



# Gyro and Accelerometer Panel Technical Operations Panel Report

*Jason Bingham*

*Chair, IEEE/AESS Gyro and Accelerometer Panel*

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The Gyro and Accelerometer Panel (GAP) is composed of representatives of industry, government laboratories, educational institutions and professional societies, and who are active in the domain of inertial sensors and systems. Its main objectives are:

- Create and maintain terminology, specification format, and test procedure standards for components and systems designed to detect or measure inertial motion.
- Promote understanding of inertial components and systems.
- Establish accepted ways to describe inertial technologies and products.
- Create a common language that can be used by the inertial industry.

The GAP currently has two working groups:

1. IEEE Std 836 Working Group

- **Purpose:** Revision of IEEE Std 836 to align with current industry technologies and practices.

2. IEEE Std 1431 Working Group

- **Purpose:** Revision of IEEE Std 1431 to align with current industry technologies and practices.

The GAP held bimonthly meetings to address the following standards:

- **IEEE Std 836** *Recommended Practice for Precision Centrifuge Testing of Linear Accelerometers*
- **IEEE Std 1431** *IEEE Standard for Specifying and Testing Coriolis Vibratory Gyros*

## IEEE Std 836 Working Group

The working group is working to revise the standard to address technical issues and bring it inline with current industry practices. Work on this standard is nearing completion. Editorial updates are underway and an internal review will be performed in the coming months.

## IEEE Std 1431 Working Group

The working group is working to revise the standard to address technical issues and bring it inline with current industry practices. The ballot group has been formed, and balloting is open until 6 June 2026.



## Research and Innovation

None



## Conference Contributions

None



## Publication Activities

None



## Education Activities

None



## Industry Engagement and Standards

- **IEEE Std 836** *Recommended Practice for Precision Centrifuge Testing of Linear Accelerometers*
- **IEEE Std 1431** *IEEE Standard for Specifying and Testing Coriolis Vibratory Gyros*

- The GAP plans to complete the revision of IEEE Std 836 in 2026 will a ballot in 2027.
- IEEE Std 1431 is in ballot and will be complete by the end of 2026 depending on the ballot results.
- After each standard is complete the GAP will identify other standards that need revision and submit PARs for that work. The GAP has identified standard 1554 as the next in line for revision.
- The GAP is also investigating the development of a future standard to address the recommended practice for specifying inertial navigation systems.