr. Horace W. Babcock was about to participate in a nightly miracle denied to most people. He was going to peer far back into time. He would do this with the "Big Eye," the 200-inch Hale telescope.

This marvelous creation, the largest telescope in the world, can photograph celestial bodies in still nameless star systems more than a billion light years — or 6,000,000,000,000,000,000 (six billion trillion) miles — away. It can get spectra patterns two billion light years away. In its range lie answers to some of the most basic questions: When and how was our universe born? What is happening to it now? What is its future?

Hope for Answers

The Palomar astronomers under Dr. Ira S. Bowen, the director, and Dr. Babcock, the assistant director, hope within five years to come up with some of these answers. These men, who work at the Mount Wilson and Palomar Observatories, which are operated jointly by the California Institute of Technology and the Carnegie Institution of Washington, have set themselves an enormous task — to get some idea of the observable universe — of which our earth is a mere spinning speck in a time and space staggering to the imagination. They also hope to learn how much matter is contained in the universe, and whether it is expanding at a slower rate today than in the past. And they will attempt to look far back in time, perhaps several billion years, and observe how the universe behaved when it was very young.

Appears Possible

Dr. Bowen said: "Achieving these objectives, which will mark the culmination of more than 35 years' work, now appears to be possible because of the greater accuracy being developed in the yardsticks that measure the enormous distances in space."

The astronomers do not live permanently on their mountain-tops at Wilson, just north of Pasadena, or Palomar, which is 130 miles to the southeast. Dr. Babcock is one of a 15-man team which has a rotating schedule of work with the "Big Eye." Each man spends three to six nights on Palomar, depending on the type of his assignment.

Dr. Babcock, a wiry, dark-haired man, had driven down to Palomar in his station wagon from his Pasadena home. He checked into the "Monastery," the dormitory where the astronomers eat, sleep, study, and relax, in one of the dozen buildings that dot Palomar's peak. The Hale telescope is in a Pantheon-like structure about the height of a 12-story building.

All day the dome of this structure remains tightly closed to insulate the sensitive apparatus against the sun's heat and the weather. When the sun sinks, the roof shutters are rolled back to expose the vast upturned frame work of the 60-foot tube. A bank of electric fans cools the 14.5-ton slab of flawless mirror to the same level as the outside temperature. Now the telescope is ready to peer into space.

Palomar is 2,300 miles north of the Equator, but from its elevation the 200-inch mirror can sweep over three-fourths of the sky. Only the sky above the Antarctic zone is beyond its gaze.

At 6:30 p.m. Dr. Babcock was ready. The stars were waiting in a dazzling array. An assistant flicking switches on an instrument panel on the observing floor set the stage.

Dr. Babcock, who has been seeking answers in the stars for 13 years, walked up a few steps and entered the narrow, cold telescope room. Adjustment of the telescope for the astronomer to find a star he wants to photograph is a delicate operation. It has been compared to aiming a rifle at

and hitting, a rolling penny 20 miles away.

Time Exposures Taken

The astronomer found his stars this night, two identified as HD 32633 and 53 Cam, and began taking time exposures, some lasting as long as four hours.

"I am studying particularly the magnetic fields of stars," Dr. Babcock explained. "The magnetic fields of these stars,

and hitting, a rolling penny 20 miles away.

4-H Club News

Pig Club

The Central Point Pig club held their monthly meeting at the Central Point gymnasium on June 22. Judy Frink gave a report on the potluck dinner.

The prefair will be July 25 at the Jackson county fairgrounds.

The club has a new member. The next meeting will be July 27 at the gym.

The club had a tour on June 27 of each member's place to look at their project.

Judy Frink, Reporter

HD 32633 and 53 Cam, for instance, are 5,000 times stronger than on earth. Magnetic fields of stars are never stationary. They move. So, periodically we photograph certain stars and then study any changes."

Probably the most notable contribution of the Palomar telescope in its first ten years was to give a more realistic concept of the size and age of the universe. This has resulted in several upward revisions in the universe's age in the past six years.

"The latest estimate ranges from seven to thirteen billion years for the age of the universe," said Dr. Allan R. Sandage, of the observatories' staff. "The large variation is due to uncertainties that still exist in the measurements. However, the figures are significant because for the first time they are consistent with the age set by geologists based on the decay of radioactive elements in rocks and meteorites."

Speed Found Slowing

Linked with the size and

age of the universe is its apparently expanding state. A widely held theory among astronomers is that the known universe was born in a cataclysmic explosion that hurled gigantic fragments which have evolved into galaxies and have been rushing away from each other ever since. Study of these unbelievable speeds has been done with the spectroscope, which has been seeing these galaxies as they were a billion years ago. Recently, the men on Palomar-Dr. Babcock among them—have found indications that this speed is slowing.

Astronomy is an unlimited yet limited science, Dr. Babcock explained. "We try to avoid speculation," he said. "We concentrate on exact measurements and try to contribute to exact knowledge." Yet astronomy overlaps other fields, especially that of the "celestial mechanics," the space scientists who plan a landing on the moon.

"Naturally," he said, "we are interested in what the un-manned or manned expedi-

tions can discover up above the atmosphere, which so handicaps our work."

Manned space flights face enormous difficulties, but the Soviet Lunik and the American Pioneer IV instrumented rockets have been added to the solar system as artificial planets. And a spaceship with a human crew could bring back even more information to the astronomers.

Dr. Babcock conceded that life may be found in our solar system, although not as we know it on earth. "And there is a probability," he said, "that there is life on hypothetical planets which we cannot see. We cannot tell since we cannot see planets far outside our solar system. . . ."

"Remarkable strides have been made in astronomy,"

said Dr. Babcock, "but in a n't even scratched the edge of sense you might say we have time."

Lucas & Howard

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That Our Employees May Enjoy a 2-Day
4th of July Holiday

Have a Happy 4th

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Umatilla Court Investigation Due

Pendleton—(UPI)—The Umatilla county district attorney's office has announced that it would conduct an investigation of the Umatilla county court's entire operations.

District Attorney Richard J. Courson said he would gather facts on charges made by individuals and the Umatilla County Good Government League claiming the county court has misused its powers.

Courson said the matter probably would be given to the mid-July Umatilla county grand jury. He also said the Oregon state police were being asked to assist if needed.

The Umatilla county court had requested the district attorney's office to present the facts to the grand jury, saying it "had nothing to hide."

Medford Students Make Honor Roll

Melva Gebhard, 1519 North Riverside ave., and Mrs. Viola Russell Harrison, formerly of Medford, were recently named to the spring honor roll of 79 students at Lewis and Clark college. To qualify a student must achieve a 3.5 grade point average or better while carrying a study load of at least 15 hours.

Miss Gebhard, a junior history major, was one of 24 students to achieve a straight A. She is the daughter of Mr. and Mrs. Allen Gebhard. Mrs. Harrison is a spring graduate and the daughter of Mr. and Mrs. John Russell, 204 North Ivy st.

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