A Green Renaissance in General Aviation
Latest Trends, Research and Future Outlook

UC Davis
Aviation Noise & Emissions Symposium 2020
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Presented By:
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A Green Renaissance in General Aviation

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Challenges and Solutions in General Aviation
H.R. 5423 – Aircraft Noise Reduction Act
Introduced by Rep. Joe Neguse (D) – Colorado 2nd District

- Introduced Dec. 12, 2019 – Currently in Committee
- “Authority of general aviation airports to restrict flights for purposes of implementing noise limitations”
  - Specifically “aircraft operations for compensation or hire”
- Dangerous proposal threatening ALL types and sizes of airports not just general aviation
- Aims to undermine ANCA and almost 100 years of precedence to regulate aviation at federal level
- Opposed by all major aviation industry organizations
Teterboro RNAV (GPS) 19
Alternative to the ILS as an Offset Approach

- Addresses concerns of community leveraging modern technology
- Directs flights over a less densely populated corridor
- Can be used in both instrument and visual meteorological conditions
- Result of successful collaboration between Teterboro Airport Noise Abatement and Advisory Committee (TANAAC), the Port Authority of NY and NJ and the FAA
- Effective March 26, 2020 chart cycle
Santa Monica Municipal Airport (SMO)
Critical Part of the National Airspace System

Keep SMO Open in PERPETUITY
Santa Monica Municipal Airport (SMO)

Unprecedented Settlement Agreement

- Jan 2017 – FAA and City of Santa Monica announce Settlement Agreement
  - Runway length reduction 4,973 ft. to 3,500 ft.
  - Requires airport to remain open through 2028

- Lawsuits Pending
  - NBAA argues that FAA did not comply with mandatory statutory requirements

- Noise Monitor Locations – ANCA Violation

- Financial Mismanagement
  - Part 16 complaint on financial mismanagement initial win for aviation users
    - Currently appealed by both sides
    - Airport continues to build an unallowable surplus
  - Over $100,000 in park design fees being returned

Photo courtesy Mark Smith, Due North Productions
Santa Monica Municipal Airport (SMO) Runway Shortening Project
Santa Monica Municipal Airport (SMO) “Excess Pavement” Removal Project
Santa Monica Municipal Airport (SMO) “Excess Pavement” Removal Project

Photo courtesy Mark Smith, Due North Productions
Santa Monica Municipal Airport (SMO)
Future is Promising

- Santa Monica Airport Association hard at work
- Airport based businesses continue to thrive despite major adversity
- City Council Change likely due to California Voting Rights Act lawsuit
- New technologies
  - Quieter more capable jets
  - Electric Aircraft
  - Urban Air Mobility

Photo courtesy Mark Smith, Due North Productions
Airport Access Challenges

East Hampton Airport (KHTO) – Significance of ANCA
Airport Access Challenges
East Hampton Airport (KHTO) – Current Challenges

- Grant Assurances Expire Sept. 2021
  - Will the town close the airport?
  - Major economic impact to the community
  - Loss of air transportation for disaster relief and air medical transportation

- Part 161 Study On Hold

- Town Striving for Relief
  - Reduce the number and frequency of operations
    - Helicopters and Seaplanes top targets

- Part 16 Appeal Pending
  - Users paying for their own circumscription
Airport Access Challenges
Reid Hillview Airport (KRHV) – San Jose, CA
Your Panelists and Subject Matter Experts
A Green Renaissance in General Aviation

ERIC GREENWOOD, PhD
Assistant Professor of Aerospace Engineering
Pennsylvania State University, University Park, PA

- Conducts theoretical and experimental research to better understand the aerodynamics and acoustics of rotor and propeller driven aircraft
- Prior served as researcher at the NASA Langley Research Center.
- Won multiple awards for his research
A Green Renaissance in General Aviation

- Promotes early-adoption of the newest electric, hybrid and other eco aviation technologies, including sustainable airport infrastructure
- Managed aviation projects in the U.S., UAE/Dubai, Afghanistan, Malta, Africa and others
- Flying since 1989 - FAA private pilot Single Engine Land, Sea Plane and Instrument Rating

SCOTT BURGESS
President and Co-Founder Eco-Aviation Foundation International
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