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TRANSPORTATION RESEARCH BOARD

Aviation System Planning Committee (AV020)
2017 Annual Committee Meeting

Tuesday, January 10, 2017
10:15 A.M.-12:00 P.M.
Marriott Marquis Hotel
Mount Vernon Square (M3)

MEETING AGENDA

Welcome and Introductions

Jeff Borowiec

The following attendees introduced themselves, their affiliation and their membership of this and other committees:

Name	Affiliation	Member / Friend / YP
Chris Ramsky	Naples Airport Authority	No
Zach DeVeau	Kimley-Horn	YP
Arlyn Purcell		No
Christy Gerencher	TRB Staff	
Ja Senka Rakas	U.C. Berkely	
Kent Duffy	FAA	N
Amber Woodburn	Ohio State University	N, YP
Hsan Chao	Purdue University	N, YP
Anna Hopper	Harvard University	N, YP
Peter Hylton	Georgia Tech	N, YP
Jeff Borowiec	Texas A&M University, Transportation Institute	Y (Chair)
Laurie Cullen	VHB	N
Fin Bonset	VHB	N
Steven Landau	EDR Group	Y
Larry Leung	Experience the Skies	Y
Mihir Shah	Arora Engineers	Y
Michael Wells	The Mitre Corporation	Y
Anderson R. Correia	Aeronautics Institute of Technology	Y
Reiner Pelzer	AECOM	N
Yasmina Platt	AECOM	Y, YP
Linda Howard	Aviation Planner	Y
Fran Strouse	L.R. Kimball	Y
Denise Garcia	MassDOT Aeronautics Division	Y
Leah Henderson	DOWL	Y, YP
Geoffrey Gosling	Aviation System Consulting, LLC	Y
Soumia Ichoua	Embry Riddle Aeronautical University	Y
Sarah Pauls	Virginia Space Grant Consortium	N
Basil Yap	North Carolina DOT Division of Aviation	N, YP
Ted Hogan	ERG	

Clinton Stambaugh	City of Pekin Municipal Airport – moving to Illinois Department of Transportation	N, YP
Ehasn Esmaelzadeh	The Mitre Corporation	Y, YP
Thomas Phillips	KPA	
Jane Tira	CAAC Management Institute	
Eunsun Ryu	The Ohio State University	N, YP
Laurence Audenaerd	The MITRE Corporation	N
Elaine McKenzie	Cambridge Systematics	N, YP
Christian Salmon	Western New England University	N
Stavros Sidiropoulos	Imperial College London	N, YP
Theresia Schartz	TRB/ACRP Staff	N
Roger Moog	Retired	N
Stephanie Ward	Mead & Hunt	N
Kyle Potvin	Applied Pavement Technology	N
Kim Kenville	University of North Dakota	N
Senanu Ashiabor	IML Consulting Inc.	N
Adam Williams	Aircraft Owners and pilots Association (AOPA)	N, YP
Robert Hodgman	WSDOT Aviation Division	N, YP
Eun-Jeong Lee	Incheon International Airport Co.	N
Andrew Kirchoff	Landrum & Brown	N
Seth Young	The Ohio State University	N
Merrill Atwater	KS DOT	N, YP
Don McGady	D'Escoto, Inc.	N
Scott Sanders	CDM Smith	N
Marta Larson	University of Wisconsin - Superior	N, YP
Gary Young	City of College Park, Georgia	Friend
Dave Byers		

1. Committee News

- a. About this year's meeting
- b. AV020 Session Previews

Jeff Borowiec
Session Moderators

The committee sponsored three sessions in the 2017 Annual Meeting. All three sessions were to be held after the annual meeting.

- Arlyn Purcell and Geoff Gosling –1/10/17 Session 680 Strategic planning for the London Region. Arlyn gave a preview of the session, Arlyn briefed about the UK Airports Commission and their work. The session would have the following presentations.
 - i. The UK Airports Commission: Context, Objectives, Process, and Recommendations
 - ii. Forecasts of Future Air Traffic Demand for the London Region and Follow-on Research
 - iii. Economic Considerations with Alternative Strategies for Meeting Airport Capacity Needs in the London Region.
 - iv. Environmental Analysis and Carbon Budget Considerations.
- Next Gen and Airport System Planning– Session 815 (1/11/17) moderator Dave Byers.
Dr. Byers stated that the session was an outgrowth of the five ACRP projects that addressed NextGen. The title of the ACRP project was NextGen and Airport Planning and Development. The effort was to understand the effect on the various stakeholders in the airport system. The session included the following presentations.
 - i. FAA Policy and Planning Perspective
 - ii. Big Data/GIS Perspective

iii. Airport Operator Perspective

- Denise Garcia for help in putting the session together - 858 Current Issues in General Aviation Airport Planning and Operations (1/11/17).
The session had the following presentations.
 - i. General Aviation Airports and Community Compatibility
 - ii. Gathering Airport Activity Data: Options and Challenges
 - iii. FAA Forecasting for General Aviation Airports
 - iv. Implementing UAS in Land Use Planning: South Carolina Perspective

In addition to the three sessions, the committee also co-sponsored a couple of workshops including the one on Unmanned Aerial Systems (session 148, 1/9/17), the young members in professional practice (session 191, 1/9/17) and the Young Members Reception (1/9/17), the session on multi-jurisdictional airport projects (Session 264, 1/9/17) with AV010 and the one on Remote Towers (Session 343, 1/10/17) as well.

c. AV000 Group Update

Mary Ellen Eagan

The Chair requested the Aviation Group Chair to provide a brief update. The group chair stated that 5900 papers submitted, 800 workshops and sessions on all aspects of transportation including some 36 on this year's spotlight theme, "Transportation Innovation: Leading the Way in an Era of Rapid Change." Ms. Eagan stated that there was going to be a new Director of the National Academies of Sciences, Ms. Marsha McNutt. She expected that the change would bring in new priorities and also a complete review of all CRP Programs. The focus would be on decision making processes, improved communications and increased international participation.

d. TRB Staff Update

Christy Gerencher

Christy thanked all attendees for their participation and provided a copy of TRB's newsletter to all attendees. Christy advised attendees to take advantage of the meeting to network with fellow professionals. She also made attendees aware of the useful aviation matrix at the back of the newsletter to help attendees navigate and prioritize their attendance at the various aviation related sessions. The newsletter included a note from Mary-Ellen Eagan the outgoing **Aviation Group Chair** that also has a link to the TR News, a bimonthly magazine that TRB produces to help inform transportation professionals about the activities of TRB.

Christy thanked this committee and other committees for putting together the Aviation themed issue that was published in October 2016.

Christy touched on Committee rotation – each committee can have 36 appointed members. In order to bring new life into the committees, the committee goes through committee rotation every 3 years to give opportunity to younger professionals to be appointed member of the committee. Every three years, a third of the membership rotates off the active membership of the committee. This year, Jeff is working on the rotation of this committee's membership. All those interested in becoming a member of this committee need to either contact the Chair or update their myTRB profile with relevant details to help the Chair decide on committee rotation. The perks of becoming a Committee member include participating in committee business, availing a significant discount to the registration fees of the annual meeting and discounts on publications.

e. ACRP Update

Theresia Schartz

The ACRP update was provided by Ms. Theresia Schartz. She informed the attendees that the Problem statement submissions deadline was March 20th, 2017. She thanked the committee members for their review of the problems statements and stated that the ACRP's oversight committee appreciated the feedback. ACRP was also in the process of receiving proposals for FY 2017 projects. She suggested that if there were individuals interested in participating in project panels, they should send in their nominations. She also provided details of ACRP's webinar series that were coming up and details could be found on ACRP's website. Ms. Schartz also spoke about some

upcoming synthesis projects. She also spoke about a new element being introduced by ACRP called Insight Events.

2. Presentation

Adaptive Airport Planning Frameworks and Techniques for a New Era of Planning

Daniel Suh
University of Pennsylvania

Daniel Suh is one of the ACRP's Graduate students working for a doctoral degree in Transportation Planning with a focus on Aviation and Economic Development. Daniel is working under Dr. Megan Ryerson. He worked on this paper for ACRP's Graduate Student Award program. He presented the details of his research including the data and case studies used.

The abstract of Daniel's paper is as under and can also be accessed at <http://trrjournalonline.trb.org/doi/abs/10.3141/2603-07>:

Airport planners, in determining the long-term development of an airport's infrastructure, estimate future use of the airport by using two loose categories of methods: (a) peer group learning and (b) forecasting. In peer group learning, airport planners compare their airports with like airports and engage in peer-to-peer exchange of information about lessons learned from past experiences and technical and planning guidance. The blend of quantitative and qualitative methodologies can be a powerful tool for airport planners because the planners can validate their forecasts with the actual experiences at similar airports. In the current state of the aviation industry, airport planners must engage in peer group learning because the environment in which they are planning their airports is more volatile than it was previously; however, while forecasting has been well studied by scholars and airport planners, peer group learning has attracted relatively less attention. Given the role of peer group learning in airport planning, airport planners must pay careful attention to how they define their peers in ever-evolving economic and industrial environments. Since deregulation of the airline industry in the 1970s, the airport system has become much more nuanced and is no longer easily defined, while airport planners often resort to single metrics such as enplanements as a peer criterion. This study developed and tested a peer identification methodology that reflects volatilities in the economy and the airport industry by using an expanded list of both static and dynamic metrics. This methodology highlights an important lesson that metrics matter in the ways in which airports identify their peers, benchmark their performance, and help to improve their plans.

3. Committee Business

- a. Adoption of Minutes Jeff Borowiec
Jeff thanked the cooperative effort of Denise Garcia and Vivek in putting the minutes together. Jeff asked for the committee to consider and approve the minutes of the mid-year meeting.
Motion to approve the minutes was moved by Steven Landau and seconded by Mihir Shah.
- b. 10th National Aviation System Planning Symposium Verne Skagerberg
The Chair briefed the attendees that earlier that morning a group of the committee met to discuss and plan for the 10th National Aviation System Planning Symposium. The 2015 Symposium was held in Charleston and in May 2018 the NAPS will be held in Anchorage under the leadership of Verne Skaggeberg. Verne gave informed the attendees that the planning for the 20th symposium was formally kicked off earlier that morning. He stated that the 10th NASPS would be hosted by the Ted Stevens Anchorage International Airport and the conference venue would be the Lakeside Hotel just down the road from the airport. The Hotel sits on Lake Hood which is the world's busiest seaplane base and would make a perfect venue for hosting an aviation conference. Verne stated that conference logistics were being worked out. The committee would need plenty of help so volunteers were

going to be needed. The symposium would fall under the umbrella of future research needs in aviation. Finer details regarding the technical program were being worked out. All those interested should contact Verne. The chair reiterated that there would be lot of opportunities to help. Sponsorships were welcome and were critical to the success of the previous conferences and in supporting Graduate Student travel to the venue.

- c. Research Coordinator Update Verne Skagerberg
Verne serves as the Research Coordinator for the Aviation Group. Verne sought the help of Laurie who was also the Co-Chair of the CRC council for the Aviation Group.

The CRC council meeting of all the CRCs of the standing committees took place on 1/9/17 (Sunday). Verne spoke highly of the ACRP program and the way it goes about performing research in aviation. He believed that ACRP did a much better job than NCHRP. He felt that providing problem statements to ACRP was much easier than the system used by the Highways group.

The aviation standing committees are trying to institute a process of developing problem statements that would be fundable by the ACRP's oversight committee. Verne stated that the CRC group was looking at soliciting Problem Statement early and farm them to champions to work with authors to iteratively improve the problem statements and submit them via the committees for review.

Laurie emphasized cross collaboration between the aviation standing committees to improve the quality and number of problem statements received by the ACRP. She described the following schedule –

- i. Talk at the annual meeting about problem statements that have been looked at, at least twice by members of the committees and the CRCCs. ACRP problem statement process is about to change. ACRP has floated a project with Mead & Hunt as the contractor. Laurie and Dr. Byers are participants on the panel. Laurie was very hopeful that the new processes that are under development would lead to improved quality and consequently the percentage that is approved will go up.
- ii. After the annual conference, a couple of conference calls to review and improve problem statements for submissions.
- iii. Engaging and starting over for FY 2019 program by May so that discussion of research needs can begin leading to problem statement during the summer; and
- iv. Review of FY 2019 problem statements during the fall.

This early development and submission of the Problem Statements to the CRCs would help to facilitate cross collaboration with other organizations (NASAO, AAAS, ACI and others).

Laurie stated that TRB Research Need Statements are slightly different from ACRP problem statements. TRB Research Need Statements are for TRB are used by a world of different practitioners. We take the needs from the RNS database and convert them into problem statements for ACRP funding.

Verne offered to help any individual that had a problem statement but was confused by the process.

- d. Communications Coordinator Update Dave Byers

Dr. Byers is rotating out as the Communications coordinator and Leah is taking over from him. The Aviation Group's Communications Coordinators were scheduled to meet after the committee meeting. Jeff stated that for all communications, emails were provided by the MyTRB profiles of members and friends of the committee. He encouraged all that were not receiving emails to check their profiles.

Also, Jeff stated that he was going to work with TTI to create a web-site for the committee and upload data from committee meetings including presentation materials to the online server space.

- e. YMC-A & IMC-A update Elaine McKenzie
The IMC-A has a new Chair and will start to get a little more active.

Elaine thanked the committee for its support and co-sponsorship of the Young Members' in aviation workshop. She also spoke about the sessions being well attended and very successful. There was also a poster session (Research in Progress) with about a dozen students participating in it. The YMC-A had its committee meeting last night with about 30 attendees. Elaine spoke about the YMC-A wanting to build upon a very successful year. The group is also working on a leadership succession plan to ensure a smooth transition and continuity when present leadership ages out of its membership. Elaine also referred to the YMC being interested in a mentorship program to benefit the younger professionals.

- f. Webinars for 2017 Jeff Borowiec

The deadline for submitting suggestions for submitting suggestions for webinars is March 15th for webinars that will run from July 1st to December 31st. All individuals with ideas should turn them in to the committee early.

- g. Committee Rotation Jeff Borowiec/Christy Gerencher
- h. Mid-Year Meeting Jeff Borowiec

Thursday June 1st at the Keck Center. The day will be split with AV010 and one of the committees will go in the morning and the other will go in later. Some time will also be kept aside for discussions and planning for the NASPS. Those that cannot attend can call in at the Keck Center.

- i. Triennial Strategic Plan Jeff Borowiec

The committee did submit its Triennial Strategic Plan to TRB about a year ago. The committee was thankful to the efforts of Michael Wells and others. Jeff stated that a desire was expressed during the preparation of the document to make the TSP a living document and not just bring it out every three years. The strategic plan ties in with the Symposium. Jeff stated that he would set up a conference call regarding this in the next few months.

- j. FAA Ten Year Research Plan Pam Keidel Adams

Mr. Kent Duffy from the FAA's Airports Office was present and he helped Pam with the item. FAA planning to organize planning and environmental issues/projects into a unique portfolio to evolve a long-term plan. As funds become available from year to year some of these would be selected for funding through contractors – Universities, consultants. FAA is looking at performing research like ACRP to help with its policy decisions and for building tools and guidance that would be useful to the Planning and Environmental communities. FAA expects that the plan will be completed by the end of the current calendar year. This would be followed by an outreach program including webinar series to share and collect ideas. Pam asked Mr. Duffy if FAA would use the findings of some ACRP research one step further and include them in FAA's policy documents. Mr. Duffy replied in the affirmative. There were some suggestions from attendees including one that some of the initial ACRP research was getting dated and FAA should update these.

- k. 2018 Annual Meeting Planning Attendees

Jeff stated that the committee has a good process for coming up with its sponsored and co-sponsored sessions and workshops for the Annual Meeting. This includes a discussion during the annual meeting and a couple of conference calls later. He stated that the same procedure would be followed. He also drew the attention of the attendees to the short separation between the Symposium and the annual meeting.

The following ideas were floated:

- a) The impact of Big Data on System planning and its periodic collection
- b) State of aviation system planning
- c) Aviation workforce – the impacts of the policy decisions (1500 hour rule) etc.
- d) Issues that cross state or national lines - Large population bases on one side of the border going to airports on the other side. How can systems be developed for both states.
- e) Use of UAS in the last mile delivery in humanitarian or commercial circumstances
- f) Privatization of air transportation

4. Other Activities

- a. Individual Activity Reports (Time Allowing)

Attendees

5. Adjourn

Attachments

- 1) 2017 Annual Meeting Agenda
- 2) 2016 Mid-year Meeting Minutes
- 3) Supplemental Materials
 - a) **TR News Flyer** – TRB invites you to submit articles to its bi-monthly magazine
 - b) **Research Pays Off Flyer** –An announcement that TRB is looking for articles showcasing specific benefits of research
 - c) **Practice Ready Papers** – An announcement of the availability of our searchable Practice Ready Papers database
 - d) **Research Needs Database** – An announcement of the availability of our searchable Research Needs Statements database
 - e) **Ideas Deserving Exploratory Analysis** – Brochure of information about TRB’s IDEA program
 - f) **Cooperative Research Program Update** – Listing of the most recent publications from TRB’s Cooperative Research Programs
 - g) **Special Reports** – A listing of the most recent special projects or “policy studies” published by TRB
 - h) **Young Members Council – Aviation** Feel free to reach out to Elaine McKenzie (YMC-A leader) with any questions you have.
 - i) **Young Members Council Update** – Briefing of the latest announcements and activities from TRB’s Young Members Council (the all-TRB one, not our Aviation Group one, who’s update is at the bottom of this email)
 - j) **Aviation Group Activity Matrix**

Other Information

- 1) **Aviation Caucus** – Monday, January 10th, Convention Center, Pre-function area across from Ballroom A (3rd floor, South Building), 6:00p-7:30p.
- 2) **ACRP Problem Statement Solicitation** – Will be made available in time for the Annual Meeting, so check the [ACRP website](#) for updates. As with last year, I anticipate the deadline for submitting problem statements to be early March and we’ll be invited to comment on those statements in April.
 - a. [ACRP Synthesis Problem Statement Solicitation](#) – Problem statements for the synthesis program in ACRP (i.e. shorter summaries on the state of practice on a particular topic) are on a different schedule. They are due Sept. 2017 and are collected via this [link](#). You can also see what statements have already been submitted, if you’re curious.
- 3) **TRB 2017 Mobile App** - To download the TRB Annual Meeting Mobile App, search “TRB 2017” in the App Store or Google Play. You will need to enter the email address you used to register for the Annual Meeting to see all of the room locations for the events. Thanks to recent updates, if you built a schedule for yourself in the [online interactive program](#), it will now show up in the MobileApp (and vice-versa).