

Engineers Focusing Sun's Rays on Tiny Spot for Heating

Corvallis — To obtain uncontaminated heat, chemical engineers at Oregon State college are focusing the sun's rays from 93,000,000 miles away on a quarter inch spot.

With this heat of more than 6,000 degrees Fahrenheit, the researchers will be able to melt boron, one of the elements used in nuclear research.

This is about the only way high temperatures can be achieved without having side reactions, according to Joseph Scheulin, chemical engineer-

ing professor and project leader.

Electric Arc

An electric arc furnace could produce the necessary temperature, but vapors from the carbon or metal electrodes would contaminate the boron.

This solar furnace is on top of the chemical engineering building. It is located there so the mirrors can pick up sunlight without interference from other buildings.

A tracking mirror, 7 feet square, follows the sun across the sky by using photo cells. The tracking mirror then directs the sun's energy to another 7-foot square mirror and then up to a 5-foot diameter parabolic mirror which is rhodium surfaced.

In the parabolic mirror, the sun's energy falling on 49-square feet is pinpointed to a one-quarter inch area. This makes the high temperatures possible.

Work On Project

Working on the project are Fred Fisher, McMinnville, doctor's degree student, and Jim Bodine, Spokane, master's degree student.

Boron is a reactive element. It possesses unique properties which make some boron compounds of particular interest in high-energy fuels. Boron occurs in nature as a mixture of two different atomic weights, 10 and 11, averaging out 10.8. The different atomic weights of boron are called isotopes.

Boron 10 can absorb neutrons to a high degree. This makes it useful in the nuclear program. The United States Borax and Chemical company of Los Angeles has supported the OSC research.

Flash Floods Rip Sections of Kansas

By United Press International
Flash floods ripped through sections of rain-plagued Kansas early today in an outbreak of torrential rains and electrical storms across the Southwest.

Hardest hit was Ensign in south central Kansas which was swamped by a five-inch downpour in a six-hour period Tuesday night and early today. Water six feet deep swirled over Highway 56 near the city.

A B47 jet bomber crashed in the Texas Panhandle during a siege of electrical storms in the area, killing one airman and injuring three others. Cause of the crash was not immediately known.

Rainfall during the night was reported in the southern Plateau states, the Rockies, and from western Texas through eastern Wyoming and western Nebraska.

HAS OPERATION

Hollywood — UP — Edward G. Robinson, 65, movie tough guy and Broadway star, undergoes a "minor blade operation" today at Cedars of Lebanon Hospital.



RAID—Jordan soldiers in full battle array raided three big refugee camps near Amman, Jordan, under orders from King Hussein to search for arms. The troops swooped down at dawn, seized blasting powder and ammunition, and arrested 60 persons.

Reviewer Sees 'Storybook' As Fairly Charming Hour of Fluff

By WILLIAM EWALD

United Press International

New York — UP — Views and reviews:

"The Magic Fishbone," a

Charles Dickens piece carried

by NBC-TV's "Shirley Temple's Storybook" Tuesday

night was a fairly charming

hour of fluff. It wasn't a very

singular tale—to a large extent,

it smacked of Dickens' own

"A Christmas Carol"—but it

was whacked alive by a

predominately English cast

who glided through it with

artful stillness.

Barry Jones as a poor king,

Estelle Winwood as an odd-

ball fairy and Leo G. Carroll

as a semi-Scrooge were the

principal whackers. Lisa Dan-

iels, a Welsh girl who played

a princess, looked a bit hard

for her part but worked com-

petently. One additional chunk

of useless information: The

young man who played the

fishmonger's boy was Richard

Lupino, an American cousin

of actress Ida Lupino.

The night-time "Dotto" on

NBC-TV was replaced Tues-

day night by "Colgate The-

atre," a fill-the-gap anthology

series. It weighed in with

Joanne Dru as star of "Ad-

ventures of a Model," a pilot

film for a series that never

made it. After watching, I

would say there's no mystery

why—it was a humorless

comedy with a hackneyed plot

and tubercular dialogue. To

compound the difficulty, canned laughter punctuated the sound track with indecent regularity. Take it away, away.

ABC-TV's "Pantomime Quiz" churned out some funny bits Tuesday night with Howie Morris, the elf who walks like a man, coming off funniest. . . . The duke of Bedford, making a return visit to the NBC-TV "Jack Paar Show," provided some wonderful comic moments, overshadowing such pros as Shelly Berman and Hans Conried. It was Paar's best show in several weeks.

The Channel Swim: Melvin Douglas landed the role of Stalin in CBS-TV's "Playhouse 90" opener, "The Plot to Kill Stalin," on Sept. 25. NBC-TV has corralled Ginger Rogers for a live weekly variety series—it'll probably start sometime next year.

ABC-TV's "Voice of Fire" will open its season Sept. 8 with a half-hour powerhouse — Rise Stevens, Joe Stafford, Doretta Morrow, Ray Middleton and the Flamenco guitarist, Carlos Montoya. Jackie Cooper and Barbara Bel Geddes have been

signed on the lead roles in "Mid-Summer," on CBS-TV's "U.S. Steel Hour," Oct. 9. Jack Drees, regular commentator on the ABC-TV "Wednesday Night Fights" will be sidelined for about two weeks by illness — Jack Brickhouse and Steve Ellis will spell him.

Jet Bomber Crash Kills One in Texas
Follett, Tex. — UP — Four men flew a Strategic Air Command B47 jet bomber, equipped with three ejection seats, over the Texas Panhandle Tuesday night.

The plane exploded and crashed near the Texas-Oklahoma border and the three men in the ejection seats were thrown clear of the wreckage.

S/Sgt. Roy K. Schell went down to his death in the six-engine craft.

The medium bomber was on a routine training flight from Biggs Air Force Base, El Paso, Tex.

Wreckage was strewn over a two-mile area. Cause of the blast and crash was unknown today.

'Fair Offer' Listed For PP&L System
Springfield, Ore. — UP — A vice president of Pacific Power and Light company said here Tuesday that the Portland-based utility would probably consider \$2,800,000 a "fair offer" for the PP&L system in the Springfield area.

The city, which has a competing system in the same area, notified the company that it would proceed by condemnation unless PP&L would sell on the city's terms. It offered not more than \$2,800,000.

D. R. McClung, vice president of the utility, said, "It is obvious that the city is in a legal position to condemn, so we must act accordingly." He indicated that PP&L would probably accept the city's offer as fair.

Springfield voters presumably would be called upon to authorize a \$3,500,000 revenue bond issue at the November election to finance the purchase.

Dredges Will Be Taken from River
Portland — UP — Army Engineers announced here today they are moving two sea-going hopper dredges into the Columbia river between Vancouver, Wash., and the mouth of the stream to top off critical shoals which threaten navigation due to extreme low water.

Col. Walter L. Winegar, Portland district engineer, said work would begin Sept. 1 to augment the pipeline dredges already at work in the Columbia. The prolonged dry spell has caused an early run-off and extremely low stages in the Columbia.

The dredge Biddle will work in the Columbia until Sept. 15 when she will move to Coos Bay. The dredge Pacific will work in the Vancouver-Astoria areas the entire month of September and then go to Sacramento for work there.

Small Forest Owners Important to Industry

Corvallis — Small forest owners are still an important part of Oregon's timber industry, operating 50 per cent of the state's private commercial forest acreage, an Oregon State college forester reported.

While small forest holdings are gradually being bought up by large operators, there are still about 35,000 so-called small owners in Oregon, Charles Ross, OSC farm forestry specialist, said.

Small forest land owner-

ships—holdings of less than 5,000 acres—totaled 4,923,000 acres in 1952, latest actual count reported by the U. S. forest service. All private commercial forest lands in Oregon total 9,768,000 acres.

One Million Acres
Nearly one million acres of the small holdings fall in the 10 to 99-acre class, mostly in western Oregon. More than 21,000 western Oregon owners in this class operate a total of 835,000 acres.

Clackamas county leads the state in numbers of owners in the 10 to 99-acre class with 2,550 owners having 115,000 acres. Lane county has 2,408 owners with 50,000 acres, and Jackson county's 2,006 small owners total 88,000 acres.

Douglas county is also credited with 88,000 acres in this class with 1,105 owners.

A further breakdown of small forest contributions to the state are made for ownerships up to 2,000 acres in western Oregon and up to 5,000 acres in eastern Oregon.

These forests are estimated to produce about two billion board feet annually with value at approximately \$250 million.

Bull Elk Reported Seen in Portland
Portland — UP — A bull elk with "tracks as big as a horse" was reported seen again today in Portland's West Hills district.

Zoo Keeper Jack Marks said that as far as he knew no elk were missing from the local zoo.

Bruce Russell reported seeing the antlered elk early today at a playground. He said it disappeared into a wooded gulch. Les Ordeman, Oregon Journal photo reporter, tracked the elk and said it apparently was a "huge beast."

An elk had been reported seen in the area only recently.

Marks said that a wild elk was reported in the same general area two years ago. It was believed the elk could have come from Columbia county forests and followed a route along hilltops and through Forest park to Portland.

WORKERS INJURED
Nashville, Tenn. — UP — Workmen Billy S. Hayes and Robert Miller escaped serious injury Tuesday when they were buried under about three tons of ornamental steel that fell on them. It took rescuers 45 minutes to free them.

Farm Workers in Oregon Highest Paid

Corvallis — UP — Farm workers in Oregon and Washington are the highest paid in the nation, according to figures released today by Mrs. Elvera Horell, Oregon State college economist.

Washington farm wage scales were the highest in the nation, she said, at an average of \$1.20 an hour. The Oregon average was \$1.12, and California \$1.06. While Washington rates remained about the same the past year, Oregon's increased about two cents an hour.

Mrs. Horell noted that last year's business recession probably reduced the demand for farm workers; fewer people left the farm to go into industry and some returned to the farm.

Early Ripe Tomatoes Seen for Residents
Corvallis — UP — Oregonians may be able to have ripe tomatoes in their backyard gardens as early as June.

Dr. W. A. Frazier, horticulturist at Oregon State college, said that after nearly eight years of research, a tomato which will ripen despite chilly nights in late spring has been almost perfected.

The tomato crosses the English dwarf Puck with four American varieties. It is smaller and not as beefy as American tomatoes.

Dr. Frazier said it might be some time before the tomato can be widely marketed. He said more work is needed on the crack-resistant quality of the tomato.

This has been a good summer for Oregon tomatoes but in many years they remain green on the vines until fall frosts arrive.

Ships, Planes Asked To Clear Pacific Area

Honolulu — UP — Ships and planes have been warned to steer clear of the Christmas Island area of the Central Pacific beginning Aug. 25 because the British plan a series of atomic tests.

The warning was issued Tuesday. It said a danger area included thousands of square miles on both sides of the

SUSPEND SUEZ TALKS

Cairo — UP — The British-United Arab Republic talks in Geneva on compensation for the Anglo-French invasion of Suez in 1956 have been "suspended," an official source reported Tuesday night.

equator may be extended for certain tests. British task force "Grapple" is conducting the nuclear experiments.

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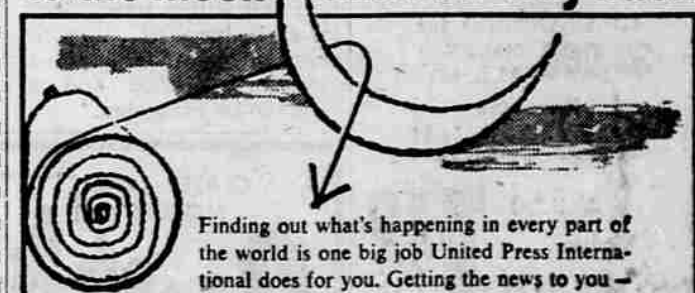
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