

REPORT OF IEEE/AESS GYRO AND ACCELEROMETER PANEL

March 2002

Panel Activity

Std. 528-2001, "IEEE Standard for Inertial Sensor Terminology", and IEEE Std. 836-2001, "IEEE Recommended Practice for Precision Centrifuge Testing of Linear Accelerometers", which were both substantial revisions of the previous standards have been published. In the latter case a dispute with the IEEE as to the use of a non-SI unit, *g*, resulted in only a two year validity. This has yet to be resolved, but is felt by members as a unwarranted attempt to legislate standard practice.

We continue work on the following documents:

P1559 "Standard for Inertial Systems Terminology"
P1431 "Standard Specification Format Guide and Test Procedure for Coriolis Vibratory Gyroscopes"
P1554 "Recommended Practice for Inertial Sensor Test Equipment, Instrumentation, Data Acquisition and Analysis"

Officers

At the November 2001 meeting, the following were elected as officers for 2002:

Panel Chair	Sid Bennett
Panel Vice Chair	Randall Curey
Accelerometer Committee Chair	Dr. Michael E. Ash
Gyro Committee Chair	Leroy O. Thielman

Mike Ash was re-appointed as the IEEE Liaison Member for the year 2001

Objectives

The following document tasks and priorities were established by the Panel at the January meeting:

Panel

1. Revise Bylaws to conform to IEEE format.
2. Continue work of P1559, "IEEE Standard for Inertial Systems Terminology".

Gyro Committee

1. Complete P1431, "IEEE Specification Format Guide and Test Procedure for Coriolis Vibratory Gyros," and distribute for Industry Survey.
2. Begin revision of IEEE Std. 647, "IEEE Specification Format Guide and Test Procedure for Single Axis Laser Gyros."
3. Participate in the development of P1554, "IEEE Recommended Practice for Inertial Sensor Test Equipment, Instrumentation, Data Acquisition, and Analysis."
4. Recommend appropriate action on reaffirmation of IEEE Std. 952, "IEEE Specification Format Guide and Test Procedure for Fiber Optic Gyros."

5. Continue to compile new or revised sensor terminology to be incorporated in the next revision of Std 528, "IEEE Standard for Inertial Sensor Terminology."

Accelerometer Committee

1. Continue the development of P1554, "IEEE Recommended Practice for Inertial Sensor Test Equipment, Instrumentation, Data Acquisition, and Analysis."
2. Decide whether to revise Std 836-2001, "IEEE Recommended Practice for Precision Centrifuge Testing of Linear Accelerometers," to have metric units in text with g units in footnotes.
3. Continue to compile new or revised sensor terminology to be incorporated in the next revision of Std 528, "IEEE Standard for Inertial Sensor Terminology."

Meetings

Since September 2001, the Panel has held 2 meetings:

Dates	Venue	Attendance
15/16 November 2001	Alamagordo, NM	10
30/31 January 2002	San Diego, CA	8

Meeting attendance has been lower than usual. In particular, the meeting held in January in conjunction with the ION Winter meeting was poorly attended, perhaps due to its West Coast location when we usually meet in Florida. The next meeting is in conjunction with PLANS, and is also a month later than usual. Our May 2002 meeting is in St. Petersburg, Russia in conjunction with the international symposium on navigation.

Membership

The membership lists are in the process of being updated and will published in conjunction with the minutes of the April meeting.

Other

The Standards Association AudCom (Audit Committee) has objected to our bylaws on the basis that it does not conform to their new model bylaw concept. The panel is reviewing the model bylaws, but I have also requested the Chair of AudCom to review the situation. On the basis of my participation as a new member of the Standards Board, I learned that we were one of the few committees that responded to the request for information. The Standards Board is still feeling its way in this area, and have also replaced their previous law firm. So this will probably drag on.

Respectfully submitted,

Sid Bennett

Chair, IEEE/AESS Gyro and Accelerometer Panel