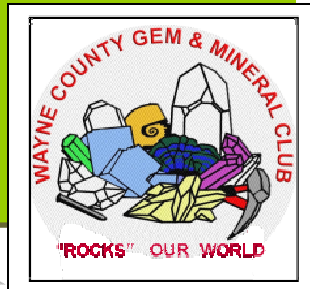




**WAYNE COUNTY  
GEM AND MINERAL CLUB  
NEWS**  
VOLUME 34 No. 6 JUNE 2008



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**President's Message**

Hi! Meet me at Ken and Roxanne Rowe's home, 488 S. Main St. Newark on June 13<sup>th</sup> at 4pm to work on the float. Roxanne will make her homemade pizza. Best wishes to Stephanie Mason on her move to Albuquerque, NM to begin her graduate studies at the Univ. of New Mexico in Albuquerque. Her guidance, knowledge and work with our Mini-Miners will be missed. Best of luck and bring some good stuff back to your friends here when you visit! Hey-Gotta GO!! -----Your President, Stan



**Earthquake Hazard Maps Show How the Nation  
Shakes with Quakes**

U.S.G.S. Dept of the Interior News Release

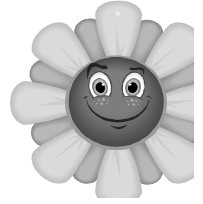
April's magnitude-5.2 earthquake in southern Illinois is a reminder that earthquakes are a national hazard. Today, scientists at the U.S. Geological Survey (USGS) are revealing how shaky the nation is by releasing an updated version of the USGS National Seismic Hazard Maps. Quakes remain a serious threat in 46 of the United States. For western Oregon and Washington, the new maps contain higher estimates for how hard the ground will shake compared to earlier versions of the maps released in 1996 & 2002. But for most of the US, the ground shaking estimates are lower. The revision incorporates new seismic, geologic and geodetic information on quake rates and the manner in which the energy released in earthquakes dies off with distance from the rupture. National-scale maps of earthquake shaking hazards provide information essential to creating and updating the seismic design provisions of U.S. bldg codes used. The timing of the National Seismic Hazard Map release is tied to the schedule for revising model building codes developed by international code committees, then state/ local governments consider adoption. Cities/ counties rely on seismic design provisions in bldg codes to ensure structures such as buildings, bridges, highways & utilities are quake resistant. "Hazard maps released today incorporate more than a century of seismic monitoring and decades of research," said USGS Director Mark Myers. "These maps help policymakers and engineers make all of our structures — from homes to hospitals to utilities that run beneath our feet — better able to withstand quakes of tomorrow." It is a series of maps & databases describing ground shaking at many points across the US, having many applications. They are used by insurance companies to set insurance rates for properties in various areas of the US, by civil engineers to estimate the stability and landslide potential of... (continued on page 2)

**Visit A Show or NEFTA dig in 2008** ---. **May 29- Sunday June 1, 2008.** North Shore Rock and Mineral Club. Hickory Hill, Fonda New York. Herkimer "Diamonds". Facilities & Camping/RV's. Tools-from hard rock mining- dolomitic limestone, heavy sledges and wedges to small raking and digging tools. Parking next to site. Contact Joe Grace at [joergrace@msn.com](mailto:joergrace@msn.com) **June 7 or 8, 2008...Wayne County Gem & Min. Club...Gore Mt.- Barton Mine, NY...for Gore Mt. garnet. Group taken in – pay by the lb of what you take. Contact Bill at [batnpill@empacc.net](mailto:batnpill@empacc.net) or 607-868-4649. CANCELLED and postponed!!(See page 3 for more information.) June 21, 2008...St. Lawrence County... Pitcarin, NY...Diopside, albite, wollastonite, calcite, titanite, Meet at Tripps Diner in Balmat, NY at 8:00am if interested in attending. June 28, 2008...Mid-Hudson Gem and Mineral...Fonda, NY...for Herkimer Diamonds at the Hastings Mine. No restriction on age. No facilities. Contact Carolyn Reynard at [sunstone3@hvc.rr.com](mailto:sunstone3@hvc.rr.com) for directions and instructions. June 28, 2008...Rochester Lapidary Society...Syracuse, NY area...for Selenite/Pyrite fossils. No facilities. Limited to 10 EFTA. Contact Cindi at [knewman@frontiernet.net](mailto:knewman@frontiernet.net)**

**Earthquake Hazard Maps Show How the Nation Shakes with Quakes** (continued)... hillsides, by the U.S. Environmental Protection Agency to set construction standards that ensure the safety of waste-disposal facilities, and by the Federal Emergency Management Agency to plan the allocation of assistance funds for earthquake education and preparedness. The geologic and geophysical data-collection, research and modeling results that underpin the maps have been generated by USGS scientists as well as their colleagues in academia, state government, and the private sector funded by external grants from the USGS Earthquake Hazards Program and other sources. The new maps represent the best available science as determined by the USGS based on an extensive information gathering and review process involving state and university experts nationwide. Last week the USGS and its partners released a new earthquake rupture forecast for California, the first ever such forecast done statewide. That forecast focused on the likelihood of earthquakes happening on specific faults. The National Seismic Hazard Maps take the information about those faults and calculate the intensity of shaking that a given location could potentially experience over a 50-year period. These shaking estimates combine the effects from all possible earthquakes, both nearby and distant. The changes in earthquake ground shaking estimates are due principally to the incorporation of new models on the strength of earthquake shaking near faults, and the manner in which shaking decreases with distance. The increased hazard in western Washington and Oregon is due to new ground-motion models for the offshore Cascadia subduction zone. Because of new models, ground motion estimates in the Central and Eastern United States are about 10 – 25 percent lower. Ground motion estimates in most of California, Utah, Nevada, Arizona, Idaho and western Montana are as much as 30 percent lower for shaking that affects taller multi-story buildings. For those same areas, ground motion estimates remain nearly the same for shaking that affects structures of one or a few stories. Because these maps are done at a national scale, they do not take into account local soil conditions and the depth of sedimentary basins, which can significantly amplify shaking relative to bedrock. As a result, site-specific factors are applied in the building codes to determine the seismic design needed for individual structures. The map included the following regional changes: Several new faults were included or revised as a source of earthquake ground shaking in California, the Pacific Northwest and the Intermountain West. The Wasatch fault in Utah was modeled to include the possibility of a magnitude-7.4 earthquake, in addition to smaller earthquakes along the fault. The model for earthquakes along the New Madrid Seismic Zone in the Central United States includes a wider range of possible magnitudes and return periods between major earthquakes. The model was also adjusted to allow for sequences of earthquakes to occur in groups of three within a few years time, similar to what occurred in 1811 – 1812. Offshore faults were added as possible sources of earthquakes near Charleston, S.C. For the Cascadia Subduction Zone, more weight was given to a magnitude-9 earthquake that ruptures the length of the subduction zone, versus multiple smaller magnitude-8 earthquakes that fill the zone over the same 500-year time period. For individuals and communities, knowing where earthquakes occur and their effects is just the start down the road to preparedness. The USGS encourages all citizens in earthquake-prone areas to follow the Seven Steps to Earthquake Safety, which can be accessed at [http://www.earthquakecountry.info/roots/seven\\_steps.html](http://www.earthquakecountry.info/roots/seven_steps.html). The USGS National Seismic Hazard Maps are available at <http://earthquake.usgs.gov/research/hazmaps/> USGS provides science for a changing world. For more information, visit [www.usgs.gov](http://www.usgs.gov).

## UPCOMING WCGM CLUB MEETINGS

**JUNE 13, 2007 (Friday) No regular meeting!! BUT>>>**Members are Encouraged to meet at 4pm at the home of Ken and Roxanne Rowe to work on the parade float. (4pm 'til ?? Be late is you need to do so.) Roxanne will make home-made pizza. Newarkfest is going on. You won't be able to get to the church. See page 3 for more details.



**\*\*\*\*SEE DETAILS IN THE NEXT NEWSLETTER OR ON THE WEBSITE ABOUT THE JULY 11, 2008 MEETING! HEY--DON'T FORGET TO COME TO THE CLUB'S PICNIC!! THE NEXT NEWSLETTER WILL HAVE INFORMATION.**

### CLUB NEWS TO dig - Kudos, too!

1. In lieu of the regular June 13<sup>th</sup> meeting at the church, the parade float committee will be meeting at Ken and Roxanne Rowe's house at 4pm until whenever. All members will be working on the float. Roxanne's gonna make homemade pizza for dinner! Bring kids to help, snacks, and Xmas tree lights or whatnot to put on the float. The theme will be "All that Glitters is Not Gold". Call Ken and Roxanne Rowe for information.
2. Bill Lesniak reports that the EFTA Website is up & running with this year's field trips. [www.efta.biz](http://www.efta.biz)
4. **Plz: submit newsletter articles in writing BEFORE the 22nd of the month.**
5. **MOTOR HOME** for sale. Call Stan for info. 315-462-3282.
6. Pat Chapman reports 14 dug at May's Herkimer Dig.

### 35 YEARS OF ROCKIN'!!!

"Rockhounding is a recreational and educational hobby for all ages. **In photo are Jim and Marion Wheaton of East Williamson.** They have been members of the Wayne County Gem and Mineral Club since 1973 when Marion co-founded it and have collected most of their rocks over the years through digging, trading and buying." (© 1997 Courier-Gazette, 613 S. Main St. Newark, N.Y. 14513) Recently however, due to declining health, Jim and Marion have decided to downsize to apartment-living so they need to disburse their decades-old collection. Ken Rowe, Bill & Pat Chapman, & Jerry Donahue are helping to catalog and move these items. Later this year, an event and/or events will be planned to liquidate the collection after representatives from the NYS Museum have reviewed the specimens. Then our WCGMC membership will disburse the collection and proceeds will go to benefit Jim and Marion. This newsletter will announce the details of future events as soon as details are known. For info, call any aforementioned folks.



### WCGMC GORE MOUNTAIN FIELD TRIP AND DIG RESCHEDULED FROM JUNE 2008 TO AUGUST 2008

The Gore Mt.-Barton Mine Trip has been rescheduled to August 26th. The mine is closed until the end of June at this point. There is a field trip during the St. Lawrence County show to look for tourmaline on Monday, August 25, 2008. It will be a travel & exploratory day between Canton, NY & North River, NY. We'll dig on Tuesday August 26<sup>th</sup>, 2008 at The Barton Mine. Further details will follow closer to the date of this field trip. Questions & inquiries should be sent to Bill Chapman 607-868-4649 or [batnpill@empacc.net](mailto:batnpill@empacc.net).

**WAYNE COUNTY GEM AND MINERAL CLUB, INC.**

**MEETINGS:** Held 2<sup>nd</sup> Friday night of each month at 7:30pm at Park Presbyterian Church basement, Maple Court, Newark, NY

**WEBSITE:** [www.wcgmc.org](http://www.wcgmc.org)

**ORGANIZED:** 1973 **INC.** 1976  
Affiliated with the AFML and EFMLS of Mineral Societies since 1973.

**OFFICERS:** Elected at the October meeting, taking office in November for a 2-year term.

**FISCAL YEAR:** Oct. 1<sup>st</sup> to Sept. 31<sup>st</sup>.

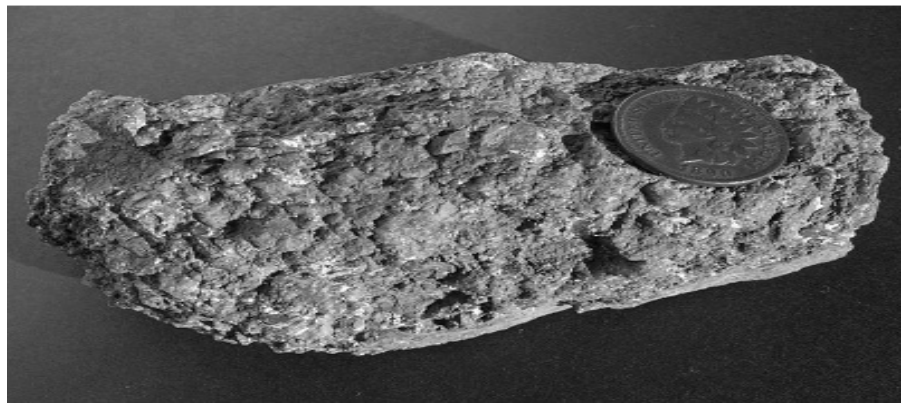
**\*\*NEW ANNUAL MEMBERSHIP CLASSES**

**AND DUES (due Oct 1<sup>st</sup>):**

- \$10.00 JUNIOR or STUDENT (18 yrs > with no parents in the club)
  - \$15.00 REGULAR or ONE SINGLE ADULT (Over age of 18 years old)
  - \$20.00 FAMILY MEMBERSHIP (Includes 2 adult votes and children)
- Send due, SASE with your info to:  
WCGMC, P.O. Box 4, Newark, NY 14513

**OBJECTIVE:** TO STIMULATE INTEREST IN THE EARTH SCIENCES, IN COLLECTING AND CLASSIFICATION OF MINERALS, AND IN THE ART OF GEM CUTTING.

**The public is welcome!!**



**Arkose**

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Arkose is a raw, coarse-grained sandstone, deposited very near the rocks that create its sediments. Arkose consists of quartz along with a significant proportion of feldspar, a mineral that usually degrades quickly into clay. Its mineral grains are generally angular rather than smooth and rounded, a sign that they were transported only a short distance from their origin. Arkose usually has a reddish color from feldspar, clay and iron oxides—ingredients that are mostly absent in ordinary sandstone. Arkose is similar to graywacke, which is also a rock laid down near its source. But whereas graywacke forms in a seafloor setting, arkose generally forms on land or near shore from the rapid breakdown of granitic rocks. This arkose specimen is of late Pennsylvanian age (about 300 million years) and comes from the Fountain Formation of central Colorado, the same stone that makes up the spectacular outcrops at Red Rocks Park, south of Golden. The granite that gave rise to it is exposed directly underneath it and is more than a billion years older.



Stamp

**Wayne County Gem and Mineral Club**  
Rebecca Remington-editor  
C/o P.O. Box 4  
Newark, New York 14513

First class: dated meetings and time valued.

