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**ENGINEERING**

**Midget Microphones Explore Jets' Roars**

**MICROPHONES** no bigger than a letter of the type used in most newspaper want ads have been built to study the great roars of jet aircraft and rockets.

Flow instabilities figure in those roars, and also in other annoyances ranging from heart murmurs to cyclones. Prof. Erik L. Moloo-Christensen of the Massachusetts Institute of Technology department of aeronautics and astronautics proposes to pick flow problems apart with the help of these tiny microphones.

He and his associates are assembling apparatus now that will enable them to add known sounds to streams of air. These streams will be at known temperatures and pressures, and the researchers hope to learn what becomes of the added sounds. Thus more may be learned about how a jet carries and scatters its noise.

The National Aeronautics and Space Administration granted Massachusetts Institute of Technology \$70,000 last fall to support research regarding unstable sheer flow for two years, and *The Technology Review* (Feb.) describes the experimental set-up devised for this research.

Although a central part of the apparatus is a pipe a foot in diameter and eight feet long, full of material to reduce the turbulence of the air sent through it, much of the work will be done with very delicate devices. In addition to the new, tiny microphones, the whispers in the wind will be detected with the help of very fine "hot" wires—so fine that they cannot be seen unless held "just so" in the light—and an array of other complex, modern instrumentation.

Science News Letter, February 6, 1960

**GENERAL SCIENCE**

**Science Exam Answers**

To check yourself, score two (2) points for each correct answer in Parts A and B; and one (1) point for each in Part C.

ANSWERS TO PART A—two points for each: 3-2; 4-1; 5-3; 19-3; 20-1; 21-4; 22-3.  
 ANSWERS TO PART B—two points for each: Section G: 50-1; 51-4; 52-2; 53-3. Section N: 71-3; 72-1; 73-1.  
 ANSWERS TO PART C—one point for each: 101-1-G; 101-2-K; 101-3-J; 101-4-I; 101-5-B; 101-6-E. 103-1-I; 103-2-4; 103-3-8; 103-4-6.

*Do You Know*

The Polaris missile will bring within range of direct attack from the sea almost all important military targets within about 15 minutes.

The American public contributed a record \$24,004,865 to the 1959 *Heart Fund*.

