

ASM Student Materials Camp

Are you interested in science, math, chemistry, and physics?

Did you ever wonder how materials are structured or fail?

Do you know about careers in materials engineering?



Apply for a chance to get an all expenses paid trip to a materials camp where you can have fun learning about materials engineering!

What is ASM Materials Camp?

- An academic camp utilizing hands-on learning principles of applied math, physics, chemistry, and basic physics.
- A very unique team-based, intensive problem solving science experience under the direction of a distinguished world-class faculty, "Materials Mentor".
- Combination of mini-demonstrations, field trips with extensive involvement in unique laboratory facilities to actively explore materials science & engineering principles.

2010 Student Materials Camps	Location	Dates
Cleveland, OH	ASM Headquarters	August 8-14
Raleigh, NC	North Carolina State University	TBD
Rolla, MO	Missouri University of Science & Technology	July 25-30
State College, PA	Penn State University	July 4-9

Who should attend?

- Students entering Grade 11 or 12 in high school in the Fall 2010 semester.
- Highly motivated inquisitive learners with math and science aptitude, or a strong desire to learn about materials.

What does it cost to attend?

- Students receive FREE housing (for residential camps only), meals, tuition, entertainment and knowledge.
- The local ASM Chapter of Edmonton will hold a city wide competition to send 1-2 students and cover all tavel expenses to any residental camp of the students' choosing (see application form on reverse).

How do students apply?

- Applications are available on the reverse, and are due by March 17, 2010.
- Required information includes school transcript and a maximum of two letters of recommendation.
- Personal essay (100 words or more) expressing "why you want to attend the ASM Materials Camp.

How are students selected?

- This is a competitive application process. Students must have basic knowledge of algebra, chemistry, and physics and describe why they want to learn more about engineering and materials science as a possible college major and career.
- Experienced practicing engineers review each application to select the "best and brightest", highly motivated students.
- Students must have a strong interest in applied science.
- Prior participation in science fairs is helpful to show interest, but certainly not required.

What will students actually do at Materials Camp?

- Have fun. Our number one goal is to make applied science an exciting, fun experience.
- Solve a technical problem. Using the "Failure analysis" exploration model, students work in small groups and investigate the failure of a man-made material to perform its intended function.
- Learn to use state-of-the-art research equipment in an engineering laboratory under the guidance of experts.

Where can I get additional information?

- Visit: www.asmfoundation.org
- □ Contact Dr. John Nychka, Edmonton ASM Chapter, Student Camp Coordinator, Tel: 780-492-4796, FAX 780-492-2881, email: jnychka@ualberta.ca



ASM MATERIALS CAMPSM

Please specify which ASM Materials Camp (location) you are applying for:

1 st Preference: _	
2 nd Preference:	

APPLICATION FORM

Address:	State f Birth: 's Name: s:	Zip Country				
(Street of P.O. Box) Email Address (most communication will be sent electronically, if possible): Citizenship:	f Birth: 's Name:s: _					
B. Email Address (most communication will be sent electronically, if possible): Citizenship:	f Birth: 's Name:s:					
Sex:MaleFemale Date or Sex:MaleFemale Date or Sex:Mother Address: Address	's Name: s:					
Sex:MaleFemale Date or Sex:MaleFemale Date or Sex:Mother Address: Address	's Name: s:					
Address:	's Name: s:					
Address:	S:					
City/State/Zip: City/State/Zip: City/State/Zip: City/State/Zip: City/State/Zip: City/State/Zip: Tel: Tel: Tel:						
Tel:	ate/Zip:					
7. Grade you will be entering in the Fall of 2010:1112 8. Name of high school:1 School Address:						
School Address: Street City Principal's Name: Current school year's grades on the following subjects (provide grades on the following subjects) Street City	(Day)	(Evening)				
	State	Zip Code				
2 4	Current school year's grades on the following subjects (provide grades on most recent grading period):					
 Science: Chemistry: Physics: Mathematics: 						
Part 2						
 A. <u>Attach a personal statement (100 words or more)</u> why you want to be sele include your planned college major (if known)/career plans. 	ected to participate i	n MATERIALS CAMP. Ple				
Attach a maximum of two (2) letters of recommendation.						
C. Are you related to an ASM member? Yes No						
If yes, please provide name of ASM member and your relationship:						
Name of ASM Member	-	Relationship				
Attach a copy of most recent report card. Enclose one (1) recent photo, 2x2 or larger, for publication. (Photo will not larger.)						

Please reuturn on or before March 17, 2010 by mail or email to:

DR. JOHN NYCHKA 9107-116 St., 7th Floor ECERF Chemical and Materials Engineering Department University of Alberta Edmonton, AB, Canada T6G 2G6

Email: jnychka@ualberta.ca