



HUFF AND PUFF—Pretty Miss Sylvia Morris (right) tries out a "puffmeter," a scientific instrument to test the working ability of the lung. Supervising the test are Drs. Leslie A. Chambers (left) and Marjorie Biddle of the Tuberculosis and Health Association of Los Angeles County.

Workings of the Lungs to Be Studied by TB Association

An old saying runs, "The more you learn, the more you find you still have to learn."

Much has been learned about how the human body works. But scientific researchers freely admit much still remains to be learned.

For instance, much is known about the workings of the lung. It's established that the main job of the lung is "ventilation." This is the process in which oxygen is inhaled and passes into the blood stream, while waste carbon dioxide passes the other way, from blood stream to lung, to be exhaled. Science knows this transfer takes place between microscopically small air sacs in the lung and equally tiny blood vessels which surround them. But just how this transfer takes place — what make it work — is still to be solved.

RESEARCHERS
Here in Southern California, several researchers are working on this and related problems. Among them is Dr. Oscar J. Balchum, assistant professor of medicine at USC and holder of a research grant

from Tuberculosis and Health Associations in California.

In his laboratory at the L.A. County General Hospital, Dr. Balchum admits, "Much still remains unknown about the lung — how it works and how it is built. Particularly, too little is known about the changes in the lung, in cases of chronic respiratory disease. We know the 'ventilation' breaks down in such cases, but we don't know why. We also know that irritants, such as air pollutants or smoking, change the way the lungs work. We don't know how."

An important tool in the study of the lung is a series of screening tests called Pulmonary Function Estimations. Briefly, these test the ability of the lung to do the job they are supposed to do. Through them, physicians can tell something is wrong and start testing for the precise cause of lung disorder. After an ailment is discovered, these tests can also help determine the extent of damage inflicted.

VITAL WORK
In two ways, Dr. Balchum and his helpers are involved in the vital work of the Pulmonary Function Estimations. First, they are developing new equipment and adapting existing machines, to make them more portable. This will permit wider testing and earlier discovery and treatment of pulmonary ailments.

Second, he and his staff are gathering a badly-needed set of reliable statistics on lung disease, to help the doctors understand the problems better. Using the Pulmonary Function Estimation tests, he is studying the incidence of abnormal lung problems among the Southern California population. Also, this study is dealing with what happens, year by year, to the lungs of people afflicted with emphysema and chronic bronchitis, as compared to so-called "normal" lungs.

We just don't know too much about the biochemistry of the lung," Dr. Balchum concludes. "What chemical processes take place when the lung is sick? What changes are caused by the natural processes of aging? We don't know, but we're trying to find out."

Treasure Tours

Los Angeles County Museum announces that its regular series of Treasure Tours will continue during the next week. At 1 p. m., Tuesday, June 13, Volunteer League of San Fernando Valley will conduct a Treasure Tour

through the museum's most interesting and important galleries containing exhibitions of art, science and history. Then at 1:30 Wednesday, June 14, the Round Table docents will conduct another Treasure Tour. These tours are an hour in length and have been designed to give residents of Southern California as well as visitors to this area a good cross section of the Los Angeles County Museum's holdings and activities. The series, each tour of which is complete in itself, has been very popular since its introduction nearly two years ago. Admission is free.

OUTDOOR LIVING
As an adjunct to outdoor living try a few pots of your favorite herbs and keep them close by the barbecue brazier. There's no matching their flavor in anything you buy off a shelf. No longer do you have to start these herbs from seed—a troublesome task at best—since C.A.N. nurserymen offer pots of all the principal herbs already started. You merely move them into your garden and grow them on to your palate's delight.

A group of 200 young people from congregations in the greater southwest Los Angeles area are expected Sunday morning to hear Dr. Frasier's sermon "Science and the Scriptures" and to attend a "Singing" planned for them after the evening service.



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Dr. Jones Conducts Bible Lesson Series

Dr. Warren S. Jones, minister of the Redondo Beach Church of Christ, 6122 Pacific Coast Hwy., will leave June 8 enroute to Columbia, Tennessee, where he will be the speaker in a series of Bible lessons. The series will be conducted at the East Valley Church of Christ in Columbia. This will be the fourth such series that Jones has presented for the East Valley church, the first having been conducted in 1950 when the congregation was first started.

"God Is Able" will be the theme Jones will follow for the meetings. The series will begin Sunday, June 11, and continue through June 18. The Redondo Beach Church of Christ has selected several interesting and well known ministers as guest speakers during the absence of their local minister.

Dr. Sidney Allen will conduct the adult Bible class and deliver the sermon for the 10:45 a.m. worship service Sunday, June 11. Sunday evening the Redondo church will be host to a group of young people from 20 congregations in the greater southwest Los Angeles area. Speaking at the 6:30 p.m. service will be Dr. Lloyd D. Frasier.

Dr. Sidney Allen, a graduate of Abilene Christian College, received his doctorate from Texas A & M; and is presently a biology instructor at Pepperdine College. Allen, who will be leaving for Korea in the near future as a self supporting missionary, is currently engaged in studies preparing for his work in that country. The Allens will be working with Mrs. Allen's brother, Haskell Chessier, who has been in Korea for some time. The family resides in Southwest Los Angeles and Dr. Allen teaches a Bible class at the Inglewood Church of Christ.

Sunday evening at the 6:30 p.m. worship service, Dr. Lloyd D. Frasier, who is head of the chemistry department at George Pepperdine College, will speak. Frasier received his doctorate from the University of California at Berkeley, and was a professor of chemistry at Georgia Tech for 10 years before coming to Pepperdine three years ago.

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