ION announces annual award winners

The Institute of Navigation announced winners of its 2019 Annual Awards at the ION International Technical Meeting and Precise Time and Time Interval Systems and Applications meeting held in San Diego, California, 21 to 24 January.

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

The award winners are:

**Per Enge Early Achievement Award**
**Dr Ramsey Faragher** received this award for outstanding innovations in mobile positioning and navigation, and in particular for pioneering the revolutionary SuperCorrelation technology. The Per Enge Early Achievement Award is presented in recognition of outstanding contributions made early in one’s career.

**Distinguished PTTI Service Award**
**Pascal Rochat** received this award for advancing the state-of-the-art in high stability atomic clocks and for producing the only space-based H-maser in the world, operating on all Galileo satellites. The Distinguished PTTI Service Award is presented to recognize outstanding contributions related to the management of PTTI systems.

**Dr Samuel M Burka Award**
**Dr Jordan D Larson, Dr Demoz Gebre-Egziabher** and **Dr Jason H Rife** received this award for their paper *Gaussian-Pareto Overbounding of DGNSS Pseudoranges from CORS* published in the Spring 2019 issue of *NAVIGATION*, Journal of The Institute of Navigation, Vol. 66, No. 1, pp. 139-150. The 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 Joseph J Rushanan** received this award for sustained contributions to the design of GPS, including M-Code, the L1C signal, and the promotion of assurance concepts for all GPS users. This award is presented to individuals for continuing contributions to the art and science of navigation.
Tycho Brahe Award
Dr André Hauschild received this award for outstanding and sustained contributions in the field of GNSS-based navigation, timing and attitude determination of space vehicles. This award is given in recognition of outstanding contributions to the science of space navigation, guidance and control.

Norman P Hays Award
James J Miller received this award for exemplary leadership in establishing and sponsoring the National Space-based Positioning, Navigation and Timing (PNT) Advisory Board to serve the worldwide user community. The award is given in recognition of outstanding encouragement, inspiration and support contributing to the advancement of navigation.

Thomas L Thurlow Award
Dr Zaher (Zak) M Kassas received this award for foundational work in the theory and practice of exploiting signals of opportunity for accurate and reliable positioning, navigation and timing. This award recognizes outstanding contributions to the science of navigation.

Distinguished Service Award
Dr Suneel I Sheikh received this award in recognition of his visionary leadership in promoting positioning, navigation and timing education through the establishment, promotion and administration of the ION Satellite Division’s Autonomous Snowplow Competition. This award recognizes extraordinary service to The Institute of Navigation.

The Officers era and Member Organisations of IAIN congratulate all the new ION Award winners.