UTC RESEARCH PROJECT DESCRIPTION

PROJECT NUMBER
07102

PROJECT TITLE
Advanced Transportation Institute 07

PRINCIPAL INVESTIGATOR
Daniel S. Turner
Department of Civil and Environmental Engineering
The University of Alabama
Box 870205
Tuscaloosa, AL 35487-0205
(205) 348-9925
dturner@coe.eng.ua.edu

PROJECT OBJECTIVE
The purpose for conducting the fifth Advanced Transportation Institute (ATI 07) is to introduce high school students to engineering disciplines to transportation careers. ATI 07 will attract rising junior and senior high school students to help increase the size of the workforce within the transportation profession, and to produce a more diverse profession.

PROJECT ABSTRACT
ATI 07 will be will be jointly conducted by the University Transportation Center for Alabama (UTCA) and the Alabama Department of Transportation (ALDOT) in the ALDOT headquarters complex in Montgomery, Alabama. The week-long institute will feature presentations by practicing transportation professionals, design labs, field trips and similar activities to introduce students to the wide range of potential transportation careers. As in past years, each day will concentrate on one or two primary topics to thoroughly indoctrinate the students.

PROJECT TASK DESCRIPTIONS
Task 1: Review the previous versions of the institute to identify highlights, along with needed improvements and potential obstacles.
Task 2: Identify high schools for participation in ATI 07. Applications will be solicited and evaluated to select participants.
Task 3: Establish the Institute agenda, potential field trip sites, and potential instructors. Make arrangements for lodging, meals and transportation as needed.
Task 4: Conduct institute, tentatively scheduled for one week in June in Montgomery.
Task 5: Prepare the project final report.

MILESTONES AND DATES:
Task 1: Jan - Feb, 2007
Task 2: Feb - Apr
Task 3: Feb - May
Task 4: Jun – Jul
Task 5: Aug - Nov
Task 6: Sept - Dec, 2007

TOTAL BUDGET:
Twelve month project; UTCA budget $31,389; matching funds provided by existing SPR
projects conducted by other UA faculty members.

STUDENT INVOLVEMENT:
A minority civil engineering student will be hired for the spring and summer of 2006 to help
with the project.

RELATIONSHIP TO OTHER PROJECTS:
This project is an extension of two previous Advanced Institutes, conducted as UTCA projects
02113, 03113, 04115, 05107, and 06115.

TECHNOLOGY TRANSFER ACTIVITIES:
None

POTENTIAL BENEFITS OF THE PROJECT:
Students and chaperones will gain familiarity with the transportation field through the Institute,
and will be persuaded to consider transportation careers. Participants and assistants will
ultimately become part of the transportation environment as pre-college, undergraduates,
graduates and transportation professionals.

TRB KEYWORDS:
Transportation careers, transportation recruiting, diversity