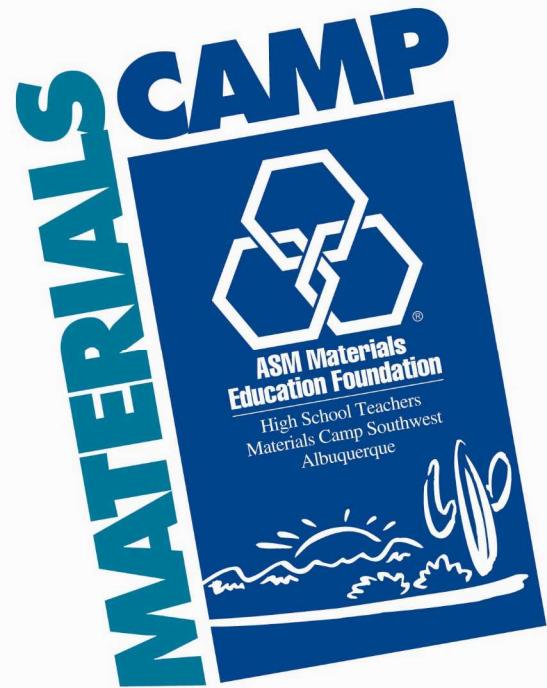


Best Practices / Lessons Learned

Albuquerque ASM Materials Camp for Teachers

SAND2006-5204C



ASM – LANL and
Albuquerque
Chapters



Matthew J. Perricone
Joining and Coatings Dept.
Sandia National Laboratories*
Albuquerque, NM

ASM Leadership Days
August 11-13, 2006

*Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company, for the United States Department of Energy under contract DE-AC04-94AL85000.

Albuquerque Teacher Camp : A Huge Success

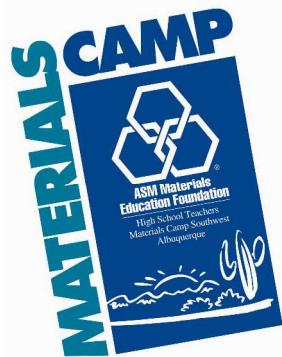


- Four Teacher camps so far...2003, '04, '05, '06
- ~ 25-30 teachers per year

- Full participation from several APS teachers in organizing and running the camp
- Attendance by APS Superintendent at Graduation
- These dedicated APS teachers started a Materials Science course for their High School chemistry curriculum!
- Fall 2005 first semester for the course: ~600 high school students!

- This year's attendees from 11 states (mixed commuter/residential camp)
 - 11 NM, 2 PA, 2 TX, 2 OH, 1 each from KS, AR, FL, MI, IN, KY
 - Urban (APS is 19th largest district in US) and rural (Quemado school district in NM has total of ~50 students, 1 science teacher, ...)





Best Practices / Lessons Learned

LOCKHEED MARTIN

ASM – LANL and Albq. Chapters



Sandia National Laboratories

- **Committed, dependable volunteers**
 - Commitment from SNL, Lockheed Martin Corp., Albq. ASM chapter, LANL ASM chapter, APS teachers
- **Schedule field-trips**
 - Gets students out of the labs and exposes them to real applications
- **Organized Course Materials**
 - Students follow the course better
 - Facilitates taking the knowledge with them
- **Lessons learned**
 - Don't schedule too close to July 4th weekend
 - Saturation of local teacher population?
 - Enthusiasm is great, but don't get bogged down in some of the subtle details of materials science



2006 Teacher Camp, Sandia High School, Albuquerque, NM

Sponsors...

- Lockheed Martin/Sandia National Laboratories Corporation Foundation
- ASM Los Alamos Chapter

Instructors and Organizers

- **Mr. Len Booth, North Thurston High School (Retired)**
- **Ellen Loehman, Albuquerque Public Schools**
- **Margaret Showalter, Eldorado High School**
- **Patricia Duda, Cibola High School (Albuquerque Public Schools)**

Other Volunteers/Organizing Committee

ASM Albuquerque Chapter

- J. Bruce Kelley, Sandia National Laboratories
- Don Susan, Sandia
- Matt Perricone, Sandia
- Alton D. Romig, Jr., FASM Sandia National Laboratories; ASM Materials Education Foundation Trustee

ASM Foundation

- Jeane Deatherage and Chuck Hayes

Guest Speakers/Presenters/Tours

- Ken Eckelmeyer, Sandia National Laboratories (Retired)
- Prof. Deirdre Hirschfeld, New Mexico Tech. University
- Garry Bryant, NM Blacksmith Assn.
- Jill Glass, Sandia National Laboratories
- Greg Jamison, Sandia
- Rob Sorensen, Sandia
- Bell Corporation, Albuquerque, NM
- Jim Aubert, Sandia

