



SCIENTIFIC MARVEL—Royal Raymond Rife with his newly developed microscope. Times photo

Giant Microscope May Yield Secrets of Bacteria World

San Diego Scientist Devises Complex Instrument Capable of Magnifying Objects 31,000 Times

SAN DIEGO, June 25.—With a giant, complex microscope he invented and constructed in his laboratory workshop, Royal Raymond Rife, San Diego scientist, hopes to unlock secrets of the bacteria world that may lead to the conquest of diseases whose scourge is still beyond control.

Capable of magnifying an object 31,000 times, compared with the 1600 to 1700 times of the standard microscope, Rife's instrument had disclosed to his eye minute, deadly enemies of the human body which never before, he says, have been seen.

PERFECT CLARITY

Viruses, capable of passing through the finest filters scientists can produce, hence extremely difficult to study, have been observed in perfect clarity through his microscope, Rife asserts.

One such virus, which the inventor declares he isolated with the aid of his microscope, has been found in cases of cancer, leading Rife to the belief that intensive future research may show its possible relationship to the cause of this disease.

VARIED MYSTERIES

In his laboratory on Point Loma, Rife has delved into the mysteries of a wide range of subjects, from ballistics, internal combustion engines and optics, to microphotography.

But of all his scientific marvels, the intricately built microscope, culmination of two decades' development, seems the greatest. Standing two feet high and weighing 200 pounds, it contains 5682 individual parts.

ZIGZAG FASHION

Unlike the standard microscope, the image does not pass through free air in a hollow tube, with resultant distortion. It is conveyed, instead, zigzag fashion through quartz blocks and prisms along the optical path.

For organisms too small to be stained, an ingenious illuminating system is used.

This system utilizes Rife's theory that organisms respond to certain wavelengths, a theory he carries to finality by bombarding disease germs with radio waves which are "tuned" to those of the minute man-killers. And the

virus he says occurs in cancer has, Rife insists, disintegrated under such radio waves.

Johnstone Peak Dedication Planned

San Dimas Will Honor Civic Leader's Memory

SAN DIMAS, June 25.—A lofty section of the Sierra Madre range will be dedicated Thursday as Johnstone Peak, honoring the memory of William Arthur Johnstone, pioneer leader in conservation and civil development.

The ceremony will be conducted at 3 p.m. at San Dimas Park, north of Foothill Blvd. and east of Artesia St. A bronze plaque placed in a granite boulder will be unveiled.

Johnstone, an agricultural expert and a citrus grower himself, served at various periods in the State Assembly, State Water Commission, State Civil Service Commission and the County Commission.

A. T. Richardson, editor of the Pomona Progress Bulletin, will review Johnstone's civic activities and W. S. Rosecrans, past president of the Los Angeles Chamber of Commerce, will describe his work in conservation.

High School Courses Will Aid Defense

SANTA MONICA, June 25.—Co-operating in national plans for defense, the Board of Education has made arrangements at Santa Monica High School for military training for boys and establishment of a project in plane construction.

R.O.T.C. training will be in lieu of physical education and the plane construction course will be sponsored by the N.Y.A. The board also authorized continuation throughout the summer of a citizenship class for foreign-born students and continuation of a pilot-training class for junior college students.