PROJECT NUMBER:
03113

PROJECT TITLE:
Advanced Transportation Summer Institute II

PRINCIPAL INVESTIGATOR:
Daniel S. Turner
Department of Civil and Environmental Engineering
The University of Alabama
Box 870205
Tuscaloosa, Alabama 35487-0205
(205) 348-9925, (205) 348-6862 fax
dturner@coe.eng.ua.edu

CO-PRINCIPAL INVESTIGATOR:
Walter T. Anderson
Department of Civil and Environmental Engineering
The University of Alabama
Box 870205
Tuscaloosa, Alabama 35487-0205
(205) 348-9145, (205) 348-6862 fax
wtar3@yahoo.com

OBJECTIVE:
The Advanced Transportation Institute II (ATI2) will be implemented to introduce traditionally
underrepresented groups in engineering disciplines to pursue fields within Transportation. The
purpose will be to attract and introduce high school students to help increase diversity within the
Transportation profession.

ABSTRACT:
In 2002, UTCA and the Alabama Department of Transportation (ALDOT) presented the first
Advanced Transportation Institute at ALDOT headquarters in Montgomery, Alabama. The
unique work activities underway at the HQ and the instructional efforts of both sponsors allowed
the ATI participants to see a range of job opportunities, along with the full scale impact they
could have on the transportation profession and related industries.

Participants in the 2003 ATI2 will be high school rising junior/senior students, particularly
female and minority, from the normal recruiting area of ALDOT’s Professional Engineering
Education and Development Bureau. ATI2 will consist of the same, successful elements used in
the 2002 version. Work sessions, presentations, and site visits will be conducted on topics of
specific interest to the students each day, to emphasize the different aspects of transportation.
An additional ATI will be investigated for the Tuscaloosa area for the 2003 summer, utilizing ALDOT’s Fifth Division headquarters, the University of Alabama campus, and the City of Tuscaloosa’s Department of Transportation. This additional ATI session is expected to be less expensive than the initial session (i.e., reduced meeting costs and housing), and will be further evaluated to from a budget prospective prior to firmly committing to conduct it.

TASK DESCRIPTIONS:
Task 1 – Schedule Preliminary Responsibilities
Task 2 – Recruiting and Advertising
Task 3 – Scheduling
Task 4 – Conduct Institute
Task 5 – Final Report
Task 6 – Web Site

MILESTONES AND COMPLETION DATES:
Task 1 – Feb 28, 2003
Task 2 – Apr 30, 2003
Task 3 – May 31, 2003
Task 4 – Jun 30, 2003
Task 5 – Nov 30, 2003
Task 6 – Dec 31, 2003

TOTAL BUDGET:
Twelve month project; UTCA budget $50,962; matching funds provided by existing SPR projects.

STUDENT INVOLVEMENT:
This project could involve as many as five graduate and undergraduate students. One (graduate) will be employed for one semester and the others will be employed for one month. The students will design projects, prepare sessions, and conduct the institute sessions.

RELATIONSHIP TO OTHER PROJECTS:
This project is a continuation and expansion of UTCA project 02113, “Advanced Transportation Summer Institute.” While UTCA has conducted similar projects, they did not involve this age group.

TECHNOLOGY TRANSFER ACTIVITIES:
Tech transfer will consist of preparing a student page on the UTCA website, and distributing a final written report. Both can be used for future recruitment activities for UTCA and ALDOT’s PEED Bureau.

POTENTIAL BENEFITS OF THE PROJECT:
This project will be beneficial to UTCA’s goal of diversity, by attracting and educating minority students. Hopefully, after attending this institute, many students will become familiar with the field of transportation engineering and consider it as a profession (human resources).
TRB KEYWORDS:
Transportation, education, safety, diversity, outreach