

ENGINEERING RESEARCH INSTITUTE  
UNIVERSITY OF MICHIGAN  
ANN ARBOR

PROGRESS REPORT

for

1 March 1953 to 1 June 1953

UPPER ATMOSPHERE TEMPERATURE AND PRESSURE MEASUREMENT

REPORT NO. A-16

By

H. F. Schulte

PROJECT DIRECTOR: W. G. DOW

Submitted to the Geophysics Research Division, Air Force Cambridge Research Center, Cambridge, Massachusetts. The work reported herein is of a preliminary nature and the results are not necessarily in final form.

Approved by:  
N. W. Spencer  
Project Engineer

Project No. M824

U. S. AIR FORCE, AIR FORCE CAMBRIDGE RESEARCH CENTER  
CONTRACT NO. AF 19(122)-55

June, 1953

PERSONNEL EMPLOYED DURING PERIOD OF REPORT

W. G. Dow	Project Director	
H. S. Sicinski	Research Physicist	
H. L. Smith	Research Engineer	Part time
N. W. Spencer	Project Engineer	

## ABSTRACT

In this final period, effort under the contract has been applied only to report writing.

## TABLE OF CONTENTS

	Page
Temperature Measurement Paper	1
Paschen Law Experiment	1
Final Report	1
Future Work	2
Personnel and Fiscal Information	2

PROGRESS REPORT

for

1 March 1953 to 1 June 1953

UPPER ATMOSPHERE TEMPERATURE AND PRESSURE MEASUREMENT

REPORT NO. A-16

TEMPERATURE MEASUREMENT PAPER

During this period, a paper entitled "Rocket Measurements of Upper-Atmosphere Ambient Temperature and Pressure in the 30- to 75-Kilometer Region" by H. S. Sicinski, N. W. Spencer, and W. G. Dow was submitted for publication in the Physical Review. It was later returned with the suggestion that the Journal of Applied Physics would be a more suitable medium. Accordingly it has been submitted to that journal.

PASCHEN LAW EXPERIMENT

A technical report on the Paschen Law experiment conducted in September 1951 was initiated during this period.

FINAL REPORT

The compilation of the final report on the work under this contract was begun during this period.

FUTURE WORK

No further work is anticipated under this contract except the completion of the above reports. All scientific endeavor will be covered by the continuing contract, AF 19(604)-545.

PERSONNEL AND FISCAL INFORMATION

All personnel not engaged in report writing have been transferred to work under the continuing contract.

As of the end of this period, all money under this contract will have been expended.

