

DISTINGUISHED PTTI SERVICE AWARD

Presented by

**Dennis McCarthy
U.S. Naval Observatory**

to

**Joseph D. White
U.S. Naval Research Laboratory**

The Distinguished PTTI Service Award was established in 1994. There have been 15 well deserving recipients and this year is no exception.

Joe's official connection to PTTI began when he was the 1985 PTTI Technical Program Chairman; he has been a member of the PTTI Executive Committee since 1986, and served as the Chairman of the PTTI Executive Committee from 1997 until 2010.

Joe White received his B.S. in Physics from Western Kentucky University and his MS and PhD in Physics from the American University.

Joe began his tenure at the U.S. Naval Research Laboratory as a Research Physicist in the Space Applications Branch in 1973 after serving as an Officer in the Army Signal Corps at the Army Night Vision Laboratory at Ft Belvoir. He is currently the head of the Advanced Technology Section of the Space Applications Branch and his responsibilities include GPS space clock development, space GPS receivers, GPS receiver testing and calibration, applications of GPS to military timing systems, precision clock testing, and environmental testing of clocks and timing hardware.

Many of you here have worked with Joe over the years on various projects such as

- Navigation Technology Satellite (NTS) 1 Quartz Crystal clock and Experimental Rubidium flight system testing, integration and analysis
- NTS 2 Prototype Cesium clock flight development, test, integration, and analysis
- GPS Block I Cesium developmental and Pre-production program, and the Block II, IIA alternate cesium clock development and testing
- Consultation and analysis of the GPS Block IIR cesium and rubidium clock development and testing

42nd Annual Precise Time and Time Interval (PTTI) Meeting

- Development of new concepts and techniques for GPS Advanced Atomic Frequency Standards
- GPS Hydrogen Maser clock development for space and ground applications
- Development of the NRL clock test facility
- The Navy Precise Time and Time Interval (PTTI) program and USNO Master Clock Upgrade Program
- Development and testing of the military space GPS receiver
- Development of a method for absolute precision calibration of GPS receivers using GPS simulators
- Development of a method of monitoring and maintaining the timing system for the Single Channel Transponder (DSCS payload)
- Manager of the NRL GPS Block IIR and IIF Life tests.

He has authored numerous papers for the IEEE FCS, EFTF, ION, more than 25 PTTI papers, and a number of NRL Technical reports. He has served as a tutorial presenter for the ION, IEEE FCS, and PTTI.

Joe is a past member of the IEEE Frequency Control Symposium Technical Program Committee.

Joe's contributions to precision calibration, development of space receivers, and GPS clocks have benefitted many in the timing community.

And now the tables are turned and the presenter of so many past awards is now the recipient. Know that this clock is a token of the high regard of all of your PTTI colleagues and that it also carries with it the best wishes of the PTTI community. May it mark the passage of many happy hours to come. It is my pleasure on behalf of the PTTI community to present to Joe White the 2010 Distinguished PTTI Service Award.



