The 2014 International Conference on Unmanned Aircraft Systems, ICUAS'14, will be held in Orlando, FL, on May 27-30. Orlando is the home of the Disney World, one of the best attractions and touristic locations worldwide. May 27 will be a Workshop/Tutorial day, followed by a three-day technical Conference. Judging from the interest ICUAS has drawn over the past six years and its growth, ICUAS'14 is expected to attract the highest number of participants from academia, industry, federal/state agencies, government, the private sector, users, practitioners and engineers who wish to be affiliated with and contribute technically to this highly demanding and rapidly evolving and expanding field. Details may be found at http://www.uasconferences.org and related links. ICUAS'14 will be fully sponsored by the ICUAS Association, a non-profit organization; Information about the organization may be found at www.icuas.com. The theme of ICUAS'14 will focus on the very challenging topics of 'developing UAS standards'.

National and international organizations, agencies, industry, military and civilian authorities are working towards UAS integration into the national airspace, towards defining roadmaps of UAS expectations, technical requirements and standards that are prerequisite to their full utilization, as well as legal, policy and ethical issues. The next generation of UAS is expected to be used for a wide spectrum of civil and public domain applications. Challenges to be faced and overcome include, among others, see-and-avoid systems, sense-and-avoid systems, robust and fault-tolerant flight control systems, payloads, communications, levels of autonomy, manned-unmanned swarms, network-controlled swarms, as well as challenges related to policies, procedures, regulations, safety, risk analysis assessment, airworthiness, certification issues, operational constraints, standardization and frequency management, all of paramount importance, which, coupled with ‘smart’, 'environmentally friendly' cutting edge technologies will pave the way towards full integration of UAS with manned aviation and into the respective national airspace.

ICUAS'14 aims at bringing together different groups of qualified military and civilian representatives worldwide, organization representatives, funding agencies, industry and academia, to discuss the current state of UAS advances, and their roadmap to full utilization in military and integration in civilian domains. Focused interests of diverse groups involved in UAS research and development will be discussed. Special emphasis will be given to current and future research opportunities, and to ‘what comes next’ in terms of the essential technologies that need to be utilized to advance further UAS. Conference topics include but are not limited to:

- Airspace Control
- Airspace Management
- Airworthiness
- Air Vehicle Operations
- Authentication
- Biologically Inspired UAS
- Certification
- Control Architectures
- Energy Efficient UAS
- Environmental Issues
- Failure-Safe Systems
- Frequency Management
- Integration
- Interoperability
- Levels of Safety
- Manned/Unmanned Aviation
- Micro- and Mini-UAS
- Navigational
- Networked Swarms
- Payloads
- Path Planning
- Regulations
- Reliability of UAS
- Risk Analysis
- See-and-avoid Systems
- Security
- Sensor Fusion
- Simulation
- Smart Sensors
- Standardization
- Swarms
- Technology Challenges
- Training
- UAS Applications
- UAS Communications
- UAS Testbeds
- Use and regulatory issues (incl. brought-in)
- Use and regulatory issues (excl. brought-in)
- Use and regulatory issues (incl. brought-in)