

VP Technical Operations Report

20 January 2012

Officers Meeting
Theodora Saunders

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Technical Panel
Gyro and Accelerometer
Radar Systems
Space Systems
Target Tracking Systems (New)
Aerospace Systems Integration Engineering
Aerospace Control & Guidance Systems
SAR and IED Detection
Aerospace Workforce (New)
Standards (New)
Cyberspace / Cyber Security Panel
UAV Panel

To Be Updated
to reflect the new TPs

<http://www.ieee-aess.org/main/index.php/technical-committies>

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- Established New
 - Quality Of Life (*Ruggieri, Stallo*)
 - *Will be posted on the AES Web Page*
- Established Modified Expanded Scope
 - Radar TP (*Davis*)
 - *Will be posted on the AES Web Page*
- Proposed New TP
 - Avionics (*Kostek, Hitt, Rankin*)
 - *Operating plan in work*

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- **Avionics TP**

- **Scope**

- The TP focus will be on **research, development, design, application, and test of avionics (navigation, display, surveillance, communications)** for manned and unmanned systems.
 - The TP will also address standards development; and conference management

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- **Avionics TP Scope ...Continuation**

- Additionally, the TP will provide oversight and volunteers for the Digital Avionics Systems Conference and the Integrated Communications Navigation and Surveillance Conference.
- Both conferences address core areas of interest of this committee and AEES.

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1. TP Structure (AI) Status

- Using a basic A/C System Breakdown Structure (SBS) To Perform Gap Analysis of the Current TPs Structure/ Content and Propose Improvements as required in the BoG Spring Meeting**

2. TP Operating Plan (In work)

3. Inactive TPs

- Dissolve Process**
 - Need help to best frame this process without negative emotions**

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- Preliminary Gap Analysis
 - Potential focus areas
 - Navigation
 - Communication
 - Integrated Vehicle Health Monitoring System (IVHMS)
 - On Board and Of Board Diagnostic Systems/Prognostics
- Follow On Activity
 - Ask current TPs input
 - Have a teleconference with Avionics TP

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Other

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Senior Design Project Status

- **University Of Connecticut**
 - **Project** - Distributed Sensor Communications Aboard an Aircraft
 - **Department** - Electrical and Computer Engineering
 - **Faculty Coordinator:** Dr. John Chandy, Assoc. Dept. Head
 - **Status** – In Work
- **University Of New Haven – Completed**
 - **Project** - Remote Piloting of an Unmanned Aerial Vehicle
 - **Department** - Electrical Computer Engineering & Computer Science
 - **Faculty Coordinator** - Dr. Christopher Martinez
 - **Current Status** – Writing a report for the Systems Magazine