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**Issue 6: Rocks and Minerals** 

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(September 2008)

## **SEPTEMBER 2008**

**BY STEPHEN WHITT** 

## **READER OF THE ROCKS**



#### **READER OF THE ROCKS**

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reading rocks. tuode **Ditseizuntine** oz zyewle tinzew enz to say to me?" Julie says with a smile. Yet 

"et me be outside." bluow tent printtemos ob ot betrew l os science. But I really liked being outdoors, "I never thought I'd do anything involving .stimbe silul ",dtem bnidsd tdpir, loodoe "Science was my second-worst subject in



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**READER OF THE ROCKS** 

.paipned. events of the second state nosont e won zi qmewz lebiqort e ono sew tedW. qotnietnuom e won zi roolteez works. I hings change. What was once a important about the world and how it

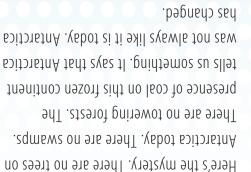


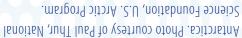




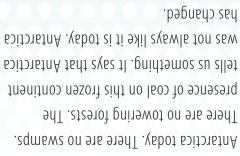


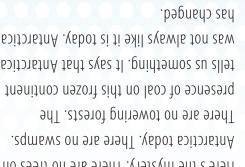












# CARAB RAJOG O



says, "that the professor could learn all this information just from rocks." lake and the rocks that make it up, she became hooked." I was amazed," she class that studied the history of Lake Erie. As Julie learned the history of the In college, Julie began by studying natural resources. Then she took a geology

#### **READER OF THE ROCKS**

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#### **GLOSSARY**

**CONTINENT** — one of seven large areas of land on Earth

**ENTHUSIASTIC** – excited

**FOSSIL FUEL** – fuel formed from the remains of once-living organisms

**GEOLOGY** – the study of rocks and minerals

**LAKE ERIE** – one of the five Great Lakes found in the Midwest region of the United States

**MALACHITE** – a green-colored mineral

Julie isn't just talking about her necklace. She's also describing her favorite subject, **geology**. Julie works at the U.S. Polar Rock Repository at Ohio State University in Columbus, Ohio. It is like a library of rocks from the Arctic and Antarctica. Scientists from all over the world have sent rocks there to be carefully studied and stored.









".yew tent mot yent won sur viles's s'eno oN" .enots edt ni slieteb circles here?" she says, pointing out the known as malachite. "See the green lt's a deep green, polished mineral pendant she wears around her neck. Codispoti. She's talking about the eilul aver ", suoirsterious," says Julie

**ekond** beneninz





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**ROCK** – a material made up of one or more minerals 956/bon 6 mort spined tedt togido ne - TNAQNA9

**WISCHIEVOUSLY** - playfully

repeating pattern

e ni begnerre seloitred diw leireten biloz, leruten e – **JARENIM** 

#### **READER OF THE ROCKS**

#### **READER OF THE ROCKS**

But this means more questions. What changed? Why did it change? Is Antarctica still changing today? How?

Julie knows that the rocks can give us the answers. "Rocks have a story to tell," Julie says, "they have a language. You just need to learn to read that language to understand the story they're telling.

"The rocks from Antarctica," Julie goes on, "are not all that different from rocks that come from other places in the world."



EYOND PENGUINS



#### **READER OF THE ROCKS**

**READER OF THE ROCKS** 



of rocks with others. really loves is sharing the mystery rocks and minerals. But what she photographing, and storing the , price of describing, the repository. This means that to roterus the assistant curator of



#### **READER OF THE ROCKS**

yourselt." You might just surprise at it, go for it, anyway. not necessarily good



everyone. "If there's something you want to do," Julie says, "but you're Ihe wonderful thing about science is that the mystery is open to

#### **READER OF THE ROCKS**

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For example, take a black, crumbly rock from the cold **continent** of Antarctica. Julie shares a secret. This rock is the **fossil fuel** we call coal. It formed many millions of years ago from trees that grew in an ancient

swamp. Generation after generation of trees grew, died, and fell, squashing one another under their enormous weight. Over millions of years, the trees decayed and became coal.

Coal. Photo courtesy of Wikimedia Commons.







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#### **READER OF THE ROCKS**

Now, Julie is becoming a reader of the rocks herself. "Professors make it look easy," she says, "but it's not that easy. Science is still hard for

me. But in a way, that makes it more satisfying. The fact that I can study something, work hard at it, and really understand it is very fulfilling to me."

