

CANCELLED 00-2T

AC NO: 90-53

DATE: 8 February 1971



# ADVISORY CIRCULAR

## DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

**SUBJECT:** FAA SYMPOSIUM ON TURBULENCE - EXTENSION OF RESPONSE TIME FOR  
REGISTRATION

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1. PURPOSE. This will notify the public that due to the tremendous response to the initial announcement and invitation regarding the FAA Symposium on Turbulence, hotel facilities have been expanded and the date for submitting attendance information has been extended.
2. REFERENCE. AC No. 90-52, dated 15 December 1970.
3. THE SYMPOSIUM. The FAA will convene a symposium on "Turbulence" in Washington, D. C., 22 through 24 March 1971, at the Marriott Twin Bridges Hotel. The presentations and discussions will encompass the various sources of turbulence including: Wake Turbulence, Clear Air Turbulence, Wind Shear, Thunderstorms, and Turbulence Plotting.
4. PROVISIONAL AGENDA DIGEST.

Monday, 22 March

Welcoming Remarks -- James F. Rudolph, Director, Flight Standards  
Service, FAA

Wake Turbulence - Chairman, Dr. Barnes McCormick, Penn State University

1. Film Highlights 1970 Wake Turbulence Test Program
  2. Test Program Project Members -- Joseph Tymczyszyn, FAA Engineering Test Pilot; Phil Condit, Senior Aerodynamicist, Boeing Aircraft Company; Leo Garodz, Engineer, FAA, NAFEC; and W. H. Andrews, NASA
  3. Panel Discussion - Questions and Answers
  4. Luncheon Speaker -- John H. Shaffer, Administrator, FAA
  5. Turbulence Related Accidents, Worldwide Synopsis -- D. D. Thomas, Flight Safety Foundation
  6. Aircraft Configuration Effects on Wake Turbulence -- Dr. John Olsen, Boeing Scientific Research Laboratories
  7. How the Courts Look at Wake Turbulence -- Captain R. H. Jones, Eastern Air Lines, Inc.
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8. Survey Paper, NASA Research Programs and Ground Based Detection Devices -- William McGowan, NASA, Washington
9. Panel Discussion - Air Traffic Aspects of Wake Turbulence -- FAA/Industry
10. Banquet Speaker -- Neil Armstrong, NASA

Tuesday, 23 March

Wind Shear, Clear Air Turbulence, Upsets, Thunderstorms - Chairman, Captain Robert Buck, Trans World Airlines, Inc.

1. Review of Clear Air Turbulence Programs -- Dr. Arnold Goldberg, Head, Flight Sciences Laboratory, Boeing Scientific Research Laboratories
2. Highlights of CAT Test Programs -- Neal Loving, USAF, Wright Field
3. Thunderstorms and CAT -- Captain J. B. Clark, Allied Pilots Association
4. Thunderstorms - Turbulence -- J. T. Lee, National Severe Storms Laboratory
5. Turbulence Experiences - Test Programs -- Captain Kim Scribner, Pan American World Airways, Inc.
6. The Present State of the Art of Clear Air Turbulence Problems and Research -- Professor Elmar R. Reiter, Head, Department of Atmospheric Science, Colorado State University
7. Luncheon Speaker -- Captain Paul Soderlind, Northwest Airlines, Inc.
8. CAT Airborne Detection Systems, Survey Paper -- Wilbur H. Paulsen, USAF, Cambridge Research Laboratories
9. Panel Discussion -- Captain Paul Soderlind, Northwest Airlines, Inc.; Brian Trubshaw, British Aircraft Corp.; Andre Turcat, Aero Spatiale, Paris, France; Dr. D. N. Jones, Eastern Air Lines, Inc.; Dr. Tetsuya Fujita, Professor of Meteorology, The University of Chicago; and Captain W. Melvin, Delta Air Lines
10. Inertial Systems Data Link - Weather Information -- Paul W. Kadlec, Manager of Meteorology, Continental Air Lines
11. Wind Shear -- Captain W. Melvin, Delta Air Lines
12. Infrared CAT Detection Program -- Raul Jimenez, Senior Meteorologist, Pan American World Airways, Inc.

Wednesday, 24 March

Transmission of Turbulence Data to the Cockpit -- Chairman, Newt Lieurance, NOAA

1. PIREPS and Enroute ATIS in the ATC System -- William H. Boatright, Victor Kowalczyk, and Robert Meier, FAA
2. Turbulence Information in the Weather System -- Frank Burnett, NOAA

3. Airline Panel - Current and Future Turbulence Plot Procedures --  
General J. George, Eastern Air Lines, Inc.  
Joseph Browne, Trans World Airlines, Inc.  
D. F. Sowa, Northwest Airlines, Inc.  
W. B. Beckwith, United Air Lines  
John Karamanian, Air Wisconsin
4. Summary by Captain Paul Soderlind, Northwest Airlines, Inc.
5. ATTENDANCE. Accommodations for the symposium may be assured by advance registration. Persons planning to attend should promptly submit their name, title, mailing address, and organization to Federal Aviation Administration, 800 Independence Avenue, S. W., Washington, D. C. 20590, attention: FS-60, telephone number: 202 426-8241.



Director, Flight Standards Service