ACRP Resources for Sustainability Planning

Burr Stewart, ACRP Ambassador

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ACRP

Agenda

1. What is ACRP?

2. Sustainability resources from ACRP

3. How you can get involved

ACRP Ambassadors

- Speak and exhibit on behalf of ACRP at regional conferences and events

- Introduce airport industry practitioners to ACRP and its research products

- Selected through competitive application process each fall (one or two positions per FAA region)

- Learn more at: trb.org/ACRP/ACRPAmbassadors.aspx
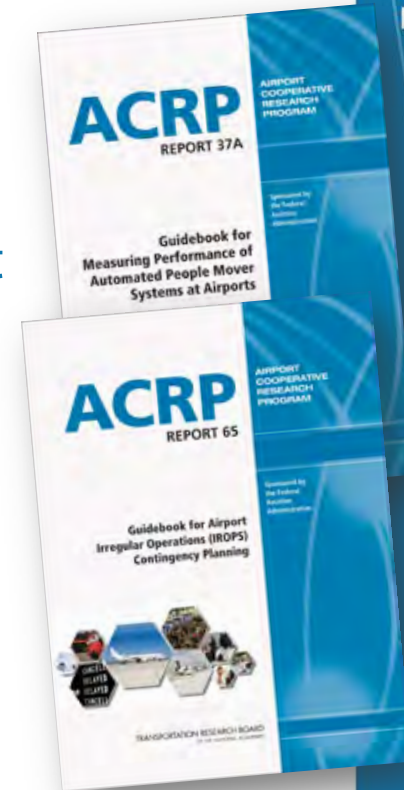
Transportation Research Board (TRB)

- 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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COOPERATIVE
RESEARCH
PROGRAM

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What is the Airport Cooperative Research Program (ACRP)?

- Began in 2006, authorized by Congress
- Funded and sponsored by FAA
- Managed by the Transportation Research Board
- Industry-driven, applied research program that develops near-term, practical solutions to problems airport operators face
- Research contractors selected on a competitive proposal basis
- Volunteer panels develop scope, select contractors, oversee research, and review results

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REPORT 37A

Guidebook for Measuring Performance of Automated People Mover Systems at Airports

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REPORT 65

Guidebook for Airport Irregular Operations (IROPS) Contingency Planning

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Research Process:

How ACRP takes a research idea to final publication

- A project panel is formed
- Panel develops scope of work from an original problem statement
- Panel reviews contractor proposals
- Panel oversees progress of selected contractor in completing the scope, through interim deliverables, teleconferences, and meetings
- Panel comments on draft final report to improve its value to the industry

How Topics Are Selected

- Industry practitioners submit research ideas
- ACRP Oversight Committee selects projects that focus on applied research
- Projects must be relevant, applicable, and valuable to airports
- Projects should not duplicate current research within ACRP or elsewhere in the industry
- Research must be technically feasible

ACRP Oversight Committee

Chair: James Wilding, Metropolitan Washington Airports Authority (Retired)

Vice Chair: Jeff Hamiel, Minneapolis-St. Paul Metropolitan Airports Commission

Members: James Crites, Dallas-Fort Worth International Airport

Richard de Neufville, Massachusetts Institute of Technology

Kevin Dolliole, Unison, Inc.

John Duval, AAE, Austin Commercial

Steve Grossman, Jacksonville Aviation Authority

Tom Jensen, National Safe Skies Alliance

Catherine Lang, Federal Aviation Administration

Gina Marie Lindsey, Los Angeles World Airports

Carolyn Motz, Hagerstown Regional Airport

Richard Tucker, Huntsville International Airport

Kitty Freidheim, Freidheim Consulting

Ex Officio Members: Paula Hochstetler, Airport Consultants Council

Sabrina Johnson, U.S. Environmental Protection Agency

Richard Marchi, Airport Council international-NA

Laura McKee, Air Transport Association of America

Henry Ogrodzinski, National Assoc. of State Aviation Officials

Robert Skinner, Transportation Research Board

Melissa Sabatine, American Association of Airport Executives

Secretary: Christopher Jenks, Transportation Research Board

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ACRP Research Areas

- Administration
- Construction
- Design
- Environment
- Human Resources
- Maintenance

- Operations
- Policy and Planning
- Safety
- Security
- Special Projects

General Sustainability Framework:

Equity — Employee benefits, community involvement, living wages, social responsibility

Environmental Justice

Social Responsibility

Organizational sustainability

Environment — Air and water quality, land use decisions, sediment clean-up

Efficiency

Economy — Financial performance, local economic impacts, local access to global economy

Sustainability Resources from ACRP: Planning and Administration

- Airport sustainability practices
- Economic impact methods and models
- Strategic planning in the airport Industry
- Developing an airport performance measurement system
- General Aviation business plans
- Enhancing the SAGA website
- Understanding air quality and public health studies related to airports

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Sustainability Resources from ACRP: Facility Development and Management

- Sustainable airport construction practices
- Incorporating sustainability into traditional airport projects
- Airport sustainability practices: tools for evaluating, measuring and implementing
- Energy facilities compatibility with airports and airspace
- Water resources issues affecting airport development planning

Sustainability Resources From ACRP: Operations and Maintenance

- Airport Building O&M Optimization and re-commissioning: a whole-systems approach

- Evaluating impacts of sustainability practices on airport O&M

- Recycling strategies for the airport industry

Sustainability Resources From ACRP: Climate Change and Fuels

- Guidebook on preparing airport greenhouse gas (GHG) emissions Inventories
- GHG reduction strategies for airports
- Climate change risk assessment and adaptation planning at airports
- Alternative turbine engine fuels
- Impact of jet fuel price uncertainty on airport planning and development
- Optimization of fuel burn, emissions and noise

Five ways to get involved

1. Submit a research idea, or "problem statement"
   - Deadline is in early March of each year
2. Volunteer to participate on a project panel.
3. Prepare a proposal to conduct research
4. Respond to a request for information or survey
5. Use the research results

ACRP Today

- 250+ research projects authorized
- 125+ ACRP publications
- 700+ industry volunteers are actively engaged with ACRP
  – Participants come from airports; airlines; consultants; academics; state and federal government; and industry associations
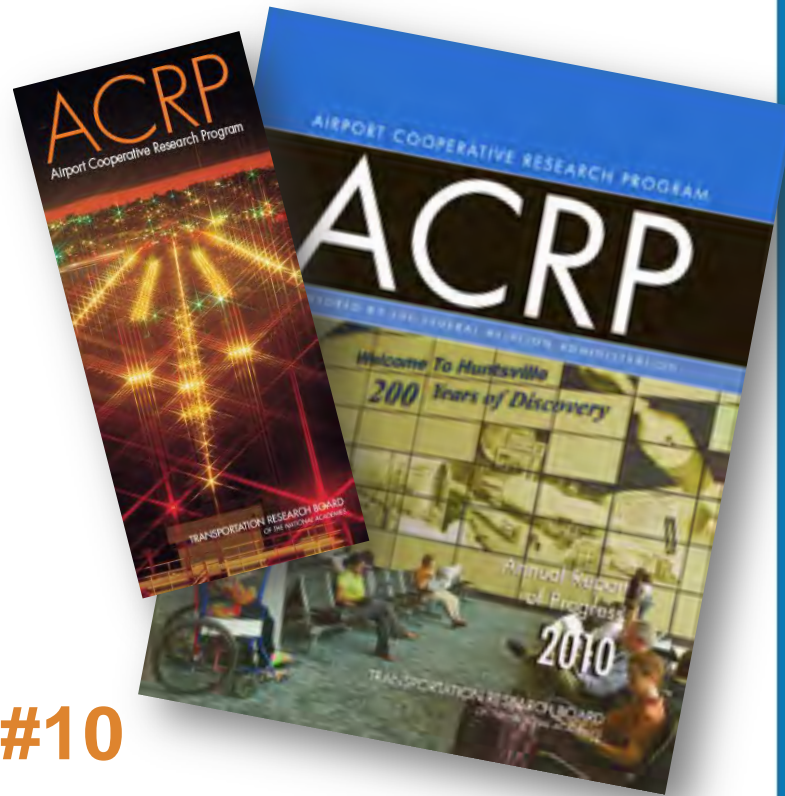- Current status of the research cycle

Visit www.TRB.org/ACRP

For information on ACRP's:

- Research projects
- Anticipated projects
- Publication lists
- Success stories
- Email news alerts
- Announcements
- And more!

And, visit our booth, #10