

MATERIALS ENGINEERING CAMPSM

July 29-August 2, 2013

Peoria, Illinois

www.asm-afs-peoria.org

ATTENTION: High School Students!

Who:

- Students entering their Junior or Senior year of high school, in Fall 2013.
- Highly motivated, inquisitive learners, with math and science aptitude.
- Students involved in math, science and industrial technology classes.

What:

- Weeklong summer day camp utilizing fun hands-on learning experiences involving math, physics and chemistry.
- A unique team-based, intensive problem solving, science experience, under the direction of a distinguished faculty "Materials Mentor".
- Combination of mini-demonstrations, field trips, and laboratory activities to actively explore materials science & engineering principles.

Where & When:

- **July 29-August 2, 2013**
- **8:00am - 4:00pm**
- **Bradley University, Various Caterpillar Facilities, Plant Tours of Local Industries**

Cost:

- 30 full scholarships will be provided to selected participants.
- All selected students receive **FREE** tuition, knowledge, meals and fun activities.

How to apply:

- Applications are due before **June 17, 2013**.
- *Applications are reviewed as they are received, so Camp may fill up before this date!*
- The application form is available on-line <http://www.asm-afs-peoria.org/students.asp>
- One letter of recommendation is required for every applicant.
- Submit your applications to:

Anthony Wilshire, Caterpillar Inc.

Mail: Anthony Wilshire
Caterpillar Inc., (41) Tech Ctr-E/854-Room 303
14009 Old Galena Road, Mossville, IL 61552

Email: Wilshire_Anthony_S@cat.com

Phone: 309-675-0632

Frequently Asked Questions



What is Materials Engineering Camp?

- A weeklong summer camp geared toward high school juniors and seniors exploring the exciting field of Material Science and Engineering.
- A day camp (non-residential), starting at 8:00 am and running to 4:00 pm.

How are students selected?

- 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/ career.
- Experienced, practicing engineers review each application to select the “best and brightest”, highly motivated students, who have an interest in engineering.
- Prior participation in science fairs or similar science-oriented activities is helpful but not required.

What is the structure of the camp?

- Monday: hands-on workshops on the Bradley University campus.
- Tuesday, Wednesday, Thursday: team activities at various materials facilities in the area, including the Hot Iron Blacksmith, Bradley University and Caterpillar.
- Friday: team presentations and graduation ceremony.
- There will also be plant tours of local materials engineering industries (transportation provided).
- Students are responsible for providing their own transportation to their assigned locations.
- A more detailed itinerary will be provided on the first day of the Camp.

What do students learn at Materials Camp?

Students have the opportunity to gain hands-on experience with materials processing and solve materials problems in a fun, interactive environment with their peers. During the week, students will have the opportunities to interact with adults employed in the industry and use a variety of processing and analysis techniques employed by practicing engineers every day. At the end of the Materials Camp, the students will walk out with a greater understanding of materials and materials engineering, as well as experience solving real-life materials problems in a stress-free learning environment.

What types of people work in this field?

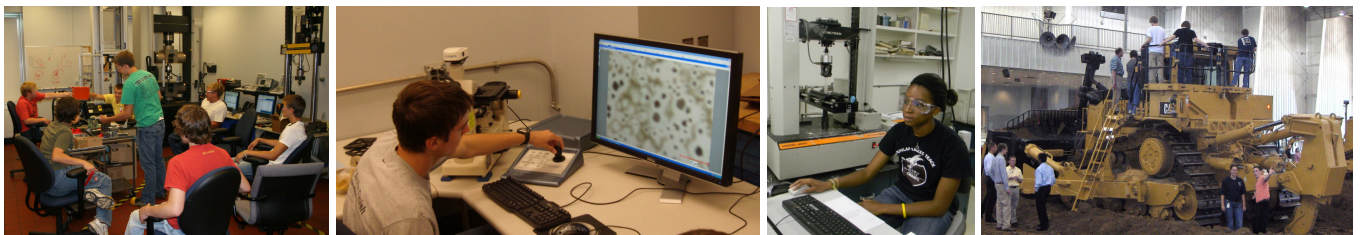
Materials engineering professionals are typically college graduates who studied engineering with an emphasis on metals, ceramics or polymers.

What is ASM International?

It is a global professional membership of 40,000 professionals working in the field of Materials Science and Engineering. ASM Materials Education Foundation is a non-profit organization devoted to helping excited young people worldwide to explore the field of Materials Science and Engineering. Programs include: Educational and career services, "Materials Camps," scholarships, leadership training, and providing information that promotes careers in the field.

Who pays for Materials Camp?

The ASM Materials Education Foundation, the Peoria Chapter of ASM, and local industries provide funds for all camp expenses, including food, tuition and tours. Camp mentors are volunteers, who often take personal vacation time to enable their participation.





ASM MATERIALS ENGINEERING CAMPSM

2005-2012 Participants

School	Year	Student Name
Brimfield	<i>2011</i>	Justin Keyt
	<i>2012</i>	Chris Robb
Brookfield Central	<i>2011</i>	Katie Bews
Carl Sandburg	<i>2008</i>	Kevin Vogelsang
Dee-Mack	<i>2011</i>	Samantha Doble
Dunlap	<i>2005</i>	Hashim Amrani, Jim Lewellyn, Sam Muir, Rorke Pauli, Olivia Smith, Ian Zhang
	<i>2006</i>	Hashim Amrani, Dave Fix, Erwin Gramajo, Andy Menke, Olivia Smith
	<i>2007</i>	Maryam Atta, Alyssa Holtman, Jim Lewellyn, Jeff Li, Daniel Wang
	<i>2008</i>	Maidah Atta, Maryam Atta, Michael Mathes
	<i>2009</i>	Alison Chen, Caitlan Grombka-Murphy, Lauren Kokos, Lily Liu
	<i>2010</i>	Norris Akpan, Nick Bjerke, Cody Durand, Mayuresh Gadgil, Kaitlynn Holshouser, Eric Motyl, Joseph Muir, Sameer Nagmiyan
	<i>2011</i>	Kyle Ernst, Vraj Patel, Samprati Shah
East Peoria	<i>2005</i>	Andy Crebo
	<i>2007</i>	Shane Markham
	<i>2008</i>	Shane Markham
Fieldcrest	<i>2009</i>	Kevin Block
	<i>2010</i>	James Leigh
Graceland	<i>2009</i>	George Fabish
ICC High School	<i>2009</i>	Jesse Fabish
IMSA	<i>2007</i>	Sebastian Tien, Feifei Ye
	<i>2009</i>	Shari Duval

School	Year	Student Name
IVC High School	2012	Connor Bogner, Cole Daly, Justin Brabant
Limestone	2010	Connor Carpenter, Nathan Lonetz
	2011	Connor Carpenter
Lowpoint Washburn	2009	Jonathan Heins
Manual	2009	Tavius Andrews, Ruben Moro
Metamora	2005	Spencer Brinker
	2008	Jacob Becraft, Anthony Rush
	2009	Muchina Green
	2010	Michael Clemons, Alec Gardner, Ben Roos, Nicholas Sikkema
	2011	Miranda Mientu
	2012	Andrew Fandel, Christian Costello, Daniel Ausman, Hunter Mathews, Kyle Messenger, Kyle Thompson, Melissa Chanto, Noah Majewski
Midland	2009	Hans Vik
Midwest Central	2008	Andy Hopkins
Morton	2005	Matt Bunten, Neil Connolly
	2010	Slater Klein
	2011	Cole Brunton, Gustav Hertenstein
	2012	Brian LaKemper, Nathan Driscoll, Yunkai (Jonathan) Zhou
Newark	2011	Nicholas Minarich
Normal	2011	Christopher Weyeneth
Pekin	2006	Kyle Patterson
	2007	Kyle Patterson
	2008	Nick Hasler, Dan Jonston, Taylor Lohman, Andrea Whitton
Peoria Central	2008	Jonathan Grimes

School	Year	Student Name
Peoria Christian	<i>2010</i>	Griffin Polonus, Luke Williams
	<i>2012</i>	Elizabeth Morris
Peoria Heights	<i>2006</i>	Kayla Myers
	<i>2008</i>	Cory Scribner
	<i>2011</i>	Ty Williams
Peoria Notre Dame	<i>2005</i>	Melanie Willi
	<i>2006</i>	Alex Boen
	<i>2007</i>	Nick Burek
	<i>2009</i>	Jacob Maloof, Monica Vargas
	<i>2010</i>	Mike Bodtke, Ben DeVore
	<i>2012</i>	Paul Ernst
Pontiac	<i>2005</i>	Blake Nestor
Princeton	<i>2009</i>	Dane Stier
Princeville	<i>2011</i>	David Braker
Richwoods	<i>2005</i>	Sarah Davis, Ron Gayles, Nick Greenway, Sarah Shareef, Amanda White
	<i>2006</i>	Arnima Bhasin, Joel Kouakou
	<i>2007</i>	Arnima Bhasin, Jonathan Duren, Daryn Harrell, Sumeet Shah
	<i>2008</i>	Eric Bergstresser, Detric Summerville
	<i>2009</i>	Prashant Guha, Bhavana Jasti, Ashton Long, Ravi Nagaraju, Surbhi Sachdev
	<i>2010</i>	Alex Arvizu, Lochan Bellamkonda, Conor Boyle, Ashton Long
	<i>2011</i>	Mitchell Frager, Manasseh Morris, Nora Race, Alexander Silver
<i>2012</i>	Chris Yarnot, Jaci Whitelow, Rishab Arora, Wesley Neal	
Riverside	<i>2011</i>	Jamin Griggs
Roanoke-Benson	<i>2005</i>	Kaleb Fehr
	<i>2011</i>	Kevin Pfister
	<i>2012</i>	Brad Moser

School	Year	Student Name
St. Bede Academy	<i>2010</i>	Justin Hunter
Tremont	<i>2008</i>	Carrie Pfleederer
Washington	<i>2006</i>	Stephanie McCoy, Devin Norton
	<i>2007</i>	Sarah McCoy
	<i>2011</i>	Taylor Wetherell
	<i>2012</i>	Connor Widder, Tyler Harris
Winnebago	<i>2011</i>	Owen Asner
Woodruff	<i>2009</i>	Kyle Berger
Home School	<i>2006</i>	Adam Johnson, Andy Johnson
	<i>2007</i>	Joshua Eckhardt, Andy Johnson
	<i>2010</i>	Andrew Crank
	<i>2012</i>	Dave Cale, Philip Dittmeier