

ACRP—Your Source for Practical Solutions

Utah Aeronautics

Conference

May 11, 2022

Joe Navarrete
Senior Program Officer

NATIONAL
ACADEMIES *Sciences
Engineering
Medicine*

TRB TRANSPORTATION RESEARCH BOARD

ACRP | AIRPORT
COOPERATIVE
RESEARCH
PROGRAM

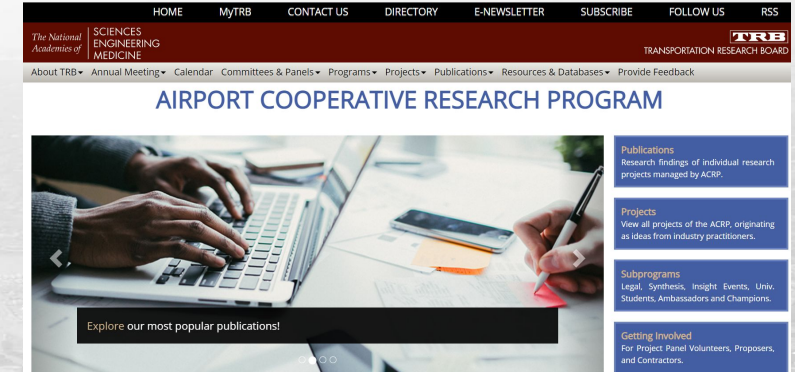
Before We Continue...

...Think of some challenges your airport is facing



What is ACRP?

- Industry-driven research program
- Authorized by Congress & funded by FAA
- Managed by the Transportation Research Board of the National Academies of Sciences, Engineering, and Medicine
- Projects selected by an oversight committee
- Volunteer panels develop RFP, select contractors, and oversee research effort
- Contractors selected on a competitive basis




<http://www.trb.org/ACRP>

Engagement Supported by FAA

An official website of the United States government [Here's how you know](#)

The latest general information on the Coronavirus (COVID-19) is available on [Coronavirus.gov](#). For FAA-specific COVID-19 resources, please visit [faa.gov/coronavirus](#).

United States Department of Transportation

 **Federal Aviation Administration**

- Airport Compliance
- Airport Cooperative Research Program**
- Airport Coronavirus Response Grant Program
- Airport Improvement Program (AIP)
- Airport Rescue Grants
- Airport Safety
- CARES Act Grants
- Engineering, Design, & Construction
- Environmental Programs
- Major Airport Development
- News & Information
- Passenger Facility Charge (PFC) Program
- Planning & Capacity

Airport Cooperative Research Program (ACRP)

The Airport Cooperative Research Program (ACRP) is an industry-driven, applied research program that develops practical solutions to problems faced by airport operators. Funding more than 20 projects a year, ACRP focuses on issues that other Federal research programs do not address. So far, ACRP has produced more than 400 practical resources and tools for airport practitioners and makes them available for free.

ACRP is managed by the Transportation Research Board (TRB) of the National Academies and sponsored by the FAA.


ACRP Report does not represent FAA standards, policies or regulations.

Top Tasks

- [View all research](#)
- [Join an ACRP panel](#)
- [View requests for proposals](#)
- [Learn more about ACRP](#)

On this page ...

- [ACRP Webinars](#)
- [Recently Released Publications](#)
- [Notice About Links on This Page](#)



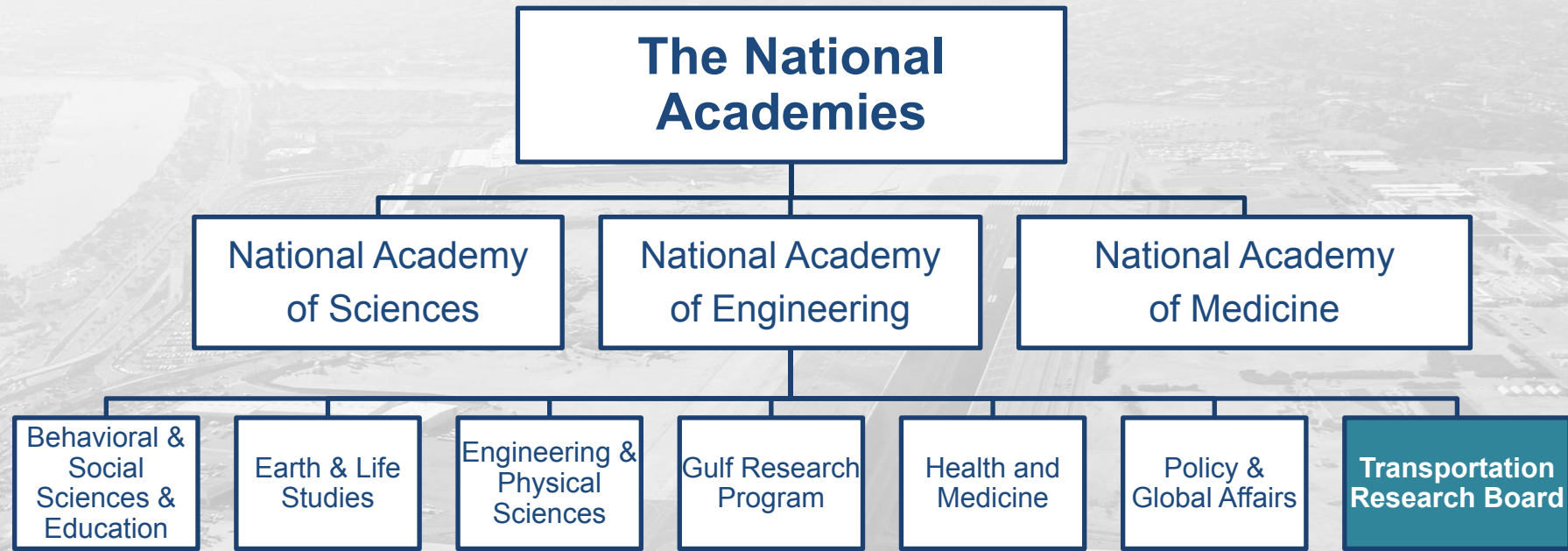
[Search Airport Data and Information Portal \(ADIP\)](#)

Hallmarks of ACRP Products

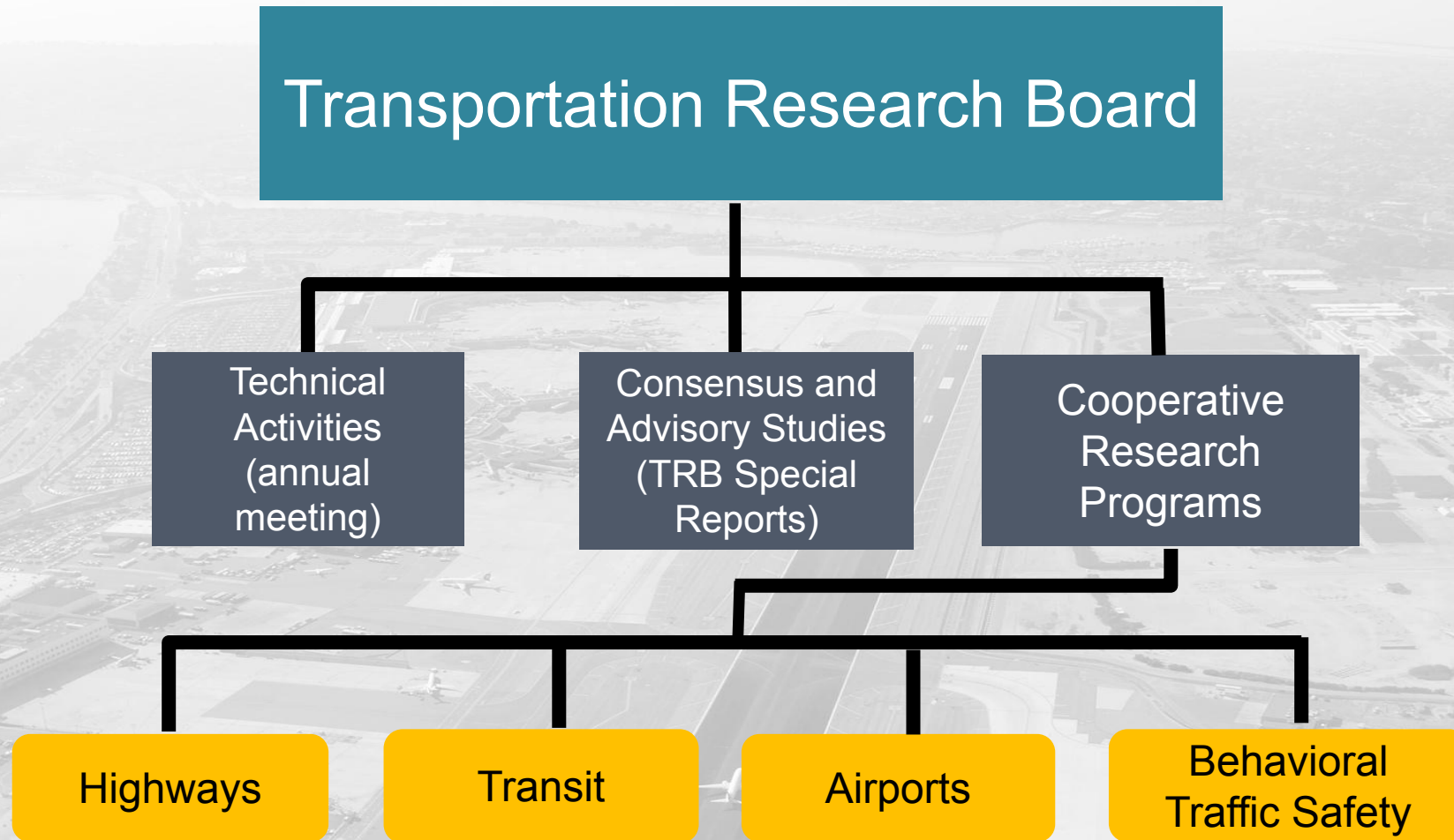
- Tradition of National Academies of Sciences, Engineering, and Medicine
- Research conducted by experts in the field
- Evidence-based
- Free from special interest
- Vetted by panel of industry practitioners
- Free!



Private, Nonprofit Institution... ...with a Mission of National Service



TRB Divisions



Technical Activities Division

- 175+ Standing Committees on Almost Every Transportation Mode/Function
- TRB Annual Meeting
- Specialty Conferences, Workshop and Symposia



TRB Aviation Standing Committees

- Aviation Administration and Policy
- Aviation System Planning
- Environmental Issues in Aviation
- Aviation Economics and Forecasting
- Airport Terminals and Ground Access
- Airfield and Airspace Performance
- Aircraft/Airport Compatibility
- Aviation Safety, Security and Emergency Management
- New Users of Shared Airspace

[http://www.trb.org/
Aviation1/TRBCommittees](http://www.trb.org/Aviation1/TRBCommittees)

ACRP Oversight Committee

Chair: Rhonda Hamm-Niebruegge, Lambert- St. Louis Int'l Airport

Vice Chair: Marianne Csaky, Alaska Airlines

Members:

Gloria G. Bender, TransSolutions

Balram Bheodar, Hartsfield-Jackson Atlanta Int'l Airport

Rochelle Cameron, Philadelphia Int'l Airport

Darryl Daniels, Jacobsen Daniels Associates

Kimberly Kenville, University of North Dakota

Winsome Lenfert, Federal Aviation Administration

Lance Lyttle, Seattle-Tacoma Int'l Airport

Scott McMahon, Morristown Municipal Airport

Frank Miller, Burbank-Glendale-Pasadena Airport

Ramon Ricondo, Ricondo & Associates

Cathryn Stephens, Eugene Airport

Ex Officio Members:

Sabrina Johnson, U.S. EPA

Chris Oswald, Airport Council International-NA

Laura McKee, Airlines for America

Greg Pecoraro, National Association of State Aviation Officials

Justin Barkowski, American Association of Airport Executives

T.J. Schulz, Airport Consultants Council

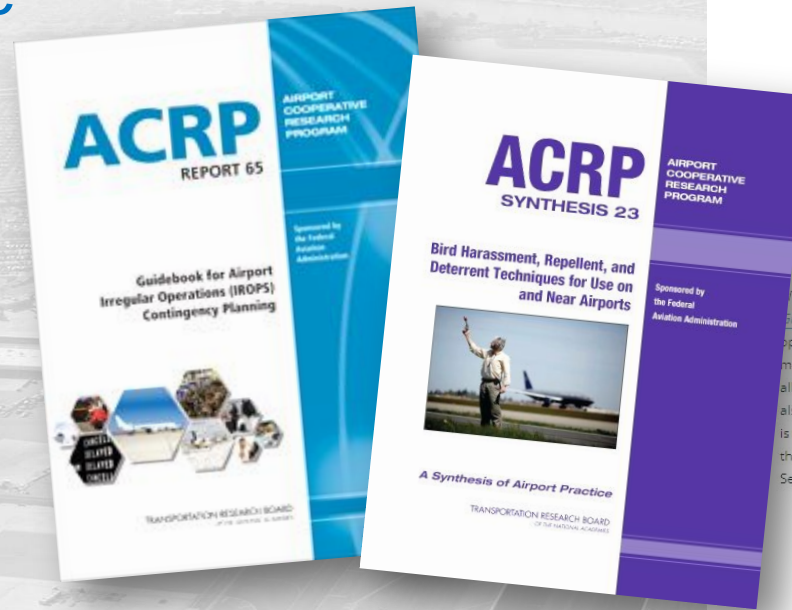
Neil Pedersen, Transportation Research Board

Secretary:

Christopher Hedges, Transportation Research Board

Types of Products

- Guidebooks
- Legal Resources
- Syntheses of Practice
- WebResources
- Databases
- Tools/Models

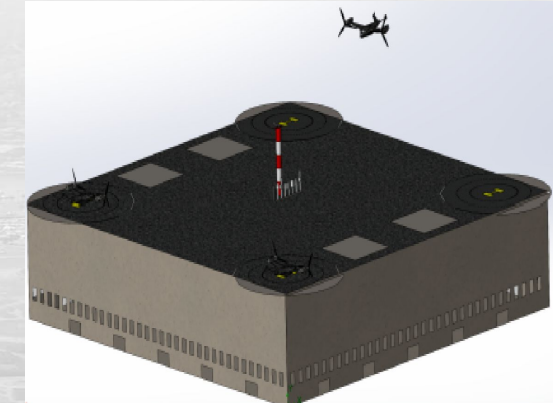
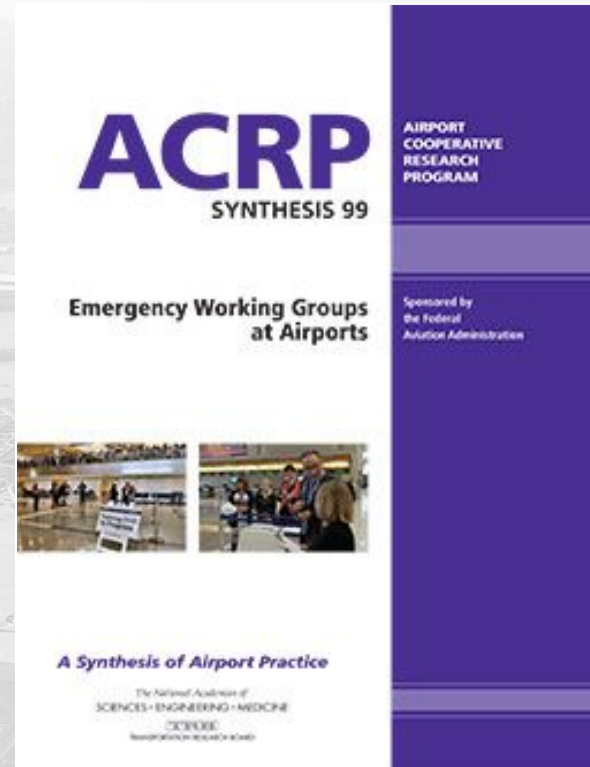


ACRP Insight Events



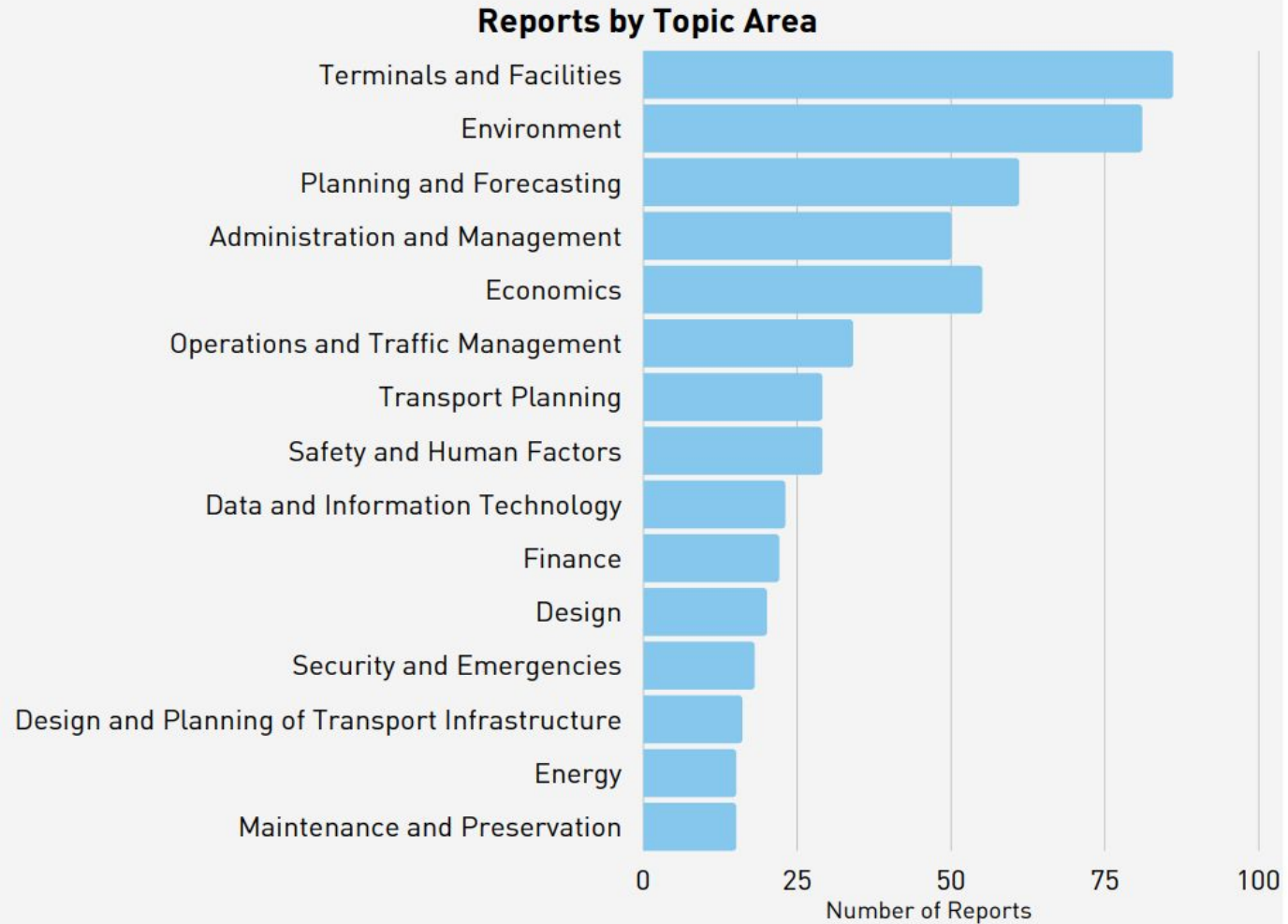
- Bring industry leaders, topic experts, and researchers together to discuss emerging topics of significance to airport operators.
- Promote communication and collaboration, foster innovation.
- Identify areas of future interest and research.

ACRP Subprograms

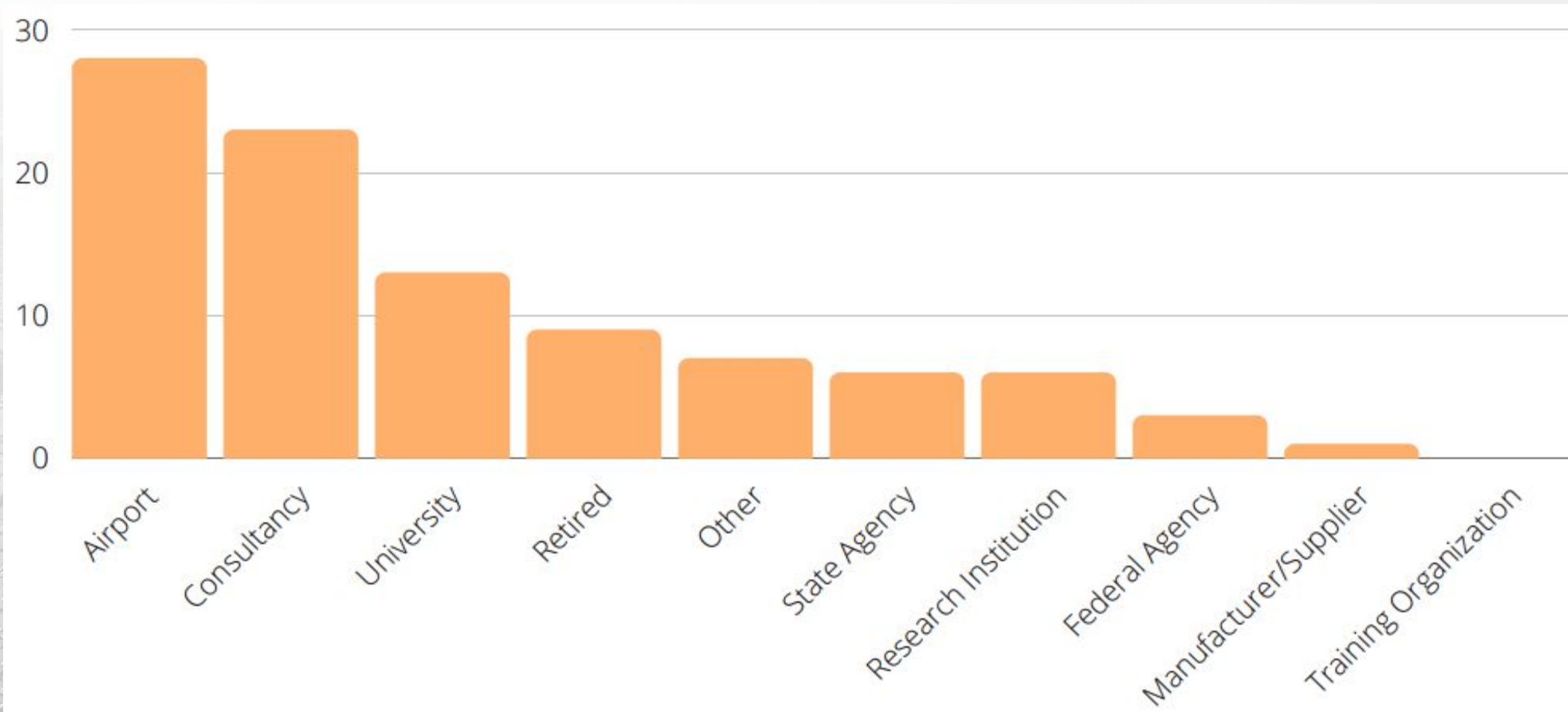


Graduate Research Award & Design Competition

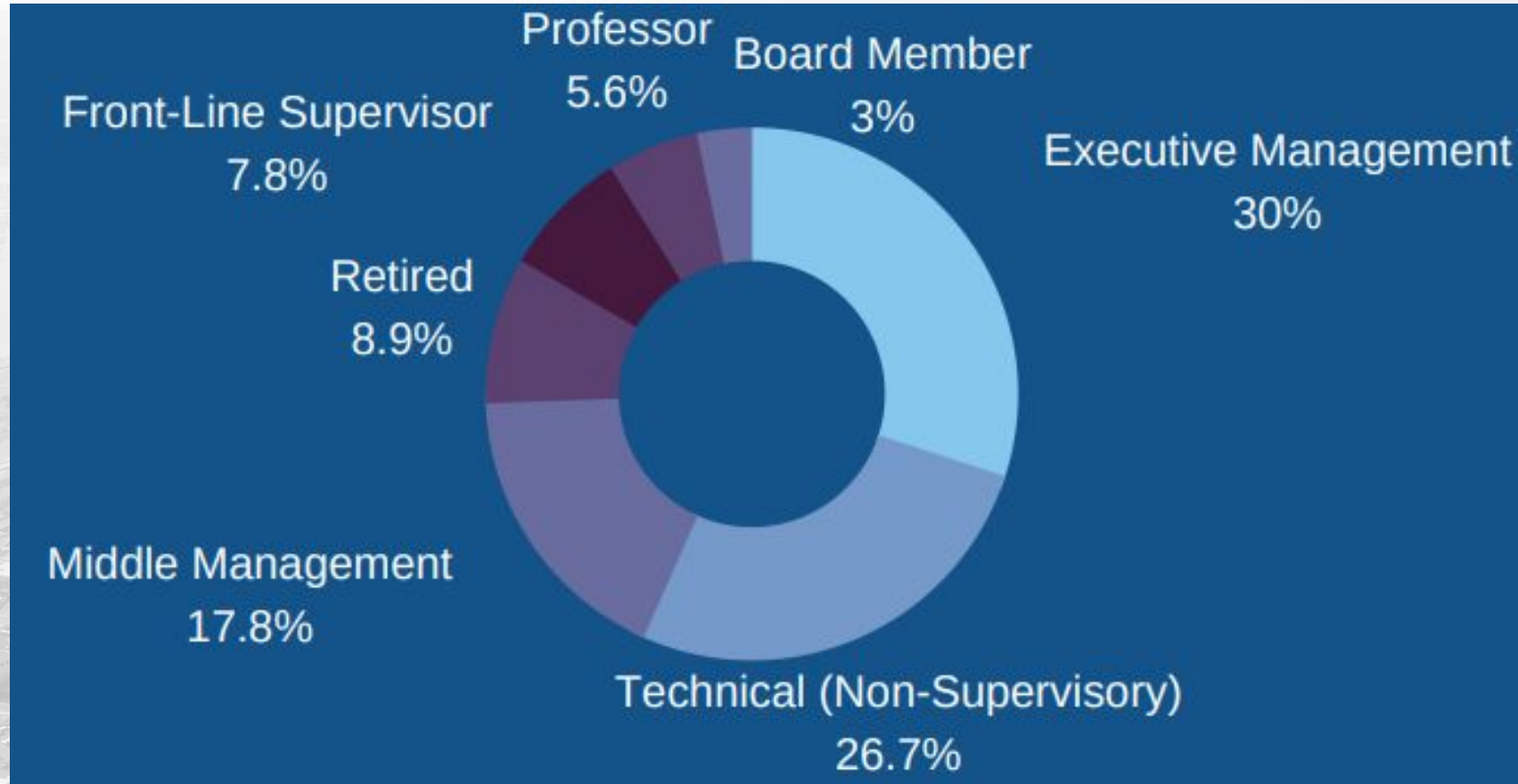
Most Popular Research Topics



Your Peers Are Taking Advantage of Our Products!



Benefits Found Across All Organizational Roles



How To Find Resources—Go to: <http://www.trb.org/ACRP>

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Provide Feedback

AIRPORT COOPERATIVE RESEARCH PROGRAM



Have you used an ACRP report? Share your story today

Publications
Research findings
projects managed

Projects
View all projects
as ideas from indu

Subprograms
Legal, Synthesis,
Students, Ambass

Getting Involved
For Project Panel
and Contractors.

Sponsored by the Federal Aviation Administration

The Airport Cooperative Research Program (ACRP) is an industry-driven, applied research program that develops near-term, practical solutions to airport issues. It is authorized by Congress, sponsored by the Federal Aviation Administration, and managed by the Transportation Research Board (TRB). Learn more about the program.

Find ACRP Research

Search: ☐ www.trb.org OR ☐ the TRID Database ☒ ACRP Publications

Estimating Market Value and Establishing Market Rent at **Small Airports** | Blurbs New | Blurbs | Main | new window | preview
Acpr: Administration, Airside, Business Development or Properties [show all 6]
Division: ACRP
<https://www.trb.org/Main/Blurbs/180278.aspx> - 165K - cache

Alternative IT Delivery Methods and Best Practices for **Small Airports** | Blurbs New | Blurbs | Main | new window | preview
Acpr: Administration / Human Resources, General-Aviation, Information Technology
Division: ACRP
<https://www.trb.org/Main/Blurbs/172180.aspx> - 164K - cache

Guidebook of Practices for Improving Environmental Performance at **Small Airports** | Blurbs New | Blurbs | Main | new window | preview
Acpr: Air-Quality, Engineering / Design / Construction, Environment [show all 10]
Division: ACRP
<https://www.trb.org/Main/Blurbs/164885.aspx> - 171K - cache

Marketing Guidebook for **Small Airports** | Blurbs New | Blurbs | Main | new window | preview
Acpr: Administration, Business Development or Properties, Finance and Budget [show all 5]
Division: ACRP
<https://www.trb.org/Main/Blurbs/163059.aspx> - 166K - cache

Refine by ACRP Topic Areas

- General-Aviation (4)
- Administration (2)
- Business Development or Properties (1)
- Administration / Human Resources (1)
- Air-Quality (1)
- Airside (1)
- Engineering / Design / Construction (1)
- Environment (1)
- Facility and Infrastructure Maintenance (1)
- Finance and Budget (1)
- Finance-Economics (1)
- Information Technology (1)
- Landside (1)
- Marketing / Public Relations (1)
- Noise-Impacts (1)
- Operations (1)
- Policy / Long-term Planning and Development (1)
- Sustainability (1)
- Water-Quality (1)

Announcements

Get Involved!

- Use Our Products
- Serve on a Project Panel
- Submit a Research Idea
- Contribute to Research
- Conduct Research

To subscribe to our listserv, send an email to:

LISTSERV@LSW.NAS.EDU

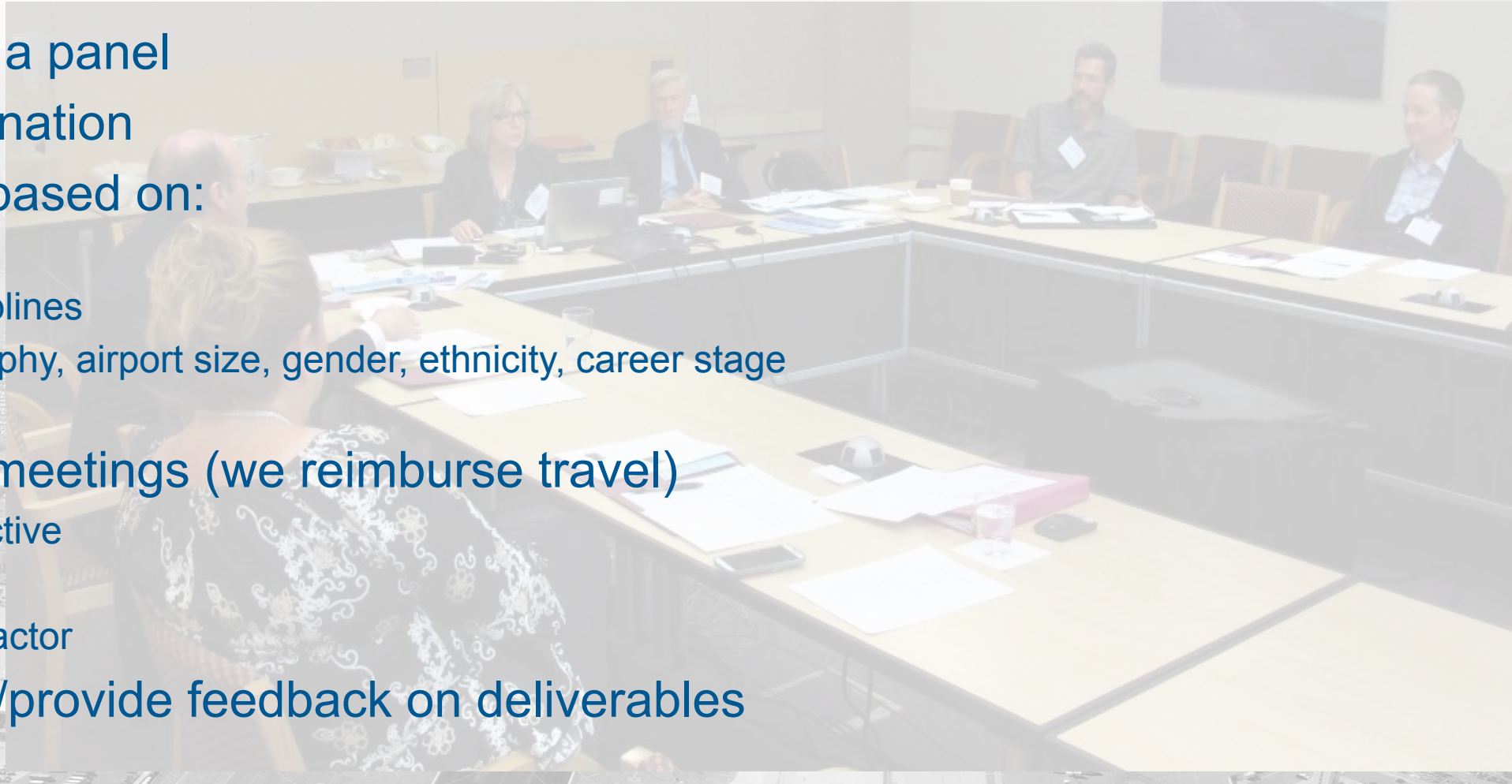
from the email address you would like to receive the announcements with one or more of the following lines as the body of the email depending on which list or lists you would like to join:

SUBSCRIBE ACRP_ANNOUCE

Serve on a Project Panel!

* Give back to industry * Network * Be on cutting edge of research

- Each project has a panel
- First step is nomination
- Staff form panel based on:
 - Topic
 - Perspectives/disciplines
 - Diversity of geography, airport size, gender, ethnicity, career stage
- Three in-person meetings (we reimburse travel)
 - Define scope/objective
 - Select contractor
 - Meeting with contractor
- Monitor progress/provide feedback on deliverables



Submit a Problem Statement (Research Idea)!

* If you have a problem, others likely do, too!

- Concise 1-2 page justification for research
- Provide:
 - Title (10 words or fewer)
 - Background (why research is needed)
 - Objective (what product(s) will be produced)
 - Research approach (general steps, if known)
 - Cost estimate (if possible)
 - Related research (to avoid overlap with other studies)

Contribute to ACRP Research!

* The quality of our research is related to contributions of practitioners

- Complete a survey
- Participate in a focus group
- Agreed to be interviewed



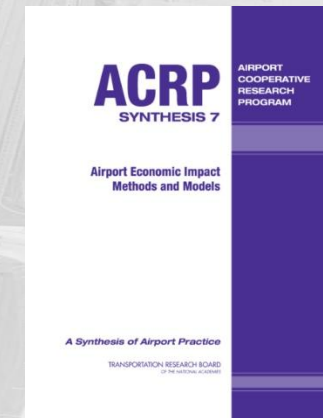
Submit a Proposal To Do Research!

* Get paid to do research * Be recognized as industry leader

- Concise (60 pages)
- Responsive to RFP
- Primary audience = Airports
- Clear, detailed research approach
- Balance demonstration of expertise with recognizing research need
- Meaningful diversity, equity, and inclusion
- Remember RFP special notes
- Panel roster available
- Questions? Contact CRP program officer

Hot Topics for Utah's Airports

- ACRP Research Report 236: Preparing Your Airport for Electric Aircraft and Hydrogen Technologies
- ACRP Research Report 243: Urban Air Mobility—An Airport Perspective (pub. Sep. 2022)
- ACRP Research Report 221: Measuring Quality of Life in Communities Surrounding Airports
- ACRP WebResource 12: Air Service Development and Regional Economic Activity (pub. Aug 2022)
- ACRP Research Report 216: Guidebook for Assessing Collaborative Planning Efforts Among Airport and Public Planning Agencies
- ACRP Project 02-102: A Balanced Look at Local Airport Activity and Climate Change (new project)
- Synthesis 7: Airport Economic Impact Methods and Models



Recent Publications

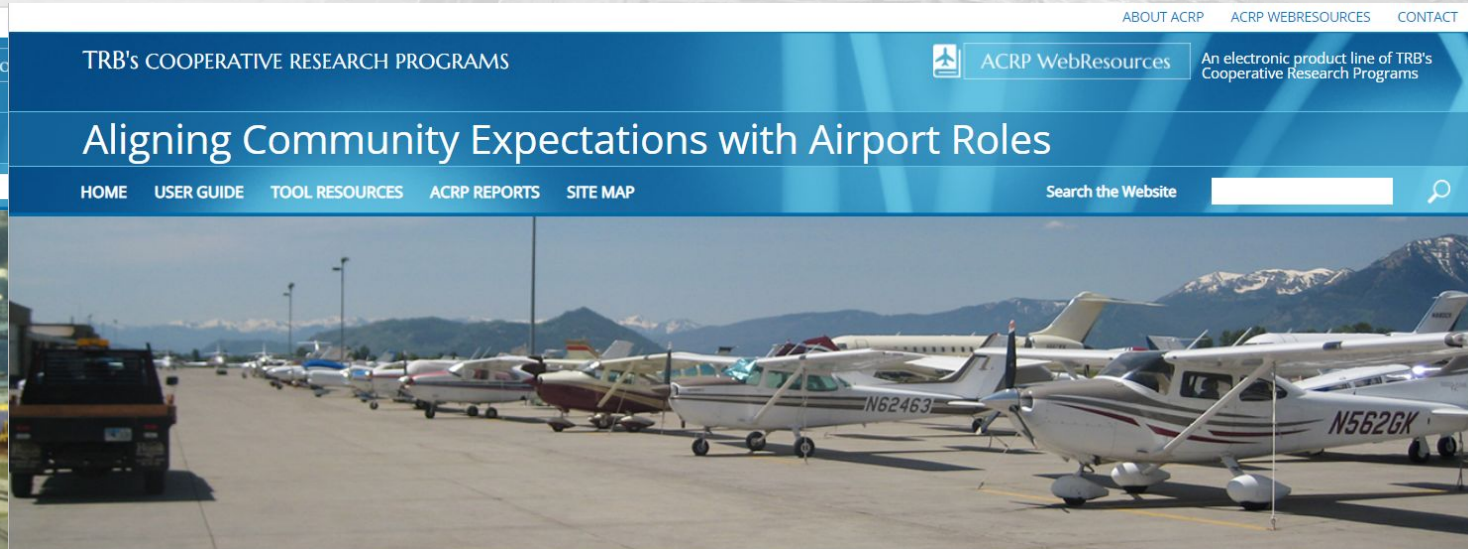
- ACRP Research Report 234: Rapid Slab Repair and Replacement of Airfield Concrete Pavement
- ACRP Research Report 233: Airport Biometrics: A Primer
- ACRP Research Report 232: Playbook for Cultivating Talent in the Airport Environment
- ACRP Research Report 231: Evaluating the Traveler's Perspective to Improve the Airport Customer Experience
- ACRP Research Report 229: Airport Collaborative Decision Making to Manage Adverse Conditions
- ACRP Synthesis 111: Last Mile in General Aviation—Courtesy Vehicles and Other Forms of Ground Transportation
- ACRP Synthesis 112: Airport Operations Training at Small Airports
- ACRP Synthesis 116: Examples of Facility Space Provided for Community Use at Airports
- ACRP Synthesis 117: Agricultural Operations on Airport Grounds
- ACRP Legal Research Digest 40: Permissible Uses of Airport Property and Revenue



ACRP WebResources



- WebResource 1: Aligning Community Expectations with Airport Roles
- WebResource 6: Resources for Managing Small Airports
- WebResource 7: Best Practices for Airport Obstruction Management Library
- WebResource 8: Integrating Social Media with Emergency Management at Airports
- WebResource 9: Airport Emergency Plan Development Tool



Your Challenges...Can ACRP Help?



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The screenshot shows the ACRP website interface. At the top is a navigation bar with links: HOME, MyTRB, CONTACT US, DIRECTORY, E-NEWSLETTER, SUBSCRIBE, FOLLOW US, and RSS. Below this is a header for 'The National Academies of SCIENCES ENGINEERING MEDICINE' and the 'TRANSPORTATION RESEARCH BOARD' logo. A secondary navigation bar includes links like 'About TRB', 'Annual Meeting', 'Calendar', 'Committees & Panels', 'Programs', 'Projects', 'Publications', 'Resources & Databases', and 'Provide Feedback'. The main heading is 'AIRPORT COOPERATIVE RESEARCH PROGRAM'. Below this is a large image of people in a meeting with the text 'Have you used an ACRP report? Share your story today'. To the right are four boxes: 'Publications' (Research findings of individual research projects managed by ACRP), 'Projects' (View all projects of the ACRP, originating as ideas from industry practitioners), 'Subprograms' (Legal, Synthesis, Insight Events, Univ. Students, Ambassadors and Champions), and 'Getting Involved' (For Project Panel Volunteers, Proposers, and Contractors). Below these is a section 'Sponsored by the Federal Aviation Administration' with a paragraph about the ACRP. Further down is a 'Find ACRP Research' section with a search bar containing 'small airport' and radio buttons for 'www.trb.org OR the TRID Database' (selected) and 'ACRP Publications'. At the bottom is a blue bar labeled 'Announcements'.

Let's see if ACRP has a product to help you address an issue!