

# Teachers' Workshop



## Rocks and Minerals in Modern Society

June 21-23, 2011

**CONNER PRAIRIE LIVING HISTORY MUSEUM**  
13400 Allisonville Road  
Fishers, Indiana

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

Visit our web site: [www.indmaa.org](http://www.indmaa.org)

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

# 2011 Teachers' Workshop

## “Rocks & Minerals In Modern Society”

### TUESDAY, JUNE 21

10:00 a.m. - 11:30 a.m.	Pre-Workshop Conner Prairie Tour (Voluntary)	
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 22

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 <sup>th</sup> Street Underground Mine	
	Orientation on Bus	
11:00 a.m.	Return to Conner Prairie	
11:00 – 11:30 am	Aggregate Blasting Today	Ernie Overton, Dyno-Nobel
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, Educational Outreach Coordinator, 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 23**

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 – 10:00 a.m.	Reclamation: A Journey Through Time	Brian Duncan, imi
10:00 – 11:00 a.m.	“Hands-on/Minds-on” Session 5/6	Workshop Staff
11:00 – 11:30 a.m.	Box Lunch and Evaluation Period	
11:30 – 12:30 p.m.	Board Bus then travel to Stony Creek Stone Quarry	
12:30 p.m.	Return to Holiday Inn Express for departure	

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## **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