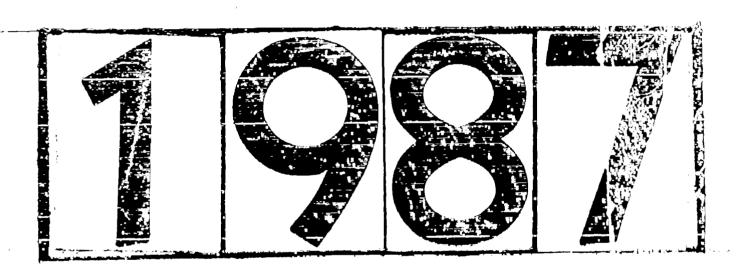
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LOW PRESSURES RESEARCH College Avenue Pool

Director Office of Naval Research 1000 Geary Street San Francisco 9, California

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# MONTHLY STATUS REPORT - OCTOBER 1952

Contract N7-enr-295-Task 3 Project Number Nr 061-003

Dear Sir:

Progress on the contract for the month of October has been as follows:

- 1. Traverses of a molecular beam reflected from a glass plate have begun. These initial measurements indicate that a satisfactory signal can be detected. Complete polar traverses of the reflected beam are now under way with a 1 per cent acceptance tube mounted on the detector gage.
- 2. During the month of October several test programs made use of the No. 3 Wind Tunnel. Impact and states probes were tested under a separate N.A.C.A. sponsored program. Lase pressure studies were continued in an effort to determine the cause of minor discontinuities in the test data.
- 3. The cone-drag single compensat balance has been completed and is now being bench tested prior to its use in wind tunnel tests.
- 4. The design of a new rotating cylinder drag balance has been completed. Shop work will be delayed due to the press of other test programs.
- 5. The following reports are in various phases of preparation:
  - a) A report describing the design analysis of a free molecule flow hot wire probe for wind tunnel use is being prepared, and will be issued shortly.
  - b) A report describing the design and operational tests of a rotating sylinder apparatus for use in low density gas dynamics research is being written.
  - e) I report describing the results of a subscoic heat transfer programusing spherical models is being written.

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6. Visitors: The following persons visited the project during the month:

John J. Wilkes

William Lawrence Lewis

⇒ CARR, San Francisco, Calif.

Western Representative, Guggenheim Aeronautical Safety Center, Cornell University

Very truly yours,

S. A. Schaaf

Faculty Investigator

## SASEds

cc: 1 CIR San Francisco

- 3 ONR Washington D.C.
- 2 Office of Scientific Research Fluid Mechanics Branch Research and Development Command P.C. Box 1395, Baltimore, Md.
- 1 Dr. Morton Alperin, Western Regional Office Hdgrs. ARDC F.O. Box 2035 Pasadena 2, California

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