

Airport Cooperative Research Program

ACI-NA

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Cooperative Research Programs

Airport Cooperative Research Program

- **ACRP Objective:**
 - *To develop near-term practical solutions to problems faced by airports.*
- **Industry-Driven Program**
- **Customers: Airport Operators**
- **Focus on *applied research***



Airport Cooperative Research Program

Sponsor: FAA

Program Manager: TRB

Governing Board: AOC (apptd
by US DOT Secretary)

Timing: November 2005 and
continuing

Funding:

\$ 3.0 Million (FY '05)

\$10.0 Million (FY '06)

\$10.0 Million (FY '07)

\$10.0 Million (FY '08) (ant)



Cooperative Research Programs

Airport Cooperative Research Program Status

- 94 projects approved
 - 53 projects underway
 - 17 projects completed
 - 24 under development

7 reports published



Airport Cooperative Research Program Process

- TRB solicits problem statements
 - http://www.trb.org/news/blurbs_detail.asp?id=8723
- AOC selects problems to be researched
- TRB establishes project panel



Airport Cooperative Research Program

ORIGIN OF PROBLEM STATEMENTS

ORGANIZATION	FY 2005/2006		FY 2007		FY 2008		SELECTED TO DATE	
	NO.	%	NO.	%	NO.	%	NO.	%
Airport Operator	23	20.0	9	13.2	16	11.5	9	16.6
State DOT	13	11.3	5	7.4	8	5.8	3	5.6
FAA	0	0.0	0	0.0	8	5.8	6	11.1
Industry Assoc. Staff/Committee	13	11.3	2	2.9	11	7.9	10	18.5
TRB Committee	1	0.9	0	0.0	6	4.3	4	7.4
Industry	1	0.9	6	8.8	23	16.5	2	3.8
University	30	26.1	15	22.1	22	15.8	6	11.1
Consultant	29	25.2	26	38.2	30	21.6	9	16.6
Other	5	4.3	5	7.4	15	10.8	5	9.3
Totals	115	100	68	100	139	100	54	100



Cooperative Research Programs

Airport Cooperative Research Program Project Panels

- Develops RFP
- Select research agency
- Monitors and directs project through the final report stage



Airport Cooperative Research Program

PANEL COMPOSITION of ACTIVE PROJECTS

	No.	%
AFFILIATION		
Airport Operator	133	34.4
State Gov't	38	9.8
Local Gov't/MPO	21	5.4
Federal Gov't	14	3.6
Industry/Consultants/ Private Sector	133	34.4
University	32	8.3
Association	16	4.1
RACE		
	Members/Chairs	Members/Chairs
White	275/47	83.1/83.9
Minorities	56/9	16.9/16.1
GENDER		
	Members/Chairs	Members/Chairs
Male	262/39	79.2/69.6
Female	69/17	20.8/30.4



Cooperative Research Programs

Airport Cooperative Research Program Research Fields

01. *Administration*

02. *Environment*

03. *Policy and Planning*

04. *Safety*

05. *Security*

06. *Human Resources*

07. *Design*

08. *Construction*

09. *Maintenance*

10. *Operations*

11. *Special Projects*



Cooperative Research Programs

Airport Cooperative Research Program Projects

- ACRP 01-05, *A Guidebook for Airport Capital Delivery Systems (1/09)*
- ACRP 02-06, *Guidebook on Preparing Airport Greenhouse Gas (GHG) Emissions Inventories (9/08)*



Airport Cooperative Research Program Projects

- ACRP 03-05, *Passenger Space Allocation Guidelines for Planning and Design of Airport Terminals (11/08)*
- ACRP 03-13, *Understanding Airspace, Objects, and Their Effects on Airports (Pending)*



Airport Cooperative Research Program Projects

- ACRP 04-05, *A Guidebook for Airport Safety Management Systems (11/08)*
- ACRP 04-07, *Comparison of Apron Management and Control Programs With and Without Regulatory Oversight (RFP)*



Airport Cooperative Research Program Projects

- ACRP 07-03, *Developing Improved Civil Aircraft Arresting Systems (4/09)*
- ACRP 07-05, *Airport Passenger Terminal Planning Guidebook (12/08)*



Airport Cooperative Research Program Synthesis Reports

- S 5 Airport Ground Access Mode Choice Models
- S 6 Impact of Airport Pavement Deicing Products on Aircraft and Airfield Infrastructure
- S 7 Airport Economic Impact Methods and Models



Airport Cooperative Research Program

ACRP 11-04: Graduate Research Award Program in Public-Sector Aviation Issues

- *Purpose: to encourage applied research on airport and related aviation system issues and to foster the next generation of aviation community leaders.*
- Up to 10 awards of \$10,000 each will be given for the successful completion of a research paper to students enrolled in a Graduate Degree Program.



Airport Cooperative Research Program

Role of ACI-NA members:

- Inform local and state universities with programs in aviation. Website:

<http://www.trb.org/crp/acrp/awardprogram.asp>

- Suggest additional research topics on issues of concern.

Applications due by June 3, 2008, for the academic year 2008-09.



Cooperative Research Programs

Airport Cooperative Research Program

- Additional Information on ACRP can be found at:

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

