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## **Preface**

The Spacecraft Charging Technology Conference was held at the USAF Academy from **27-29 October 1976**. The Conference provided the initial opportunity for an exchange of results from the **AF/NASA** Spacecraft Charging Technology Program. This program **is** coordinated by the **AFSC(DL)/NASA(OAST)** Space Research and Technology Review Group. The Review **Group** coordinates interdependent technology programs between **the** two agencies. At the Conference, **USAF**, NASA, industry and university groups working in the spacecraft charging technology area were able to present their results. Spacecraft charging technology encompasses a broad based technology effort, composed of expertise spanning the spectrum from geophysics to spacecraft design engineering. The Conference provided a medium for a comprehensive presentation of results **from** programs in these diverse disciplines. The technology base formed at the Conference, and contained in this document, has immediate and direct application to design and test requirements for on-going and planned **USAF**, NASA, and industry space systems.

We would like to thank Col. John E. Brooke, Assistant Director of Science and Technology, **USAF** Systems Command, and Dr. Robert E. Smylie, Acting Associate Administrator for Aeronautics and Space Technology, National Aeronautics and Space Administration, for their approval and endorsement of the Conference. C. Pike would like to thank Col. Bernard S. Morgan, Jr., Commander of the USAF Geophysics Laboratory, USAF Systems Command, for his encouragement and for his support of the Conference. We would also like to thank Lt. Gen. James R. Allen, Superintendent, USAF Academy, for supporting the Conference, including arrangements for accommodations, transportation, meals and facilities,

and Brig. Gen. William T. Woodyard, Dean of Faculty, **USAF** Academy, for his welcoming address. In particular, thanks are extended to Capt. Mark Tarreano, Directorate of Conferences, **USAF** Academy, for his outstanding support at the Conference. Members of the Conference Program Committee are Capt. M.H. Burh, Dr. M. L. Minges, Dr. A. Rosen, Dr. R. W. Rostrnn, and Dr. E.C. Whipple.

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