

REDAC Subcommittee on Airports
March 3 - 4, 2020
FAA William J. Hughes Technical Center
Building 300, Directors Conference Room

Day 1: March 3, 2020

Note Taker – Susan Kaelin

- Christopher Oswald, ACI-NA Subcommittee Chairperson gave an introduction. He stated that a key issue was there was not an Airports Consultants Council (ACC) appointee. He also added that there was interest in fire testing, regulatory issues and State laws. UAS research was also of great interest along with detection and integration with TSA test sites.
- Shelley Yak, Director of FAA Technical Center gave opening remarks. She thanked everyone for being there. She addressed the budget submission two fold. Research, Engineering and Development (RE&D) and Airports (AIP) budget needed to be more flexible when emerging needs and issues occur. Ms. Yak asked the attendees what the research drivers identified in the landscape support and what research drivers support it. She requested the subcommittee to take several minutes of their time to make any recommendations on roles and processes as it related to the R&D Landscape research drivers.
- John Dermody, Director, FAA Office of Airports Safety and Standards discussed ARP Headquarter updates and vacancies in senior management level positions. They will be restructuring creating two separate branches, engineers and data functions.
Budget items:
 - FY19 3.2 million added- Safety & Pavement
 - FY20 Bumped up by 6 million, to 39 million- Air Pavement Technology Program
 - FY 21 Small plus up 1.2 million

John discussed three research requests:

1. ASDX Radar runway width
 2. Cameras on approach, aircraft distances
 3. Runway closure marks
- Mike Paglione, Manager, Aviation Research Division, discussed BIG DAWG to utilize data analytics. He mentioned external stakeholder level of interest on how Airport data can be of use to everyone. He has brought in experts and industry partners as speakers. He also discussed Computing & Analytics Shared Services Integrated Environment (CASSIE).

- Chris Oswald made a motion to close Spring of 2017 & Spring of 2018 REDAC Recommendations. No objections.
- Chris Oswald made motion to close Spring of 2019 recommendations. No objections.
- Chris Oswald made motion to close Fall of 2019 recommendations. No objections.
- Chris Oswald noted that the next Airports Subcommittee meeting will be held on August 25-26, 2020 and March 2-3, 2021.
- Chris Oswald had concerns at the State and Government level, Environmental Protection Agency (EPA) concerns, and Congress concerns. There are some significant deadlines between now and October 2021. Need to wrap up some conclusions. Asked if the deadlines were realistic. He would like to keep the lines of communication open which can turn crisis into opportunity.
- Keith Bagot presented the Military Specifications (MilSpec) fire testing video. They use non-blended MilSpec qualified products as a baseline comparison. It has different intensities and scales of products. Keith discussed the International Civil Aviation Organization (ICAO) jet fuel based testing as a nozzle on a stick with no human. They have five other foam fluorine-free products.
- Mike DiPilato and Jim Patterson discussed UAS research activities.
- Chris Oswald asked for a formal risk assessment process with air traffic.

Day 2: March 4, 2020

Note Taker – Susan Kaelin

- Christopher Oswald commented on the positive work discussed the prior day.
- Gary Mitchel recognized Big Data and the work done on it. He was concerned about the performance specifications for concrete.
- Joe Breen presented Solar Powered Lighting Research
- Dave Brill presented Stabilized Base R&D Research

- Jeff Gagnon did an overview of the Airport Pavement RPA's. Discussed the New Airport Technology Program for FY-20, and New Research Requests.
- Navneet Garg presented Non-Nuclear Devices and State Specifications for Airport Pavements.
- Matthew Brynick presented Runway Roughness Index.
- Evanicio Costa asked if the pilots' thoughts on roughness were taken into consideration.
- Jeff Gagnon noted that airports take notice when pilots express concerns. He said, "We have "in place" roughness criteria, not just subjective. We have measurable repeatable standards. Cross intersections are a big problem area."
- Dave Brill presented "Beta Overview" and discussed FAARFIELD 2.0 Beta. There are also slides on ACR-PCR.
- Chris Oswald would like to hear recommendations, observations, and findings regarding solar use.
- Frank Fee was concerned about heavier aircraft. He thought it was not logical that the design program doesn't need changes and the program doesn't recognize that.
- John Dermody discussed that the agency was not opposed to changing their standards and to learn better technologies.
- Murphy Flynn noted that Frank's concerns reinforce the need for the new lab. The "Bump up" is rolled into the recommendations.
- Chris Oswald discussed organizing an advisory group. He said he was aware of the significant deadlines they were under. He wanted to know how soon it would take to get the group together. Murphy suggested it could be within a month of the letter going out. Chris said they were including Boeing and Airbus.
- John Dermody noted that the FAA would reach out to organizations regarding who was nominated as an advisory group.

- Chris Oswald concluded that the presentations were great. He appreciated all the efforts to pull the materials together. He asked if the staffing support was sufficient as he expressed concerns about the level of contract changes and the challenges that would present
- Gary Mitchel brought up the extended pavement life program and requested input
- Chris Oswald wanted a current list of RPA's. He would pull out the presentations and distribute them to the members.
- Chris Oswald needs resumes for the Committee. There were outstanding members that were not formally appointed. There can be a rotation of the members of the Committee. The Committee can be up to 30 members.

Research, Engineering and Development Advisory Committee
PPT Briefing to Sub-committee on Airports: March 3-4, 2020
 Technical Center Director's Conference Room

Day 1: March 3, 2020

12:30 pm	Christopher Oswald <i>ACI-NA, Subcommittee Chairperson</i>	Introduction
12:45 pm	Shelley Yak <i>Director, FAA Technical Center</i>	Welcome and Opening Remarks
1:00 pm	John Dermody <i>Director, FAA Office of Airports Safety and Standards</i>	HQ ARP Update
1:30 pm	Mike Paglione <i>Acting Manager, Aviation Research Division</i>	Aviation Research Division update and "Research of interest to Airports"
1:45 pm	Michel Hovan (by phone) <i>Manager, FAA Airport Technology Research</i>	Airport Technology Program Update <i>Budgets, New Contracting Avenues, Research Landscape</i>
2:00 pm	Subcommittee Members and FAA	Review of Outstanding REDAC Recommendations
2:15 pm	Murphy Flynn <i>Acting Manager, FAA Airport Safety R&D Section</i>	Overview of Safety & Planning Research Project Areas (RPAs)
2:45 pm	Break	
3:15 pm	Subcommittee Members and FAA	Focused RPA Discussions—Safety and Planning <ul style="list-style-type: none"> • Alternative aircraft fire-fighting agent research • Unmanned aircraft system research • Solar Research Instrumentation Projects • Runway Deviation Project • Aircraft braking friction research
5:00 pm	Adjourn	

Day 2: March 4, 2020

8:30 am	Subcommittee Members and FAA	IOU's from Day 1
8:45 pm	Jeff Gagnon <i>Manager, Airport Pavement R&D Section</i>	Overview of Airport Pavement RPAs New Airport Technology Program for FY-20 New Research Requests
9:15 am	Subcommittee Members and FAA	Focused RPA Discussions—Airport Pavements <ul style="list-style-type: none"> • Geosynthetics / Construction Cycle 9 • State Specifications for Airport Pavements • In-place properties on unbound materials • Stabilized Bases • Runway Roughness Index • FAARFIELD 2 • ACR/PCR

10:45 am	Break	
11:00 am	Subcommittee Members	Subcommittee Findings & Recommendations
12:00 am	Adjourn	

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DAY 1 : Date: 03/03/2020: Participant Passcode: 737241

DAY 2 : Date: 03/04/2020: Participant Passcode: 342448

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Airports Subcommittee**Attendees List****March 3, 2020****Day 1**

Names	Names
Susan Kaelin (minutes)	Chinita Roundtree-Coleman
Joe Breen	Chris Oswald (phone)
David Brill	Sara Hubbard (phone)
Holly Cyrus	Somil Shah (phone)
John Dermody (phone)	
Murphy Flynn	
Jeff Gagnon	
Michel Hovan (phone)	
Richard Ji	
Wesley Major	
Jim Patterson	
Chris Oswald	
Mike Paglione	
Wildredo Villafane	
Lauren Vitagliano	
Shelley Yak	
Jim Make	
Evancio Costa	
Gary L. Mitchell	
Khalil Kodsi	
Andrew Sousa	
Jeff Sedin	
Eric Neiderman	
Frank Fee	
Scott Mansh	
Justin Barknowski	
Brett Williams	
Ryan King	
Mike DiPilato	
Steve Summer	
Sandi Middleton	
John McGrath	
Navneet Garg	
Jonathan Torres	
Keith Bagot	
Chris Seher	
Rich Speir	
Qingge Jia	
Ryan Rutter	
Chinita Roundtree-Coleman	

Airports Subcommittee

Attendees List

March 4, 2020

Day 2

Names
Susan Kaelin (minutes)
Sandi Middleton
Chris Seher
Richard Ji
Qingge Jia
Will Villafane
Ryan Rutter
Murphy Flynn
Jim Mack
Gary L. Mitchell
Chris Oswald
Jeff Sedin
Andrew Sousa
Frank Fee
Scott Marsh
Brett Williams
Jeff Gagnon
Jim Patterson
Ryan King
Matt Brynick
Navneet Garg
Scott Murrell
Brett Speir
David R. Brill
John McGrath
Evancio Costa
Holly Cyrus
Keith Bagot
Jonathan Torres
Chinita Roundtree-Coleman
Khalil Khodsi (phone)
Mike Paglione (phone)
John Dermody (phone)