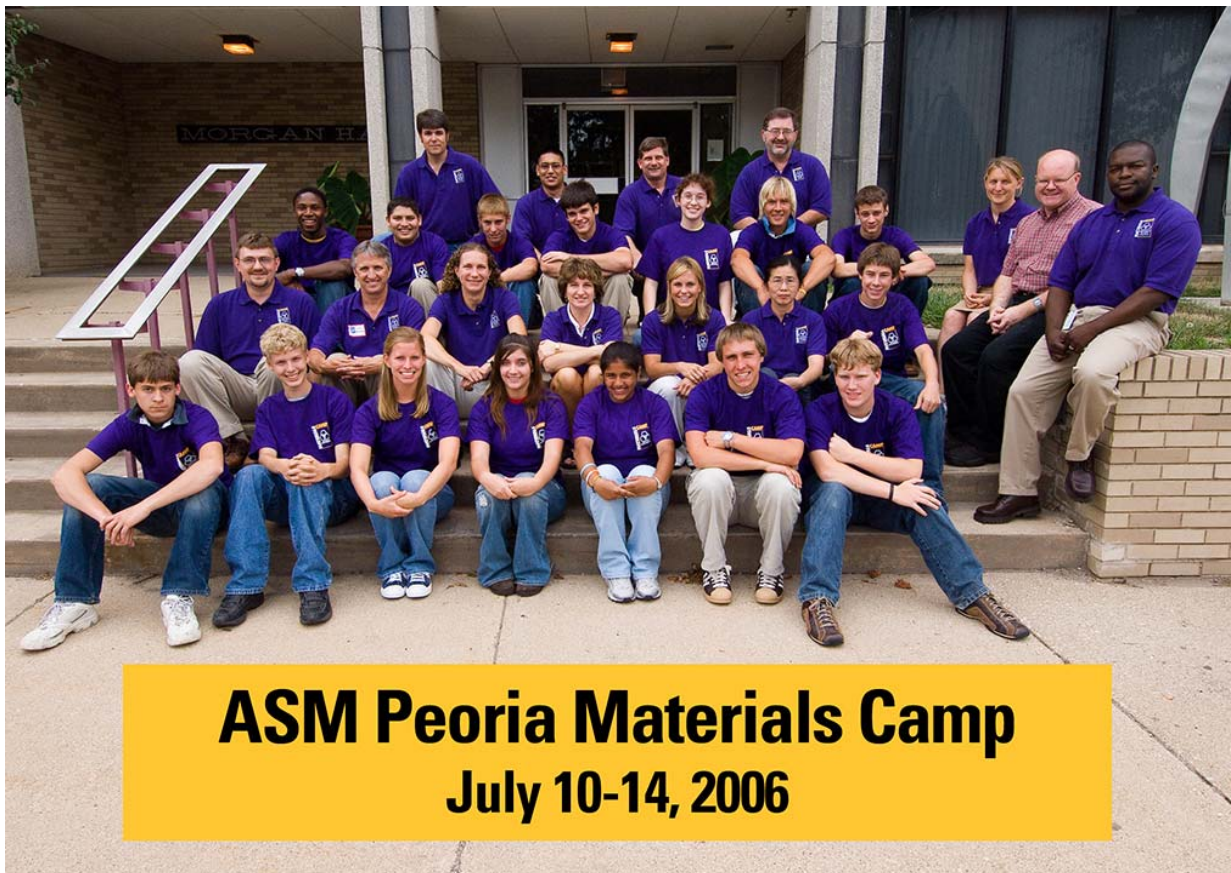


Materials Camp - Peoria

July 10-14, 2006

| Organizing Committee, Volunteers and Mentors | |
|---|---|
| <ul style="list-style-type: none"> • Jackie Earle, Caterpillar Inc - Chair • Ken Burris, Caterpillar Inc • Iqbal Shareef, Bradley University • Scott Wiseman, Caterpillar Inc • Allison Arndt, Caterpillar Inc • Phil Wilfinger, Caterpillar Inc • Lucy Davies, Caterpillar Inc • Constant Bissahoyo, Caterpillar Inc • Natalie LaFranzo, USDA Research Center | <ul style="list-style-type: none"> • Eugene Pascual, Caterpillar Inc - Chair • Mike Shockley, Caterpillar Inc • Tom Majewski, Caterpillar Inc • Scott Magner, Caterpillar Inc • Kate Chen, Caterpillar Inc • Mike Johnson, Caterpillar Inc • Jeff Jensen, Caterpillar Inc • Linda Cao, USDA Research Center |
| Industry Tours | |
| <ul style="list-style-type: none"> • Sabrina Arrick, Illinois Valley Plastics | <ul style="list-style-type: none"> • Craig Joraanstad, Parsons Company |
| Sponsors | |
| <ul style="list-style-type: none"> • Bradley University • Caterpillar Foundation • Smith-Nephew • LR Nelson | <ul style="list-style-type: none"> • Certified Heat Treating Co. • Alcast Company • Bender Foundry Service Inc. |



Front Row: (Left to Right) Kyle Patterson, Andy Johnson, Stephanie McCoy, Kayla Myers, Arnima Bhasin, Alex Boen, Adam Johnson.

Second Row: Jeff Jensen, Scott Wiseman, Allison Arndt, Jackie Earle, Natalie LaFranzo, Linda Cao, Dave Fix

Third Row: Joel Kouakou, Erwin Gramajo, Andy Menke, Matt Bunten, Olivia Smith, Devin Norton, Hashim Amrani

Back Row: Mike Johnson, Eugene Pascual, Tom Majewski, Ken Burris

Side: Lucy Davies, Mike Shockley, Constant Bissahoyo

The second Peoria Chapter Materials Camp was even better than the first! We began the week with a day of material science workshops and demos at Bradley University. We started Kickoff Monday with some icebreaker games and some exercises to give the students a general introduction to field of Material Science Engineering. Next, the students attended hands-on workshops on microstructure evaluation, failure analysis, mechanical testing, and material processing. At the end of the day, the students showed off what they learned during the Materials Jeopardy Game.



On Tuesday, Wednesday and Thursday mornings, the students divided into four project groups: 1) Testing feasibility of plant based lubricants, 2) Evaluating a tribological coating for use in an automobile manufacturing plant, 3) Evaluating the performance and cost of various brands of roller blade wheels, and 4) Comparing the quality of common mechanic's hand tools.



After the project session each day, the teams joined back together for lunch and a factory tour. During the week, the students visited Illinois Valley Plastics, Parsons, and Caterpillar.

On Graduation Friday at Caterpillar Building CV, all the students presented their team project to parents and sponsors, and afterwards they received their well-earned graduation certificate. The camp ended with a celebration lunch and an excitement to do the camp next year.

Student Participants

| | Last Name | First Name | School | State | Project |
|----|------------------|-------------------|----------------------------|--------------|---------------------------------|
| 1 | Bhasin | Arnima | Richwoods High School | IL | Plant Based Lubricants |
| 2 | Bunten | Matt | Morton High School | IL | |
| 3 | Norton | Devin | Washington High School | IL | |
| 4 | Smith | Olivia | Dunlap High School | IL | |
| 5 | Boen | Alex | Notre Dame High School | IL | Tribological Coating Evaluation |
| 6 | Johnson | Adam | Home School | IL | |
| 7 | McCoy | Stephanie | Washington High School | IL | |
| 8 | Myers | Kayla | Peoria Heights High School | IL | |
| 9 | Amrani | Hashim | Dunlap High School | IL | Roller Blade Wheels |
| 10 | Fix | Dave | Dunlap High School | IL | |
| 11 | Johnson | Andy | Home School | IL | |
| 12 | Menke | Andrew | Dunlap High School | IL | |
| 13 | Gramajo | Erwin | Dunlap High School | IL | Hand Tool Comparisons |
| 14 | Kouakou | Joel | Richwoods High School | IL | |
| 15 | Patterson | Kyle | Pekin High School | IL | |