

Attachment 1.A

REPORT OF THE IEEE/AESS GYRO AND ACCELEROMETER TECHNICAL PANEL

March 2003

Panel Activity

Std 671, "IEEE Standard Specification Format Guide and Test Procedure for Non-gyroscopic Inertial Angular Sensors: Jerk, Acceleration, Velocity, and Displacement", and Std 952, "IEEE Standard Specification Format Guide and Test Procedure for Single Axis Interferometric Fiber Optic Gyros" were reaffirmed by electronic ballot.

Std 1293, "IEEE Standard Specification Format Guide and Test Procedure for Linear, Single-Axis, Non-gyroscopic Accelerometers" has reached the end of its five year term. An electronic ballot has been initiated to reaffirm it.

P1431, "IEEE Standard Specification Format Guide and Test Procedure for Coriolis Vibratory Gyros" completed the industry survey phase and is close to being published.

P1554, "IEEE Recommended Practice for Inertial Sensor Test Equipment, Instrumentation, Data Acquisition, and Analysis" is in the industry survey phase, which will last until the July Meeting.

A PAR is in work that will allow the Panel to update Std 836, "IEEE Recommended Practice for Precision Centrifuge Testing of Linear Accelerometers" to resolve the dispute of using a non-SI unit, g. Std 836 was revised in 2001 but its validity was limited to two years without the possibility of reaffirmation.

The Bylaws have been completely revised to conform to the IEEE Standards Association Model Operating Procedures. The comments received from the secretary of Aud-Com have been addressed. The revised Bylaws are to be reviewed by the Aud-Com committee at their March 2003 meeting.

The Panel continues to work on the following documents:

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

Officers

At the November 2002 meeting, the following officers were elected for the year 2003:

Panel Chair	Randall Curey
Panel Vice Chair	Cleon Barker
Accelerometer Committee Chair	Dr. Michael Ash
Gyro Committee Chair	Leroy Thielman

Mike Ash was re-appointed as the IEEE Liaison for the year 2003.

Objectives

The Panel established the following objectives at the January 2003 meeting:

Panel

1. Finish revision of bylaws to conform to IEEE format.
2. Continue working on P1559, "IEEE Standard for Inertial Systems Terminology."
3. Expand membership (especially into the user market).

Gyro Committee

1. Publish P1431, "IEEE Specification Format Guide and Test Procedure for Coriolis Vibratory Gyros."
2. Continue revision of IEEE Std. 647, "IEEE Specification Format Guide and Test Procedure for Single Axis Laser Gyros."
3. Upon completion of IEEE Std. 647, make the same revisions, as appropriate, to IEEE Std. 952, "IEEE Specification Format Guide and Test Procedure for Fiber Optic Gyros."
4. 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. Finish P1554, "IEEE Recommended Practice for Inertial Sensor Test Equipment, Instrumentation, Data Acquisition, and Analysis."
2. Revise Std. 836-2001, "IEEE Recommended Practice for Precision Centrifuge Testing of Linear Accelerometers" to fix g units.
3. Reaffirm Std. 1293-1998, "IEEE Standard Specification Format Guide and Test Procedure for Linear, Single-Axis, Non-gyroscopic Accelerometers."
4. 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 2002, the Panel has held three meetings:

Dates	Location	Attendance
21/22 November 2002	Tucson, AZ	8
13/14 January 2003	Fort Walton Beach, FL	7
13/14 March 2003	Woodland Hills, CA	10

The May 2003 meeting will be in Cambridge, MA.

Membership

After the call for renewal, the status is:

32 Members (11 Producers, 12 Users, and 9 General Interest) *

36 Info-Only (12 Producers, 11 Users, and 13 General Interest)

* Includes two new members

Other

Mike Ash on behalf of the Panel wrote a letter of appreciation thanking Sid Bennett for his 10 years of service (1993-2002) as Chair of the panel.

Information was provided to update the AESS Gyro and Accelerometer Technical Panel web page, which is located at the following link: <http://ewh.ieee.org/soc/aes/Gyro-and-Accel-Panel.html>.

Respectfully submitted,

Randall Curey

Chair, IEEE/AESS Gyro and Accelerometer Panel