

PWA CHIEF GIVEN LENGTHY LIST OF LOCAL PROJECTS

(Continued from page one.)

The attitude of the railroad toward such a project was not learned. The tunnel project was submitted by the Jackson County Chamber of Commerce, which organization also submitted a plan for a chrome survey for southwestern Oregon with the view of establishing a central beneficiating plant and chemical works at some point along the railroad. The estimated cost for the survey is given at \$25,000.

Acting as spokesman for the chamber was Albert Burch, prominent mining engineer, who also acted in the same capacity for various other committees in the county, among whom were the city and county schools, the Medford and Talent irrigation districts, the Medford public library, Jackson county, the cities of Medford, Eagle Point, and Central Point, the Medford water commission, and others.

Those included are only the ones that reported their plans to the Jackson county chamber of commerce, but several reported directly to Hockley. The chamber attempted to get in touch with every organization in the county, but some may have been missed, or unrecorder, due to the short notice given, according to Chamber Secretary A. H. Benwell.

Must Hurry Proposals Any person or group of persons still having plans not submitted are asked to get in touch with the state PWA office immediately, Hockley announced.

Various projects submitted for discussion, with estimated costs, are given: Medford schools: Athletic field at senior high school, estimated cost \$10,000. Would include football field, grandstand, and bleachers, drainage, fence, track, tennis court, baseball field, and lighting.

Medford public library. Addition to present building, \$50,000. Repairs to building, \$10,000. Repairs to eight branches in county, including those located at Butte Falls, Central Point, Eagle Point, Gold Hill, Phoenix, Rogue River, Talent, and Jacksonville, at a cost of \$10,000. Repairs to present book stock, \$2,000.

Medford irrigation district: Dam at Butte creek which would store approximately 15,000 acre feet, would guarantee Medford and Rogue River districts against water shortage, and would provide water for an additional 2,000 acres, at a cost of \$400,000.

Talent irrigation district: Dam on Bear creek, and 13 miles of canal. The dam to store approximately 20,000 acre feet, guarantee the Talent district against water shortage, and provide water for additional acreage, \$378,000.

Central Point: Sewage disposal plant, necessitated by the fact that present sewage disposal is made by dumping into Bear creek. Estimated cost between \$15,000 and \$25,000.

Would Replace Pavine. Medford: Replacing of old paving with new non-skid asphaltic surface, \$62,771. Extend and enlarge two storm sewer trunks, which are now overloaded, \$44,503. Construct modern incinerator and clean up present garbage grounds, located in close proximity to improved residential area, \$50,000. Replacing antiquated street lighting on Main street, and installing new lighting on Central and Riverside avenues, \$23,400. Installing drainage for widening and extending main and cross runways at city airport, providing four warm-up aprons, leveling of 35 additional acres, and improving lighting system to conform with proposed improvements, \$92,369.

Widening, deepening and rip-rapping banks for 7000 feet along Bear creek channel for flood control in city \$175,000. Developing with roads, camp grounds, lookout towers, camping facilities at Prescott Memorial park on Rocky Ann, and beautification of Bear creek park way, \$184,000. Replacing Jackson street bridge with modern concrete structure, and moving present steel bridge from Jackson street to McAndrews street, \$65,000. Construction of modern swimming tank (community), \$15,000.

Construction modern auditorium center, \$100,000. This brings the total of all the plans to an estimated \$792,634.70, any part of which is a separate and distinct plan.

Jackson county: 50 miles road surfacing and oiling, \$250,000. Elimination of two grade crossings west of town of Rogue River, \$8000. New bridge, McAndrews road, \$10,000. New bridge over Bear creek on Bend Indian-Ashland road, \$15,000. Removal gravel bar above Bybee bridge on Rogue river, \$15,000. Total of all plans, \$298,000.

Reservoir Proposed. Medford Water commission: 10,000,000 gallon concrete circular reservoir, for reserve supply, \$100,000. Replacing of 10-inch wood pipe with 10-inch cast iron pipe on Bear Creek crossing, \$4000. Construction 8-inch cast iron pipe line on McAndrews road between N. Central and Court street to provide greater fire protection in mill district, \$3000. Replacing of 10-inch wood pipe with cast iron on cross-town main, \$13,500. Construction 100,000 gallon standpipe and pumping plant in service area above gravity system, \$25,000. All of these plans would total \$143,505.

Eagle Point: Water system. Estimated cost \$12,000, but considerably less if arrangement could be made to link with Medford system.

County schools: Repairing of present buildings, repairing of present buildings, or construction of new school buildings at the following places: New buildings—Eagle Point, Antelope, Climax, North Phoenix, Prout, Sterling, Brownsboro, Pankey, Reese Creek, North Trail, Little Appleton, Fern Valley. Buildings requiring repair—Jacksonville, Griffin Creek, Ruth, Central Point, Lone Pine, Antloch, Lake Creek, Rogue River, Lost Creek, Applegate, Gold Hill, Elk Creek, Butte Falls, Tofo, Howard. No estimate of the cost was given at the meeting today.

Big Dipper Going Dippy From Pull As Forces Twist Handle Into Cup

By E. H. TIPTON PASADENA, Calif. (AP)—The Big Dipper is being bent out of shape, like haywire.

The forces of the universe which keep stars in motion are turning the lip of the dipper down. Within a few thousand years, this lip no longer will point to the North Star.

A similar movement of stars also is bending down part of the handle. Within 200,000 years, astronomers estimate, the cup of the dipper will become the handle, the present handle the cup, and the whole will appear upside down.

Mizar Is Two Stars Astronomers at the Carnegie Institute's Mount Wilson observatory have been interested in a single star of the dipper, Mizar (or Zeta), the second from the end of the handle.

It is a "binary" or double star—two stars so close together that they appear as one to the naked eye. They almost eclipse each other in 21 day periods of revolution about a common point, so the light from them slowly dims and brightens. Mizar was one of the first double stars measured by Dr. Francis Pease, using a 20 foot interferometer attached to the giant 100 inch telescope.

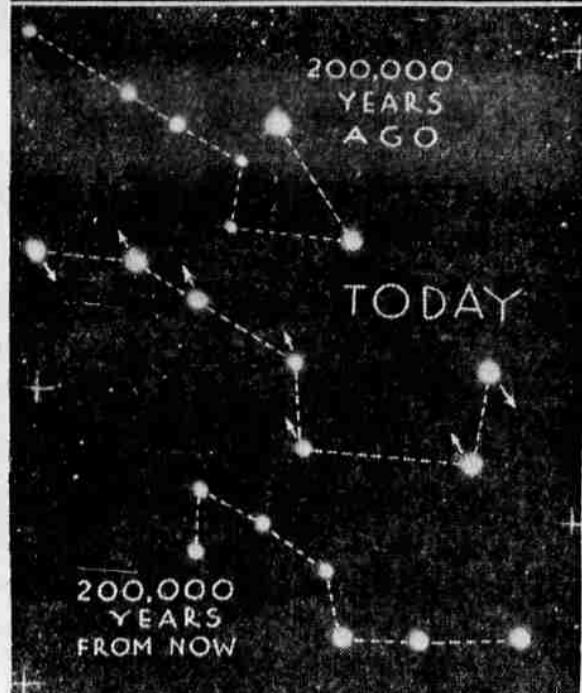
But Dr. Frederick C. Leonard, astronomer of the University of California at Los Angeles, has made a study of the change taking place in the dipper, as illustrated above.

"A most interesting fact about the stars of the Great Dipper is that five of them, beta, gamma, delta, epsilon and zeta, are moving across the face of the sky at approximately the same angular rate and in a direction nearly parallel to that from beta to delta," Dr. Leonard said, "while alpha and zeta are moving in roughly the opposite direction with comparable angular speeds."

Not Always A Dipper "Because of this difference in direction of motion, the stars have not always formed a dipper. Five of the stars are members of a moving cluster, the so-called Ursa Major group, which includes also Sirius, the brightest star in the entire heavens. These stars are approaching the solar system with speeds ranging from about 5 miles a second, in the case of epsilon, to 10 miles a second in the case of delta and zeta."

Astronomers say all the stars of the Big Dipper are brighter than the sun, alpha and zeta being 40 times as brilliant. They appear less bright because of their distance.

Light from the sun reaches the earth in eight minutes. Light from the giant stars of the Big Dipper requires from 50 to 100 years to reach the earth, some of the stars being far more distant than others.



Like the old oaken bucket that hung in the well, the Big Dipper is becoming worn and battered after countless centuries of hanging in the northern sky. The upper diagram shows how it looked to an early Neanderthal. Today, its outline probably more closely than ever before represents a dipper, as the center diagram shows. Though you need not sit up nights trying to verify it, the lower diagram is the astronomer's conception of how it will look in the dim, distant future.

BANDITS DESERT WOMEN IN FLIGHT



When Alvin Karpis and Harry Campbell shot their way out of a police trap in Atlantic City, N. J., they left behind Winona Burdette (right) and Dolores Delaney. Philadelphia police issued the picture at the left as that of Harry Campbell. (Associated Press Photo)

MARTIN'S BARRAGE SPURS SOLONS TO ACT ON BILL NO. 1 (Continued from page one) pointed the new members of the commission as forecast by the Associated Press during the afternoon and the new setup now includes: Lew Wallace, Portland, member of the house, to succeed M. F. Corrigan of McMinnville. Charles E. Riley, Klamath Falls, to succeed Dr. L. E. Hubbard of Burns. George K. Aiken, Ontario, newspaper man; to succeed Carl Silven of Baker. Dexter Rice, Roseburg, attorney; to succeed Dr. Irving Vinick of Ashland. E. E. Wilson, Corvallis banker; to succeed J. C. Vandervert of Bend.

The start of the small loan battle was indicated when the interim committee report on the issue was read in the house today. The report had been awaited before action on numerous bills designed to reduce the interest rates was taken by committees. The report, which urged the re-

SALEM, Jan. 30.—(P)—Discussion in the senate today on the administration measure creating a state planning board was made a special order of business for the late afternoon session. The motion was made by Senator F. M. Francis.

Three other bills already given a favorable vote by the house, were passed by the senate, including legislation to regulate issuance of badges of authority to police officers; providing a penalty for the taking of livestock without permission of the owner, and providing or the computation a inheritance taxes. Blessings brighten as they depart.

HAUPTMANN'S WIFE BACKS UP ALIBI ON KIDNAP NIGHT

(Continued from page one)

Every alibi to Hauptmann's jury for every important date connected with the crime.

The state, taking her over for cross-examination, immediately attacked her credibility on her assertion she had never used a shelf in a broom closet, and therefore had never seen the shoe box in which Hauptmann said the dead Isador Fisch gave him the \$14,600 Lindbergh ransom money found in his possession. She admitted she did use the shelf.

She said Hauptmann was with her in New York on the night of March 1, 1932, when Baby Lindbergh was stolen from his crib more than 60 miles away.

She testified he was at home with her and a friend on April 2, 1932, when Dr. John P. (Jafie) Condon said he paid Hauptmann the \$50,000 futile ransom in a Bronx graveyard.

She said Hauptmann spent the evening of Nov. 26, 1933, at home.

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FLEMINGTON, N. J., Jan. 30.—Bruno Richard Hauptmann's wife, the mother of his own small child, offered a tremulous alibi to his murder jury today in an effort to save him from the electric chair for the kidnaping and murder of Baby Charles A. Lindbergh, Jr.

She said Hauptmann was with her on the night of March 1, 1932, when Baby Lindbergh was stolen from his crib at Hopewell, N. J.

She further upheld her husband in his contention he spent the evening at home November 26, 1933, when he was alleged to have offered one of the ransom bills at a New York theater.

Disputes State Witness. She also disputed the testimony of a state witness, Mrs. Ella Achenbach, her former employer, who said the Hauptmanns called on her in March, 1932, after the kidnaping, saying they had just returned from a trip and that Hauptmann was limping. Mrs. Hauptmann said the call was paid in 1931; further that she had had a quarrel with Mrs. Achenbach about pay.

Edward J. Reilly, Hauptmann's defense chief, asked Mrs. Hauptmann: "Now on Tuesday, March 1, 1932, did your husband call for you that night?"

"He did." "At what time?" "Well, maybe it was seven o'clock, maybe quarter after seven, maybe quarter before seven. I don't know exactly."

"And how long did he remain there (at a bakery) before you and he left to go home?" "Oh, about half past nine, quarter to ten."

The Lindbergh baby was stolen between 7:30 and 10 p. m., on March 1, more than 60 miles away.

Alibi for Hanson Night. Mrs. Hauptmann also offered an alibi for her husband for the night of April 2, 1932, when Dr. John P. (Jafie) Condon testified he paid him the \$50,000 futile ransom.

She said Hans Kloppeburg and Hauptmann and herself were in the Hauptmann home.

"And what were you doing?" Reilly asked. "My husband and Hans make music, play the mandolin and guitar; and after this we played cards, all three of us."

She rebuked state hints that her husband had been untrue to her. About Mrs. Greta Henckel with whom the state brought out, Hauptmann drank coffee in the mornings while Mrs. Hauptmann was abroad, she said.

"Mrs. Henckel was not only a friend of my husband. She was my friend, too."

"Did you ever entertain any thoughts or opinion that your husband was untrue to you?" "Never," she said.

Voice Trembles. Mrs. Hauptmann spoke in a trembling voice, which was almost inaudible.

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ble. Her husband regarded her abstractedly. Colonel Lindbergh, father of the slain baby, appeared more intently interested in her words.

She produced new testimony about lumber, saying a peddler's wagon broke down in front of the house in which they had an apartment. The landlady refused, she said, to buy the lumber on the wagon, so the peddler left it and it was used to build the garage in which the \$14,600 Lindbergh ransom money was found. The state had produced expert testimony to trace the kidnap ladder to Hauptmann through his lumber, contending part of it was taken from Hauptmann's attic and part purchased at a Bronx lumber yard.

She was unable to say definitely that the dead Isador Fisch had brought any packages or bundles to her home during a farewell party before he sailed for Germany to die.

Hauptmann, who left the stand just before his wife took it, said Fisch gave him a shoe box containing the Lindbergh ransom money, and that he (Hauptmann) was unaware of its contents until months later.

Fisch Brought Suitcases. "He (Fisch) brought some suitcases maybe a week or two before he left," Mrs. Hauptmann said.

She stood on her toes to show the jury how she could not reach the top shelf of a broom closet in which Hauptmann had testified he placed the shoe box Fisch had given him. She supported her husband's testimony, on the point that the closet had a leaky roof and that a plumber had been called to try to fix it.

Hauptmann said the shoe box became rained on and that he discovered its contents accidentally when he hit it with a broom. It was because she could not reach the shelf, Mrs. Hauptmann said, that she was unable to testify that a shoe box had actually been kept on it.

Reilly, bringing up the matter of Mrs. Hauptmann's joint bank accounts with her husband, which figured in the state's case against him, asked her:

"You trusted your husband, didn't you?" "Who shouldn't trust a husband?" she asked.

Cross-Examination Opens. Reilly turned her over to the prosecution for cross-examination, remarking:

"I don't know. That speaks well for some of us."

Hauptmann's own testimony ended with re-cross-examination by Attorney-General David T. Wilentz, who made him admit that a payroll record did not support his claim that he worked April 2, 1932, the day of the ransom payment.

He also stated for the final time that he could not say either way or no as to whether he had written Dr. Condon's telephone number and address on a panel found in his home.

"You have a very good mind, haven't you?" Wilentz remarked. "Well, I don't think so, not so good," said Hauptmann.

Hauptmann testified that letters from Fisch which he said were mysteriously missing after his arrest, contained queries about fur and stock dealings between them.

Hauptmann has contended that Fisch was in active partnership with him, not only in the fur business, but in stock market speculation as well. He was unable to show, during a long and grueling cross-examination, that he had any books or other record of Fisch's participation in stock purchases.

Letters Demanded. Soon after Edward J. Reilly, his chief defense counsel, began redirect examination yesterday he demanded the state produce letters which Fisch wrote to Hauptmann before he died in Germany. The state brought in one postcard today.

"In every letter he was asking me how were the stocks and in one letter I told him I got to sell his thousand Kingenschild," Hauptmann said.

The importance of Fisch as a stock market partner to Hauptmann is chiefly concerned with the circumstance of Hauptmann's assets in creating more than \$44,000 after the \$50,000 Lindbergh ransom was paid. Hauptmann claims that much of these assets represented cash from Fisch.

Reilly sought to counteract two damaging points of the state's case. He handed Hauptmann his notebook, which had been put into evidence by the state, and had him spell out the word "boast" found therein.

In cross-examination Attorney General David T. Wilentz had pointed to the same word spelled "boast," just as the word was spelled in the Lindbergh ransom notes which handwriting experts have said Hauptmann wrote.

Denied Using Plane. Hauptmann denied that he had used a plane in evidence against him since 1928.

The markings of the plane were identified by a wood expert as similar to those left on the kidnap ladder, also in evidence against Hauptmann.

He pointed out two other planes in his tool box and said they were better instruments, preferred by him for his carpentry work.

He denied an implication of the state that there had been improper relations between him and Mrs. Greta Henckel, a comely matron, with whom he drank coffee while Mrs. Hauptmann was abroad.

Reilly also had him meet the testimony of the wood expert on another point—the absence of a 14-inch chisel from his tool kit. A 14-inch chisel was found near the kidnap ladder, and a chisel of that size had been used in construction of the ladder, the expert said.

Three Chisels Missing. "There are three chisels missing," Hauptmann explained. "Them chisels they are no good at all. They were laying in the garage. That is the chisels I bought first when I started carpenter over here."

Hauptmann also declared that not one dollar of the Lindbergh ransom money which police found in his garage—\$14,600—ever went into any of his brokerage accounts. He said he never used any disguise or tried in any way to conceal anything when he passed the 12 to 15 ransom bills he admitted spending. The state in producing for Reilly the one postcard from Fisch, declared no other communications could be found.

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