# NACA-LEWIS FLIGHT PROPULSION LABORATORY INSPECTION

June 2 - 4, 1954

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MEMORANDUM For Mr. Willson H. Hunter

Subject: Inspection to be held June 2, 3, and 4, 1954 at Lewis

1. Will you please take charge of the inspection to be held June 2, 3, and 4? Below is a series of ideas for stops at the Inspection. I suggest that we continue as in the past to have 8 stops of average length - 35 to 40 minutes - or as is required to fill out the day.

2. The suggestions below have not as yet been submitted to NACA Headquarters for approval and are definitely tentative. I suggest that you contact the different divisions involved, in a tentative sort of way, and ask them to submit more detailed programs for the areas indicated.

1. Ames and Langley contributions
2. Operating Problems - Physics
3. PSL - ER Controls
   Blade vibrations
4. Afterburning, buzz and burning Mg. - F&C
5. Computing and Data Handling - Physics
6. Nuclear Propulsion - M&T
7. The Supersonic Engine - SWT
8. New Ideas for Compression - C&T
9. Engine Structures - M&T
10. Fundamentals of Combustion - F&C

Abe Silverstein
Associate Director

AS: mmns
The National Advisory Committee for Aeronautics extends a cordial invitation to Government officials and key personnel in aeronautics to attend the 1954 Triennial Inspection of the NACA Lewis Flight Propulsion Laboratory Cleveland, Ohio

Wednesday, June 2, 1954    Thursday, June 3, 1954
or
Friday, June 4, 1954
at 9:30 a.m., EDT
(Identical programs each day)
The 1954 Triennial Inspection of the NACA Lewis Flight Propulsion Laboratory will be held at Cleveland, Ohio, in three separate sections on the dates shown. This Inspection will afford interested Government officials and key personnel in aeronautics an opportunity to learn at firsthand of recent progress in research in the field of aircraft propulsion at the NACA Lewis Laboratory and also some of the latest progress in research at the Langley and Ames Laboratories of NACA. Demonstrations will also be made of new research facilities and techniques.

The large number of guests expected to attend will make it impracticable for the NACA to arrange for transportation or hotel accommodations. The following hotels have agreed, however, to accommodate NACA Inspection guests so identifying themselves, for rooms on nights preceding the inspection dates, provided reservations are requested before May 25, 1954:

- Cleveland Hotel
  Public Square and Superior Avenue
- Carter Hotel
  1012 Prospect Avenue

Special bus transportation will be provided, leaving from the Cleveland Hotel and the Carter Hotel at 8:30 a.m., June 2, 3, and 4. These busses will transport guests to and around the Laboratory and return them to the hotels about 5:30 p.m.

Those motoring are requested to plan to arrive at the Laboratory Administration Building on the west side of the airport by 9:10 a.m. Ample parking facilities will be available. For guests arriving by commercial air transport, NACA busses will be available from 8:30 to 9:30 a.m. for transportation to the Laboratory Administration Building. Guests arriving by Government or private plane are requested to plan to land on the Cleveland Municipal Airport by 9:00 a.m. and taxi to the NACA Hangar on the northwest corner of the airport.

Attendance is limited to guests registered in advance. Registrations will be made only upon acceptance in writing of this invitation. Attendance is also limited to American citizens.

Please return the enclosed acceptance form as soon as convenient, to:

EDWARD R. SHARP, Director,
Lewis Flight Propulsion Laboratory,
National Advisory Committee for Aeronautics,
21000 BROOKPARK ROAD, CLEVELAND 11, OHIO.

For telephone inquiries, call either:

Cleveland, Ohio, Lewis Laboratory, Winton 1-6620 (Mrs. M. L. Gosney), or Washington, D. C., NACA Headquarters, Liberty 5-6700, Extension 63976.
Confirmation of Registration to attend the 1954 Triennial Inspection of the
NACA LEWIS FLIGHT PROPULSION LABORATORY
West Side of Cleveland Municipal Airport, Cleveland, Ohio

To: .................................................................................................................................

From: EDWARD R. SHARP, Director,
Lewis Flight Propulsion Laboratory,
National Advisory Committee for Aeronautics,
21000 Brookpark Road, Cleveland 11, Ohio

(Date)

To: .................................................................................................................................

(Name)

(Title)

(Organization)

(Address)

Registration has been made for the following representatives to attend the Lewis Inspection on the dates indicated. Please inform these representatives that their registrations are confirmed.

<table>
<thead>
<tr>
<th>June 2, 3, or 4</th>
<th>First Choice</th>
<th>Second Choice</th>
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<tbody>
<tr>
<td>(1)</td>
<td>(Name)</td>
<td>(Title)</td>
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</table>

Arrivals will be expected as follows:

Guest No.  

By NACA bus, leaving from the front of the Hotel Carter at 8:30 a.m.

By private auto, NACA Administration Building, West Side of Municipal Airport.

By private or government aircraft, taxiing to NACA Hangar, northwest corner of Municipal Airport.

By NACA bus from Municipal Airport.

(Signature) .......................................................... E. R. SHARP, Director, NACA Lewis Lab.

U.S. GOVERNMENT PRINTING OFFICE 202630
Acceptance of Invitation to attend the 1954 Triennial Inspection of NACA LEWIS FLIGHT PROPULSION LABORATORY
West Side of Cleveland Municipal Airport, Cleveland, Ohio

To: EDWARD R. SHARP, Director,
Lewis Flight Propulsion Laboratory,
National Advisory Committee for Aeronautics,
21000 Brookpark Road, Cleveland 11, Ohio

FROM: .......................................................... ..........................................................

(Date)

First Choice Second Choice

Wednesday, June 2, 1954 No No

Thursday, June 3, 1954 No No

Friday, June 4, 1954 No No

My arrival will be as follows:

By NACA bus, leaving from the front of the Hotel Carter at 8:30 a.m.
By private auto, NACA Administration Building, West Side of Municipal Airport.
By private or government aircraft, taxiing to NACA Hangar, northwest corner of Municipal Airport.
By NACA bus from Municipal Airport.

I am an American citizen.

(Signature)
LEWIS FLIGHT PROPULSION LABORATORY
1954 INSPECTION
LUNCHEON & REFRESHMENTS

June 4, 1954
Luncheon will be served at 1:00 pm

LEWIS FLIGHT PROPULSION LABORATORY
1954 INSPECTION
LUNCHEON & REFRESHMENTS

June 3, 1954
Luncheon will be served at 1:00 pm

LEWIS FLIGHT PROPULSION LABORATORY
1954 INSPECTION
LUNCHEON & REFRESHMENTS

June 2, 1954
Luncheon will be served at 1:00 pm
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Location</th>
<th>Red</th>
<th>White</th>
<th>Blue</th>
<th>Gold</th>
<th>Green</th>
<th>Brown</th>
<th>Tan</th>
<th>Grey</th>
</tr>
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<tbody>
<tr>
<td>8:30 a.m.</td>
<td>Buses leave Hotels Cleveland and Carter</td>
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<tr>
<td>9:15 a.m.</td>
<td>Registration at NACA Administration Building Lobby</td>
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<tr>
<td>9:50 a.m.</td>
<td>Welcome and Orientation Talks in Auditorium and Room 219</td>
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<tr>
<td>10:20 a.m.</td>
<td>Leave Administration Building in Buses by color groups:</td>
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<tr>
<td>11:00</td>
<td>FULL SCALE ENGINE RESEARCH</td>
<td>Propulsion Systems Lab. Shop &amp; Access Bldg.</td>
<td>11:00</td>
<td>11:50</td>
<td>Start</td>
<td>2:05</td>
<td>2:40</td>
<td>4:05</td>
<td>3:30</td>
<td>12:25</td>
</tr>
<tr>
<td>11:50</td>
<td>STRUCTURAL EFFECTS OF AERODYNAMIC HEATING</td>
<td>8- by 6-foot Supersonic Wind Tunnel</td>
<td>R</td>
<td>12:25</td>
<td>11:00</td>
<td>2:40</td>
<td>4:05</td>
<td>R</td>
<td>2:05</td>
<td>Start</td>
</tr>
<tr>
<td>11:50</td>
<td>COMBUSTION AND FUELS RESEARCH</td>
<td>Engine Research Building</td>
<td>2:05</td>
<td>2:40</td>
<td>4:05</td>
<td>R</td>
<td>12:25</td>
<td>11:00</td>
<td>Start</td>
<td>R</td>
</tr>
<tr>
<td>12:25</td>
<td>AIRCRAFT OPERATING PROBLEMS RESEARCH</td>
<td>Flight Hangar</td>
<td>2:40</td>
<td>R</td>
<td>2:40</td>
<td>R</td>
<td>11:00</td>
<td>R</td>
<td>11:00</td>
<td>R</td>
</tr>
<tr>
<td>11:50</td>
<td>FLOW VISUALIZATION TECHNIQUES</td>
<td>Instrument Research Building</td>
<td>3:30</td>
<td>4:05</td>
<td>2:05</td>
<td>Start</td>
<td>11:50</td>
<td>2:40</td>
<td>12:25</td>
<td>11:00</td>
</tr>
<tr>
<td>10:25</td>
<td>RESEARCH PROBLEMS IN NUCLEAR PROPULSION</td>
<td>Materials and Stresses Building</td>
<td>4:05</td>
<td>2:05</td>
<td>3:30</td>
<td>11:00</td>
<td>Start</td>
<td>12:25</td>
<td>11:50</td>
<td>2:40</td>
</tr>
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R - Refreshment Break
G - Get-together at Picnic Grounds