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The Boeing Company  
Seattle, Washington  
Chairman

CLAUDE McANALLY  
Martin Marietta Corporation  
Denver, Colorado  
Vice-Chairman

FRAN LaPIERRE  
Naval Weapons Center  
China Lake, California  
Secretary-Treasurer

## TELEMETERING STANDARDS COORDINATION COMMITTEE

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Harris Electronic Systems  
Melbourne, Florida

BURT ELLIOTT  
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Danbury, Connecticut

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Jet Propulsion Laboratory  
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Teledyne Telemetry  
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WILLIAM THRELKELD  
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NASA  
Huntsville, Alabama

WARNER MILLER  
Goddard Space Flight Center  
NASA  
Greenbelt, Maryland

### TWENTIETH ANNUAL REPORT OF THE TELEMETERING STANDARDS COORDINATION COMMITTEE by Claude McAnally, TSCC Vice-Chairman 1981-1982

Introduction. The Telemetering Standards Coordination Committee (TSCC) is chartered to serve as a focal point to represent the Telemetering Community. It serves to: a) receive, coordinate and disseminate information and b) recommend and endorse standards, methods and procedures to users, manufacturers and supporting agencies.

The TSCC is organized to: a) determine what standards are in existence and published, b) determine the technical adequacy of planned and existing standards, c) determine the need for additional standards and d) direct the derivation of new standards.

To perform these tasks, the committee is composed of 14 members with approximately equal representation from industry and from government and/or not-for-profit organizations.

The TSCC was organized in 1960 under the sponsorship of the National Telemetering Conference (NTC). Since 1967, the TSCC has been under the sponsorship of the International Telemetering Conference (ITC) and the Instrument Society of America (ISA). The Annual Reports of the TSCC, since the year 1967, can be found in the NTC and the ITC Conference Proceedings.

Committee Activities. The primary area of activity for the Standards Committee during the current year was again concentrated heavily in the area of PCM. An ad hoc committee, consisting of Terry Strahley and Bill Threlkeld, formed in 1979, studied and prepared

a guidelines report for the use of NRZ, Pseudo-Random Noise NRZ (PRN-NRZ) and Bi- $\phi$  Codes when used for high density digital recording, RF transmission, and other band limited applications. In 1980, this committee was requested to expand this task to include ROM randomizing. A presentation on Secure Telemetry was given at NOSC by Mr. Gary Davis of the Naval Weapons Center. Committee activities also focused on NASA trends in Packet Telemetry, representing the baseline concept for spacecraft-to-ground data communications within the Modular Data Transport System element of the NASA End-to-End Data System program.

Committee business activities conducted during the October 14th, 1980, meeting in San Diego included the election of Verne Jennings to Chairman, Claude McAnally to Vice-Chairman and Fran LaPierre to Secretary-Treasurer. Hugh Pruss and Bob McElhiney were re-elected to new five-year terms. Adrian Hooke, of the Jet Propulsion Laboratory, was elected to full membership in the committee. Warner Miller, of the Goddard Spaceflight Center, was elected to full membership replacing Chuck Trevathan. Terry Straehley, of Straehley Associates, was elected to alternate member for Hugh Pruss.

Respectfully submitted,

Claude W. McAnally, Vice-Chairman  
Telemetry Standards  
Coordination Committee  
August 13, 1981