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A Leader in Global Aviation Innovation

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The National Aviation Research and Technology Park To Host FAA CLEEN II Program

The National Aviation Research and Technology Park (NARTP) will host the 2019 Continuous Lower Energy, Emissions and Noise (CLEEN II) Program for its biannual meeting and industry day, November 19-21, 2019 at the NARTP in Egg Harbor Township, NJ.

The CLEEN Program is the FAA's principal environmental effort to accelerate the development of new aircraft and engine technologies and advance sustainable alternative jet fuels. CLEEN projects develop technologies that will reduce noise, emissions, and fuel burn and enable the aviation industry to expedite integration of these technologies into current and future aircraft. CLEEN is a key element of the NextGen strategy to achieve environmental protection that allows for sustained aviation growth.

The CLEEN Program holds biannual consortium meetings in May and November of each year. During the meeting companies provide detail descriptions of the progress of their technology development projects. The majority of the meetings consists of government-only review sessions. This is its first meeting at the NARTP.

The FAA initiated the first CLEEN Program in 2010. Building upon that success, the FAA initiated a follow-up program, CLEEN II, in 2015 that continues efforts to achieve the CLEEN goals and develop and demonstrate aircraft technology and alternative jet fuels.

The FAA plans to invest \$100 million in CLEEN II, with cost-sharing from industry partners that will match or exceed its federal contribution. The FAA anticipates that developed CLEEN II aircraft technologies may be introduced into commercial aircraft by 2026.

Among the companies that are planning to attend are Aurora Flight Sciences, Boeing, Delta Tech Ops/MDS Coating Technologies, General Electric, Honeywell, Pratt & Whitney, Rolls-Royce, and Rohr, Inc./UTC Aerospace Systems.

The CLEEN II goals include:

- Reducing fuel burn by 40 percent relative to the most efficient aircraft in service during the year 2000.
- Cutting nitrogen oxide emissions during takeoff and landing by 70 percent over the 2011 International Civil Aviation Organization standard without increasing other emissions.
- Lowering noise levels by 32 decibels (dBs) relative to the FAA Stage 4 noise standard.
- Expediting the commercialization of 'drop-in' sustainable jet fuels through support for the fuel approval process.

Dr. Edward Salmon, Chairman of the NARTP, stated programs like CLEEN II are important because they enable aerospace companies and government agencies such as the FAA to work cooperatively in order to advance new technologies that will significantly impact new aircraft fuel and engine development in an environmentally positive manner.

Dr. Salmon also stated that the NARTP is pleased to host the CLEEN II conference. “CLEEN II will provide us with an excellent opportunity to showcase the NARTP to some of the leading companies in the aviation industry and familiarize them with the emerging opportunities in our Aviation Innovation Hub, the FAA William J. Hughes Tech Center and the SMART Airport Test bed of Atlantic City International airport. We hope that CLEEN II will continue to come to the NARTP in the years ahead.”

The NARTP is a 501(c)(3) non-profit auxiliary organization of Stockton University dedicated to facilitating research and development, innovation, and commercialization of emerging aviation technologies. It is located on a 58-acre parcel adjoining the Federal Aviation Administration William J. Hughes Technical Center, a facility dedicated to research, development, and sustainment of the National Airspace System.

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