

**Come Join Us For:**

*77<sup>th</sup> Annual Field Conference of Pennsylvania Geologists*

## **JOURNEY ALONG THE TACONIC UNCONFORMITY**



### **FIELD CONFERENCE OF PENNSYLVANIA GEOLOGISTS**

TBD Fall, 2012

#### *Hosts:*

Pennsylvania Geological Survey  
U S Geological Survey  
and more!

#### **Headquarters**

TBD in the Poconos Area of Northeastern, PA

The Field Conference of Pennsylvania Geologists has visited many sites along the Ordovician-Silurian boundary. The “transitional” contact between Silurian and Ordovician rocks in central Pennsylvania becomes unconformable in eastern Pennsylvania to southeastern New York as the hiatus widens. Following the northeastward decrease in intensity of deformation in the Ridge and Valley through New Jersey, this trip will begin with the high-angle contact between the Tuscarora and Hamburg sequence at the Schuylkill River and proceed for 120 miles along the very low-angle unconformable contact between Lehigh Gap, PA and Ellenville, NY. We will suggest predominant Alleghanian deformation along the contact and propose zones of increasing southeastward Taconic deformation away from the contact. The last stop will demonstrate the relative intensities and trends of Taconic and Alleghanian deformation, and we may also suggest the relationship between the Hudson Valley trend of structures and the northeastward dying-out Alleghanian structures. The perplexing story of events during the Taconic hiatus, lasting perhaps 10-20 million years, will be illuminated by an unusual diamictite in southeastern New York. We encourage submission of articles for the guidebook dealing with Alleghanian/Taconic deformation, and related stratigraphy and paleontology. At this time the field trip leaders that have been identified are Jack Epstein, USGS, and Don Monteverde and Ron Witte, New Jersey Geological Survey.

