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THIS ISSUE

This month Coal Age profiles the United Coal Co. After leaving the coal business in the early 1990s, United Coal decided to return two years ago. Since then it has assembled a top-notch management team, who are reshaping the coal business in Central Appalachia. On the cover, a continuous miner operator at United Coal's Sapphire operation cuts coal. The photo was provided courtesy of DBT America Inc., photography by Jim Cunningham Photography.

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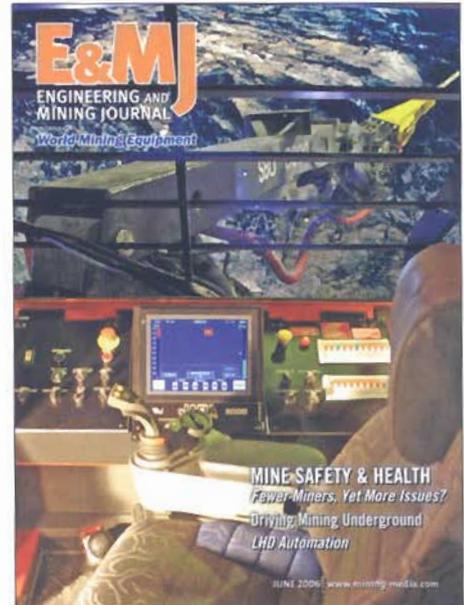
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This month's cover image replicates an operator's view from the cab of Industriteknik Nord's Jama SBU 8000 scaler. This new unit, which supersedes the company's field-proven SBU 800, meets all EU standards for noise and vibration control and offers important new operational features. For more information on this and other developments in mine safety and health, please turn to page 46. Photo: Industriteknik Nord.

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COVER STORY

Diesel Cleanup

48 California regulators' pending legislation would ban old, polluting diesel engines and require retrofits on machinery more than 10 years old. Contractors and manufacturers eye the regulation with mixed feelings.

Cover photo and photo right by Tudor Hampton for ENR



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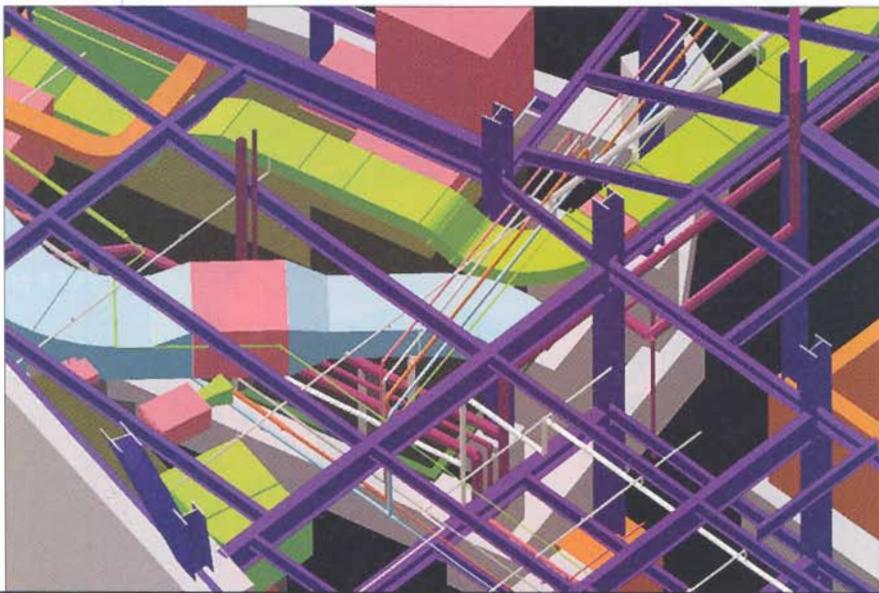
PHOTO LEFT COURTESY OF DOTD; RIGHT COURTESY OF LONDON 2012.

COVER STORY

► Out of the Haze

28 Promising seamless cross-disciplinary collaboration, Building Information Modeling is a burgeoning industry revolution. Now designers and constructors are struggling to hone its real-world applications.

Cover rendering courtesy of M.A. Mortenson Company, drawing courtesy of Studio Daniel Libeskind and Davis Partnership Architects; rendering right courtesy of Arup



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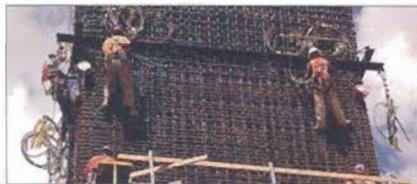
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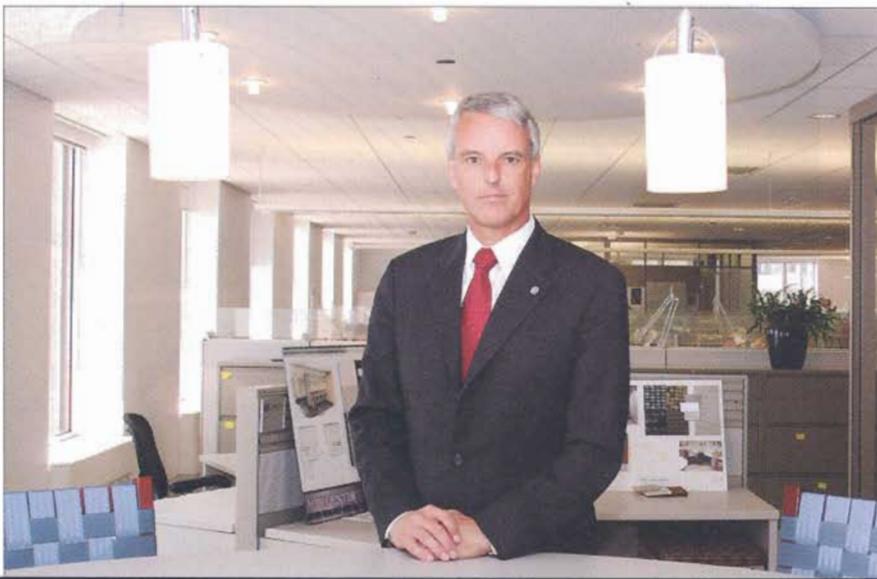
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COVER STORY

► Project Executive

28 Colin Dyer, CEO of real estate giant Jones Lang LaSalle, runs a firm that is becoming more of a fixture on construction sites. It is earning millions of dollars running projects and properties for all types of owners, from drugmakers to federal agencies

Cover photo and photo right by Tudor Hampton for ENR



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34 Owners feeling pressure from rising construction prices are looking at alternate project delivery to shield them from risk. But construction and program management firms and design-builders are growing more savvy not just in executing projects but in managing their own risk.

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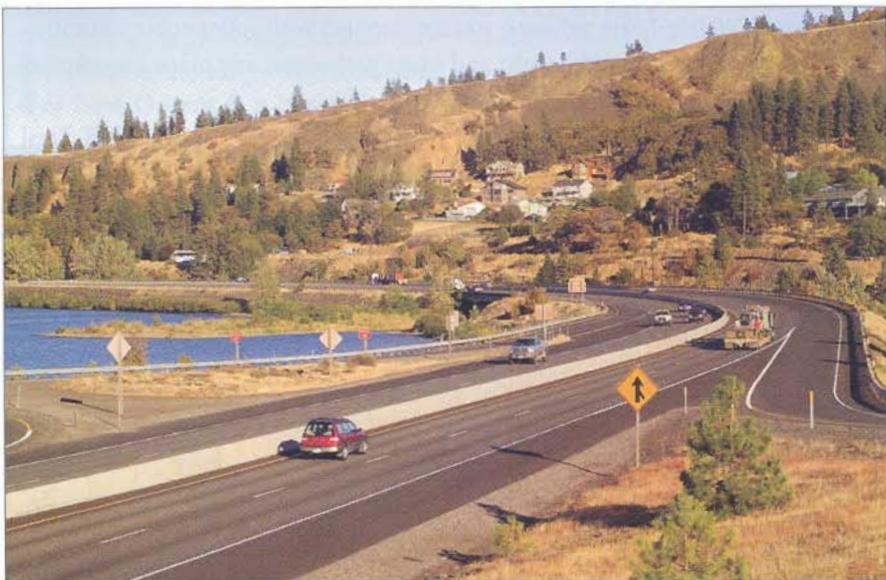
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26 Today's transportation corridors must be built in harmony with and for surrounding communities.

► A Look Back

31 In its early years, the Interstate system was built as a fractured series of local projects.

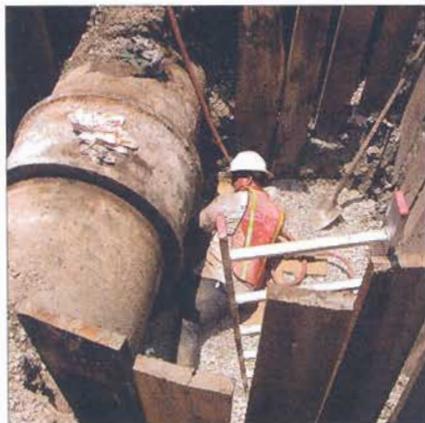
Cover photo and photo right of Oregon bridge delivery program courtesy of HDR; cover photo by Vince Streato



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SPECIAL REPORT

► Unwelcome Trends

63 Rising inflation rates have begun to have impact the construction industry and are expected to continue to increase. High copper prices and energy costs for petroleum-based products are causing companies to seek alternative materials for future projects.

Cover photo of the Denver Art Museum courtesy of Fred J. Fuhrmeister/Time Frame Photography; photo right by Tudor Hampton for ENR



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- 27** Harsh winters and other obstacles challenge builders of Iceland's hydroproject.



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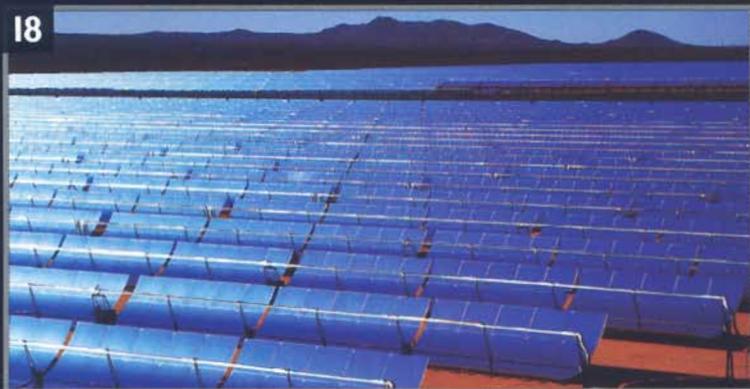
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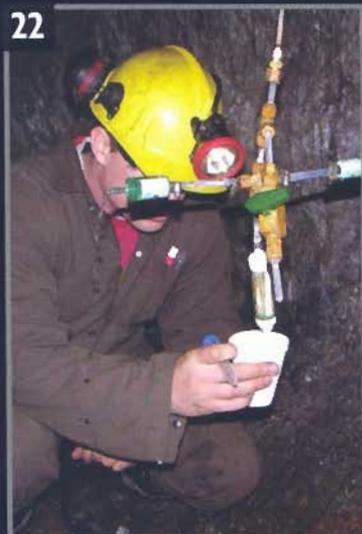
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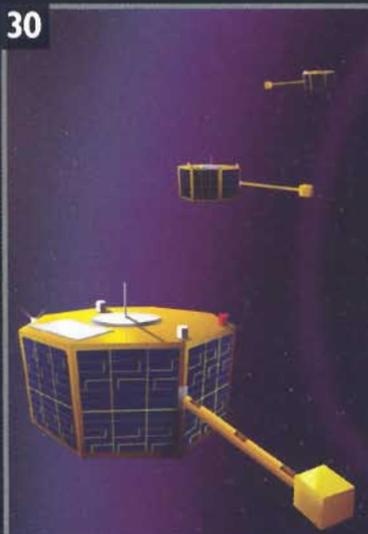
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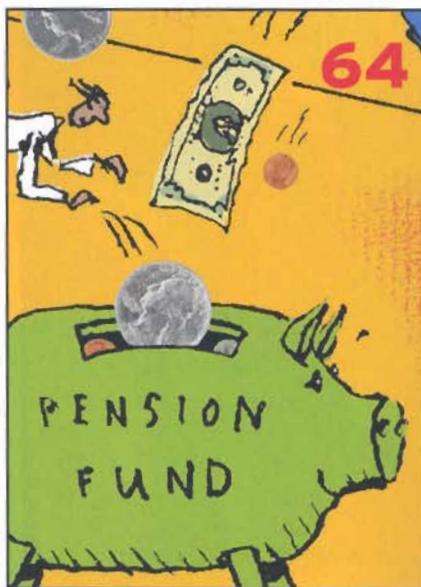
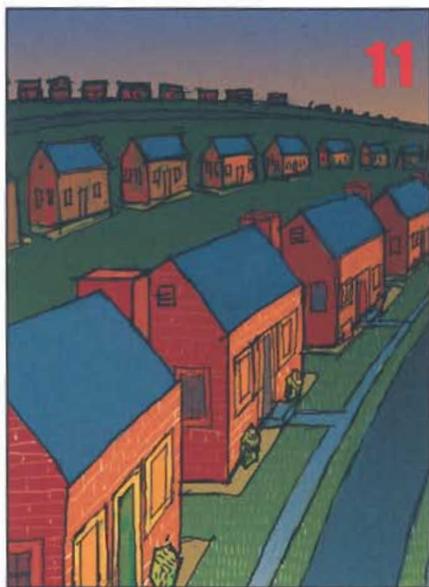
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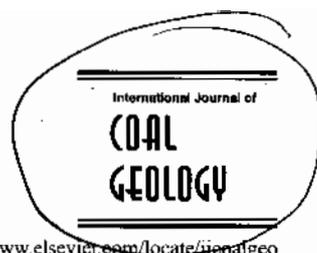
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Special Issue

In Memory of Marie-Therese Mackowsky

Selected papers from a symposium held at the 55th Annual Meeting of the
International Committee for Coal and Organic Petrology,
Utrecht, The Netherlands, 10–16 August 2003

edited by

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Universidade do Porto, Porto, Portugal



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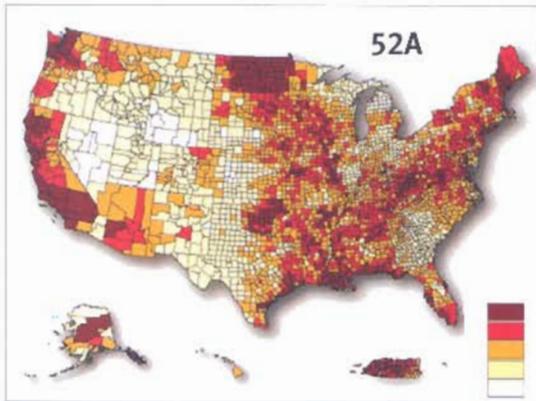
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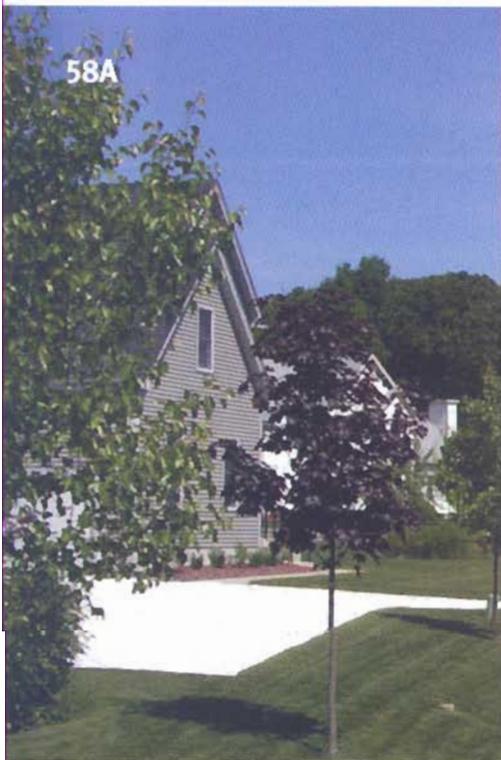
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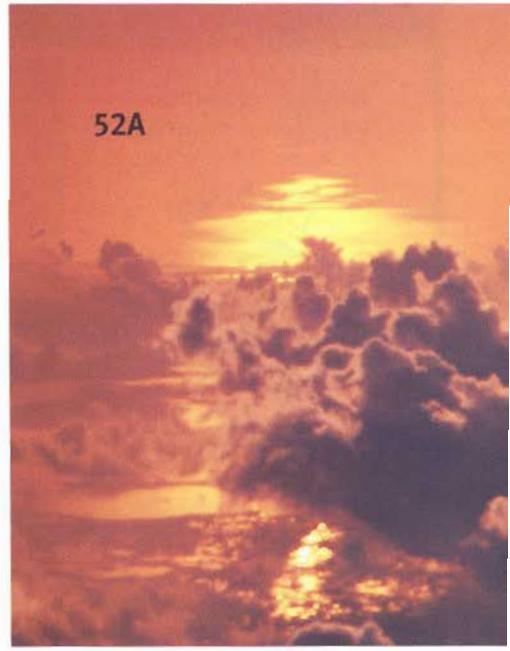
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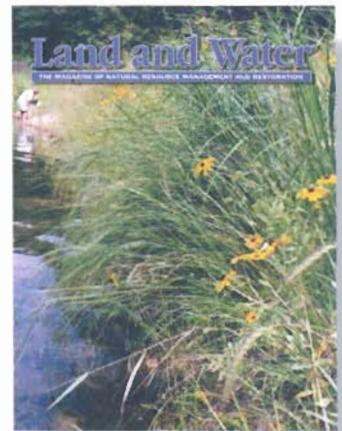
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Land and Water

THE MAGAZINE OF NATURAL RESOURCE MANAGEMENT AND RESTORATION

Volume 50, Number 2

May/June 2006



Cover Story

Prairie cordgrass and black eyed susan are among the wide variety of native species that compose this pond shoreline buffer planting in Western Wisconsin. In their second growing season the plants are reaching their mature heights and blooming well. They are preventing erosion, improving water quality, providing habitat and looking beautiful while doing it! Photo credit: Jenn Morrow, Hild and Associates, Inc. See related pond story on page 16.

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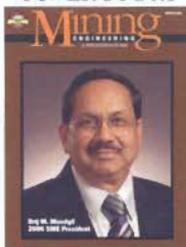
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ENGINEERING

VOL. 58, NO. 3

MARCH 2006

COVER STORY



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China has the world's second largest economy after the United States. China's mineral production, consumption and economic strategies obviously affect the U.S. minerals industry. Here's how. Page 37. Given Sago and the focus on mining safety, see pages 45, 46 and 49. (Cover photo, David Blankenship.)

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VOL. 58, NO. 4

APRIL 2006

COVER STORY



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Steep slopes, high elevation, poor footing, rain, heat, hail, fog, snow, rock falls, helicopter prop wash. Wear your rock climbing gear and safety devices. Do your job on a 40° slope at 12,000 ft. in weathered, brittle bedrock. Cover an open stope with a steel cover, to cut water pollution from an abandoned mine. Page 15.

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PAY DIRT

MAGAZINE

A Voice For Western Mining Since 1938

April 2006

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On the Cover

The chart on the cover accompanies those on pages 3 and 4 and are excerpted from the Fraser Institute's latest survey about how mining and exploration companies look at the political jurisdictions in which they work. The cover chart is based on responses to how a jurisdiction's existing regulations impact the current situation. So while Alberta, for example, ranks high on "potential" (see page 3), it's much further down on "current mineral potential," since it does less than others to encourage investment.

PAY DIRT

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MAGAZINE

A Voice For Western Mining Since 1938

May 2006

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Mining in the West **6**

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Commentary, 2; Ad Index, 6; Mexico, 8, 9; Chile, 10; Peru, 11; World, 12; World, 13; Western Briefs, 14; Energy Briefs, 17; Companies and Markets, 25; Earnings Reports, 27; Supplying the Mines, 28; Directory, 30; Safety, Health & Labor, 31; Low Grade, 32

On the Cover

Arizona copper production gave Phelps Dodge Corp. the base for expanding its production throughout the Americas. Arizona is still the heart of its copper empire, with mines or plants at Morenci, Bagdad, Sierrita and Miami and another complex being built at Safford. (Photos courtesy of Phelps Dodge.)

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Cover: *Stipa tenacissima* steppe in the surroundings of Relleu (Alicante, south east Spain). See related article by Fernando T. Maestre, Jordi Cortina and Ramón Vallejo on pages 258-266. Photograph by Fernando T. Maestre.

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