All About Drones
August 15, 2013
8:30 – 9:45 a.m.

Agenda

8:30 am – 8:33 am  Welcome and Introduction
Level 3 B308/309
Senator Delores Kelley, MD

8:33 am – 9:17 am  Presentations and Panel Responses
Dr. Eric N. Johnson
Lockheed Martin Associate Professor of Avionics Integration, Georgia Institute of Technology

Bill English
Investigator in Charge, Major Investigations Division, Office of Aviation Safety, National Transportation Safety Board

R. Steven Justice
Director, Georgia Center of Innovation for Aerospace

Professor Morgan Cloud, Esq.
Emory University School of Law

9:17 am – 9:35 am  Legislative Panel Statement and Questions
Senator Delores Kelley
Representative Shelley Hughes, AK
Representative Lance Gooden, TX

9:35 am – 9:45 am  Audience Q&A
Faculty Bios

Legislative Panel

Moderator – **Senator Delores G. Kelley** became the first African-American to represent Baltimore County in 1994. She earlier had served one term as a Delegate representing Baltimore City. Her many legislative victories include Right to Counsel for Juveniles Arrested or Detained, Permanency for Children in Out-of-Home Placement, Mothers and Infants Health Security Act and the New Home Builders Registration Act. She serves as chair of the Senate Committee on Executive Nominations, vice chair of the Joint Health Care Delivery and Financing and NCSL Law & Criminal Justice committees. She is also a member of the Finance Committee, State Commission on Criminal Sentencing Policy, Interstate Insurance Product Regulation Commission and Maryland Council for Educator Effectiveness committees, among others. She has received the YWCA’s Racial Justice Award and the Daily Record’s Circle of Excellence for her three time recognition as one of Maryland’s Top 100 Women. In 2010, she was named Legislator of the Year by the Maryland Consumer Rights Coalition and the Maryland Chapter of the American College of Emergency Physicians and was given the Trailblazer Award by the Baltimore County NAACP. A long-time professor and Dean, Dr. Delores Kelley retired from Coppin State University in 2004. A founding member of the Harbor Bank of Maryland, she serves on the Board’s Executive Committee. She is a Past President of the Black Jewish Forum of Baltimore (BLEWS). Former Secretary of the Maryland Democratic Party, she served on the Maryland Electoral College in 2004 and as its Chair in 2008. She has earned degrees at four Universities, including a Ph.D. at the University of Maryland at College Park.

**Representative Lance Gooden** represents Henderson and Kaufman Counties in Northeast Texas. At age 30, he is one of the youngest members of the Texas Legislature. Rep. Gooden filed legislation in January officially named the "Texas Privacy Act," restricting images captured over private property by unmanned aerial vehicles. The bill also provided guidelines for use by law enforcement and other government agencies. "The Drone Bill," as it was commonly called, received bipartisan support with over two-thirds of the Texas House signing on as joint authors. Governor Rick Perry signed the bill into law in June, making Texas the second state to enact legislation restricting drones. Valedictorian of his Terrell High School class, Rep. Gooden graduated from the University of Texas in Austin with a BBA in Finance and a BA in Government. He currently serves on the Judiciary & Civil Jurisprudence, Licensing & Administrative Procedures and House Administration committees. Representative Gooden is a tax consultant in Dallas and resides in Terrell.

**Representative Shelley Hughes** has extensive legislative experience in both elected as well as private sector governmental affairs positions. Her areas of policy expertise include economic development, agriculture, energy, health care and veterans’ issues. Representative Hughes was appointed to the
legislature in the spring of 2012 by Governor Parnell to complete the term of a legislator who passed away. Representative Hughes' HCR6 identifies a positive approach to embrace the evolving technology of unmanned aircraft systems and establishes a task force to address emerging issues, including reviewing the model legislation being crafted by the Aerospace States Association. She co-chairs the task force and is working to establish the parameters for appropriate use of unmanned aircraft systems in Alaska. Before living in Palmer, Alaska, Hughes had resided off the road system in “bush” Alaska, including a 5-year stint in a cabin without running water or electricity. Her proudest achievements are her four amazing children and her favorite pastime is getting down on the floor to play with her grandsons.

Expert Panel

MORGAN CLOUD is the Charles Howard Candler professor of law at Emory University. He is a leading scholar of the Fourth Amendment and the right to privacy. He has published dozens of articles in leading scholarly journals, as well as books on constitutional criminal procedure, criminal law, pretrial litigation, and professional ethics. He has taught courses on constitutional law and other subjects at law schools throughout the United States and Europe, and has lectured widely to scholars, professional groups, and in leading law firms and accounting firms in the United States and Europe. Most recently, in June 2013, he presented a paper on Property and Privacy in the Digital Age at an international conference on privacy held at Johannes Gutenberg University in Germany. Professor Cloud practiced law as a trial lawyer and litigator in Florida and California before joining the Emory faculty. He served as a program director for the National Institute for Trial Advocacy for more than twenty years, and as chairperson of the Section on Litigation of the Association of American Law Schools. He received his BA degree from Grinnell College, an MA from the University of Iowa, and his JD from Cornell University.

BILL ENGLISH is an investigator-in-charge (IIC) in the Major Investigations Division of the Office of Aviation Safety. He has been with the National Transportation Safety Board (NTSB) since 1999, in the Operational Factors Division. He has been the IIC on numerous major aviation accidents in the US including the Continental Airlines 1404 accident in Denver, Southwest 1919 in Chicago, a US Navy contracted B707, and most recently the Asiana Boeing 777 in San Francisco. He has served as the United States Accredited Representative on investigations in China, Indonesia, Spain, Korea, England, to Brazil on the 737/Legacy midair collision, and recently to Saudi Arabia and Dubai for large cargo airplane accidents, as well as many others. Additionally, Mr. English serves as the NTSB’s resource for unmanned aircraft investigations and has been trained on the MQ-9 Predator-B, and has written the civil unmanned aircraft accident investigations manual. He worked for the FAA for 13 years as a controller and quality assurance specialist, and in the development of GPS navigation procedures. He is a certified instrument flight instructor and commercial pilot in single and multi-engine airplanes. Prior to joining NTSB he was a contributing editor to IFR Magazine. Mr. English graduated from Embry-Riddle University in Aeronautical Science and his graduate work was in Geospatial Intelligence at Penn State.

ERIC N. JOHNSON is the Lockheed Martin associate professor of avionics integration, Daniel Guggenheim School of Aerospace Engineering, Georgia Institute of Technology. He has five years of industry experience working at Lockheed Martin and Draper Laboratory and has served as faculty at Georgia Tech.
since 2001. He has performed research in adaptive flight control, aided inertial navigation, and autonomous systems. He was the lead system integrator for rotorcraft experiments for the DARPA Software Enabled Control program, which included the first air-launch of a hovering aircraft, automatic flight of a helicopter with a simulated frozen actuators, and adaptive flight control. He was the principal investigator of the Active Vision Control Systems AFOSR Multi-disciplinary University Research Initiative (MURI), which culminated in vision-based air-to-air tracking and vision-aided inertial navigation experimental validation. His most recent work has included automatic low altitude high speed flight of helicopters, indoor and outdoor vision-aided inertial navigation, and methods for sensing and avoiding obstacles and other aircraft. He received a B.S. degree from University of Washington, M.S. degrees from MIT and George Washington University, and a Ph.D. from Georgia Tech, all in Aerospace Engineering.

**R. Steven Justice** is the director of the Georgia Center of Innovation for Aerospace, responsible for accelerating Georgia aerospace companies’ growth by helping them commercialize new products, services and business models, connecting them with university research and industry expertise as well as other Georgia resources for the aerospace industry. Mr. Justice brings to this role over 30 years of diverse experience in the aerospace industry with Lockheed-Martin, Gulfstream Aerospace, Northrop, Delta Air lines, and The Ginn Group in addition to founding two Georgia based aerospace companies. Mr. Justice participated in the development, certification and support of several notable production aircraft including Lockheed Martin F-22 Raptor and C-130J Hercules as well as the Northrop B-2 “Stealth Bomber” and the Gulfstream G-IV business jet. He also led various Research & Development programs for a wide range of advanced aircraft and systems for both military and civil applications. He is a former FAA Designated Engineering Representative and is currently a Licensed Professional Engineer (Aerospace). In 2006, Mr. Justice was honored with the prestigious Red Dot Design Award by the Design Zentrum Nordrhein Westfalen in Essen, Germany for his part in the design of the innovative EOS Airline seat. In addition, he has received numerous other honors including induction in 1996 into the Georgia Institute of Technology “Council of Outstanding Young Engineering Alumni” and the 1994 American Institute of Aeronautics and Astronauts (AIAA) Distinguished Service Award. Mr. Justice is a former member of the national Board of Directors of AIAA and a current member of the Georgia Institute of Technology School of Aerospace Engineering Advisory Council and the Georgia Southern University College of Engineering and Information Technology Advisory Council.