

# Substance Found For Injection Into Vocal Cords

**By DELOS SMITH**  
UPI Science Editor

New York—Dr. Godfrey E. Arnold, a leader of scientific efforts to restore good working voices to poor-voiced and voiceless human beings, believes the ideal substance for injection into vocal cords has been found. It is, of all things, one of the tetrafluoroethylene plastics well known by the trade-name, "Teflon," and widely used for many purposes. In this new and highly humane use, it is mixed with glycerin which makes it a paste that can be easily injected in relatively simple surgery.

paralysis in one of the controlling nerves. If the cords won't readily close and part as they vibrate, it becomes extremely difficult and even impossible to form and project intelligible sounds. The voice is squeaky and weak and the victim for practical purposes is often voiceless.

When you inject something into a cord with a paralyzed nerve you broaden and thicken it. This sometimes permits it to close against its mate and this will restore speech. What to inject has been the scientific problem.

**Chemically Tolerable**

It must stay where it is put for the life of the person, and so it must be chemically tolerable to body tissues and at the same time it should prevent body tissues absorbing it. And it has to be of fine composition so it can be injected.

Various substances have been tried and found wanting for one reason or another. Arnold reported to a technical organ of the American Medical Association that "Teflon powder mixed with glycerin" seems to be what he and his colleagues have been looking for.

He is clinical director of the National Hospital for Speech Disorders and head of the department of research at New York Eye and Ear Infirmary. He reported how it has been tried out exhaustively in animals and then in a large number of patients with uniform success.

"There may be hoarseness during the first postoperative day," he said. "Thereafter, the voice improves rapidly, soon showing the beneficial effects of the operation. The patient begins to talk with a better voice. It is louder, fuller, clearer and more pleasant."

**Not Whole Answer**

Injection is by no means the whole answer to voice disorders, he emphasized. Before the technique is even considered there should be positive proof that the voice disorder is due to deficient closing of the vocal cords.

Even then it should not be used before all possible attempts at vocal rehabilitation by voice therapy have been made. As is well known, he continued, many persons can overcome vocal disorders by learning how to compensate with the larynx and to exploit the ability to hear one's voice and then correct its deficiencies.

"Injection should not be considered before six months have elapsed since the onset of laryngeal paralysis," he said. "Spontaneous recovery is possible within this time."

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## They'll Do It Every Time



## Eagles Schedule Chicago Convention

Chicago will host the 1963 convention of the grand aerie and grand auxiliary of the Fraternal Order of Eagles, it was recently announced by Paul N. Hofmann, chairman of the board of grand trustees. The convention will be held July 31 to Aug. 2 and a delegate to represent the Medford group will be elected in June. Grand aerie sessions will be held at the Hotel Sherman and the auxiliary will meet at the Hotel Morrison.

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## Dennis the Menace



\*NO, THAT IS NOT A SQUARE KNOT. NOW GO WASH YOUR HANDS AND FINISH YOUR DINNER!\*

# Significant Milestones During 1962 Noted by Air Force Space Division

Los Angeles—(AP)—The Air Force Space Systems Division noted today it achieved "many significant milestones" during 1962 in launching over 90 per cent of the nation's space probes and satellites.

The division, commanded by Maj. Gen. Beni Funk, reported that by working with the nation's leading aerospace industries it had made a notable contribution to the United States space program.

SSD has primary responsibility for the development and launching of space boosters, integrating payload with the boosters and tracking of payloads into orbit.

It listed the most significant space achievements during 1962 as:

**Feb. 20:** The first American was launched into orbit atop an Air Force Atlas space booster from Cape Canaveral, Fla. The astronaut, Marine Lt. Col. John Glenn, was recovered after landing safely in the Atlantic Ocean in his Mercury capsule. He orbited the earth three times.

**Feb. 27:** The Air Force launched its Discoverer 38 into polar orbit from Vandenberg AFB, Calif. The space capsule was caught in the air by a C130 aircraft on March 3 after it had passed around the earth 65 times. This set a new orbit record for a capsule.

**April 23:** The Ranger 4 spacecraft was sent on a collision course for the moon, impacting on the far side of the lunar body April 26. This was the first time a U. S. spacecraft had reached the moon.

**May 24:** Astronaut Scott Carpenter followed Glenn into orbit in a repeat performance of the historic flight. Carpenter's Mercury capsule was boosted into orbit by an Air Force Atlas. The launch, three orbits, and recovery were successfully accomplished.

**Aug. 15:** Under Secretary of the Air Force Dr. Joseph V. Charyk announced the successful flight of Agena D. The

new Agena D is an Air Force program to develop a standard upper stage space vehicle. It can be launched atop an Atlas or Thor standard launch vehicle.

**Aug. 26:** An Air Force Atlas-Agena B launched a Mariner 2 "Venus Fly By" spacecraft for the National Aeronautics and Space Administration. Mariner 2 successfully passed within 21,000 miles of Venus where special instruments radioed back to earth vital information about the mysterious cloud-covered planet.

**Oct. 3:** Astronaut Walter Schirra became the third American to go into orbit as he rode his Sigma 7 Mercury space capsule for six orbits around the earth. Launched atop an Air Force Atlas, he was successfully recovered from the Pacific Ocean.

**Oct. 31:** A friendly "Winking Star" satellite called Anna was launched by an Air Force Thor-Ablestar space booster from Cape Canaveral. The Thor-Ablestar placed Anna into one of the most precise orbits ever attained by a satellite. The mission of the 335 pound spherical Anna was to provide data and measurements on the shape of the earth more accurately than ever before.

**Oct. 31:** The Air Force reported it would develop an Atlas standardized space launch vehicle (SLV). Development of a standard Atlas is in keeping with the current Air Force program to standardize all space launch vehicles. Standardizing of the Atlas will eliminate many production and launching problems resulting in lower long term costs.

**Nov. 13:** The Air Force announced it had launched the world's smallest satellite, known as a Tetrahedral Radiation Satellite. The pyramid shaped satellite, weighing only 1.5 pounds, was small enough to hold in the hand. Its mission—to send back data on the 3,700 mile Van Allen radiation belt.

**Nov. 14:** Mariner 2 set a new long distance communication record when useable scientific information was received from the spacecraft at a distance of over 17 million miles.

**Nov. 29:** Ground was officially broken at Edwards AFB, Calif., for a new rocket engine test facility described by Air Force as "the most sophisticated and highly instrumented test facility in the world." The facility will include the largest thrust stand for solid motors built to date.

**Dec. 18:** An Air Force Blue Scout boosted a Navy Transit 5A satellite into orbit from Point Arguello, Calif. This was the first time a Transit payload was launched by a Blue Scout.

**Also in December:** A successful launch of a Thor from Vandenberg AFB, marking the 100th launch of a U. S. space vehicle by the versatile Air Force Thor space booster. In 93 of the 100 launches, the Thor first stage performed successfully.

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