

AIAA THIRD BIENNIAL AEROSPACE POWER SYSTEMS CONFERENCE

BELLEVUE STRATFORD HOTEL

SEPTEMBER 1-4, 1964

PHILADELPHIA, PA.

The AIAA Electric Power Systems Committee is organizing its third conference on aerospace power systems. The purpose of the conference is to provide a comprehensive presentation of the technical status of aerospace power systems and to provide a forum for the discussion of the most significant problems confronting the industry. The major theme of the meeting will be systems engineering technology. Particular emphasis will be placed on the definition of mission and vehicle power requirements and on application studies to meet these requirements. Advanced concepts that have received serious study may be presented.

The first two conferences were held in Santa Monica by the American Rocket Society and were outstandingly well received by the profession. The third conference will continue this tradition with the meeting in Philadelphia marking the beginning of a pattern of holding alternate meetings on the east and west coasts in order to serve more fully the technical community.

The high standard of papers presented in the previous meetings will be maintained. Papers that make a contribution of significant, new engineering information on system development will be selected. A clear discussion of outstanding engineering problems is desired.

Presentation of papers will be 15 to 20 minutes. Preprints of the papers will be available at the meeting, and a Progress Series volume will be published following the conference in which the papers may be amplified.

Interested contributors should submit 500 to 1000 word abstracts, in triplicate, to the appropriate session chairman by **January 30, 1964**. Classified papers will be accepted where noted. Rough-draft manuscripts of accepted papers will be due April 17, 1964.

Session topics and chairmen are as follows:

Nuclear Power System Requirements and Application Studies (SECRET)

G. M. Anderson
Division of Reactor Development
Atomic Energy Commission
Washington 25, D. C.

Solar and Chemical Power System Requirements and Application Studies

Robert L. Cummings, 86-1
NASA Lewis Research Center
21000 Brookpark Rd.
Cleveland 35, Ohio

Nuclear Power System Development (including Power Conditioning) (SECRET)

Joseph D. Lafleur Jr.
Division of Reactor Development
Atomic Energy Commission
Washington 25, D. C.

Solar Power System Development

Walter C. Scott
NASA Headquarters
Washington, D. C. 20546

Chemical Power System Development—Fuel Cells (Cosponsored by the technical committee on energy sources of the PTG on Electron Devices, IEEE)

H. P. Meissner
Department of Chemical Engineering
Massachusetts Institute of Technology
Cambridge 39, Mass.

Chemical Power System Development—Dynamic, MHD, and Batteries

Richard B. Ferguson
NASA Manned Spacecraft Center
Ellington Air Force Base, Texas

Please be sure that the following data are included in the abstract: 1) a concise statement of the problem (and possibly its genesis), or objective covered; 2) an indication of the scope and methods of approach coupled with a statement of what is considered new or a contribution to the art; 3) a summary of important conclusions with a statement as to whether the material is new or whether similar results have been, or may be, presented or published elsewhere; 4) a brief statement of data used to substantiate conclusions, and free-hand sketches of major figures to be used; 5) author(s) name, title, company affiliation, including department or section, and address; and 6) complete title of paper proposed.

General Chairman:
J. Ed Taylor
Thompson Ramo Wooldridge Inc.

Arrangements Chairman:
David L. Purdy
General Electric Company

AIAA MILITARY AIRCRAFT SYSTEMS AND TECHNOLOGY MEETING

(Secret)

SEPTEMBER 21-23, 1964

WASHINGTON, D. C.

Under the sponsorship of several related AIAA Technical Committees and the Research and Technology Division, Air Force Systems Command-U. S. Air Force, and the Bureau of Naval Weapons, Navy Department, the American Institute of Aeronautics and Astronautics is pleased to announce a three-day classified *Secret* meeting of simultaneous sessions on Military Aircraft Systems and Technology.

The meeting will be planned to present requirements for military aircraft systems, to discuss and review the technologies available and needed, and to analyze our capabilities.

The objectives of the meeting are 1) to review planned military aircraft systems and requirements; 2) to review significant technologies unique to and required for such systems; and 3) to provide analyses of the impact of the technologies on military aircraft systems design as categorized below:

Category of Aircraft Systems

A. Long-Range Strike and
Reconnaissance

Representative Aircraft Systems

(L)AMP
RX
RS-70
MPLE
X-21

Organizer

Harry Drell
Lockheed-California Company
Burbank, Calif.

B. Tactical V/STOL	ADO-12 VZ-11 VZ-12 COIN P-1127 NSA	Richard F. Hoener Code ASRMS Flight Dynamics Laboratory Aeronautical Systems Division Wright-Patterson Air Force Base, Ohio
C. Tactical CTOL	F-111B E2A F-111A VAX VAL	Frederic M. Gloeckler Director, Weapons Systems Analysis Division Bureau of Naval Weapons Washington, D. C.
D. Special Purpose and ASW	VSX Adv. Seaplane HSS-2	Captain I. K. Blaugh, U. S. Navy Bureau of Naval Weapons Washington, D. C.
E. Support	XC-142 CX-6 X-22 X-19 HHX LOH	Charles H. Zimmerman Chief Engineer Director of Research and Development U. S. Army Material Command TEMPO 7 Washington, D. C.
F. Hypervelocity	X-15 X-12 A/S Plane ASSET	Robert B. Hildebrand The Boeing Company Box 3707 Mail Stop 13-12 Seattle 24, Wash.

All abstracts should be 500 to 1000 words in length and should be submitted in triplicate to the appropriate organizer listed in the above categories. The paper will be accepted tentatively or rejected on the basis of the abstract. Final acceptance will be based on a review of the first draft manuscript.

All abstracts should contain the same information as requested in the other Calls for Papers in this issue. The deadline for abstracts is **February 21, 1964**.

The Meeting Co-Chairmen are:

Laurence P. Greene
North American Aviation, Inc.

Major General Marvin E. Demler
U. S. Air Force

Calendar of Forthcoming AIAA Meetings

Date	Meeting	Abstract Deadline
1964		
Jan. 20-22	AIAA Aerospace Sciences Meeting, New York, N.Y.	Past
Jan. 27-29	SIAM/AIAA/IMS/US Naval Post Graduate School—Conference on Control and System Optimization, Monterey, Calif.	Past
Jan. 29-31	AIAA Solid Propellant Rocket Conference, Palo Alto, Calif.	Past
March 9-10	AIAA Aerodynamics Testing Conference, Washington, D.C.	Past
April 1-2	MIT/AIAA/IEEE/ASME Engineering Aspects of Magnetohydrodynamics Meeting MIT, Cambridge, Mass.	Past
April 1-3	AIAA 5th Annual Structures and Materials Conference, Riviera Hotel, Palm Springs, Calif.	Past
May 4-6	AIAA Aerospace Propulsion Meeting, Cleveland, Ohio	Past
May 11-13	IEEE 16th Annual National Aerospace Electronics Conference, Dayton, Ohio	Past
May 25-27	AIAA General Aviation Aircraft Design and Operations Meeting, Wichita, Kan.	Past
May 26-28	SAE/AIAA/CASI 2nd International Forum for Air Cargo, Montreal, Canada	Past
June 2-4	AIAA/IEEE/ISA National Telemetry Conference, Los Angeles, Calif.	Jan. 1, 1964
June 29-July 2	AIAA 1st Annual Meeting and Technical Display, Washington, D.C.	Past
June 29-July 1	SAE/ASME/AIAA Aerospace Reliability and Maintainability Conference, Washington, D.C.	Past
Aug. 10-12	AIAA Transport Aircraft Design and Operations Meeting, Seattle, Wash.	Jan. 6, 1964
Aug. 24-26	AIAA Astrodynamics, Guidance, and Control Conference, Los Angeles, Calif.	Past
Aug. 24-28	4th Congress of the International Council of the Aeronautical Sciences, Paris	
Aug. 31-Sept. 2	AIAA Electric Propulsion Conference, Philadelphia, Pa.	Jan. 24, 1964
Sept. 1-4	AIAA 3rd Biennial Aerospace Power Systems Conference, Philadelphia, Pa.	Jan. 30, 1964
Sept. 7-13	XVth International Astronautical Congress, Warsaw, Poland	April 1, 1964
Sept. 21-23	AIAA Military Aircraft Systems and Technology Meeting, Washington, D.C.	Feb. 21, 1964
Oct. 12-14	AIAA Entry Technology Conference, Williamsburg, Va.	March 6, 1964
Oct. 12-15	ANS/AIAA 2nd Nuclear Aerospace Propulsion Conference (tentative)	
Oct. 26-27	AIAA/CASI Joint Meeting, Ottawa, Canada	April 15, 1964
Nov. 4-6	AIAA/NASA 3rd Manned Space Flight Meeting, Houston, Texas	March 27, 1964
Nov. 16-17	AIAA Space Simulation Testing Conference, Pasadena, Calif.	April 10, 1964