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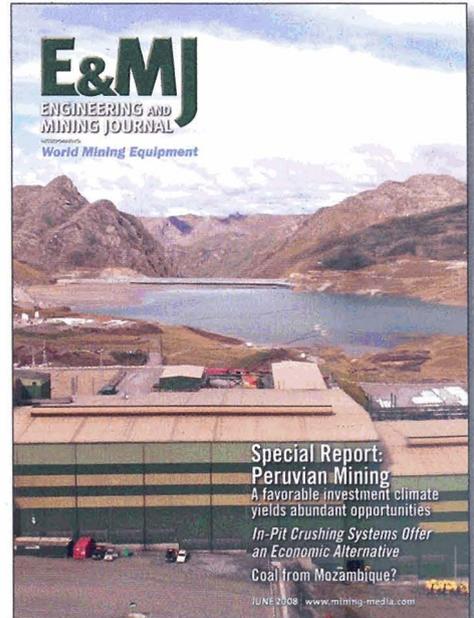
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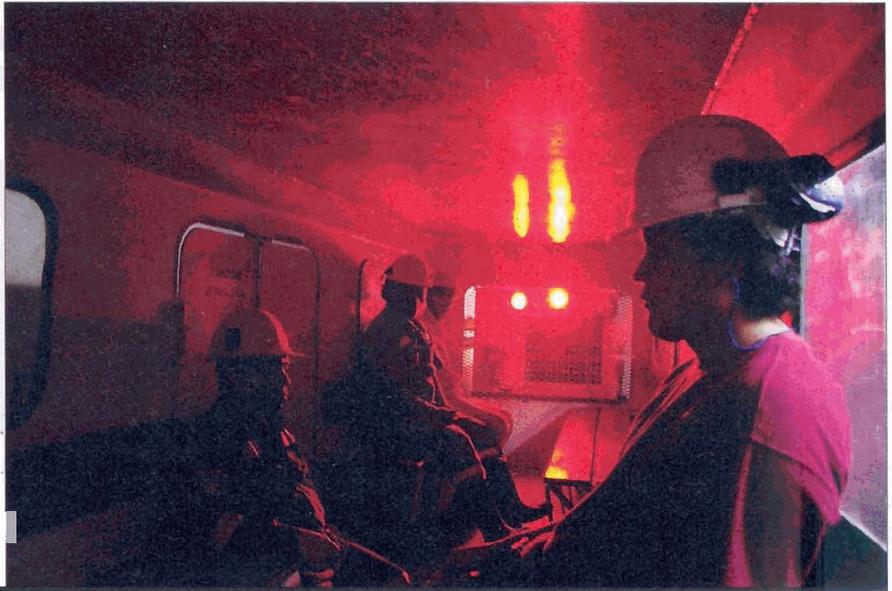
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Cover photo, photo right of Andes water tunnel and workers by C.J. Schexnayder for ENR

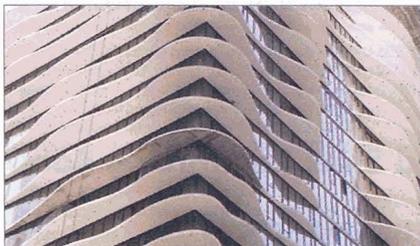


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► **BIManiacs**

28 3D and 4D building model tools are a fixture at M.A. Mortenson Co. jobsites. The Minneapolis firm has embraced BIM as a key tool in its growing sphere of projects.

Cover photo and photo right courtesy of M.A. Mortenson Co.



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► Inflation's Comeback

57 Oil and steel prices surged to record levels in the second quarter. Contractors and consumers were hit hard, but the long-term implications are yet to be felt.

Cover photo and photo right by Timothy Tauler for ENR



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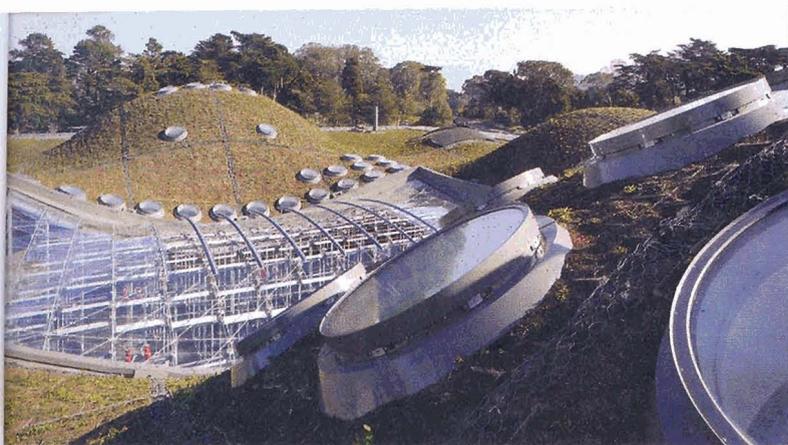
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DESIGN FIRMS

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7 For large design firms, 2007 was a huge year for revenue. However, many of those firms are bracing themselves for a possible market downturn.



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108 Green roof of San Francisco's 410,000-sq-ft California Academy of Sciences, designed to fill a gap in Golden Gate Park's ecosystem, offered the builders some mean topography thanks to steep slopes and a warped skylight.

Cover photo courtesy of SWA Group, photo above courtesy of the California Academy of Sciences; image right by Guy Lawrence for ENR

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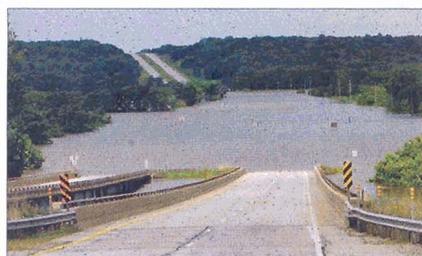
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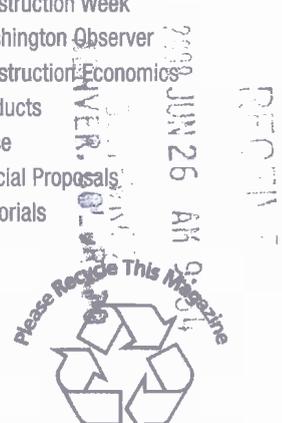
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Special Issue

Microbial interactions with physical sediment dynamics, and their significance for the interpretation of Earth's biological history

Guest Editors

Nora Noffke, Old Dominion University, USA

David Paterson, University of St. Andrews, UK

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N. Noffke and D. Paterson

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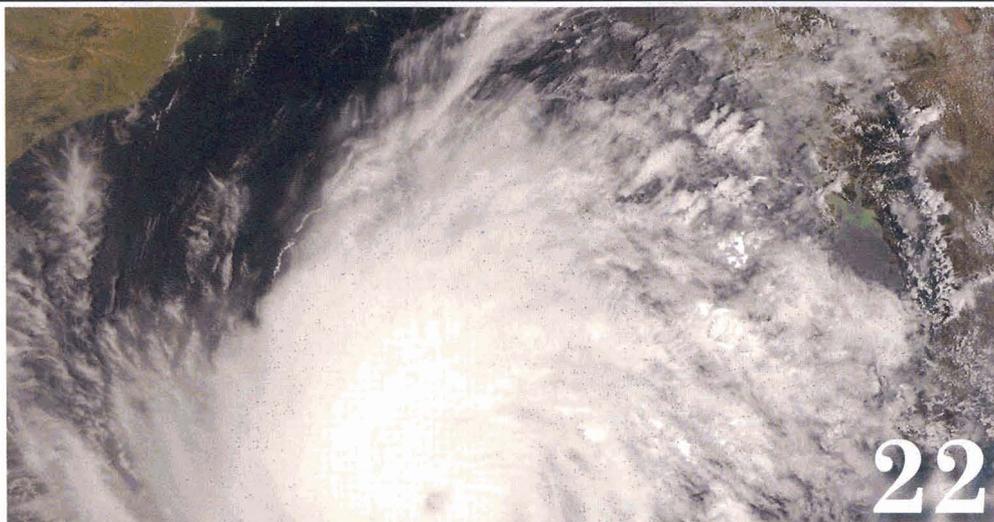
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STORM SOUNDINGS: NEW TECHNOLOGIES FOR TRACKING HURRICANES

Tropical cyclones can intensify quickly prior to landfall — sometimes more quickly than forecasters can gauge and give warning to coastal communities. Scientists are now looking for new, speedier ways to track changes in an approaching storm's power.

Carolyn Gramling

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METEORITE STRIKES PERU!

On Sept. 15, 2007, a meteorite crashed into a small village in northern Peru. As word of the meteorite spread, meteorite hunters and geologists alike descended on the region to collect pieces of the space rock and to study what it left behind.

Lionel E. Jackson Jr., Peter Brown, Jay Melosh and Dolores Hill



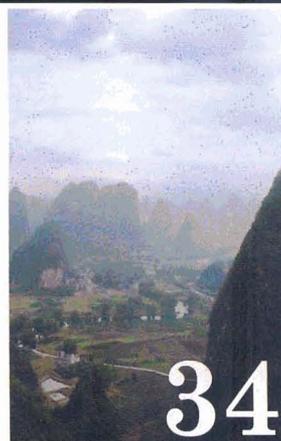
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Charcoal is making a comeback, but not where you might think: Instead of putting it into the grill, some scientists are advocating putting it into the ground to boost soil fertility and to sequester carbon.

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Volcanology courses prepare students for understanding the science of a volcano, but most don't prepare students for dealing with the human aspect of a volcanic crisis. One teacher is working to change that.

Nicole Branam



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ON THE COVER: A child sits near a makeshift hut in Myanmar following the devastating Cyclone Nargis, which struck the country in early May. Photo by KHIN MAUNG WIN/AFP/Getty Images.

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New Mac laptops come equipped with motion sensors, which, along with freely available software, are all you need to create your own seismic station.
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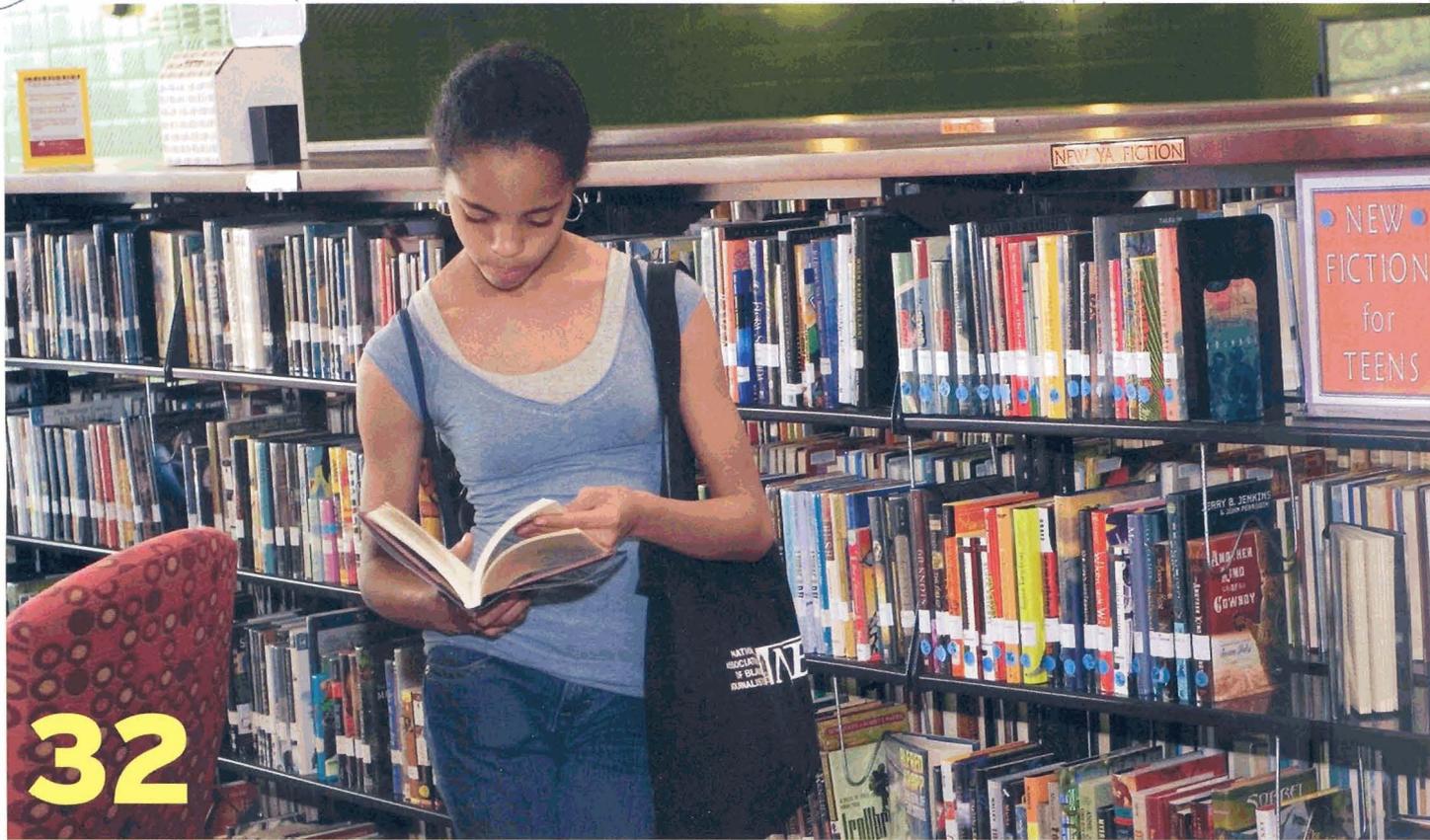
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MICHAEL LOBIONDO

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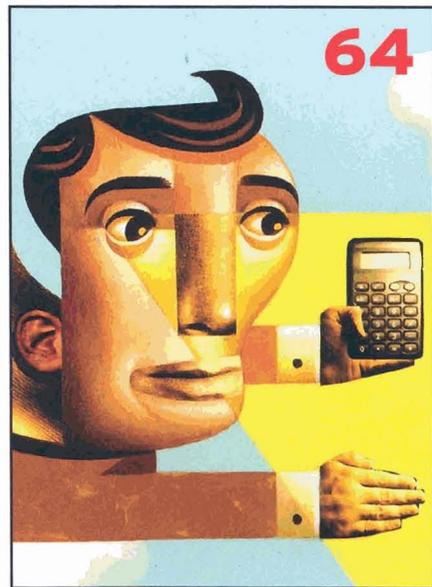
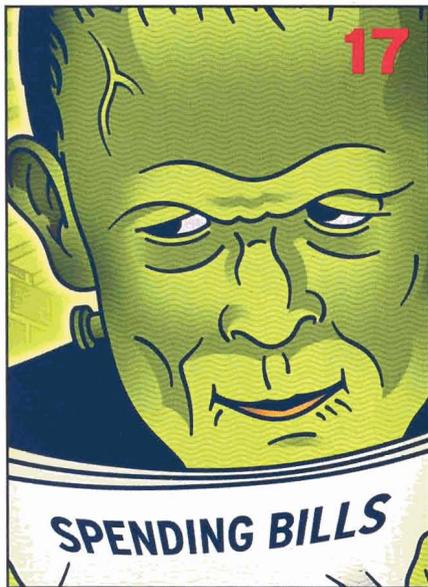
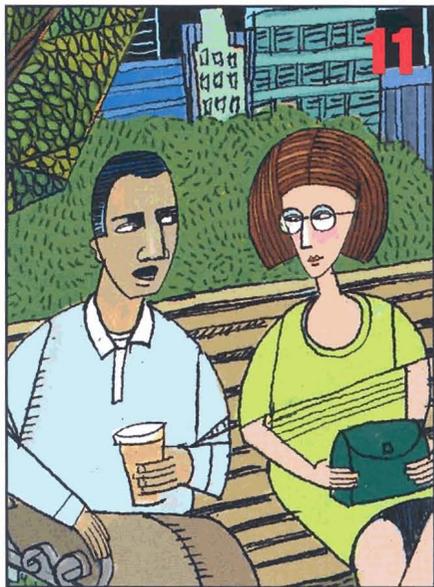
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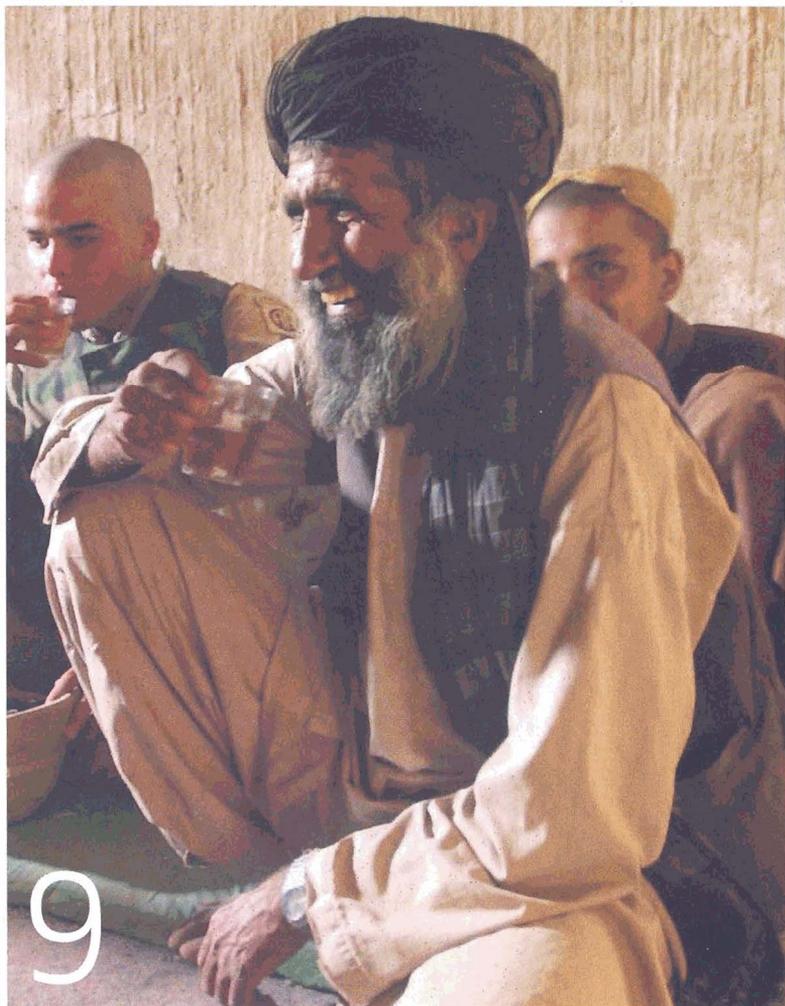
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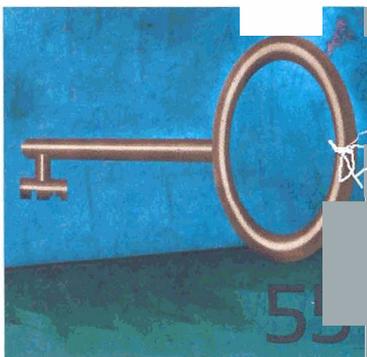
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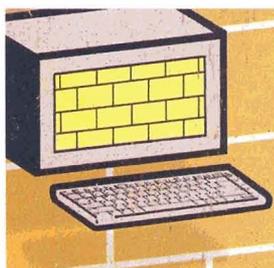
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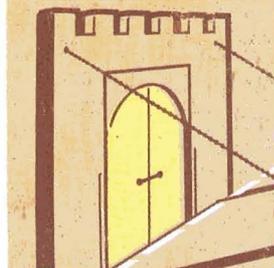
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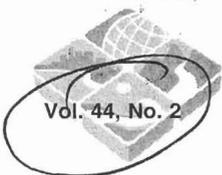


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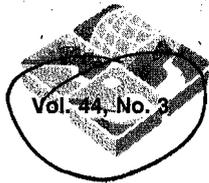


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Land and Water

THE MAGAZINE OF NATURAL RESOURCE MANAGEMENT AND RESTORATION

Volume 52, Number 3

May/June 2008

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An Arizona state highway (SR 188) was relocated through the Tonto National Forest, near Roosevelt Lake. The old highway pavement was milled and reclaimed and the roadway was regraded and seeded to near pre-highway conditions. An unimproved power line access road weaves through part of the corridor. A local landmark along the roadside "Hershey Rock" was preserved. For the full story, see page 23.

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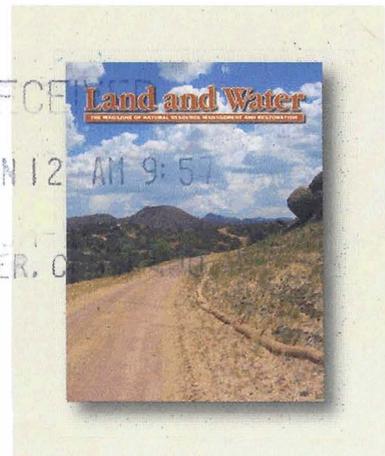
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VOL. 60, NO. 6 JUNE 2008

COVER STORY



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PAY DIRT

MAGAZINE

A Voice For Western Mining Since 1938

March 2008

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Another 157,000 feet of drilling has shown just how massive Northern Dynasty's Pebble East property in Alaska might be. It's already one of the world's most important copper/gold/molybdenum deposits and it keeps growing. The early-drilled neighboring ore body, Pebble West, is no mean deposit either. At a reasonable cut-off grade, Pebble East contains 49 billion pounds of copper, 45 million ounces of gold and 2.8 billion pounds of moly. That's tied up in 3.9 billion tonnes of ore grading 0.99 percent copper-equivalent. Pebble West adds another 4.1 billion tonnes of slightly lower-grade material.

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MAGAZINE

A Voice For Western Mining Since 1938

April 2008

Cover Story: MII baby; 46,279 pounds a year for each American **3**

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On the Cover

Each year, the Mineral Information Institute creates its "baby," which shows how many pounds of which mined resources a baby born this year can be expected to use over its lifetime. That gets multiplied out over its anticipated lifetime and over the total population of the nation to give policy-makers an idea of what needs to be mined.

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Front cover image from *Anthropomorphic Effigies of the Plains* by J. Rod Vickers, this issue.

Cover: *Tamarix*-dominated riparian vegetation along the lower Colorado River, Arizona and California, U.S.A. Photograph taken by P. Shafroth (upper left). Mechanical control of *Tamarix* along a tributary of the Arkansas River, Colorado, U.S.A. Photograph taken by S. Gieck (upper right). Native vegetation along the Rio Grande, New Mexico, U.S.A., including *Sporobolus airoides*, *Prosopis glandulosa* and *Isocoma pluriflora*. This vegetation is typical of high floodplain or terrace plant communities in this region and a potential target for restoration following *Tamarix* control. Photograph taken by V. Beauchamp (lower right). Butterfly alights on *Tamarix* near Indian Hot Springs along the Rio Grande on the U.S.A.-Mexico border. Photograph taken by N. Stone (lower left). See related articles in the *Tamarix* Special Section on pages 94-190.

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An Interdisciplinary Approach to Soils Research

JUNE 2008

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