Bedrock Projects completed or in progress

FY-2012
Quadrangles published
Cave-in-Rock
Dixon West
Dekoven
Hamburg
Hardin

FY-2013
Completed this year
Daysville
Repton
Hardin County Compilation
Walsh
Baldwin

FY-2014
Quadrangles in progress
Hardin
Harco
Galatia
Baldwin
Steeleville
Thebes
Highlights from **FY-2013** bedrock maps

**Daysville:**
- Focused on industrial minerals and aggregate resources
- Ordovician stratigraphy updated

**Walsh Quadrangle:**
- New outcrop studies have refined the Pennsylvanian unconformity in this area of SW IL
- Research continues on petroleum resources

**Hardin County and Repton:**
- Fluorite collected from Hardin County will be analyzed by students from University of Missouri-Columbia (fluid inclusion) and Southern Illinois University (isotopes)
- Core from Hicks Dome is being analyzed for REE
- Illinois Fluorite District Map being compiled by Curt Abert
Current and Proposed Bedrock Quadrangles

In Progress (yellow) FY-2014
1) Hardin: Seid and Devera
2) Baldwin: cut
3) Steeleville: cut
4) Harco: Denny, Elrick and Nelson
5) Galatia: Denny, Elrick, Nelson, Larson, and SIU students (magnetic surveys)
6) Thebes: cut

Proposed (green) FY-2015
(A) Franklin Grove: Kolata
(B) Hamburg: Seid
(C) Eldorado: Denny
(D) Ridgway: Denny
(E) Pope County: Devera
Proposed
Project A
FY-2015

Franklin Grove

Multi-year project in north-central Illinois

Project Leader will be Dennis Kolata
Continuation of multi-year north-central Illinois project area

(Pt) Pennsylvanian-Tradewater
(Opdc) Ordovician-Prairie du Chien
(Oa) Ancel Group
(Og) Galena Group
Proposed Project B
FY-2015

Hamburg Quadrangle

Mary Seid
Joe Devera
Proposed Hamburg Quadrangle

- Structural geology
- Economic resources
- New Albany Shale or Hannibal Shale

Current Hardin Quadrangle

- Foley Devera 2010
- Nutwood Devera and Seid 2008
- Winfield Seid and Devera 2008
- Brussels Seid and Devera 2008
- Grafton Denny and Devera 2002
<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>SERIES</th>
<th>FORMATION</th>
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<tbody>
<tr>
<td>Mississippian</td>
<td>Valmeyeran</td>
<td>Fort Payne Shale</td>
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<td>Burlington</td>
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<td>Springville Shale</td>
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<td>Kindertookian</td>
<td>Chouteau Limestone</td>
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<td>Hannibal Shale mbr.</td>
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<td>Saverton Shale mbr.</td>
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<td>Upper</td>
<td>New Albany Shale</td>
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<td></td>
<td>Grassy Creek Shale mbr.</td>
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<td></td>
<td></td>
<td>Sweetland Creek Shale mbr.</td>
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<td>Sylamore SS. mbr.</td>
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<td>Blocher Sh. mbr.</td>
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<td>Devonian</td>
<td>St. Laurent</td>
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<td>Formation</td>
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<td></td>
<td>Middle</td>
<td>Tioga Bentonite bed (0-0.6 ft.)</td>
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<td></td>
<td>Grand Tower Limestone</td>
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<td>Dutch Creek SS. mbr. (0-20 ft.)</td>
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<td>Lower</td>
<td>Clear Creek Chert</td>
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</tbody>
</table>

Blocher: calcareous black and gray shale anoxic deep water  
Sylamore: calcareous sandstone, thin present in NW Illinois  
Sweetland Creek: gray and green shale  
Grassy Creek: black shale highly resistivity on electric logs  
Saverton: blue to green-gray silty to calcareous, lateral to Hannibal  
Hannibal: gray and green silty shale with local black layers
Proposed Projects C and D

Eldorado (C)  
Ridgway (D)  
Quadrangles

Brett Denny  
John Nelson  
Scott Elrick
Current Harco Quadrangle Magnetic Survey
Oil Fields in the Harco through Ridgway Quadrangles

Project will also be assisted by:
● Southern Illinois University students to acquire magnetic geophysical surveys.
Proposed Project E FY-2015

Pope County

Joe Devera

Brett Denny
Pope County (E)
Devera and Denny
Proposed FY-2015 maps

FY-2015

Quadrangles proposed (Today)
A) Franklin Grove
B) Hamburg
C) Eldorado
D) Ridgway
E) Pope County