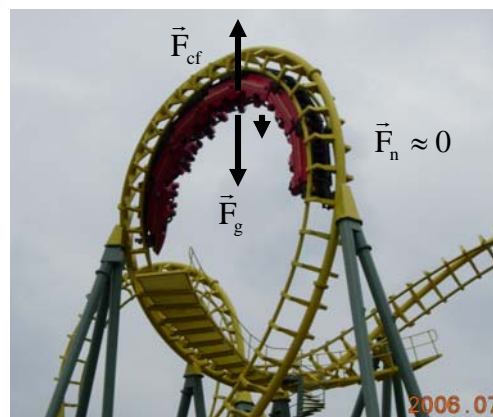




**Application for
UAB 2007 Summer Physics Workshop for High School Students
July 5-6, 9-10 plus 4 individually-scheduled days
Department of Physics, University of Alabama at Birmingham**

The Department of Physics will provide an exciting and beneficial summer experience for high-school students who enjoy the Physical Sciences. Students will be chosen from applicants who demonstrate interest and aptitude in Physics or related cross-disciplinary sciences. The purpose of the workshop is

- to give students experience in the life and work of researchers and university students,
- to learn what it takes to achieve success in science and technology,
- to experience advanced, modern research,
- to discuss science and careers with scientists of all levels, undergraduate student to full professor,
- to have some great fun while analyzing the Physics of Roller Coasters, competing in coaster design, and spending a day at Alabama Adventure experiencing the real-life aspects of this important (!?) arena of Physics!



The first four days concentrate on roller coasters, digital video analysis, accelerometers, design with software and testing with models. The following weeks offer individually-scheduled research lab experiences and a fall Einstein lecture. Research areas for the summer of 2007 can include astro-sciences, nanotechnology, electronic materials, computational physics, laser and optical physics, biophysics and physics education. Consult www.phy.uab.edu for information on Dept. research in general.

Eligibility. A candidate should be 16 or older and should normally have completed two years of college-prep science and math by the beginning of summer. Most applicants would have finished the sophomore or junior year of high school and had one or more courses in Physics, Physical Science and Chemistry. Students who will have graduated by June, 2007 will be considered if they have applied to UAB.

Selection Consideration. Approximately 20 students can be accommodated in this workshop. As a result, we will select participants based on date of application and on the candidate's expressed desire, plans, high school preparation and teacher/advisor endorsements. Additional factors, including an appreciation for the sciences demonstrated through participation in laboratory research or science fairs, will also be considered.

Dates and Location. July 5-6, 9-10, 2007, plus 4 research/shadowing days. Campbell Hall Room 310, Department of Physics, 1300 University Blvd., University of Alabama at Birmingham, Birmingham, AL 35294-1170. A trip to Alabama Adventure is scheduled for July 6. (You must arrange transportation.)

TARGET DATE FOR APPLICATION: APRIL 30, 2007 (OR CALL 934-0340)

Application Procedure. The student should provide the following material.

- The completed 2007 Workshop Application Form. You should print out the forms and mail to the address below or fill out the rtf forms on your computer and email to nordlund@uab.edu, with subject line, “2007 Workshop”. In the latter case, the signature page of the application and the check should be mailed to the address below.

- A \$15 check, nonrefundable, made out to “Dept. of Physics, UAB”, with “Physics Workshop 2007” written on the memo line. Upon acceptance, an additional fee of \$60 will be due (waiver requests considered).

Return these materials to

Prof. Thomas Nordlund, Undergraduate Program Director
Department of Physics, 1530 3rd Ave. S
University of Alabama at Birmingham
Birmingham, AL 35294-1170

Email: nordlund@uab.edu
Tel: 205-934-0340
Fax: 205-934-8042

TARGET DATE FOR APPLICATION: APRIL 30, 2007 (OR CALL 934-0340)

PLEASE TYPE OR PRINT NEATLY. TARGET DATE APRIL 30, 2007(OR CALL 934-0340)

2007 UAB SUMMER PHYSICS SUMMER WORKSHOP FOR HIGH SCHOOL STUDENTS		Date: _____
Last (family) name: _____	First (given) name: _____	M.I. _____
Address where you can be reached between now and July 4, 2007: _____ _____ _____	Secondary address (include dates): _____ _____ _____	
Tel: _____	Fax : _____	Email address: _____
Present Academic Level:		
School (name, city, state): _____ _____ _____	High School Grade Point Average _____ Grade Point basis (4 pt, 5 pt): _____	High School Counselor Office Tel: _____
List physics, math and chemistry courses taken. Indicate level (regular high school, AP, university . . .) and your grades. _____ _____		
List <u>major</u> awards and honors received. _____ _____ _____		
If applicable, list any colleges that have accepted you as a full-time student. _____		
First teacher/advisor reference: Name _____ Address _____ _____ _____ Tel: _____ Relationship: _____	Second teacher/advisor reference (optional): Name _____ Address _____ _____ _____ Tel: _____ Relationship: _____	
Your signature _____	Parent/guardian approval signature _____	
<i>Upon acceptance, an assurance of health coverage, waiver of liability and emergency contact information will be requested.</i>		

TARGET DATE FOR APPLICATION: APRIL 30, 2007 (OR CALL 934-0340)

Applicant Last Name: _____

UAB Physics 2007 Summer Physics Workshop

Briefly describe your interest in Physics, Engineering, Computer Science (etc.) and your college and career plans. Include in your discussion any important experience with the sciences: science fair competitions, research laboratory experience, publishing, tutoring, etc.

Do you have plans for UAB coursework or for a more extended internship as part of your pre-college preparation plans? Would you like to be considered for a UAB Physics internship? Explain.

I am requesting a \$60 fee waiver Explain below.

Signature _____

TARGET DATE FOR APPLICATION: APRIL 30, 2007 (OR CALL 934-0340)