

# 'Combustion Zone' of Cigarette Said 1,202 Degrees Fahrenheit

By DELOS SMITH  
United Press Science Editor  
New York — U.P. — Bringing its technically minded readers up-to-date on the connection if any between cigaret smoking and lung cancer, the world famous medical journal, The Lancet, was struck by the agreement among investigating scientists as to what is the temperature in "the combustion zone" of a puffed cigarette.

American investigators have established a temperature range from 897 degrees to 1,493 degrees F., with an average of 1,202 degrees. British investigators have placed the temperature range maintained in "normal quiet cigarette puffing" between 1,077 and 1,202 degrees F.

"At such temperatures," said The Lancet, "carcinogenic (cancer-causing) hydrocarbons are formed from organic matter, and in fact several workers have detected benzpyrene in the tar. Some of this compound may be destroyed under the same conditions."

**Arsenic Found**  
"Other suspected substances include phenols, which have been found carcinogenic to mouse skin, certain chemicals existing as free radicals, and arsenic which has increased by 300 per cent in American tobacco cigarettes between 1932 and 1951 as a result of the use of arsenic in the control of pests."

On the other hand, The Lancet found that efforts to isolate known carcinogens from tobacco tar and to test the carcinogenic properties of the crude tar on animals, had all reached an impasse. "It is not now adequate," it said, "to describe an agent as a carcinogen without saying to what, to whom, and in what amount. Benzpyrene is not carcinogenic to all tissues of all animals."

But putting the lung cancer-cigarette smoking question to one side, The Lancet saw "evidence of other harmful actions of cigaret tar." It cited "an immediate visible effect" when

"the toxic substances are in sufficiently high concentration." That effect is to stop the rhythmic action of cavity-lining cells such as those of the throat and lungs by which they pass their essential fluids over their surfaces.

**Toxics Absorbed**  
The result is that the "toxic substances are then dissolved and absorbed into the mucous membrane, and they include carcinogens for animals." The Lancet continued.

It had asked this question: "If

cigarette smoking is a cause of lung cancer, as the statistical evidence indicates, what is the substance in cigarette smoking which makes it dangerous?" That substance would have to be in the tar and particles produced by smoking, it said.

Granting that scientific efforts to pin-point the substance have so far been inconclusive, it added that "we are a long way from deciding for being hesitant in putting the known facts before the public and in dissuading young people from starting to smoke."

## News About Books From the Library

National Newspaper Week is being observed between Oct. 1 and 8 this year, not only by the daily and weekly newspapers of the nation, but by its libraries as well.

The library and the press work in a common cause—promoting reading interest and disseminating information — and both guard constantly the American citizen's right to the freedom to read and to know.

Much of the fun and the frustrations of the newspaper business are described with warmth and humor in one of the popular new books in the Medford Public library, Charlotte Paul, in "Minding Our Own Business" relates how she and her husband gave up their jobs with Chicago dailies and became the independent owners of a small weekly newspaper in Snoqualmie, Wash.

**Newspaper Anecdotes**  
Another book rich in newspaper anecdotes tells how the editor of a famous country weekly looks at his job of reporting the doings of an American community. "Once More the Thunderer" is by H. B. Hough; the library also has his "Country Editor." A rather different aspect of

newspaper publishing is described in the story of Hearst, publisher of 20 papers, "The Life and Good Times of William Randolph Hearst," by J. W. Terbel. Young people considering journalism will find helpful information in Neil MacNeil's "How To Be a Newspaperman," "News Editing and Display," by Charles Henry Brown, is a basic textbook in journalism which gives the reader a sense of news value and some insight into the legal and ethical policies and problems involved.

Another practical book on the subject is G. C. Bastian's "Editing the Day's News," an introduction to newspaper copyreading, headline writing, illustration, make-up and general news methods. Readers who enjoy the Mail Tribune's recent series of articles concerning the various departments of the newspaper will find Bastian's book good supplementary reading.

**Development of Press**  
No one can read O. G. Villard's record of the development of the American press, "The Disappearing Daily," without feeling a new interest in newspapers and their makers. The excitement of the news is conveyed to the reader by Frank Luther Mott in "The News in America," a lively explanation of the process by which the American news distribution grew up. In "The Columnists" Charles Fisher presents articles on some of the leading newspaper columnists written "with some malice and only a little favoritism."

The Medford Public library subscribes to eight newspapers. It also has available for consultation the annual "Directory of Newspaper and Periodicals," published by N. W. Ayer and Sons.

## Around Hollywood

By ALINE MOSBY  
United Press Correspondent

Hollywood—U.P.—Movies are longer than ever—and even television is following suit with an hour-and-a-half live drama if the viewers will stay fascinated in their armchair.

Once upon a time movie-makers weren't sure an audience would sit still for longer than a 10-minute reel. But movie studios made pictures this year that are feats of endurance to customers of the popcorn places.

"The Ten Commandments," all 10 of them, is the champion. The picture runs three hours and 39 minutes, plus a 10-minute intermission, meaning viewers will be nearly four hours older by the time they walk, muscles stretching out of that one.

**Lengthy Film Trimmed**  
"Giant," the Rock Hudson-Elizabeth Taylor-Jimmy Dean film, stretches to three hours and 17 minutes. Director George Stevens originally had a five-hour movie, but cut more than an hour because of the unwritten laws about working movie patrons overtime.

"War and Peace" lasts three hours and 23 minutes before the theater goes on retreat from Moscow. "The Spirit of St. Louis" goes on for two hours and 45 minutes; "Friendly Persuasion" lasts nearly that long. Television is taking up the idea and lengthening its programs. An hour show was considered daring until NBC initiated the "spectacular" idea—90 minute musicals—two sea-

sons ago. Now CBS-TV is serving up 90-minute live drama on a new show, "Playhouse 90" beginning Thursday.

**Budget Staggers TV**  
The program has a budget of \$150,000, staggering for TV. The first play, "Forbidden Area," boasts six stars, including Charlton Heston, a veteran of the longest movie extant, "The Ten Commandments."

"I think the 90-minute dramatic show is the answer to an actor's prayer," enthused Heston between rehearsals at CBS. "We get 15 days of rehearsal, compared with eight for an hour show. And there are more good actors in the show."

Heston thinks the end is not in sight. He predicts TV's next step will be two-hour programs.

## Too Many Wives For This Bus Driver

Durham, N. C. — (U.P.) — Earl Clinton Williford, who operates a bus between Durham and Dunn, N.C., today awaited sentencing on a charge that he kept wives at both ends of the line.

Williford pleaded guilty in Superior court Monday to a charge of bigamous cohabitation. Mrs. Frances Williford charged he married her two years ago while he still had a wife in Dunn.

Williford claimed he separated from his first wife four years ago but admitted she has since borne him two children and is expecting another.

Williford's Durham wife has two children.

## Caterpillar Idled By Wildcat Strike

Peoria, Ill. — (U.P.) — Production at the Caterpillar Tractor Co. stopped today when the entire midnight shift failed to show up for work in protest of an alleged speedup.

About 22,000 employees were idled by the walkout which the company termed a wildcat strike. The work stoppage began Tuesday when a foreman threatened to reduce a welder to a sweeper unless he worked faster, according to a company spokesman.

## Youth Arrested for Breaking, Entering

A 15-year-old Medford boy was turned over to juvenile authorities yesterday after breaking a window and entering the Lone Pine school sometime Monday night, state police reported.

According to officers, the youth was believed searching for money. Nothing was reported taken from the building.

## Ellsworth Hit By Porter for 'Share' In Loss of Income

Albany — "Congressman Harris Ellsworth has to share the blame for the deplorable fact Oregon's per capita income has now dropped below the average income for the United States as a whole," Charles O. Porter, Democratic candidate for U. S. representative, told a meeting of Young Democrats here this week.

Porter cited estimates made by U. S. News and World Report magazine which reported on income gains made by all the states from 1952 to this year and showed that the average income nationally went up 10.9 per cent but in Oregon it climbed only 4.4 per cent.

**Cites Rules Action**  
"Where Ellsworth used his position on the House Rules committee to block the 135,000 unit bill passed by the Senate this year, thereby slicing off 100,000 housing units and an additional 10,000 which were earmarked for elderly citizens, I would have strongly supported this bill to ward improvement of my district's economy and the welfare of the nation as a whole," Porter declared.

"This is but one example of how Ellsworth has failed the 4th district and Oregonians at large through his negative voting record," Porter said. He said he would have voted "for REA appropriations, not against them as my opponent did; for public power programs, not oppose them as Ellsworth has done, and for lowering interest rates on loans, in contrast to Ellsworth's negative vote."

California boasts a "vintage year" for wine every year—unlike other parts of the world where grapes reach full maturity only during exceptional years—because of a long growing season.

## Joe Smiths Would Lead Stevenson To Victory

Portland—U.P.—If the November election were up to the Joe Smiths of Multnomah county, it appears Adlai Stevenson would be a shoo-in. Registration records show three Joe Smiths, two of them Democrats, and 22 Joseph Smiths, 18 of them Democrats.

## Amnesia Victim Anxious for Return

Boston — (U.P.) — An amnesia victim given up for dead 12 days ago after he disappeared on a fishing trip arrived here today from Phoenix with his wife, "anxious to get back home to see his children."

Mr. and Mrs. Frank Sandman immediately planned to go to their home in Pawtucket, R.I. Sandman, 35, said that the last thing he remembered was getting dressed in his fishing clothes two weeks ago while on a fishing trip near his home.

## Andrea Doria Captain To Tell Crash Version

New York — (U.P.) — Investigators hoped to call the captain of the Andrea Doria, the last man to leave the Italian liner before it sank, to give his version today of the night-time collision between his ship and the liner Stockholm July 25.

Capt. Piero Calamai, 58, was expected to begin testifying in the pre-trial hearings late this afternoon.

The Andrea Doria, pride of the Italian lines and the Stockholm, Swedish-American line ship, crashed off Nantucket lighthouse in a disaster that took 50 lives.

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## New Carberry Bridge Opens; Other Work Progresses in Area

Jackson county bridge crews yesterday began tearing down the Carberry bridge detour and all traffic is now moving over the new span, according to Paul Rynning, county engineer.

Piers for the steel and concrete bridge were erected in 1940 by a group of soldiers. Crews removed the old wood surface and constructed the new bridge over the original piers.

It is located in southwestern Jackson county near Steamboat. County workmen also completed paving projects for the current season last Monday. Rynning said the men have paved a total of 25 miles at various points in the county. Most recent paving project has been at Dead Indian rd.

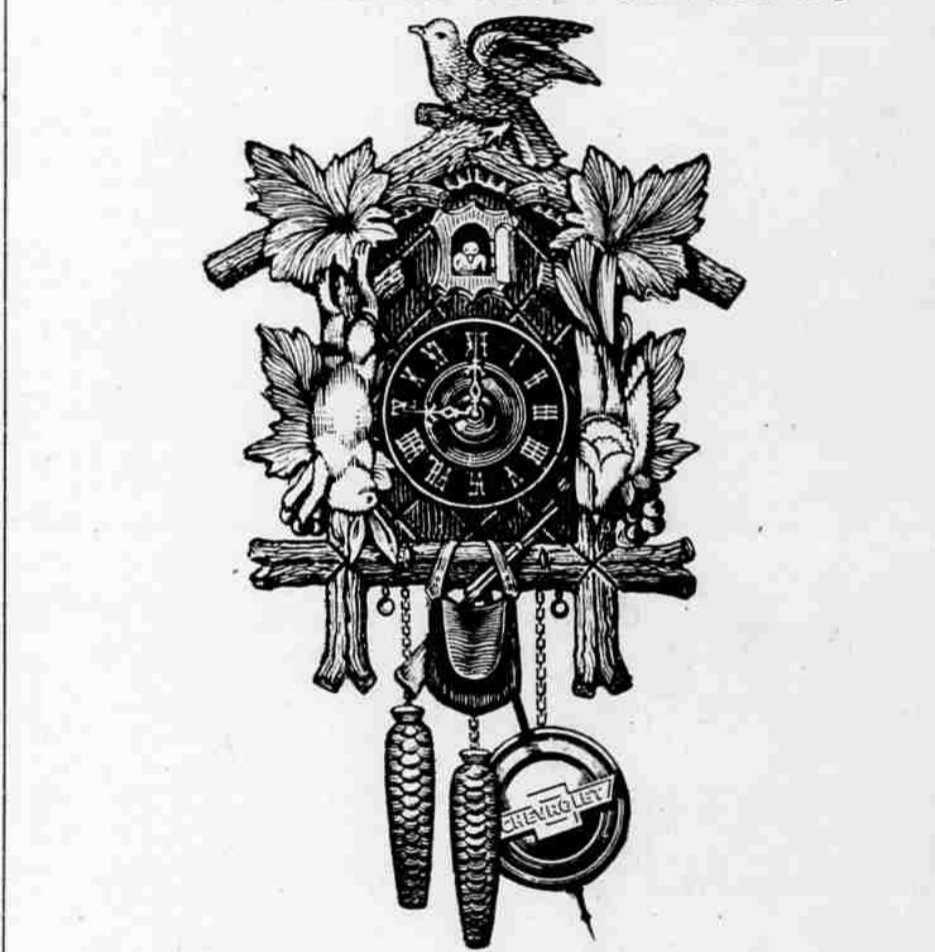
**'Oil Mat' Laid**  
Crews have also laid about eight miles of "oil mat" (asphaltic oil and rock) throughout the county. They are now working on East Main st., outside the Ashland city limits, to improve grades and resurface the road. Rynning said striping of many county roads will begin in a few days. Stripes will be painted white this year since the county already has the supply of white paint. However, he said, all

county road striping next year will be with yellow paint. The engineer explained that yellow paint shows better and lasts longer, though it is slightly more expensive.

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