AFOSR Program Kick-Off Agenda

Defense Enterprise Science Initiative (DESI)
Topic 2: "Highly Maneuverable Autonomous UAV"

Lead PI: ***Prof. David Lentink***
Co-PI: ***Prof. Mark Cutkosky***
Stanford University

Industry Partner: ***Hayk Martirosyan***
Skydio Inc.

26 March 2019
4100 North Fairfax Drive
Arlington, VA 22203

SPONSORED BY:

Meeting Host:
Les Lee (AFSOR)

Chair:
David Lentink (Stanford Univ.)

Awardees:
"(DESI'19) Super-Maneuverable Autonomous Pursuit: Peregrine Falcon vs Pigeon Inspired UAVs"
Lead PI: David Lentink (Stanford Univ.)
Co-PI: Mark Cutkosky (Stanford Univ.)
Industry Partner: Hayk Martirosyan (Autonomy Division, Skydio Inc.)

Air Force Representatives:
B.-L. ("Les") Lee (Air Force Office of Scientific Research), ***PM***
Jean-Luc Cambier (Air Force Office of Scientific Research), ***Co-PM***
Frederick Leve (Air Force Office of Scientific Research), ***Co-PM***
Gregg Abate (Air Force Office of Scientific Research) *- Invited*
Patrick Bradshaw (Air Force Office of Scientific Research) *- Invited*
Aura Gimm (Air Force Office of Scientific Research) *- Invited*
Jay Tiley (Air Force Office of Scientific Research) *- Invited*
David Garner (European Office of Aerospace R&D) *- Invited*
Shad Reed (European Office of Aerospace R&D) *- Invited*
Douglas Smith (European Office of Aerospace R&D) *- Invited*
Jeffery Baur (Air Force Research Lab - AFRL/RXCCM)
Benjamin Dickinson (Air Force Research Lab - AFRL/RWWN)
James Joo (Air Force Research Lab - AFRL/RQVS)
Gregory Reich (Air Force Research Lab - AFRL/RQVC)

DoD Representative:
Esha Mathew (OUSD(R&E) Basic Research Office)

AGENDA

Tuesday, March 26		
Kick-Off meeting for Defense Enterprise Science Initiative (DESI) Topic 2: "Highly Maneuverable Autonomous UAV"		
Time	***Speaker***	***Title of Project***
08:50		***Registration***
***Session Chair:* Ben Dickinson (AFRL/RW)**		
09:05	**Les Lee** AFOSR	*Welcome & Logistics*
09:15	**David Lentink** Stanford U	*Program Overview:* **Super-Maneuverable Autonomous Pursuit: Peregrine Falcon vs Pigeon Inspired UAVs**
09:45	**Mark Cutkosky** Stanford U	Perching on the Wing: Strategies and Mechanisms for Robust Prehension of Moving Targets
10:15	**Coffee**	**Break**
***Session Chair:* James Joo (AFRL/RQ)**		
10:40	**Hayk Martirosyan & Jack Zhu** Skydio	Achieving Trustworthy Autonomous Flight in the Wild Based on Visual Perception
11:20	**Will Roderick** Stanford U	Birds Land Reliably on Complex Surfaces by Adapting Their Foot-Surface Interactions upon Contact
11:40	**Eric Chang** Stanford U	Design and Flight Testing of A Biohybrid Morphing Tail Aerial Robot
12:00	**Lunch**	**Break**
***Session Chair:* Greg Reich (AFRL/RQ)**		
13:30	**James Joo** AFRL/RQVS	System Level Trade Study of A Variable Camber Morphing Aircraft Design
13:55	**Ben Dickinson** AFRL/RWWN	Articulated Head Missile Research
14:20		***Open Discussion***
14:45	**Jean-Luc Cambier** AFOSR	*Closing Remark*
15:00	**Adjournment**	**Adjournment**

MEETING WEBSITE

https://community.apan.org/wg/afosr/w/researchareas/24493/2019-kick-off-meeting-for-desi-program-on-supermaneuvarable-autonomous-pursuit/

Including the information on the meeting registration, agenda, hotels and parking

MEETING SITE

Basic Research Innovation & Collaboration Center (BRICC)

4100 North Fairfax Drive, Suite 450

Arlington, VA 22203