

# THE AIRPORT COOPERATIVE RESEARCH PROGRAM

**ACRP**  
AIRPORT COOPERATIVE RESEARCH PROGRAM


Melissa Smart, ACRP Ambassador\*

March 29, 2017

*\*Ambassadors are volunteers, not employees of The National Academies or the Transportation Research Board*




## The National Academies



Established in 1863

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## Transportation Research Board (TRB)

- Established in 1920
- 1 of 6 divisions under the National Research Council
- Mission: To promote innovation and progress in transportation through research
- Engages 7,000+ engineers, scientists, and transportation researchers from public and private sectors as well as academics every year

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Getting Involved  
in TRB's  
Aviation Group



## Cooperative Research Programs (CRPs)

CRPs conduct research on:

- Airports (ACRP)
- Freight (NCFRP)
- Highways (NCHRP)
- Transit (TCRP)
- Rail (NCRRP)\*
- Hazardous Materials (HMCRP)\*



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## ACRP

- Began in 2006; authorized by Congress
- Sponsored by FAA; managed by TRB
- Industry-driven, applied research program that develops near-term, practical solutions to problems airport operators face
- Research contractors are selected on a competitive proposal basis
- Volunteer panels develop scope, select contractors, oversee research, and review results



## ACRP Oversight Committee

**Chair:** Kitty Freidheim, *Freidheim Consulting*

**Vice Chair:** Kelly Johnson, *Northwest Arkansas Regional Airport Authority*

**Voting Members:**

Gloria Bender, *TransSolutions*

Thella Bowens, *San Diego International Airport*

Winsome Lenfert, *Federal Aviation Administration*

Deborah Flint, *Los Angeles World Airports*

Rhonda Hamm-Niebruegge, *Lambert-St. Louis International Airport*

Margaret McKeough, *Metropolitan Washington Airports Authority*

Scott McMahon, *Morristown Municipal Airport*

Frank Miller, *San Antonio International Airport*

Bob Montgomery, *Southwest Airlines*

Eric Potts, *Freese and Nichols, Inc.*

Megan Ryerson, *University of Pennsylvania*

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## ACRP Oversight Committee

### Ex Officio Members:

Sabrina Johnson, *U.S. Environmental Protection Agency*

Laura McKee, *Airlines for America (formerly ATA)*

Christopher Oswald, *Airport Council International—North America*

Neil Pedersen, *Transportation Research Board*

Mark Kimberling, *National Association of State Aviation Officials*

Melissa Sabatine, *American Association of Airport Executives*

T.J. Schulz, *Airport Consultants Council*

**Secretary:** Christopher Hedges, *Transportation Research Board*

**ACRP Manager:** Mike Salamone, *Transportation Research Board*

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## ACRP Research Areas

1. Administration
2. Environment
3. Policy & Planning
4. Safety
5. Security
6. Human Resources
7. Design
8. Construction
9. Maintenance
10. Operations
11. Special Projects

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## How Research Topics Are Selected

- Industry practitioners submit research ideas known as “problem statements”
- The AOC selects problem statements that focus on applied research and are:
  - Relevant and valuable to airports
  - Technically feasible
  - Not being addressed by current research within ACRP or elsewhere in the industry

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## The ACRP Research Process:

From Problem Statement to Final Publication

Project panel is formed

Panel develops scope of work from original problem statement

Panel reviews proposals

Panel oversees contractor's progress through teleconferences and meetings

Panel comments on all reports and deliverables to improve value to industry

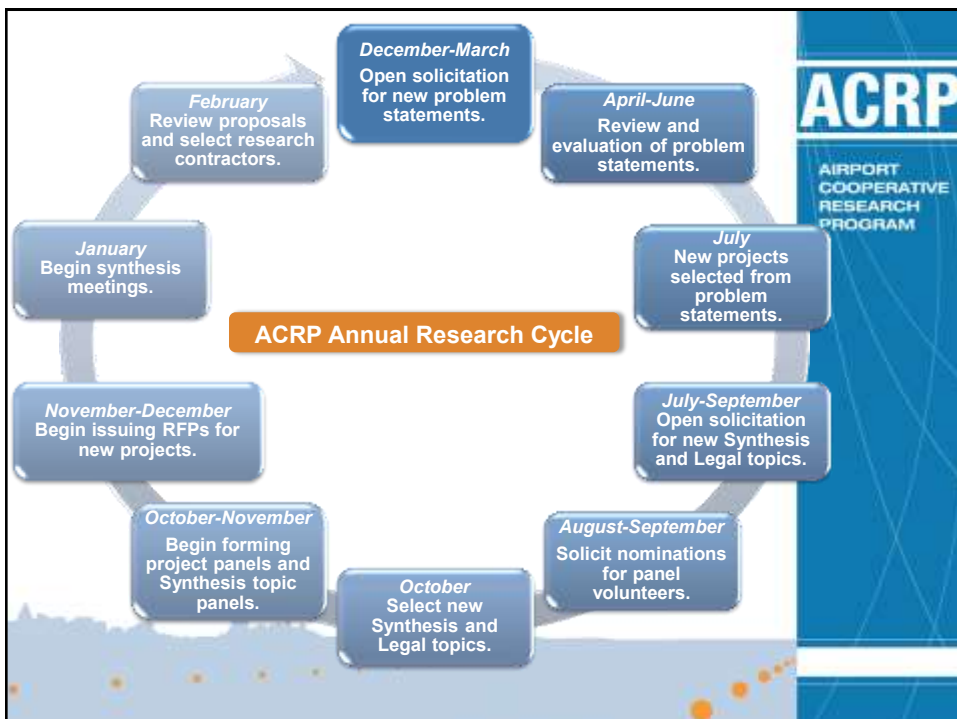
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## ACRP Today

- 510 research projects authorized since 2006
  - More than 400 ACRP-produced resources are readily available to industry practitioners
  - 16 new projects slated for FY2017
- Over 700 industry volunteers participating
  - Participants come from airports, airlines, consulting firms, academia, state and federal government agencies, and industry associations

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## Five Ways to Get Involved

1. Submit a research idea, or “problem statement”
2. Volunteer for a project panel
3. Prepare a research proposal
4. Respond to a request for information or complete a survey
5. Use the research results

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## 1. Submit a Problem Statement

- Provide a general description of the problem
- Briefly describe the research proposed and how it relates to the problem
- Include an estimate of the funds and time needed to complete the research

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## 2. Volunteer for a Project Panel

- Project panels provide technical guidance and counsel to projects from start to end
- Nominations to serve on project panels are usually due in August or September
- Self-nominate or be nominated by a colleague

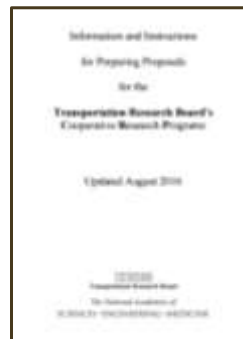


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## 3. Prepare a Research Proposal

- Any interested individual, agency, or others may submit a proposal in response to a RFP
- Detailed instructions for proposers are available on [trb.org/ACRP/CRPInfoProposers.aspx](http://trb.org/ACRP/CRPInfoProposers.aspx)



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## 4. Respond to Requests for Information and Surveys

- Researchers need input from airport practitioners to identify best practices, create case studies, and complete research objectives
- ACRP needs input from users to improve the value and utility of its research products and programs



## 5. Use the Research Results

ACRP research results take many forms:

- Project Reports
- Synthesis Reports
- Research Results Digests
- Legal Research Digests
- Impacts on Practices
- Web-only documents
- Download (for free) at [trb.org/acrp](http://trb.org/acrp)



## 5. Use the Research Results



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## Research Results

### Report 159: *Pavement Maintenance and Guidelines for General Aviation Airport Management*

- ACRP Project 09-11, published September 2016
- Research Agency: Texas A&M Transportation Institute
- Principal Investigator: Thomas J. Friedman
- ACRP Project Manager: Marci A. Greenberger



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## Research Results

### Report 134: Applying Whole Effluent Toxicity Testing to Aircraft Deicing Runoff

- ACRP Project 02-39, published September 2016
- Research Agency: NewFields Government Services
- Principal Investigator: Charles Pace
- Subcontractors: The Smart Associates & Maryland Environmental Services
- ACRP Project Manager: Joseph D. Navarrete



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## Research Results

### Report 16: *Managing Small Airports*

- ACRP Project 01-01, published July 2009
- Research Agency: University of Minnesota
- Principal Investigators: James H Grothaus & Thomas J. Helms
- Subcontractors: Airport Admin LLC, Mead & Hunt, Professional Engineering Services
- ACRP Project Manager: Mike Salamone



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## Research Results

### Report 100: *Recycling Best Practices—A Guidebook for Advancing Recycling from Aircraft Cabins*

- ACRP Project 02-15, published December 2013
- Research Agency: Cascadia Consulting Group
- Principal Investigators: Christy Shelton
- Subcontractors: LeighFisher & Mary Loqvam Consulting
- ACRP Project Manager: Mike Salamone



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## Research Results Digests

### Research Results Digest 2

Model for Improving Energy Use in Airport Facilities

- Best practices for reducing energy use
- Implementing an energy tracking program
- Case studies



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## Legal Research Digests

### Legal Research Digest 3

Survey of Law and Regulations of Airport Commercial Ground Transportation

- Listing of related statutory resources
- Web links to various resources
- Bibliography of notable articles



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## Other Ways to Participate

- Submit an *Impacts on Practice* (IOP) lead
- Become an ACRP Ambassador
- Sponsor or become an ACRP Champion



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## Get Social!

- Participate in online discussions
- Share YOUR success #ACRPImpact
- Get program updates @ACRPambassadors



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## For More Information

[www.TRB.org/ACRP](http://www.TRB.org/ACRP)

Regular news and updates on

- Upcoming and ongoing research projects
- New publications
- Success stories
- Announcements
- And more!



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