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ASH at work

Applications, Science and Sustainability of Coal Ash

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On the cover:

The American Coal Ash Association will celebrate its 40-year anniversary in Alexandria, Va., July 1 and 2, 2008. During this event the Coal Combustion Products Partnership (C²P²) will hold its awards ceremony. See full story on page 23.



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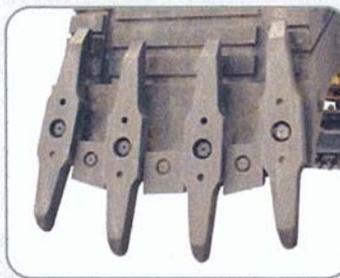
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THIS ISSUE

This month, Coal Age profiles National Coal Corp., a rising star in Appalachia. On the cover, from left to right, Danny Ingle, general superintendent of mines; David Heflin, mine foreman; and Harlan Cornelius, excavator operator, National Coal of Alabama.

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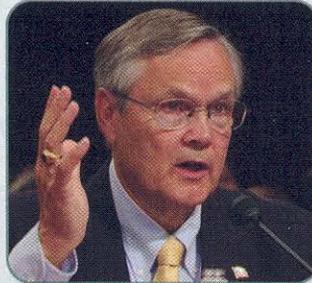
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THIS ISSUE

This month, Coal Age profiles Armstrong Coal. On the cover, miners restraining a Page 752 dragline for Armstrong's Midway mine, located near Centertown, Ky. (photo by Lee Buchsbaum, www.lmbphotography.com). Eventually, Armstrong will have three draglines operating in western Kentucky.

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Cover photo courtesy of Vestas Wind Systems; photo right courtesy of Terex-Demag



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30 First-of-its-kind structure will link China Central Television's administrators, producers, technicians and creative team in a spacious new headquarters.

Cover photo and photo right by Michael Goodman for ENR



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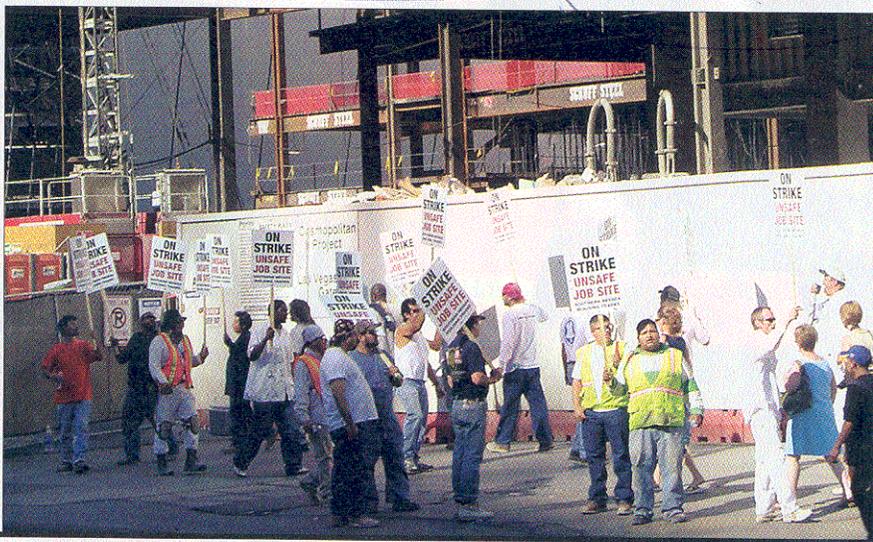
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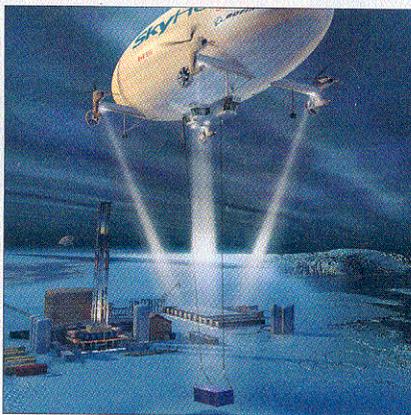
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Volume 6, Issue 3, June 2008

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A tribute to Terry Beveridge: Pioneer in the field of Geomicrobiology

Guest Editors

Dianne K. Newman – Massachusetts Institute of Technology, USA

Kurt O. Konhauser – University of Alberta, Canada

Anna-Louise Reysenbach – Portland State University, USA

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FEATURE

BALANCE OF POWER: A WARMING CLIMATE COULD AFFECT ELECTRICITY

Climate affects all major aspects of the electric power sector, from electricity generation, transmission and distribution systems to consumer demand. Because climate models predict that change will vary by region, it is likely that future effects on the electric grid will vary by region as well. The picture is not pretty.

Thomas D. Veselka



FEATURE

SEEDING THE SEA

Adding human-generated greenhouse gases into the atmosphere has arguably caused the problem of a warming climate; now some researchers say that altering nature further can fix it. They want to solve the planet's carbon problem through ocean iron fertilization. But will releasing iron into the oceans to combat climate change help or harm the planet?

Erin Wayman

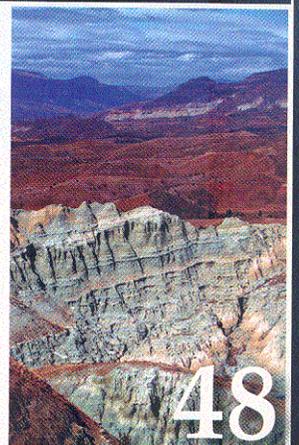


FEATURE

TRAVELS IN GEOLOGY: TWO OPTIONS IN OREGON

As anyone who has ever spent time in Oregon knows, there's something for everyone. Traveling to or through Oregon this summer? Be sure to check out John Day Fossil Beds in Eastern Oregon and the massive dunes along the coast in Oregon Dunes National Recreation Area.

Mary Caperton Morton and Jay Chapman



TRENDS AND INNOVATIONS

TRACKING DEADLY LAHARS

Researchers knew a torrential mudflow on New Zealand's Mount Ruapehu was imminent, so they set up monitoring equipment. When the lahar struck last year, they captured the world's most complete dataset of just what happens when mudflows cascade down volcanic slopes. The new data should help researchers better predict this sleeping danger.

Nicole Branam

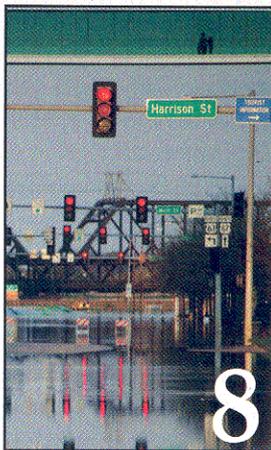


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Electricity lines. Corbis Images.

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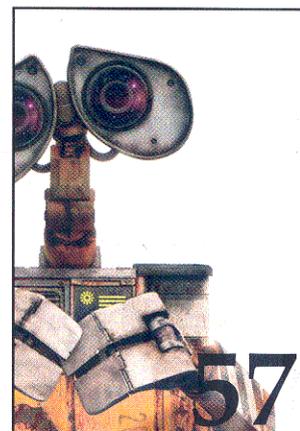


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Fred Schwab

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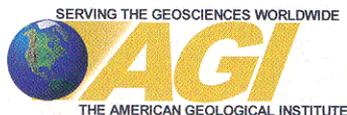
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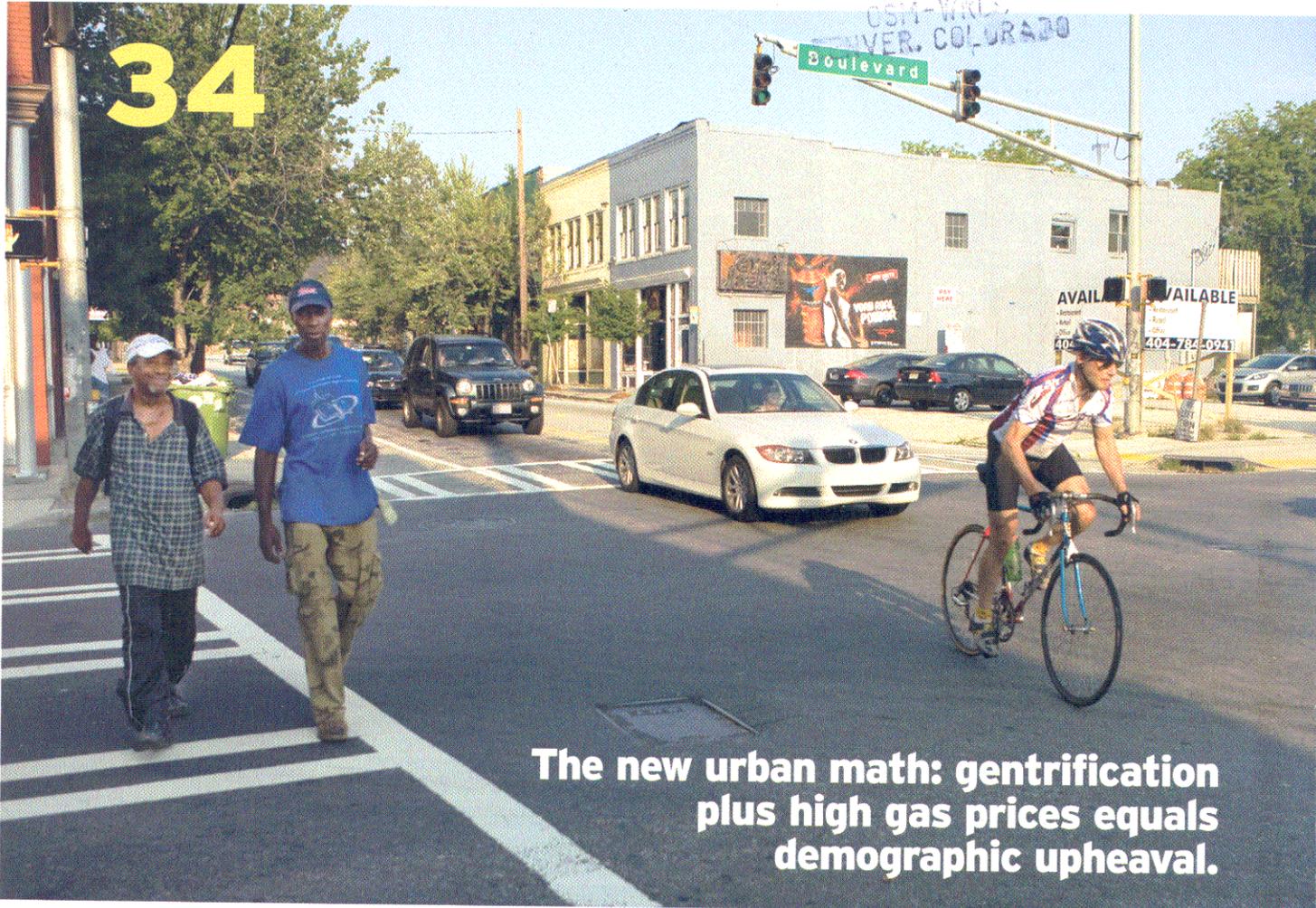
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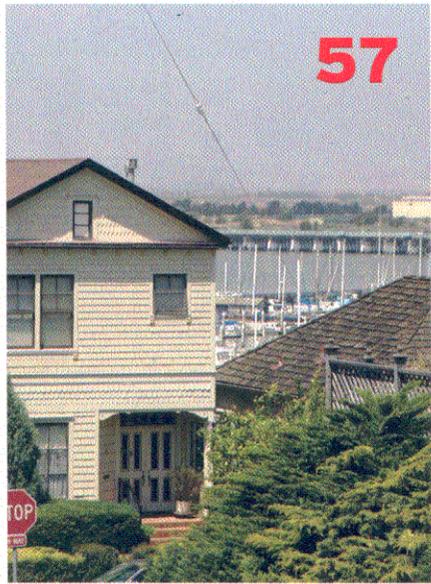
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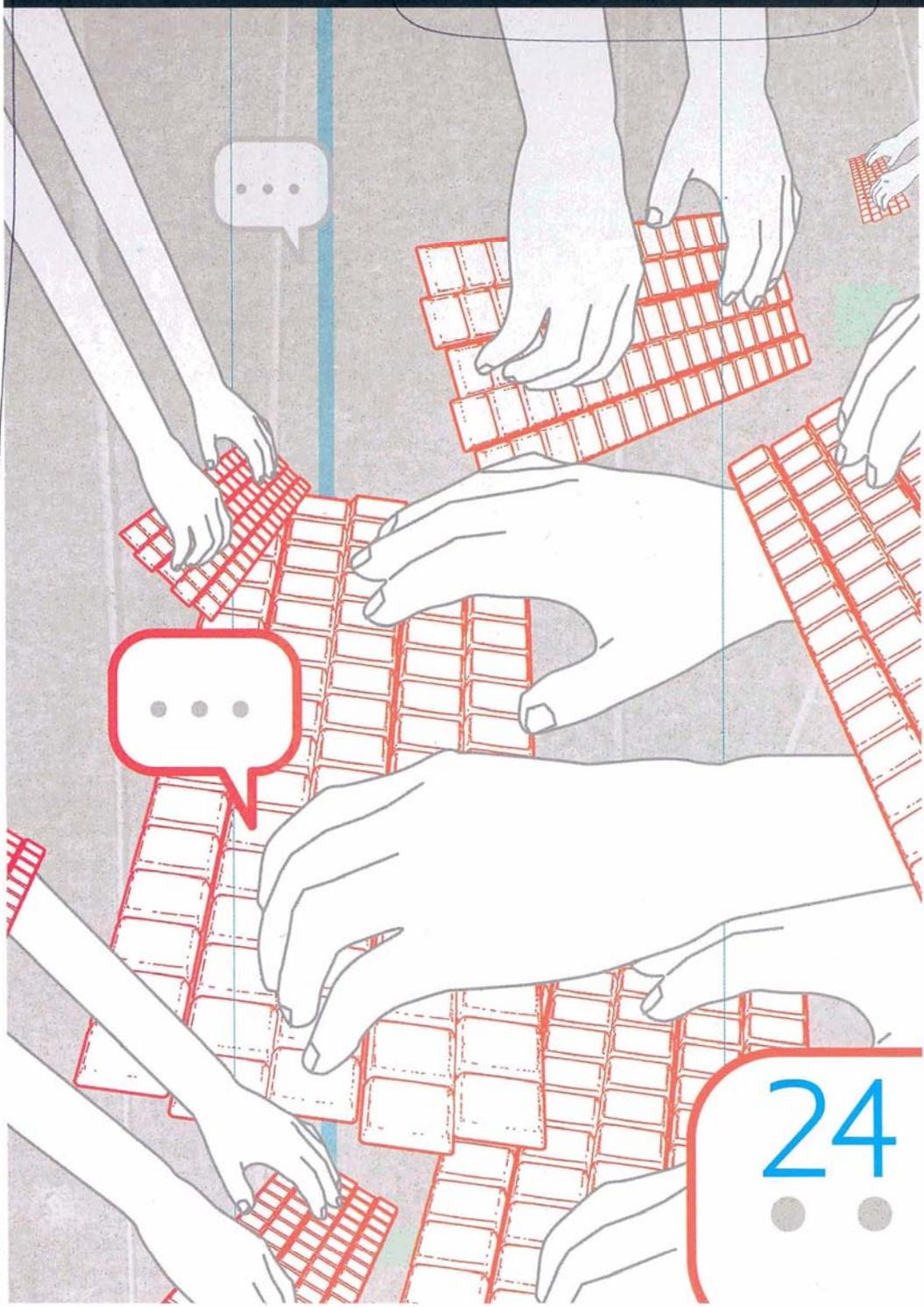
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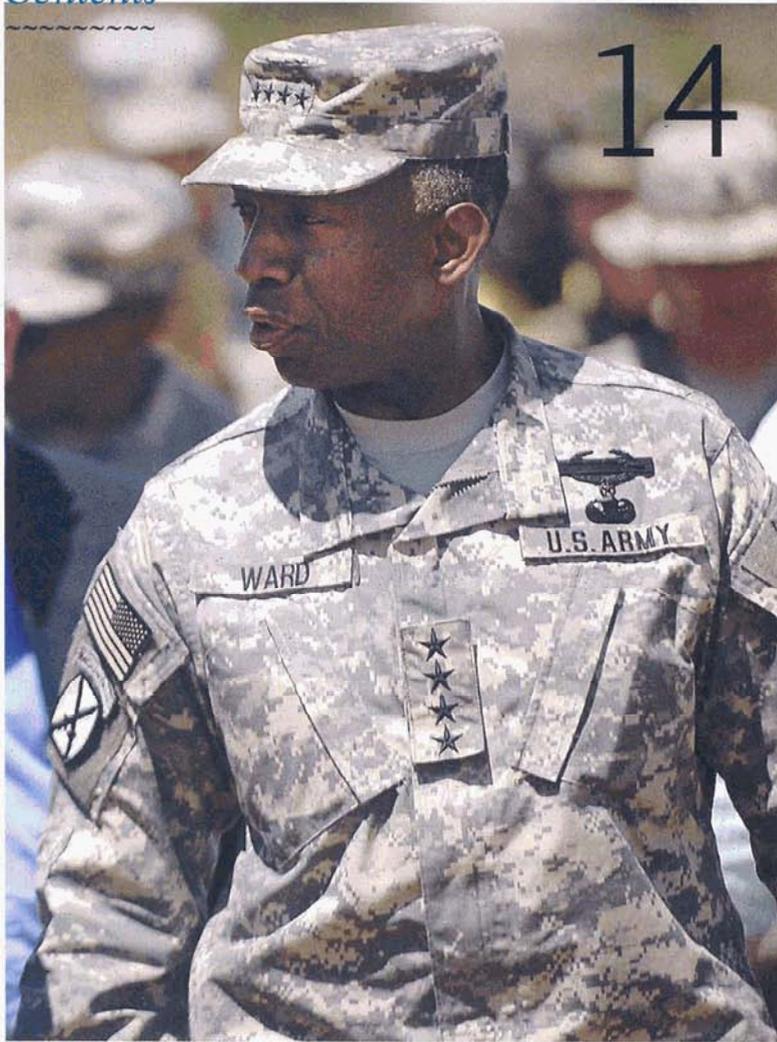
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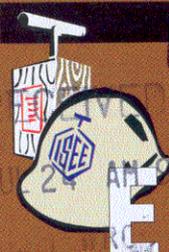
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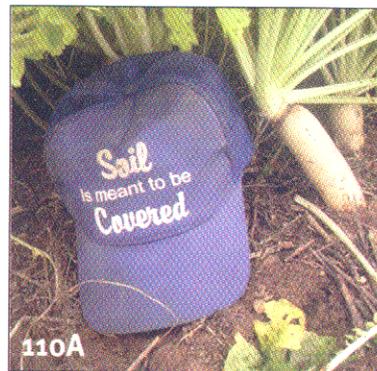
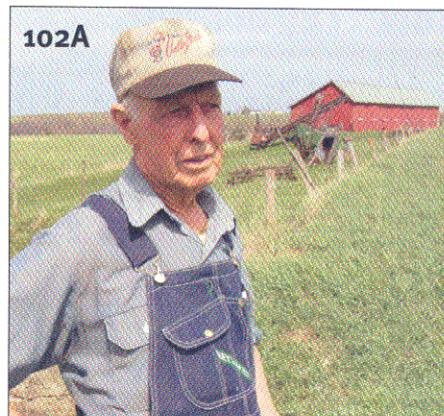
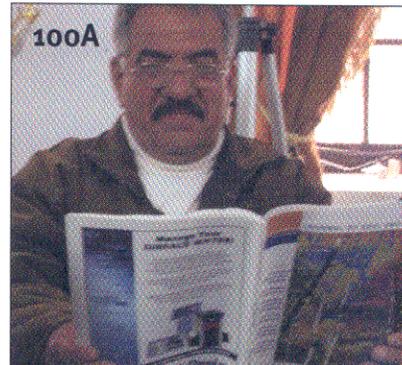
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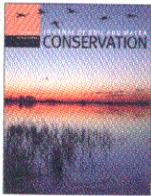
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