Media Release

Contact: ION National Office
Phone: (703) 366-2723

FOR IMMEDIATE RELEASE
9 A.M. EDT, SEPTEMBER 20, 2016

DR. DOROTA GREJNER-BRZEZINSKA RECEIVES KEPLER AWARD

The Institute of Navigation presents Dr. Dorota Grejner-Brzezinska with prestigious Johannes Kepler Award at the ION GNSS+ 2016 Conference

Manassas, Virginia, September 20, 2016 – The Institute of Navigation’s (ION) Satellite Division presented Dr. Dorota Grejner-Brzezinska with its Johannes Kepler Award September 16, 2016 at the ION GNSS+ Conference (Portland, Oregon) for her outstanding contributions in advancing high-accuracy GNSS/INS integrated systems, educating future navigation leaders, and for strengthening the ties between satellite navigation and geodesy.

Since the early 1990s, Dr. Grejner-Brzezinska has demonstrated sustained and significant contributions in advancing research in applications of GPS/GNSS and multi-sensor integrated systems. The widely known accumulated expertise in her field involved numerous graduate students, post-doctoral researchers and many national and international collaborators.

Early in her career, Dr. Grejner-Brzezinska developed a novel approach to computing high precision GPS orbits that demonstrated the unique capability of diurnal and semi-diurnal Earth Rotation Parameters estimation using GPS signals. This led to advanced development of NASA-sponsored new approach (P-KOD™) to precise orbit determination for Low Earth Orbiters.

In the mid-1990s, Dr. Grejner-Brzezinska and her team pioneered the development of the GPS/INS component of the first fully digital and directly georeferenced GPS/INS/CCD integrated airborne remote sensing system, AIMS™, sponsored by NASA, FDOT, Northrop Grumman, Lockheed Martin Fairchild and Trimble.

In early 2000, her research team delivered groundbreaking network-based RTK GPS software. The algorithms developed under this project, sponsored by NGS, were subsequently used to design the prototype of the NGS’s Online Positioning User Service - Rapid Static (OPUS-RS) module.

In mid-2000’s, Dr. Grejner-Brzezinska led the design and prototyping of the NGA-sponsored multi-sensor and artificial intelligence (AI) personal navigator for emergency crews and dismounted soldiers using human locomotion model for Dead Reckoning navigation. The originality of this contribution was in implementing an AI Knowledge Based System, using Artificial Neural Networks and Fuzzy Logic to
Media Release

Contact: ION National Office
Phone: (703) 366-2723

FOR IMMEDIATE RELEASE
9 A.M. EDT, SEPTEMBER 20, 2016

Dr. R. Grejner-Brzezinska, a renowned expert in navigation science, has been recognized for her contributions to the field. Her recent work includes the development of advanced geolocation technology for detecting and classifying unexploded ordnance, a novel approach to detecting clandestine nuclear explosions, and the integration of unconventional indoor 3D navigation technology into human locomotion models.

Dr. Grejner-Brzezinska's contributions have led to the establishment of professional partnerships and the organization of international symposia, which have significantly advanced the field of navigation science. She has also contributed to the education and training of navigation professionals and has been honored with several awards, including the USGIF Academic Research Award (2005 and 2015), the ION Thurlow Award (2005), and the Outstanding Achievement Award for "Pioneering contributions in developing and promoting mobile mapping technology." She is also an ION, Royal Institute of Navigation (RIN), and IAG Fellow.

The Johannes Kepler Award, the highest honor bestowed by the ION's Satellite Division, recognizes and honors individuals for their contributions to the development of satellite navigation. Dr. Grejner-Brzezinska has been named the recipient of this award for her sustained and significant contributions to the field.

About ION
The Institute of Navigation is the world’s premier professional society dedicated to the advancement of the art and science of positioning, navigation and timing. The Institute is a national organization whose membership spans worldwide. Additional information about the ION can be found at http://www.ion.org.

###