

ION Announces Annual Award Winners

The (US) Institute of Navigation has announced winners of 2018 Annual Awards. This took place at the ION International Technical Meeting and Precise Time and Time Interval Systems and Applications meeting held in Reston, Virginia from 28 to 31 January 2019.

The ION Annual Awards Programme is sponsored by The (US) Institute of Navigation to recognize individuals making significant contributions or demonstrating outstanding performance relating to the art and science of navigation.

Per Enge Early Achievement Award

Dr Seebany Datta-Barua received the Per Enge Early Achievement Award for outstanding contributions to the understanding of the dynamics of the ionosphere and its impacts on satellite-based navigation integrity. The Early Achievement Award is presented in recognition of outstanding contributions made early in one's career.

Superior Achievement Award

Major Clifford Lucas received the Superior Achievement Award for the organization and execution of advanced training scenarios, increasing an aircrew's joint readiness to navigate and employ in contested and degraded environments. The Superior Achievement Award is presented to an individual demonstrating outstanding accomplishments as a practicing navigator.

Distinguished PTTI Service Award

Dr Robert L Tjoelker received the Distinguished PTTI Service Award for systems engineering and technical leadership in the successful delivery of major PTTI systems to NASA's Deep Space Network, including trapped-ion atomic clocks. The Distinguished PTTI Service Award is presented to recognize outstanding contributions related to the management of PTTI systems.

Dr Samuel M Burka Award

Kimia Shamaei and Dr Zaher (Zak) M Kassas received the Dr Samuel M Burka Award for their paper *LTE Receiver Design and Multipath Analysis for Navigation in Urban Environments* published in the Winter 2018 issue of *NAVIGATION*, Journal of The Institute of Navigation, Vol. 65, No. 4, pp. 655-675. The Dr Samuel M Burka Award recognizes outstanding achievement in the preparation of a paper advancing the art and science of positioning, navigation and timing.

Captain P V H Weems Award

Dr Chris G Bartone received the Captain P V H Weems Award for sustained contributions in research, applications and teaching in the areas of electronic navigation, GNSS and antenna technologies. The Captain P V H Weems Award is presented to individuals for continuing contributions to the art and science of navigation.

Tycho Brahe Award

Professor Marek K Ziebart received the Tycho Brahe Award for outstanding innovation and leadership in the area of high precision, physics-based radiation for modelling for spacecraft orbit dynamics. The Tycho Brahe Award is given in recognition of outstanding contributions to the science of space navigation, guidance and control.

Norman P Hays Award

Karl W Shallberg received the Norman P Hays Award for significant contributions to the FAA's Wide Area Augmentation System, technical leadership in reference receiver development and anomaly/interference mitigation, and critical support to DOT's Adjacent Band Compatibility study.

The Norman P Hays Award is given in recognition of outstanding encouragement, inspiration and support contributing to the advancement of navigation.

Thomas L Thurlow Award

Marco Falcone received the Thomas L Thurlow Award for engineering contributions and leadership integral to the design of equipment used for navigation: the Galileo satnav system. The Thomas L Thurlow Award recognizes outstanding contributions to the science of navigation.

Distinguished Service Award

Dr John Raquet received the Distinguished Service Award for extraordinary service to The (US) Institute of Navigation. The Distinguished Service Award recognizes extraordinary service to The Institute of Navigation.

About ION

The (US) Institute of Navigation is a not-for-profit professional organization dedicated to advancing Positioning, Navigation and Timing (PNT). The Institute is a (US) national organization whose membership spans worldwide. Additional information about the ION can be found at: <https://www.ion.org>