

Teachers' Workshop



Our hands-on activities are aligned with the Indiana State Academic Standards.

Rocks and Minerals in Modern Society

June 22-24, 2010

**CONNER PRAIRIE LIVING HISTORY MUSEUM
Fishers, Indiana**

Registration Fee: \$55.00

***Sponsored by: The Indiana Mineral Aggregates Association
The Indiana Geological Survey***

Visit our web site: www.indmaa.org

**Indiana Mineral Aggregates Association
11711 N. College Avenue, Suite 180
Carmel, IN 46032-5601**

2010 Teachers' Workshop

“Rocks & Minerals In Modern Society”

TUESDAY, JUNE 22

11:30 a.m. to 12:00 noon	Registration	
12:00 noon	Welcoming Remarks	Robert Jones, IMAA Executive Director
12:10 – 12:20 p.m.	Overview of Program	Dana Boyd, P.I.E. Committee Chair
12:20 – 1:50 p.m.	“Hands-on/Minds-On” Session 1/Session 2	Workshop Staff
1:50 – 2:00 p.m.	Break	
2:00 – 2:30 p.m.	Rocks & Minerals in Indiana	Nelson R. Shaffer, Research Scientist Geologist, Indiana Geological Survey
2:30 – 4:00 p.m.	“Hands-on/Minds-On” Session 1/Session 2	Workshop Staff
5:30 p.m.	Board Bus at Holiday Inn Express to leave for BBQ at Brandeis Machinery & Supply Co	
6:30 - 9:00 p.m.	Teacher / Industry BBQ – Brandeis Machinery & Supply Company	
9:00 p.m.	Board Bus for Holiday Inn Express	

WEDNESDAY, JUNE 23

7:30 a.m.	Board Bus at Holiday Inn Express for Field Trip # 1	
7:45 a.m.	Board Bus at Conner Prairie for Field Trip # 1	
8:00 a.m.	Tour of Martin Marietta - Carmel Sand and 96 th Street Underground Mine	
	Orientation on Bus	
11:00 a.m.	Return to Conner Prairie	
11:00 – 11:30 am	Speaker to be announced	
11:45 – 12:15 p.m.	Lunch – Conner Prairie – Sponsored by Martin Marietta Aggregates	
12:15 – 12:30 p.m.	Break	
12:30 – 2:10 p.m.	“Hands-on/Minds-on” Session 3/4	Workshop Staff
2:10 – 2:45 p.m.	Overview of Indiana Geology	Walter Gray, Indiana Geological Survey
2:45 – 3:00 p.m.	Break	
3:00 – 4:45 p.m.	“Hands-on/Minds-on” Session 3/4	Workshop Staff
5:00 pm	Board Bus for Holiday Inn Express	

THURSDAY, JUNE 24

8:00 a.m.	Board Bus at Holiday Inn Express for Field Trip #2	
8:15 a.m.	Arrive at Irving Materials, Inc.- McCordsville Plant	
8:15 – 8:45 a.m.	Sieving/Sorting Activity	Kevin Holloway, imi
8:45 – 9:30 a.m.	Tour Irving Materials Inc.- McCordsville Plant	
9:30 – 11:00 a.m.	“Hands-on/Minds-on” Session 5/6	Workshop Staff
11:00 – 11:30 a.m.	Speaker to be announced	
11:30 a.m. - noon	Box Lunch and Evaluation Period	
Noon	Board Bus to travel to Holiday Inn Express	
12:30 p.m.	Departure	

Agenda for Hands-On Sessions

HANDS-ON / MINDS-ON SESSION 1

Mineral Detective

- “Is It A Rock or A Mineral?”
- Mineral Identification
- Metamorphic Sandwich

HANDS-ON / MINDS-ON SESSION 2

The Mining Process from Exploration to Operation

- Birdseed Mining
- Mining in a Nutshell

HANDS-ON / MINDS-ON SESSION 3

Uses of Mineral Aggregates in Everyday Life

- Toothpaste with a Twist
- Cereal Mining
- Use of Mineral Products

HANDS-ON / MINDS-ON SESSION 4

The Mining Process From Exploration To Reclamation

- Cookie Mining
- Mineral Depletion

HANDS-ON / MINDS-ON SESSION 5

- Concrete Basics
- Sorting / Sieving

HANDS-ON / MINDS-ON SESSION 6

Fossils

- Fossil Sleuth