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BROCHURE

INTRODUCTORY REMARKS BY DR. HUGH L. DRYDEN

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INTRODUCTION

On July 14 and 15, people associated with the Aeronautical Sciences attended the 1958 Triennial Inspection of the NACA Ames Aeronautical Laboratory. Guests represented the airlines, aircraft and associated manufacturers, colleges, the U. S. Congress, the military services, various government departments, the NACA, and local municipalities.

Busses (Greyhound 38 passenger) provided transportation to Ames from the St. Francis Hotel in San Francisco, the San Francisco Airport, Rickey's Studio Inn on the El Camino Real in Palo Alto and the Holiday Inn. Other guests came by airplane and automobile. On arrival guests registered and purchased luncheon tickets. An introductory session at the auditorium was opened by Dr. S. J. DeFrance. This session included brief welcoming addresses, and an introduction to the material to be presented during the inspection, by NACA Director, Dr. Hugh L. Dryden. At the conclusion, Dr. DeFrance briefed the guests on the mechanics of the tour and invited them to join their group leaders by color designation.

Luncheon was served in the Aviation Sheet Metal Shop. Research aircraft were displayed on the flight apron, and large scale photographs of research equipment, models, and report excerpts, marking milestones in Aeronautical Research, were displayed.

A rest period of ten minutes during the afternoon program was provided for relaxation and refreshments.

Upon completion of the inspection, guests attended a social period at the Moffett Field Officer's Club. Bus transportation from the social hour was provided at intervals to San Francisco Airport, San Francisco, and Palo Alto.

The inspection program, text of the speaker's talks, and photographs of exhibits, charts, and other material used in planning and execution are presented in this report.



PROGRAM
1958 Triennial Inspection
Ames Aeronautical Laboratory
Moffett Field, California
July 14 and 15, 1958

Pacific
Daylight
Time

| | |
|-------------|---|
| 9:30 a. m. | Register and procure lunch ticket. |
| to | Baggage may be checked in foyer of Auditorium. |
| 9:55 | Don't check your hat if you will want it during tour of the Laboratory. |
| 10:00 | |
| to | Introductory session in Auditorium. |
| 10:20 | |
| 10:30 | Tour Laboratory for demonstrations and lectures |
| to | in groups designated by colors. <u>See Schedule</u> |
| 12:25 p. m. | <u>of tour inside.</u> |
| 12:30 | |
| to | Luncheon for all groups. |
| 1:25 | |
| 1:30 | |
| to | Complete the tour. |
| 4:05 | |
| 4:10 | Social period at Moffett Field Officers' Club. |
| to | Busses will leave Officers' Club as required for |
| 6:00 | motels and San Francisco via San Francisco Airport. All busses will pause at Ames Auditorium for guests to reclaim baggage from check room. |
| 6:00 | Last bus leaves Officers' Club. |

SCHEDULE OF DEMONSTRATIONS

| | Red | White | Blue | Gold | Green | Orange | Gray | Brown | Tan |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <u>Earth Satellites</u> | Start | | | | | | | | |
| At 40- by 80-Foot Wind Tunnel | 10:30 | 3:40 | 3:10 | 2:30 | 2:00 | 1:30 | 12:00 Lunch | 11:30 | 11:00 |
| <u>Aerophysics</u> | | Start | | | | | | | |
| At Hypervelocity Air Flow Apparatus | 11:00 | 10:30 | 3:40 | 3:10 | 2:30 | 2:00 | 1:30 | 12:00 Lunch | 11:30 |
| <u>Aerodynamic Heating</u> | | | Start | | | | | | |
| At Low Density and Heat Transfer Wind Tunnels | 11:30 | 11:00 | 10:30 | 3:40 | 3:10 | 2:30 | 2:00 | 1:30 | 12:00 Lunch |
| <u>Hypervelocity and Entry Research Techniques</u> | | | | Start | | | | | |
| At Atmosphere-Entry Simulator and Ballistic Range | 12:00 Lunch | 11:30 | 11:00 | 10:30 | 3:40 | 3:10 | 2:30 | 2:00 | 1:30 |
| <u>Stability During Atmosphere Entry</u> | | | | | Start | | | | |
| At Supersonic Free Flight Wind Tunnel | 1:30 | 12:00 Lunch | 11:30 | 11:00 | 10:30 | 3:40 | 3:10 | 2:30 | 2:00 |
| <u>Flight Research for Space Craft</u> | | | | | | Start | | | |
| By NACA Langley Aeronautical Laboratory | 2:00 | 1:30 | 12:00 Lunch | 11:30 | 11:00 | 10:30 | 3:40 | 3:10 | 2:30 |
| At 11- by 11-Foot Transonic Wind Tunnel | | | | | | | | | |
| <u>Space Propulsion Systems</u> | | | | | | | Start | | |
| By NACA Lewis Flight Propulsion Laboratory | 2:30 | 2:00 | 1:30 | 12:00 Lunch | 11:30 | 11:00 | 10:30 | 3:40 | 3:10 |
| At 6- by 6-Foot Supersonic Wind Tunnel | | | | | | | | | |
| <u>Piloting Problems During Entry</u> | | | | | | | | Start | |
| At Flight Research Laboratory | 3:10 | 2:30 | 2:00 | 1:30 | 12:00 Lunch | 11:30 | 11:00 | 10:30 | 3:40 |
| <u>Supersonic Airplanes</u> | | | | | | | | | Start |
| At 8- by 7-Foot Supersonic Wind Tunnel | 3:40 | 3:10 | 2:30 | 2:00 | 1:30 | 12:00 Lunch | 11:30 | 11:00 | 10:30 |

