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## Centennial Papers

- 1180-1187 **William J. Beal—Pioneer Applied Botanical Scientist and Research Society Builder** *James B Beard and Peter O. Cookingham*

## Symposium Papers

The articles in this section are from the symposium, "Dynamic Cropping Systems for Soil and Water Conservation" held 7 Nov. 2005 at the ASA annual meeting in Salt Lake City, UT. Sponsored by Division S-06.

- 899-903 **Dynamic Cropping Systems: Contributions to Improve Agroecosystem Sustainability** *M.A. Liebig, D.L. Tanaka, J.M. Krupinsky, S.D. Merrill, and J.D. Hanson*
- 904-911 **Dynamic Cropping Systems for Sustainable Crop Production in the Northern Great Plains** *D.L. Tanaka, J.M. Krupinsky, S.D. Merrill, M.A. Liebig, and J.D. Hanson*
- 912-920 **Crop Sequence Effects on Leaf Spot Diseases of No-Till Spring Wheat** *Joseph M. Krupinsky, Donald L. Tanaka, Steven D. Merrill, Mark A. Liebig, Michael T. Lares, and Jonathan D. Hanson*
- 921-930 **Crop Residue Coverage of Soil Influenced by Crop Sequence in a No-Till System** *Joseph M. Krupinsky, Steven D. Merrill, Donald L. Tanaka, Mark A. Liebig, Michael T. Lares, and Jonathan D. Hanson*
- 931-938 **Soil Water Depletion and Recharge under Ten Crop Species and Applications to the Principles of Dynamic Cropping Systems** *Stephen D. Merrill, Donald L. Tanaka, Joseph M. Krupinsky, Mark A. Liebig, and Jonathan D. Hanson*
- 939-943 **Dynamic Cropping Systems: Increasing Adaptability Amid an Uncertain Future** *J.D. Hanson, M.A. Liebig, S.D. Merrill, D.L. Tanaka, J.M. Krupinsky, and D.E. Stott*

## Forages

- 944-951 **Beer Cattle Production, Nutritional Quality, and Economics of Windrowed Forage vs. Baled Hay During Winter** *V. Nayigihugu, A.D. Schleicher, D.W. Koch, L.J. Held, J.W. Flake, and B.W. Hess*

## Economic Analysis

- 1073-1084 **Simulated Crop Yields Response to Irrigation Water and Economic Analysis: Increasing Irrigated Water Use Efficiency in the Indian Punjab** *S.K. Jalota, A. Sood, J.D. Vitale, and R. Srinivasan*
- 1085-1092 **Cotton Profitability with Alternative Lime Application Rates, Cover Crops, Nitrogen Rates, and Tillage Methods** *Rebecca L. Cochran, Roland K. Roberts, James A. Larson, and Donald D. Tyler*

## Tillage

- 952-959 **Corn and Soybean Production as Affected by Tillage Systems** *Jeffrey A. Vetsch, Gyles W. Randall, and John A. Lamb*
- 1093-1103 **One-Time Tillage of No-Till: Effects on Nutrients, Mycorrhizae, and Phosphorus Uptake** *J.P. Garcla, C.S. Wortmann, M. Mamo, R. Drijber, and D. Tarkalson*
- 1104-1110 **One-Time Tillage of No-Till Systems: Soil Physical Properties, Phosphorus Runoff, and Crop Yield** *J.A. Quincke, C.S. Wortmann, M. Mamo, T. Franti, R.A. Drijber, and J.P. Garcla*

## Organic Production

- 960-972 **Comparison of Long-Term Organic and Conventional Crop-Livestock Systems on a Previously Nutrient-Depleted Soil in Sweden** *Holger Kirchmann, Lars Bergström, Thomas Kätterer, Lennart Mattsson, and Sven Gesslein*

(cont.)

Cover: Aerial view of a crop sequencing experiment near USDA-ARS Northern Great Plains Research Laboratory, Mandan, ND. The experiment involved the evaluation of crop sequencing effects of 10 crops on various agronomic and environmental parameters using a crop × crop residue matrix design. The experiment and associated symposium papers are reviewed by Liebig et al. (see 899-943, "Dynamic Cropping Systems for Soil and Water Conservation"). Photo credit: Justin Hartel/Marv Hatzenbuehler.

P. 2 of 2

**Fertilizer Management**

- 973-983 **Comparison between Organic and Mineral Fertilization for Soil Fertility Levels, Crop Macronutrient Concentrations, and Yield** *J.F. Herencia, J.C. Ruiz-Porras, S. Melero, P.A. Garcia-Galavis, E. Morillo, and C. Maqueda*

**Corn**

- 984-991 **Why Do Maize Hybrids Respond Differently to Variations in Plant Density?** *Tomás Sarlangue, Fernando H. Andrade, Pablo A. Calvinó, and Larry C. Purcell*
- 1111-1118 **Ecophysiological Yield Components of Maize Hybrids with Contrasting Maturity** *Pedro R. Capristo, Roberto H. Rizzalli, and Fernando H. Andrade*

**Seeds**

- 992-998 **Deficit Irrigation for Optimum Alfalfa Seed Yield and Quality** *Clinton C. Shock, Erik B.G. Feibert, Lamont D. Saunders, and Jim Klauzer*

**Phosphorus Management**

- 999-1008 **Phosphorus Extraction by Cotton Fertilized with Broiler Litter** *H. Tewolde, K.R. Sistani, D.E. Rowe, and A. Adeli*

**Wheat**

- 1009-1017 **Placement of Preplant Liquid Nitrogen and Phosphorus Fertilizer and Nitrogen Rate Affects No-Till Wheat Following Different Summer Crops** *K.W. Kelley and D.W. Sweeney*

**Manure**

- 1119-1129 **Use of Anaerobically Digested Swine Manure as a Nitrogen Source in Corn Production** *Esteban R. Loria, John E. Sawyer, Daniel W. Barker, John P. Lundvall, and Jeffery C. Lorimor*

**Soybean**

- 1018-1028 **Iron Acquisition of Three Soybean Varieties Grown at Five Seeding Densities and Five Rates of Fe-EDDHA** *John V. Wiersma*

**Software**

- 1029-1033 **DUDE: A User-Friendly Crop Information System** *Weikai Yan and Nicholas A. Tinker*

**Cotton**

- 1130-1136 **Potassium Effects on Partitioning, Yield, and Earliness of Contrasting Cotton Cultivars** *Jenny Clement-Bailey and C. Owen Gwathmey*

**Roots**

- 1137-1142 **Genetic Variation and Genotype  $\times$  Environment Interaction for Yield and Other Agronomic Traits in Cassava in Nigeria** *C.N. Egesi, P. Ilona, F.O. Ogbé, M. Akoroda, and A. Dixon*

**Rice**

- 1143-1150 **Planting Date Affects Grain and Milling Yields of Water-Seeded Clearfield Rice** *X.Y. Sha and S.D. Linscombe*

**Nitrogen Management**

- 1034-1040 **Using Relative Chlorophyll Meter Values to Determine Nitrogen Application Rates for Corn** *J.A. Hawkins, J.E. Sawyer, D.W. Barker, and J.P. Lundvall*
- 1151-1157 **Effects of Compost and Nitrogen Fertilizer on Wheat Nitrogen Use in Japanese Soils** *Shigeru Takahashi, Muhuddin R. Anwar, and Sharon G. de Vera*

**Soil Quality & Fertility**

- 1158-1168 **Occasional Tillage of No-Till Systems: Carbon Dioxide Flux and Changes in Total and Labile Soil Organic Carbon** *J.A. Quincke, C.S. Wortmann, M. Mamo, T. Franti, and R.A. Drijber*

**Waste Management**

- 1041-1047 **Effect of Liquid Cattle Manure on Corn Yield, Composition, and Soil Properties** *Anastasios S. Lithourgidis, Theodora Matsi, Nikolaos Barbayiannis, and Christos A. Dordas*

**Forum**

- 1048-1056 **Disaggregating Model Bias and Variability when Calculating Economic Optimum Rates of Nitrogen Fertilization for Corn** *Peter M. Kyveryga, Alfred M. Blackmer, and Thomas F. Morris*
- 1057-1065 **Alternative Benchmarks for Economically Optimal Rates of Nitrogen Fertilization for Corn** *Peter M. Kyveryga, Alfred M. Blackmer, and Thomas F. Morris*
- 1169-1174 **What Does Undergraduate Enrollment in Soil and Crop Sciences Mean for the Future of Agronomy?** *Neil Hansen, Sarah Ward, Raj Khosla, Jack Fenwick, and Bill Moore*

**Weed Management**

- 1066-1072 **Influence of Planting Date and Weed Interference on Sweet Corn Growth and Development** *Martin M. Williams II and John L. Lindquist*

**Intercropping**

- 1175-1179 **Radiation Use Efficiency in Dual Winter Cereal-Forage Production Systems** *J.W. Singer, T.J. Sauer, B.C. Blaser, and D.W. Meek*

**Other Items**

- iii-iv **Instructions to Authors**
- 1188-1189 **Letters to the Editor**
- 1189 **ASA Statement of Ethics**
- 1190 **Errata**
- 1190 **Important Notes to Authors**

# Coal Age

## FEATURE ARTICLES

- 24 Inland Out: Midwestern River Coal Transloaders Deal with Increased Pressures
- 31 Improving Haul Truck Productivity  
*OEMs review developments in payload management and cycle times*
- 38 Leatherwood Prep Plant Upgrade  
*Blue Diamond implements major circuit modifications*
- 46 Advancements for Continuous Miners  
*Design changes and new technology make the modern miner more user friendly*
- 54 How to Walk a Conveyor  
*How to get more than exercise when you walk your belt system*

## COAL IN THE NEWS

- 4 MSHA issues Emergency Temporary Standard
- 4 Cleveland-Cliffs announces acquisition of PinnOak Resources
- 5 NMA recounts safety progress; urges greater federal funding and federal-state regulatory reconciliation
- 8 CTL Coalition salutes Chairman Boucher, Rep. Shimkus for advancing CTL legislation
- 10 Widows of Kentucky blast sue coal mine owner
- 12 Business & labor come to the defense of W.Va. coal
- 16 Massey Unlikely to Bid on Peabody Operations
- 20 CSIRO and Mine Site Technologies to develop 2-way PED

## WORLD NEWS

- 5 China's coal imports hit new high  
Rail capacity limits Richards Bay expansion
- 8 Ivanhoe Mines & Asia Gold receive approval for Mongolian coal project  
Australia's Coal & Allied announces production cutback
- 10 Mitsui to pull out of Siberian coal-mining project  
Steelmakers await government approval to mine coal in Zimbabwe
- 12 Indonesian coal to power Egat's plants  
GasAtacama proposes strategy for north's power supply  
Japan, U.S., others may build emissions-free coal power plant

## NEWS/4



## TRANSLOADERS/24



## LEATHERWOOD/38



## CONTINUOUS MINERS/46



# THIS ISSUE

*This month Coal Age has something for everyone: coal preparation, underground and surface mining, and coal transportation. Cover: Lee Buchsbaum/LMB Photography.*

## DEPARTMENTS

- 2 Editorial
- 4 Coal in the News
- 5 World News
- 8 People
- 16 Calendar
- 17 Awards
- 54 Operating Ideas
- 58 Suppliers News
- 60 Product News
- 68 Classified
- 72 Legally Speaking

on the cover...



Paramont's Harry Boone, Jimmy Adkins, and Dave Allen at reclaimed site.  
photo by Tim Cox of tim cox Photo/Graphics  
Ph: 276-328-3202 E-mail: tim@timcox.com

**Features**

**Cover Feature**  
Paramont's Black Bear No. 4 Mine: Does it Right Again  
by Art Sanda, Photos by Tim Cox ..... 10

Nicholas Energy Plants One Millionth Tree ..... 17

Associated Electric Cooperative Inc. Receives 2007 IMCC Award ..... 18

Coal-Mac, Inc. Wins Wildlife West Virginia Award ..... 22

Vern Pfannenstiel Named 2007 Reclamationist of the Year by ASMR ..... 27

Argus Energy WV, LLC Receives Wetlands Award ..... 28

Reclamation News ..... 31



Mining Our Business:  
Longwall USA Post-Show Section  
..... 40-47

**Departments**

Editorial ..... 8

Coal People Comments ..... 36

Capsule News ..... 32

Coal News Worldwide ..... 38

Coal People in the News ..... 30

Product News ..... 48

Product Literature ..... 49

Advertising Index ..... 54

Classified ..... 51-53

**Buyer-Friendly Products and Services Reference**

**AUCTION**  
Stanley King Land Auction ..... 53

**AUTOMATED SAMPLING SYSTEMS**  
James A. Redding ..... 51

**BOLTS**  
Jennmar Corp/J-Lok ..... 2

**CABLE FAULT LOCATORS**  
Innovative Utility Products ..... 51

**COAL PREPARATION**  
Industrial Resources ..... 51

**COAL PROCESSING EQUIPMENT**  
Ceramic Technology, Inc ..... 51

**COAL SHOWS**  
Bluefield Coal Show ..... 6  
Platt's ..... 55

**COMMUNICATION/TRACKING UNDERGROUND**  
American Mine Research ..... 43  
Hughes Supply ..... 49

**COMPONENTS**  
Whayne Supply ..... 12

**CONSULTING SERVICES**  
GIW Industries ..... 53  
Marshall Miller & Associates ..... 53

**CONSULTING SERVICES/ENGINEERS**  
Cowin & Company ..... 53  
Norwest Mine Services ..... 53

**CONTRACTING & CONSTRUCTION/ SAFETY PRODUCTS**  
Coalfield Services ..... 52

**CONVEYOR BACKSTOPS**  
Formsprag Clutch ..... 52  
Marland Clutch ..... 52

**CRUSHERS**  
RTM ..... 50  
Shaft Drillers ..... 52

**DISTRIBUTORS-MOR SUPPLIERS**  
Fairmont Supply Co. .... 9

**ENGINEERING SERVICES**  
Farnham & Pfile ..... 51  
Skelly and Loy ..... 53

**ENGINES**  
CK Power ..... 15

**FANS**  
Paul's Repair Shop ..... 52

**FEEDER BREAKERS**  
Cogar Mine Products ..... 13

**FRESH AIR UNDERGROUND/SAFETY**  
Strata Safety Products, LLC ..... 21

**HIGHWALL MINERS**  
Superior Highwall Miners ..... 41

**HOISTING EQUIPMENT**  
FKC-Lakeshore ..... 52

**INSURANCE**  
American Mining Insurance ..... 25

**LEAKY FEEDER COMMUNICATION**  
Caroll Engineering Group ..... 5  
Hughes Supply Co. .... 45

**MATERIAL HANDLING**  
Richwood Industries ..... 52  
Robertson Process & Electrical ..... 51

**MINING EQUIPMENT**  
Metalcraft Mining ..... 50  
Sandvik ..... (BC) 56

**MOTORIZED CONVEYOR PULLEYS**  
Rulmeca Corp. .... 53

**PAINTING/COATING SERVICES**  
Gardner Paint Services ..... 51

**PIPING/FABRICATION**  
Jabo Supply Corporation ..... 53

**POWER CABLES**  
Priority Wire & Cable ..... 52

**PREPARATION PLANT- DESIGNERS & BUILDERS**  
Lincoln Contracting & Equipment ..... 51

**TIRES & ACCESSORIES**  
SETCO ..... 4

**TRACK CONSTRUCTION**  
Railworks, Inc. .... 53

**WATER BOOSTER SYSTEM**  
Service Pump and Supply ..... 42

**FEATURES**

**Exploration 2007: More Efficient, But More Expensive**  
*Spending is at an all-time high, technology is rapidly advancing—  
and costs are rising* ..... **40**

**Safford Moves Toward Startup**  
*Phelps Dodge's newest mine is progressing on schedule* ..... **46**

**Customers Benefit from Metso Minerals' Research and Test Center**  
*An Australian company was able to obtain fast results for a difficult  
processing problem at Metso Minerals' unique crushing and screening  
test facility* ..... **54**

**Stabilizing Influence**  
*With worker safety and overall productivity at stake, mines are paying  
more attention than ever to slope stability concerns. New technology can  
provide most of the answers* ..... **60**

**LEADING DEVELOPMENTS**

**NovaGold, Teck Cominco to Partner on \$2B Galore Creek  
Project Development** ..... **4**

**CVRD Boosts Its Planned 2007 Spending to \$7.35 Billion** ..... **5**

**Sherritt Bids for Dynatec** ..... **5**

**Anglo American Adds Latin American Assets** ..... **6**

**Study Looks at Risk Management Challenges in Mining Industry** ..... **6**

**AROUND THE WORLD**

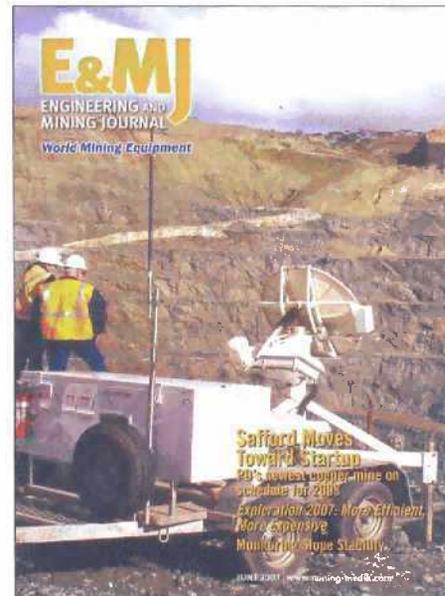
**U.S. & Canada:**  
*Cameco Discusses Cigar Lake Flood Remediation* ..... **10**

**Latin America:**  
*Codelco Gives Salvador Division a Reprieve; Looks at Extending  
El Abra Life* ..... **18**

**Asia:**  
*Alcan, Ma'aden to Develop \$7-Billion Aluminum Complex  
in Saudi Arabia* ..... **26**

**Australia/Oceania:**  
*2006 Record Earnings Year for Rio Tinto, Fueling Global Growth* ..... **30**

**Africa:**  
*Angloplats to Establish Center for Miner Training* ..... **32**



GroundProbe's Slope Stability Radar (SSR) is currently being used at more than 45 large surface mines worldwide. For further information on this system and other slope stability monitoring technology, please turn to p. 60.

**DEPARTMENTS**

**Calendar** ..... **38**

**Classified Advertisements** ..... **94**

**Equipment Gallery** ..... **86**

**From the Editor** ..... **2**

**Markets** ..... **96**

**Operating Strategies** ..... **66**

**People** ..... **22**

**Processing Solutions** ..... **81**

**Suppliers Report** ..... **73**

**This Month in Coal** ..... **36**



"ENR"

June 25, 2007

Contents

Volume 258 • Number 23

# The Top 500 Design Firms Sourcebook

## COVER STORY ▶ Smash Hit

**90** Chairman Richard G. Newman and CEO John M. Dionisio helped pilot AECOM Technology Corp. through a successful IPO that will allow thousands of employee shareholders to diversify assets.

Cover photo and photos above by Guy Lawrence for ENR

## SOURCEBOOK ▶ Strong Market

**7** Markets in the U.S. and around the world are very strong and large design firms are exploiting them. But a number of challenges posed by the market promise to bring changes to the industry.

## NEWS

### ▶ Transportation

**79** **Accidents:** Work on Mississippi bridge begins again four days after collapse



Deadly column collapse. Page 79

**80** **Road Rage:** After angry drivers attack, work site closes to traffic

**84** **Pipelines:** Fused plastic line saves \$400,000 on one-mile pull

## Business & Economics

**78** **Emergency Response:** Engineers seek immunity for work during disasters

**80** **Legislation:** New York finally moves to alter Wicks Law

### ▶ Buildings

**82** **Foundations:** Cantilever over subway key to low-income housing job

### ▶ Power & Industrial

**87** **Wind Power:** World's largest wind turbines headed for offshore Belgium



Long line. Page 84

## DEPARTMENTS

**4** Update

**75** Construction Week

**77** Washington Observer

**88** Construction Economics

**100** Products

**102** Pulse

**107** Official Proposals (cont. on p. 108)

**111** Viewpoint

**112** Editorials

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## COVER STORY

### ► Risk and Reliability

**10** Scientists with the U.S. Army Corps of Engineers are refining ways to explain new understanding about natural hazards and risk developed during investigation of the devastation wrought by Hurricane Katrina. New tools are ready for planners and public use.

Cover photo by Guy Lawrence for ENR; photo right by Michael Goodman for ENR



## SPECIAL REPORT

### ► Expanding Markets

**32** ENR's annual survey of top firms in key environmental sectors reports exploding revenue and markets for most participants. With new focus on being "green," will the good times last another year?



Hot Markets. Page 32

## NEWS

### ► Power & Industrial

**14** Global Warming: Utilities plan to decarbonize but struggle to find solutions

### ► Transportation

**15** Paving: NASCAR track replacement is fast and furious

### ► Business & Economics

**13** Legislation: House action is next step for green energy bill

**16** Trademarks: Caterpillar, dealers face off over imported machines

**18** Senior Housing: Retirement and education are profitable bedfellows



Senior housing at universities. Page 18

**25** Obituary: William LeMessurier, an innovative structural engineer, is dead at 81

## DEPARTMENTS

- 5 Calendar
- 7 Construction Week
- 9 Washington Observer
- 27 Construction Economics
- 78 Products
- 81 Pulse
- 102 Official Proposals (cont. on p. 103)
- 104 Editorials

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COVER STORY

► On the Job

- 25 Introduction:** Construction careers can nourish the soul
- 26 Michael Seal:** Reaching heights is nothing new for engineer
- 28 Bobbi Marstellar:** Woman of steel steals the show
- 29 Jim Croson:** Croson keeps estimating, gives retirement the rub
- 30 Alexander Gorlin:** Childhood obsession becomes a profession
- 32 Ian O'Kelly:** London's subway is a tough place to work
- 32 Yan Wang:** Transportation planning is big business in Beijing
- 34 Joe Byrne:** Bronx native builds ballpark for his home team
- 35 Erich Hiersche:** Surveyor's day balances serenity and stress
- 36 Rob Jones:** Bit by bit, driller helps turn swamp into a skyline
- 38 Becky Stone:** Young project engineer takes charge quickly
- 38 Brett Williams:** Commitment to job shows in major relocation
- 40 Eddie Grantham:** No compromising strict jobsite safety
- 41 Dan Hunyar:** BlackBerry is project manager's tool of the trade
- 42 Tim Snyder:** Overheard message led to opportunity of a lifetime
- 42 Mark Hasso:** Boston professor is a man with a big message
- 44 Pia Hofmann:** Operating engineer takes down 9/11 remnant

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► A Day on the Job

- 25 Micheal Seal,** a climbing inspector checking out the roof structure of baseball's Miller Park, is one of 16 construction professionals in 16 different careers doing the extraordinary, every day—or night—on the job.

NEWS

► Environment

- 10 Flood Control:** New report parses hurricane defenses



Thawing permafrost is troubling. Page 12

- 12 Infrastructure:** Alaska facilities confront rapidly warming temperatures

► Transportation

- 13 Investigations:** NTSB targets epoxy and inspections in CA/T fatality

► Business & Economics

- 15 Acquisitions:** SAIC eyes markets with Bentham buy
- 16 Acquisitions:** Arcadis adds RTKL and expands buildings work

- 17 Contracts:** Arizona light-rail project features new bonus system

- 18 Software:** GPS devices help recover stolen vehicles in Canada

DEPARTMENTS

- 5** Update
- 7** Construction Week
- 9** Washington Observer
- 19** Construction Economics
- 53** Official Proposals (cont. on p. 54)
- 56** Editorials

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## COVER STORY

### ► Hong Kong High Life

**24** The landmark Stonecutters Bridge is taking shape with massive backspans and 300-m-tall towers that have posed major challenges to builders. Erection of the 1,018-m-long main span is the next big step.



Cover photo and photo right by Michael Goodman for ENR

## SPECIAL REPORT

### ► Top 200 International Design Firms

**28** Large international designers are finding the market flush, allowing them to concentrate on high-margin work in economically and politically stable regions.



## NEWS

### ► Transportation

**10 Investigations:** Answers to Central Artery epoxy debate slowly unfold

**14 Highway Finance:** Trust fund outlook worsens, sparking a hunt for revenue

**16 Roads:** Congestion crisis looms for growing California

### ► Business & Economics

**13 Contracting:** GAO ruling on embassy job spurs spate of legal reactions

**13 People:** New Corps chief focuses efforts

**15 Education:** Utility-led programs 'turn on' students to energy careers

### ► Power & Industrial

**17 Hydroelectricity:** Utility adds hydro to locks and dams



Epoxy use is clarified. Page 10

## DEPARTMENTS

**5** Letters

**7** Construction Week

**9** Washington Observer

**18** People

**20** Resources

**22** Construction Economics

**77** Continuing Education

**87** Products

**89** Pulse

**94** Official Proposals (cont. on p. 95)

**98** Editorials

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# Environmental Impact Assessment Review

## ASSESSMENT METHODS

Initial loss estimates for tropical catchments of Australia

*Gurudeo Anand Tularam and Mahbub Ilahee*

493

Sustainability index for Taipei

*Yung-Jaan Lee and Ching-Ming Huang*

505

## STRATEGIC ENVIRONMENTAL ASSESSMENT

Environment and energy in Iceland: A comparative analysis of values and impacts

*Thóra Ellen Thórhallsdóttir*

522

Strategic planning at the national level: Evaluating and ranking energy projects by environmental impact

*Thóra Ellen Thórhallsdóttir*

545



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VOL. 119 • NO. 7/8

JULY/AUGUST 2007

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## T A B L E O F C O N T E N T S

### PALEONTOLOGY

- 771–784 **Erosional truncation of uppermost Permian shallow-marine carbonates and implications for Permian-Triassic boundary events**  
Jonathan L. Payne, Daniel J. Lehrmann, David Follett, Margaret Seibel, Lee R. Kump, Anthony Riccardi, Demir Altiner, Hiroyoshi Sano, Jiayong Wei
- 785–795 **Evidence of an abrupt environmental disruption during the mid-Paleocene biotic event (Zumaia section, western Pyrenees)**  
Gilen Bernaola, Juan Ignacio Baceta, Xabier Orue-Etxebarria, Laia Alegret, Maite Martin-Rubio, Javier Arostegui, Jaume Dinarès-Turell

### STRUCTURAL GEOLOGY

- 796–804 **Early rotation and late folding in the Pennsylvania salient (U.S. Appalachians): Evidence from calcite-twinning analysis of Paleozoic carbonates**  
Philip F. Ong, Ben A. van der Pluijm, Rob Van der Voo

### QUATERNARY GEOLOGY/GEOMORPHOLOGY

- 805–822 **Formation of amphitheater-headed valleys by waterfall erosion after large-scale slumping on Hawai'i**  
Michael P. Lamb, Alan D. Howard, William E. Dietrich, J. Taylor Perron

### NEOTECTONICS/PALEOSEISMICITY

- 823–847 **A 25,000-year record of earthquakes on the Owens Valley fault near Lone Pine, California: Implications for recurrence intervals, slip rates, and segmentation models**  
Steven N. Bacon, Silvio K. Pezzopane

### STRATIGRAPHY

- 848–859 **Basin-wide magnetostratigraphic framework for the Bighorn Basin, Wyoming**  
William C. Clyde, Walid Hamzi, John A. Finarelli, Scott L. Wing, David Schankler, Amy Chew
- 860–881 **High-resolution sequence stratigraphy of lower Paleozoic sheet sandstones in central North America: The role of special conditions of cratonic interiors in development of stratal architecture**  
Anthony C. Runkel, James F. Miller, Robert M. McKay, Allison R. Palmer, John F. Taylor

### TECTONICS

- 882–896 **Cenozoic evolution of the eastern Pamir: Implications for strain-accommodation mechanisms at the western end of the Himalayan-Tibetan orogen**  
Alexander C. Robinson, An Yin, Craig E. Manning, T. Mark Harrison, Shuan-Hong Zhang, Xiao-Feng Wang
- 897–916 **Mesozoic evolution of the Hefei basin in eastern China: Sedimentary response to deformations in the adjacent Dabieshan and along the Tanlu fault**  
Qing-Ren Meng, Shuang-Ying Li, Ren-Wei Li
- 917–932 **Geological records of the Lhasa-Qiangtang and Indo-Asian collisions in the Nima area of central Tibet**  
Paul Kapp, Peter G. DeCelles, George E. Gehrels, Matthew Heizler, Lin Ding
- 933–943 **Validation of tectonic reconstructions by crustal volume balance: New Zealand through the Cenozoic**  
R.A. Wood, V.M. Stagpoole
- 944–960 **Late Paleozoic tectonic history of the Ertix Fault in the Chinese Altai and its implications for the development of the Central Asian Orogenic System**  
Stephanie M. Briggs, An Yin, Craig E. Manning, Zheng-Le Chen, Xiao-Feng Wang, Marty Grove
- 961–977 **Geology and thermochronology of Tertiary Cordilleran-style metamorphic core complexes in the Saghand region of central Iran**  
Charles Verdel, Brian P. Wernicke, Jahandar Ramezani, Jamshid Hassanzadeh, Paul R. Renne, Terry L. Spell
- 978–992 **Dating polyphase deformation across low-grade metamorphic belts: An example based on <sup>40</sup>Ar/<sup>39</sup>Ar muscovite age constraints from the southern Quebec Appalachians, Canada**  
Sébastien Castonguay, Gilles Ruffet, Alain Tremblay
- 993–1003 **Provenance record of Laurentian passive-margin strata in the northern Caledonides: Implications for paleodrainage and paleogeography**  
Peter A. Cawood, Alexander A. Nemchin, Rob Strachan

### GEOPHYSICS

- 1004–1013 **Early Pliocene change of deposition style in the Cape Basin, southeastern Atlantic**  
Estella Weigelt, Gabriele Uenzelmann-Neben

### PETROLOGY—IGNEOUS

- 1014–1024 **Petrotectonic evolution and melt modeling of the Peñon Blanco arc, central Sierra Nevada foothills, California**  
Cameron A. Snow

p. 1 of 2

JULY 2007

vol. 52 • no. 7

## DEEP EARTH

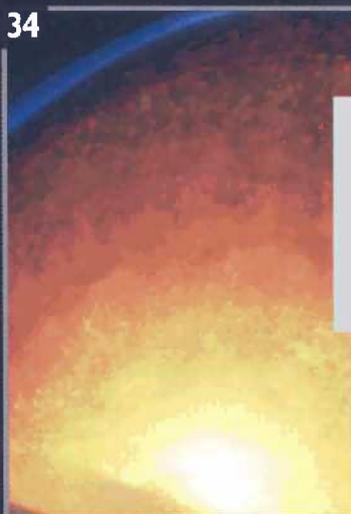
24



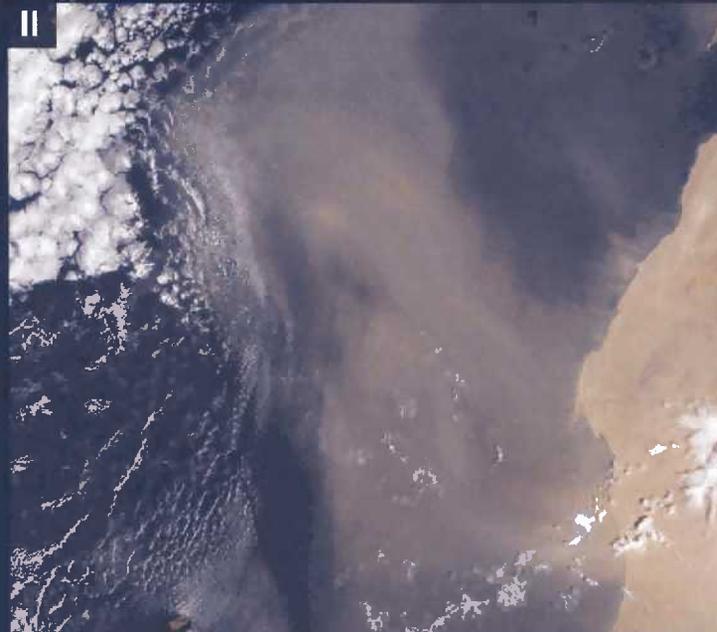
30



34



11



## FEATURES

### 24 X-RAY EYES IN THE SKY

Scientists are working on satellites that will see far below the planet's surface, to better understand the structure and composition of Earth's crust, mantle and core.

Carolyn Gramling

### 30 RIDING THE WILSON CYCLE

The theory of plate tectonics continues to evolve. Now, new research is answering some of the most exciting lingering questions about the evolution of continents, and the operation of plate tectonics itself.

Paul Silver

### 34 BOLDLY GOING DEEPER INTO EARTH

As we look closer and in ever greater detail at the crust and mantle, we are discovering that the interior layers of Earth are far more interesting and enigmatic than those depicted in classical models.

Robert van der Hilst

## NEWS NOTES

### 8 NEWS

Mercury's gooey center

Mars had explosive, watery past

Galileo still up in the air

Largest fossilized forest found in

African lake helps islands bloom

Ancient ocean burps

La Brea yields oil-eating bacteria

Affording the costs climate change

### 15 GEOPHENOMENA

**SPECIAL:** Watching Our Stone Heritage Crumble

Researchers are trying to figure out just how much our historical buildings will degrade as the climate changes.

Megan Sever

### 18 ENERGY & RESOURCES

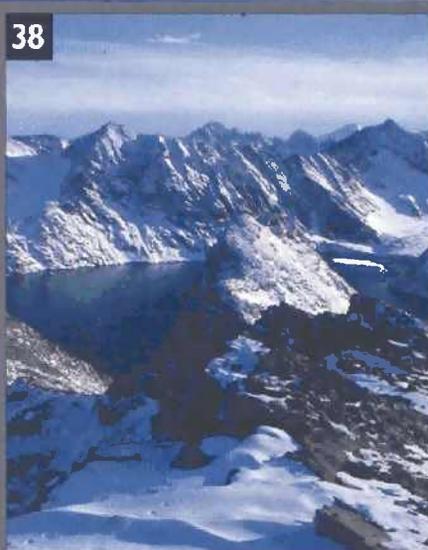
A blight on ethanol

Finding diamonds in your backyard?

Mineral Resource of the Month: Talc

## ON THE COVER

An artistic interpretation from the "Faces of Earth" television series of a semi-transparent Earth looking toward the core. AGI/Meteor Studios



## VIEWS

*Vol. 52, no. 7* *p. 2 of 2*

### 7 A POLITICAL COMMENT ON... The Life of a Bill

How bills become law is a complex process to say the least: Here's a primer to make sense of it all.

Allyson K. Anderson

### 60 GEOLOGIC COLUMN The Magic in Dirt

Geologists know there is magic in dirt, but so too, do locals in places such as Chimayó, N.M., where the soil takes on a spiritual, healing mystique.

Lisa A. Rossbacher and Dallas D. Rhodes

## DEPARTMENTS

46



### 4 FROM THE PUBLISHER

49 GEOMARKETPLACE

50 CLASSIFIEDS: Career opportunities

### 6 LETTERS: Perspectives From Readers

### 21 WHERE ON EARTH?

### 38 TRENDS & INNOVATIONS Ice Voted off Warming Island

As the climate changes, new real estate is revealed, such as Warming Island off the coast of Greenland. Explorers and entrepreneurs are taking advantage of the situation and offering tours to the new locales.

Kathryn Hansen

### 44 EDUCATION & OUTREACH On the Cutting Edge of Teaching About Early Earth

Geoscience faculty come together to learn the latest research in complex topics such as the formation of Earth — and to learn from each other how to best teach the topic to undergraduate students.

Cathryn A. Manduca

60



### 46 GEOMEDIA

#### SPECIAL: Sizing up Earthquake Damage: Differing Points of View

When earthquakes strike, researchers, emergency responders and the media all hit the scene. Their reports of the very same event may differ greatly, however. Researchers need to be aware of the so-called media bias when examining historical earthquakes.

Susan Hough

### 58 DOWN TO EARTH WITH...

Geophysicist Ross Stein

### 59 BENCHMARKS

July 10, 1962: Telstar launches age of satellite communications

Want to attend a geoscience meeting? Visit the online Calendar at [calendar.agiweb.org](http://calendar.agiweb.org)

ON THE WEB AT [www.geotimes.org](http://www.geotimes.org)

21



p. 1 of 2



ELLEN WEINSTEIN

**The freedom of information pendulum has begun to swing back in the direction of access.**

## Features

### 28 Crackdown

Immigration pressures are rearranging politics in more than one state capitol.

*By Josh Goodman*

### 38 The Valley of Surveillance

Phoenix is on the cutting edge when it comes to using wireless cameras to catch criminals.

*By Ellen Perlman*

### 48 The Long and Taxing Road

The gas tax is dying. Will drivers pay for highways by the mile?

*By Kathleen Hunter*

### 53 A Counselor's Calling

If there's a way to tame long-term-care costs, a program that puts patients in control may be it.

*By Will Wilson*

### 58 A Little Sunshine

After a period of eclipse, anti-secrecy and open-government laws are making a comeback.

*By Melissa Maynard*

### GLIMPSE

### 84 Auditors Anonymous

Cities are turning to "mystery shoppers" to evaluate how well they deliver services.

*By Zach Patton*

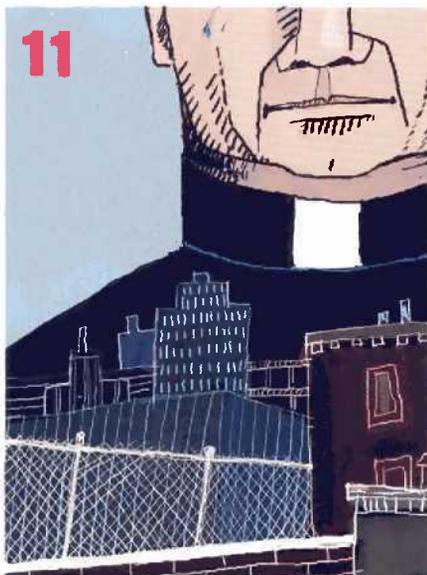
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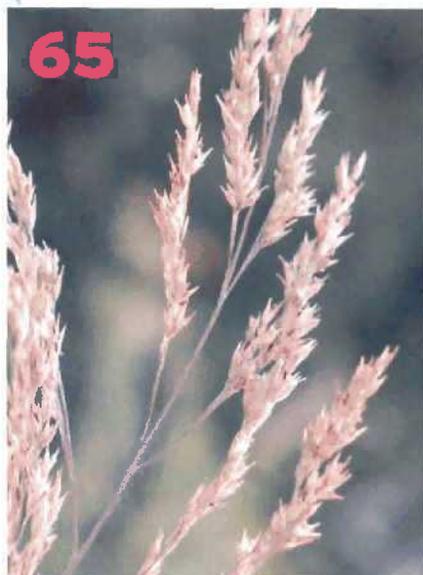
The Magazine of States and Localities

Vol. 20, no. 10  
July 2007

p. 2 of 2



11



65



70

## Up Front

- 8 **Publisher's Desk**
- 11 **Assessments**  
Alan Ehrenhalt on new life in Newark.
- 14 **Dialogue**  
Letters from readers.
- 17 **Observer**  
Corruption in Juneau, North Dakota's new incorporation law, and rancor in Little Rock.
- 19 **Urban Notebook**  
Boston's naming-rights game, civics lessons in Utah, and a development agency's demise.
- 22 **Player**  
William Ruckelshaus: Water diplomat.
- 24 **Potomac Chronicle**  
High drug prices are pushing some states to take radical action.

## The Business of Government

### LEAD STORY

- 65 States are plowing millions into switchgrass and other sources for biofuels.

### HEALTH

- 66 Penelope Lemov on a push for health cost containment.

### TECHNOLOGY

- 68 Mark Stencil on the marriage of e-mail and voice mail in a single electronic inbox.

### ECONOMIC DEVELOPMENT

- 70 **Briefing:** New Mexico's plans to build a commercial spaceport take off.

### MANAGEMENT

- 72 Katherine Barrett and Richard Greene on incentives to change citizens' behavior.

### ENVIRONMENT

- 74 **Briefing:** Localities can mandate that private trash haulers use public landfills.

### FINANCE

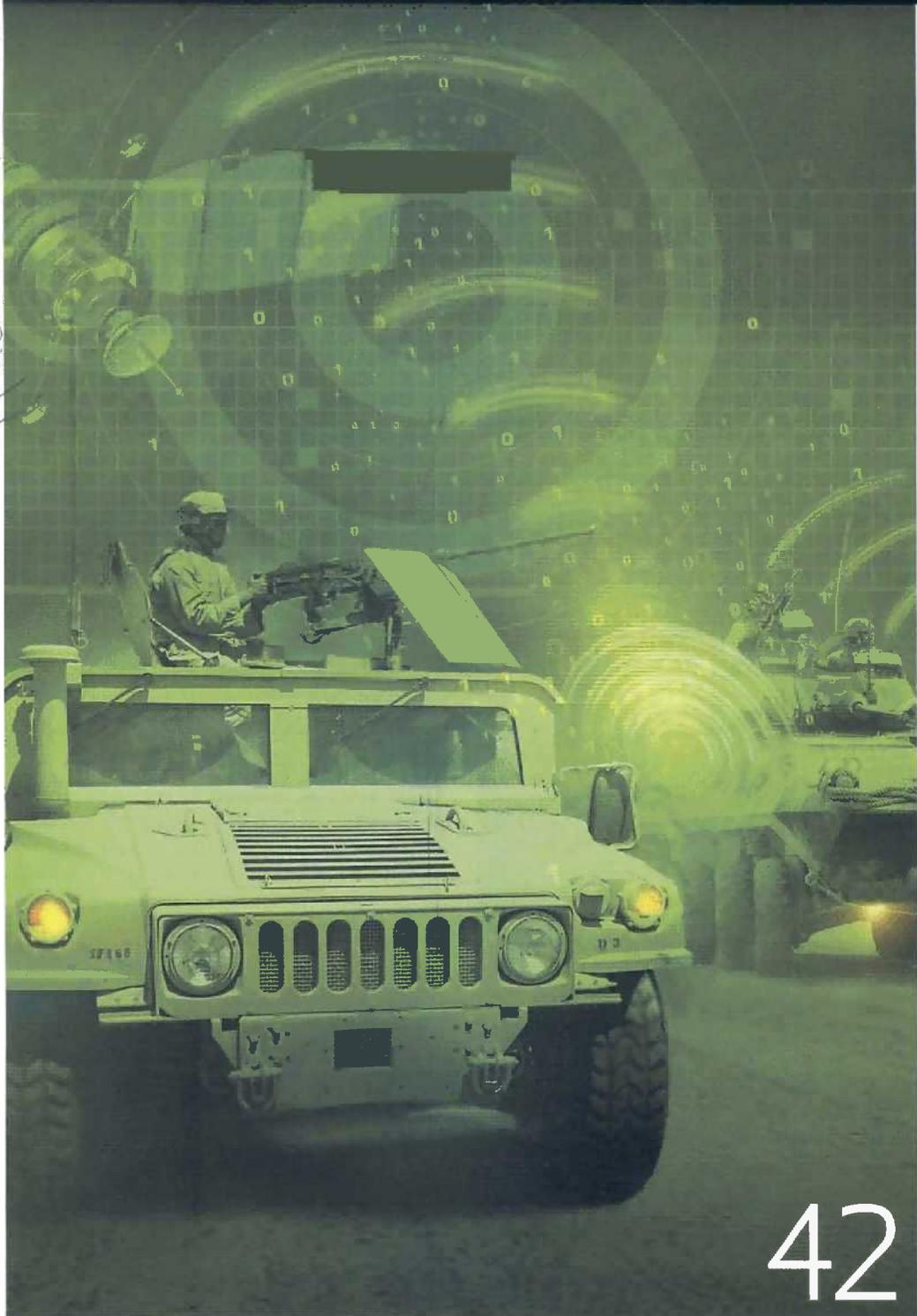
- 76 John E. Petersen on state tax exemptions on interest income from muni bonds.

### TRANSPORTATION

- 78 **Briefing:** Kansas finds renting vehicles isn't cheaper than owning them.

# Contents

MAY 15, 2007 VOL. 39 NO. 8



RYAN ETTEK

## FEATURES

p. 1 of 2

### Launching a New Navy 24

Shipbuilding and buying bumbles beset the Navy's top officer, Adm. Michael G. Mullen, as he sets the service on a new course.  
*By Greg Grant*

### Fight to The Finish 34

As the Bush administration winds down, tensions between careerists and political appointees heat up.  
*By Karen Rutzick*

### Running Lean 42

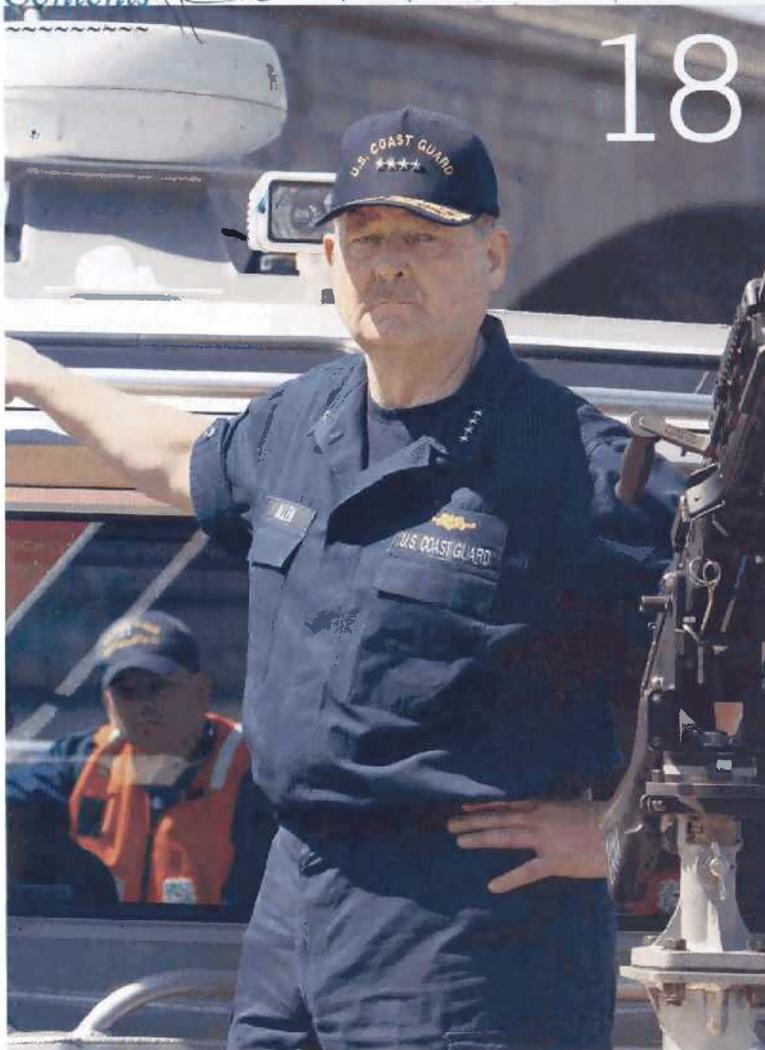
In a world of sense-and-respond logistics, vehicles call in when they're low on gas and fuel is delivered before they run out.  
*By David Perera*

### Overcoming Katrina 50

The Federal Emergency Management Agency says its contracting problems are solved—the next huge disaster will be the true test.  
*By Robert Brodsky*

Cover illustration by Stephen Webster

# 42



**NEWS+ANALYSIS**

p. 2 of 2

**Staying in the Fight 13**

Troop tours lengthen, but no one agrees on the right duration for deployments. *By Greg Grant*

**Out of Its Depth 18**

The Coast Guard's decision to take over Deepwater raises concern about the government's ability to oversee large contracts. *By Katherine McIntire Peters*

**Picture This 22**

Rising accuracy rate makes face recognition technology a viable security tool. *By Zack Phillips*

**ADVICE+DISSENT**

**If the Symptom Fits 59**

**Managing Technology** Electronic patient files advance care, up to a point. *By David Perera*

**All Together Now 61**

**Management Matters** The workplace lines have blurred for government, for-profits and nonprofits. *By Brian Friel*

**Gimme an S-P-Y 62**

**Intelligence File** Intelligence cheerleaders promote solidarity in the field. *By Shane Harris*

**The Long View 63**

**Viewpoint** Enterprise architecture plans are useless without clear, relevant information. *By Andrew N. Blumenthal*

**Katrina's Neglected Lesson 64**

**Viewpoint** It's the people, not just policies, that make a disaster plan work. *By Bruce C. Jones*

**IN EVERY ISSUE**

**Editor's Notebook 6**

The struggle to control agency rule-making.

**The Buzz 9**

Palin bears on the hot seat, muddies the tax gap, and uniformly whappy

**Outlook 66**

Sometimes where there's smoke, there's just smoke. *By Tom Shoop*



TOP TO BOTTOM: COAST GUARD; CORBIS; MARK WOLFE/FEMA

# Contents

JULY 1 2007 VOL 39 NO 11

p. 1 of 2

## FEATURES

### Hard Numbers 26

The Government Accountability Office's Ronald Stroman exposes disparities in promotions and performance ratings.  
*By Karen Rutzick*

### Watched Cops 32

Inspectors general are finding that oversight cuts both ways.  
*By Robert Brodsky*

### Playing The Piper 40

Businesses wouldn't bite on the last attempt to lure them into biodefense, so the Health and Human Services Department is changing its tune.  
*By Zack Phillips*

### Buildup Bluster 48

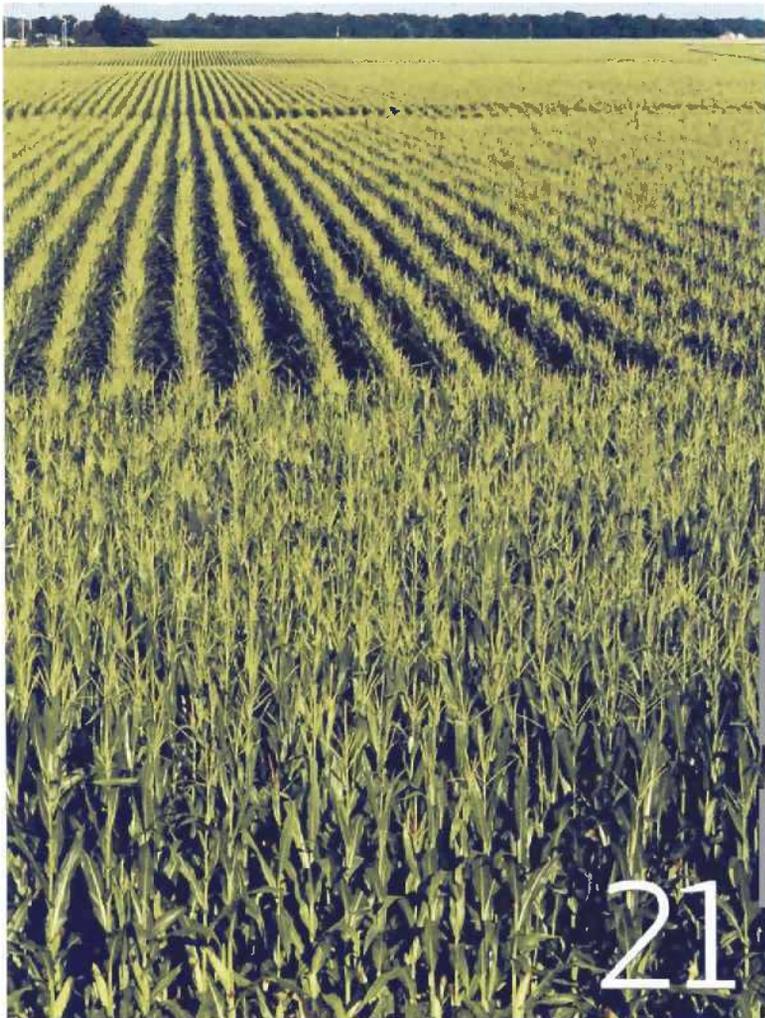
If an Iraq drawdown is nigh, why are we adding 92,000 combat troops to the Army and Marines?  
*By Greg Grant*

(cont.)

32

Cover photograph  
by James Kegley

p. 2 of 2



21

**NEWS+ANALYSIS**

**Fields of Dreams 21**

Burning ethanol made from corn is supposed to reduce our dependence on oil; instead, it's wreaking havoc on agriculture.

By Katherine McIntire Peters

**State of Uncertainty 23**

Staff shortfalls are undercutting Condoleezza Rice's efforts to transform her agency.

By Katherine McIntire Peters

**Mad About MySpace 24**

Defense's decision to block popular Web sites pits online buddies against bandwidth.

By Bob Brewin

**ADVICE+DISSENT**

**Patching Holes 53**

**Managing Technology** Fixing network vulnerabilities can be easier than you think.

By Allan Holmes

**Rules Are Cool 55**

**Management Matters** Sometimes it's better to embrace red tape, not cut it. By Brian Friel

**Languishing Linguists 56**

**Intelligence File** Why can't 2,000 Arabic speakers get jobs with an intelligence agency?

By Shane Harris

**Erasing the Rubber Stamp 57**

**Political World** In the 100th Congress, oversight is about more than oversight.

By Charles Mahtesian

**IN EVERY ISSUE**

**Editor's Notebook 8**

A reader defines our mission.

**Letters 10**

**The Buzz 15**

High-stakes training, fraud busters and diversity in the Senior Executive Service.

**Outlook 58**

Executive awards come under increased scrutiny. By Tam Shoop



55



57

"Government Executive"

# Contents

JULY 15, 2007 VOL. 39 NO. 12

p. 1 of 2



## FEATURES

### Conflicting Images 22

Facebook, MySpace and other social networking Web sites now host civil servants ranting and agencies recruiting—mixed messages abound.  
*By Karen Rutzick*

### On the Brink 30

The success of the 2010 census hangs on a risky switch to handheld computers.  
*By Allan Holmes*

### Power Player 40

The Nuclear Regulatory Commission hasn't licensed a new reactor in three decades. That's about to change in a big way.  
*By Katherine McIntire Peters*

(cont.)

30

Cover illustration by Ryan Elter

ANDY LACROW

Contents

p. 2 of 2



NEWS+ANALYSIS

Big Round Numbers 13

From radiation treatment to smallpox vaccines to port security, do agencies really know how much is enough? By Zack Phillips

Size Does Matter 16

Agencies might be surprised to discover the true cost of the Postal Service's rate change. By Robert Brodsky

At an Impasse 18

Bush-appointed labor panel is not known for compromise. By Alyssa Rosenberg

ADVICE+DISSENT

Barrier Busters 49

Managing Technology The Voyagers Program brings federal workers and industry together. By Robert Brodsky

What's the Big Idea? 51

Management Matters Coming up with a moon shot goal can be tricky, but fear of failure is no reason not to try. By Brian Friel

Chain of Command 52

Intelligence File Did George Tenet fail the president, or just do his job? By Shane Harris

Just Rewards 53

Viewpoint Pay for performance can work if systems are properly designed and managed. By James R. Thompson

IN EVERY ISSUE

Editor's Notebook 6

Risk management and the Pursuit of Happiness.

Letters 7

The Buzz 9

Covert contractors, private spies and cautionary tales.

Outlook 54

Shouldn't top government officials have at least a working knowledge of technology? By Tom Shoop



TOP TO BOTTOM: PHOTOS.COM/CLIG, I. BROJUNDA, ANTHONY FERONDE



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## Special Issue

### ICCP 2005 Selected papers presented at the 57th Annual Meeting of the International Committee for Coal and Organic Petrology, Patras, Greece

edited by

**Kimon Christanis**

*Department of Geology, Section of Earth Materials, University of Patras,  
26500 Rio-Patras, Greece*

p. 1 of 2



## CONTENTS

### *Editorial*

57th Annual Meeting of the International Committee for Coal and Organic Petrology Patras, Greece 18–23 September 2005 .....	387
--	-----

### *Research Papers*

Evolution of optical properties of vitrinite, sporinite and semifusinite in response to heating under inert conditions J. Komorek and R. Morga .....	389
Organic components in thermally altered coal waste: Preliminary petrographic and geochemical investigations M. Misz, M. Fabiańska and S. Ćmiel .....	405

International Journal of Coal Geology  
P. 2 of 2

Contents

Vol. 71, no. 4 (2007)

Sulphur and carbon isotopic composition of power-supply coals in the Pannonian Basin, Hungary M. Hámor-Vidó and T. Hámor	425
Microstructural characteristics of toluene and quinoline-insolubles from coal-tar pitch and their cokes C. Panaitescu and G. Predeanu	448
Physical properties of shungite B. Kwiecinska, S. Pusz, M. Krzesinska and B. Pilawa	455
Thermal alteration of coal in the Khasyn coalfield, Magadan region, Russia I.E. Stukalova and O.V. Rusinova	462
Liptinite as an indicator of environmental changes during formation of coal seam No. 207 (Upper Silesia, Poland) I. Jelonek, K.J. Kruszewska and P. Filipiak	471
Properties and depositional environment of the Neogene Elhovo Lignite, Bulgaria A. Zdravkov, I. Kostova and J. Kortenski	488
Organic petrology of Paleocene Marcelina Formation coals, Paso Diablo mine, western Venezuela: Tectonic controls on coal type P.C. Hackley and M. Martinez	505
Organic petrology, mineralogy and depositional environment of the Kipra lignite seam, Maritza-West basin, Bulgaria I. Kostova and A. Zdravkov	527
Petrographic evaluation of xylite activated carbon G. Predeanu and C. Panaitescu	542
Potential source rocks, organic geochemistry and thermal maturation in the southern depocenter (Kipourio-Grevena) of the Mesohellenic Basin, central Greece P. Avramidis and A. Zeliidis	554
Comparative studies of organic matter petrography of the late palaeozoic black shales from Southwestern Poland G.J. Nowak	568

P. 1 of 2

## SPECIAL SUBMISSIONS

The articles in this section are the result of the "Current Developments in Remediation of Contaminated Lands" conference held 27–29 October 2005 in Pulawy, Poland, within the EU funded PROLAND (Protection of Land and Water Quality and Sustainable Development of Rural Areas) project. The conference was organized by the Institute of Soil Science and Plant Cultivation–State Research Institute (IUNG), Pulawy, Poland. Guest editors include Dr. Tomasz Stuczynski, Dr. Grzegorz Siebielec, Dr. Nick Lepp, and Dr. Nicholas Basta.

- 1112–1122 **Theory and Application of Landfarming to Remediate Polycyclic Aromatic Hydrocarbons and Mineral Oil-Contaminated Sediments; Beneficial Reuse** J. Harmsen, W.H. Rulkens, R.C. Sims, P.E. Rijtema, and A.J. Zweers
- 1123–1131 **Cadmium and Zinc in Vegetation and Litter of a Voluntary Woodland that has Developed on Contaminated Sediment-Derived Soil** Nicholas W. Lepp and Paula Madejón
- 1132–1136 **Preceding Crop Affects Grain Cadmium and Zinc of Wheat Grown in Saline Soils of Central Iran** Amir H. Khoshgoftarmansh and Rufus L. Chaney
- 1137–1144 **Changes in Microbial Biomass Parameters of a Heavy Metal-Contaminated Calcareous Soil during a Field Remediation Experiment** R. Clemente, C. de la Fuente, R. Moral, and M.P. Bernal
- 1145–1153 **Remediation of Heavy Metal-Contaminated Forest Soil Using Recycled Organic Matter and Native Woody Plants** H.-S. Helmisaari, M. Salemaa, J. Derome, O. Kiikkilä, C. Uhlig, and T.M. Nieminen
- 1154–1162 **Biological Aspects of Metal Waste Reclamation with Biosolids** Tomasz Stuczynski, Grzegorz Siebielec, William L. Daniels, Greg McCarty, and Rufus L. Chaney

## REVIEWS & ANALYSES

- 1163–1171 **Natural Alkalinity Generation in Neutral Lakes Affected by Acid Mine Drainage** Matthias Koschorreck and Jörg Tittel
- 1172–1180 **Meta-Analysis of Nitrogen Removal in Riparian Buffers** Paul M. Mayer, Steven K. Reynolds, Jr., Marshall D. McCutchen, and Timothy J. Canfield

## TECHNICAL REPORTS

### Bioremediation and Biodegradation

- 927–934 **Impact of Ectomycorrhizal Colonization of Hybrid Poplar on the Remediation of Diesel-Contaminated Soil** J.J. Gunderson, J.D. Knight, and K.C.J. Van Rees

### Ecological Risk Assessment

- 935–942 **Geostatistical Analysis and Risk Assessment on Soil Total Nitrogen and Total Soil Phosphorus in the Dongting Lake Plain Area, China** Peng Lu, Yirong Su, Zheng Niu, and Jinshui Wu
- 943–952 **Prediction of Radionuclide Aging in Soils from the Chernobyl and Mediterranean Areas** M. Roig, M. Vidal, G. Rauret, and A. Rigol

### Ground Water Quality

- 953–962 **Monitoring of Nitrate Leaching in Sandy Soils: Comparison of Three Methods** Lincoln Zotarelli, Johannes M. Scholberg, Michael D. Dukes, and Rafael Muñoz-Carpena

### Heavy Metals in the Environment

- 1181–1186 **Elevated Cadmium Concentrations in Potato Tubers Due to Irrigation with River Water Contaminated by Mining in Potosí, Bolivia** Carla Oporto, Carlo Vandecasteele, and Erik Smolders
- 1187–1193 **Hydrophobicity of Soil Colloids and Heavy Metal Mobilization: Effects of Drying** Sondra Klitzke and Friederike Lang

### Plant and Environment Interactions

- 963–974 **Riparian Plant Material Inputs to the Murray River, Australia: Composition, Reactivity, and Role of Nutrients** Graeme Esslemont, William Maher, Phillip Ford, and Ian Lawrence
- 975–982 **Agri-environmental Thresholds using Mehlich III Soil Phosphorus Saturation Index for Vegetables in Histosols** Julie Guérin, Léon-Étienne Parent, and Rahima Abdelhafid

Continued

Cover: Rock heaps in a mining zone in Bolivia. See Oporto et al., "Elevated cadmium concentrations in potato tubers due to irrigation with river water contaminated by mining in Potosí, Bolivia," p. 1181–1186. Image by Carla Oporto.

### Surface Water Quality

- 983-995 **Test of APEX for Nine Forested Watersheds in East Texas** X. Wang, A. Saleh, M.W. McBroom, J.R. Williams, and L. Yin
- 996-1005 **Modeling Riverine Nitrate Export from an East-Central Illinois Watershed Using SWAT** X. Hu, G.F. McIsaac, M.B. David, and C.A.L. Louwers
- 1006-1012 **Occurrence and Bioavailability of Pyrethroids in a Mixed Land Use Watershed** R. Budd, S. Bondarenko, D. Haver, J. Kabashima, and J. Gan
- 1013-1020 **Runoff Water Quality from Turfgrass Established Using Volume-Based Composted Municipal Biosolids Applications** N.E. Hansen, D.M. Vietor, C.L. Munster, R.H. White, and T.L. Provin
- 1021-1030 **Nutrient Load Generated by Storm Event Runoff from a Golf Course Watershed** K.W. King, J.C. Balogh, K.L. Hughes, and R.D. Harmel
- 1194-1204 **Influence of Alternative and Conventional Farming Practices on Subsurface Drainage and Water Quality** K.A. Oquist, J.S. Strock, and D.J. Mulla

### Waste Management

- 1031-1041 **Use of Wastewater and Compost Extracts as Nutrient Sources for Growing Nursery and Turfgrass Species** Robert C. Michitsch, Calvin Chong, Bruce E. Holbein, R. Paul Voroney, and Hua-Wu Liu
- 1042-1049 **Phosphorus and Other Soil Components in a Dairy Effluent Sprayfield, within the Central Florida Ridge** Kenneth R. Woodard, Lynn E. Sollenberger, Lewin A. Sweat, Donald A. Graetz, Vimala D. Nair, Stuart J. Rymph, Leighton Walker, and Yongsung Joo
- 1050-1060 **Role of Organic Matter in Microbial Transport during Irrigation with Sewage Effluent** Pinchas Fine and Amir Hass
- 1061-1068 **Environmental Impact Evaluation of Feeds Prepared from Food Residues Using Life Cycle Assessment** Akifumi Ogino, Hiroyuki Hirooka, Atsuo Ikeguchi, Yasuo Tanaka, Miyoko Waki, Hiroshi Yokoyama, and Tomoyuki Kawashima
- 1069-1075 **Removal of Perchlorate from Contaminated Waters Using Surfactant-Modified Zeolite** Pengfei Zhang, David M. Avudzeza, and Robert S. Bowman
- 1076-1085 **Lability of Drinking Water Treatment Residuals (WTR) Immobilized Phosphorus: Aging and pH Effects** Sampson Agyin-Birikorang and George A. O'Connor

- \* 1086-1095 **Comparison of Phosphorus Forms in Wet and Dried Animal Manures by Solution Phosphorus-31 Nuclear Magnetic Resonance Spectroscopy and Enzymatic Hydrolysis** Zhongqi He, Barbara J. Cade-Menun, Gurpal S. Toor, Ann-Marie Fortuna, C. Wayne Honeycutt, and J. Thomas Sims

### Vadose Zone Processes and Chemical Transport

- 1205-1216 **Micro-Trench Experiments on Interflow and Lateral Pesticide Transport in a Sloped Soil in Northern Thailand** G. Kahl, J. Ingwersen, P. Nutniyom, S. Totrakool, K. Pansombat, P. Thavorniyutikarn, and T. Streck

### Wetlands and Aquatic Processes

- 1096-1104 **Spatial Variation of Soil Phosphorus within a Drainage Ditch Network** Robert E. Vaughan, Brian A. Needelman, Peter J.A. Kleinman, and Arthur L. Allen
- 1217-1223 **Effect of River Sediment on Phosphorus Chemistry of Similarly Aged Natural and Created Wetlands in the Atchafalaya Delta, Louisiana, USA** M.E. Poach and S.P. Faulkner

### SHORT COMMUNICATIONS

- 1105-1111 **Spatial Analysis of a Large Magnitude Erosion Event Following a Sierran Wildfire** Erin M. Carroll, Wally W. Miller, Dale W. Johnson, Laurel Saito, Robert G. Qualls, and Roger F. Walker
- 1224-1230 **Sulfamethazine Uptake by Plants from Manure-Amended Soil** Holly Dolliver, Kuldip Kumar, and Satish Gupta

### BOOK REVIEWS

- 1231 **Pesticides: Health, Safety and the Environment—Reviewed by R.S. Kookana**
- 1231 **The First Seed: The Political Economy of Plant Biotechnology (Second Edition)—Reviewed by George H. Liang**
- 1232 **Landslides: Processes, Prediction and Land Use—Reviewed by B.C. Eaton**
- 1232 **Handbook of Statistics for Teaching and Research in Plant and Crop Science—Reviewed by K.L. Roozeboom**
- 1233 **Modeling Phosphorus in the Environment—Reviewed by P.M. Haygarth and C.J.A. Macleod**

### ALSO IN THIS ISSUE

- iv-viii **This Issue in *Journal of Environmental Quality***

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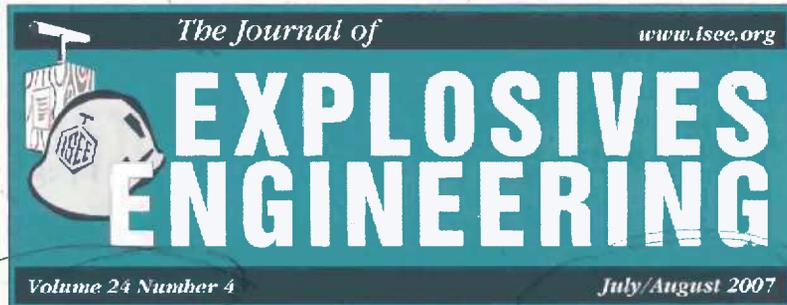
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**Table of Contents**

**FEATURES**

**6 Development of an Urban Blasting Ordinance for the City of Henderson, Nevada**

Some residential development in the city of Henderson, NV, requires blasting to be conducted at close proximities to high-value houses. The development of a revised ordinance was guided by vibration attenuation and structure response scientific studies summarized in this article.

**14 Vibration Control Through Better Predictions**

This article covers the basics on understanding vibrations, explaining vibrations to the public, and predicting vibrations.

**22 Safety Talk**

Discusses the "digital danger" of using a cell phone while operating a vehicle.

**36 A Classic Experiment with Air Overpressure and Windows**

This article describes a series of experiments conducted in the UK with explosive charges fired in unconfined conditions close to various window configurations.

**DEPARTMENTS**

**6 From the Executive Director**

**24 Calendar of Events**

A list of upcoming events in the explosives industry.

**26 Industry News**

News about people, companies, events, and new products.

**27 Chapter News**

News from Black Hills, Northern Plains, and Peach State Chapters of ISEE.

**28 Explosives, 100 Years Ago, More or Less**

Pamphlet on stump and boulder blasting for farmers. A second article illustrates how the U.S. was far behind Europe in coal mine safety in 1907.

**32 Vibration and Seismograph Section**

Using a GPS when investigating citizen complaints.

**34 Committee News**

News from the Transportation Committee.

**42 Blastserve: An e-mail discussion list.**

Blasting near railroad tracks.

*Correction: Eric Geist's name was spelled incorrectly in the May/June 2007 issue of the Journal on pg. 22.*



**On the Cover:** Drilling and blasting for a new underground parking along side a heritage building to the north and west and a government building to the south in Nanaimo, British Columbia, CANADA. Photo by Corry Goumans.

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TABLE OF CONTENTS

p. 1 of 2

TECHNICAL PAPERS

A Comparison of Gauge and Radar-Derived Rainfall in a Land Falling Typhoon in Taiwan  
 – *Ray-Shyan Wu, Ching-Ho Chen, and Dong-Sin Shih* .....281

Development of an Index of Biotic Integrity for a Southeastern Coastal Plain Watershed, USA  
 – *Charles C. Morris, Paul M. Stewart, and Thomas P. Simon* .....295

Water, Adaptation, and Property Rights on the Snake and Klamath Rivers  
 – *Richard A. Slaughter and John D. Wiener*.....308

Comparative Evaluation of Three River Water Quality Models  
 – *Emerald M. Roider and Donald Dean Adrian* .....322

Estimating Hydraulic Properties of Volcanic Aquifers Using Constant-Rate and Variable-Rate  
 Aquifer Tests  
 – *Kolja Rotzoll, Aly I. El-Kadi, and Stephen B. Gingerich*.....334

Multi-Criteria Decision Support Systems for Flood Hazard Mitigation and Emergency Response in  
 Urban Watersheds  
 – *Jason K. Levy, Jens Hartmann, Kevin W. Li, Yunbi An, and Ali Asgary*.....346

Demonstrating Floodplain Uncertainty Using Flood Probability Maps  
 – *Christopher M. Smemoe, E. James Nelson, Alan K. Zundel, and A. Woodruff Miller* .....359

New Criteria for Sustainable Water Quality Management  
 – *Yun-Ju Chen and Ching-Pin Tung* .....372

Sound Survey Designs Can Facilitate Integrating Stream Monitoring Data Across Multiple  
 Programs  
 – *David P. Larsen, Anthony R. Olsen, Steven H. Lanigan, Chris Moyer, Kim K. Jones, and  
 Thomas M. Kincaid*.....384

Dry Weather Water Quality Loadings in Arid, Urban Watersheds of the Los Angeles Basin,  
 California, USA  
 – *Eric D. Stein and Drew Ackerman*.....398

Modeling Stream Channel Characteristics From Drainage-Enforced DEMs in Puget Sound,  
 Washington, USA  
 – *Jeremy R. Davies, Kerry M. Lagueux, Beth Sanderson, and Timothy J. Beechie*.....414

Residents' Assessment of an Urban Outdoor Water Conservation Program in Guelph, Ontario  
 – *Christine Atwood, Reid Kreutzwiser, and Rob de Loë*.....427

Stream Temperature Surges Under Urbanization and Climate Change: Data, Models, and Responses  
 – *Kären C. Nelson and Margaret A. Palmer*.....440

Journal of the American Water Resources Assoc.  
Vol. 43, no. 2 (April 2007) (p. 2 of 2)

Developing Nutrient Criteria for Streams: An Evaluation of the Frequency Distribution Method – Michael W. Suplee, Arun Varghese, and Joshua Cleland.....	453
Generalized Nondimensional Depth-Discharge Rating Curves Tested on Florida Streamflow – Auristela Mueses, Ahmed Said, and Mark Ross.....	473
The Sensitivity of California Water Resources to Climate Change Scenarios – Sebastian Vicuna, Edwin P. Maurer, Brian Joyce, John A. Dracup, and David Purkey.....	482
Alluvial Sedimentation and Erosion in an Urbanizing Watershed, Gwynns Falls, Maryland – Mark F. Colosimo and Peter R. Wilcock.....	499
Minimum Wet-Season Flows and Levels in Southwest Florida Rivers – Adam B. Munson and Joseph J. Delfino.....	522
Developing a Standardized Water Quality Index for Evaluating Surface Water Quality – Fredrick W. Kaurish and Tamim Younos.....	533
Simulation of Surface Water for Un-Gauged Areas with Storage-Attenuation Wetlands – Ahmed Said, Mark Ross, Ken Trout, and Jing Zhang.....	546
Book Reviews.....	557

---

# The Journal of Wildlife Management

## Contents

Volume 71, Number 5, July 2007

p. 1 of 2

### Editorial

- 1391 Calling All Students  
*Carly Johnson*

### Research Articles

- 1393 Identifying Sites for Elk Resoration in Arkansas  
*Rebecca L. Telesco, Frank T. van Manen, Joseph D. Clark, and Michael E. Cartwright*
- 1404 Influence of Forest Fragmentation on the Winter Abundance of Mammals in Mt. Chrisan National Park, South Korea  
*Shin-Jac Rhim and Woo Shin Lee*
- 1409 The Effect of Snowmobile Trails on Coyote Movements Within Lynx Home Ranges  
*Jay A. Kolbe, John R. Squires, Daniel H. Pletscher, and Leonard F. Ruggiero*
- 1419 Quantifying Landscape Ruggedness for Animal Habitat Analysis: A Case Study Using Bighorn Sheep in the Mojave Desert  
*J. Mark Sappington, Kathleen M. Longshore, and Daniel B. Thompson*
- 1427 Do Embedded Shotgun Pellets Have a Chronic Effect on Body Condition of Pink-Footed Geese?  
*Jesper Madsen and Frank Rigét*
- 1431 Mute Swans' Impact on Submerged Aquatic Vegetation in Chesapeake Bay  
*Ketan S. Tatu, James T. Anderson, Larry J. Hindman, and George Seidel*
- 1440 Effects of Winter-Feeding on Mule Deer in Northern Utah  
*Chris Peterson and Terry A. Messmer*
- 1446 Components of Grizzly Bear Habitat Selection: Density, Habitats, Roads, and Mortality Risk  
*Lana M. Ciarniello, Mark S. Boyce, Douglas C. Heard, and Dale R. Seip*
- 1458 Genetic Analysis of Standardized Collections of Cackling and Canada Goose Harvests  
*Rainy I. Shorey, Kim T. Scribner, Harold H. Prince, Alexandra N. Kravchenko, David R. Luukkonen, and Paul I. Padding*
- 1467 Effects of Habitat on Competition Between Kit Foxes and Coyotes  
*Julia L. Nelson, Brian L. Cypher, Curtis D. Bjurlin, and Scott Creel*
- 1476 Denning Chronology and Design of Effective Bear Management Units  
*Robert M. Inman, Cecily M. Costello, Donald E. Jones, Kristine H. Inman, Bruce C. Thompson, and Howard B. Quigley*
- 1484 Home Range and Population Density of Fishers in Eastern Ontario  
*Erin L. Koen, Jeff Bocoman, C. Scott Findlay, and Ligan Zbeng*
- 1494 Ranking Alaska Moose Nutrition: Signals to Begin Liberal Antlerless Harvests  
*Rodney D. Boertje, Kalin A. Kellie, C. Tom Seaton, Mark A. Keech, Donald D. Young, Bruce W. Dale, Layne G. Adams, and Andrew R. Aderman*
- 1507 Scale of Management for Mature Male White-Tailed Deer as Influenced by Home Range and Movements  
*Stephen L. Webb, David G. Hewitt, and Mickey W. Hellickson*
- 1513 Burrowing Owl Mortality in the Altamont Pass Wind Resource Area  
*K. Shawn Smallwood, Carl G. Tzelander, Michael L. Morrison, and Lourdes M. Ruggie*
- 1525 The Impact of White-Tailed Deer on Agricultural Landscapes in 3 National Historical Parks in Maryland  
*Chad M. Stewart, William J. McShea, and Brian P. Piccolo*
- 1531 Spatial Population Structure of Yellowstone Bison  
*Edward M. Olexa and Peter J. P. Gogan*
- 1539 Displacement of Mountain Caribou From Winter Habitat by Snowmobiles  
*Dale R. Seip, Chris J. Johnson, and Glen S. Watts*
- 1545 Coyotes as Sentinels for Monitoring Bovine Tuberculosis Prevalence in White-Tailed Deer  
*Todd C. Atwood, Kurt C. VerCauteren, Thomas J. Deliberto, Holly J. Smith, and Justin S. Stevenson*
- 1555 Does Removing Coyotes for Livestock Protection Benefit Free-Ranging Ungulates?  
*Justin L. Harrington and Michael R. Conover*
- 1561 The Effects of Seasonal Flooding on Seed Availability for Spring Migrating Waterfowl  
*Andrew K. Greer, Bruce D. Dugger, Dave A. Graber, and Mark J. Petrie*
- 1567 Testing Predictions of the Prey of Lion Derived From Modeled Prey Preferences  
*Matt W. Hayward, John O'Brien, Markus Hojmeyr, and Graham I. H. Kerley*
- 1576 Attempting to Manage Complex Predator-Prey Interactions Fails to Avert Imminent Extinction of a Threatened New Zealand Skink Population  
*Jeanne M. Hoare, Lynn K. Adams, Leigh S. Bull, and David R. Towns*
- 1585 Reduction and Maintenance of a White-Tailed Deer Herd in Central Massachusetts  
*John E. McDonald, Jr., Daniel E. Clark, and William A. Woytek*
- 1594 Fence-Line Contact Between Wild and Farmed Cervids in Colorado: Potential for Disease Transmission  
*Kurt C. VerCauteren, Michael J. Lavelle, Nathan W. Seward, Justin W. Fischer, and Gregory E. Phillips*

### Research Notes

- 1603 Fence-Line Contact Between Wild and Farmed White-Tailed Deer in Michigan: Potential for Disease Transmission  
*Kurt C. VerCauteren, Michael J. Lavelle, Nathan W. Seward, Justin W. Fischer, and Gregory E. Phillips*
- 1607 Circadian Activity Patterns of Canada Lynx in Western Montana  
*Jay A. Kolbe and John R. Squires*

(contents continued on inside back cover)

# Contents

(continued)

P. 2 of 2

- 1612 Correlation Between Nest and Duckling Survival of Mallards Breeding in Saskatchewan  
*Aaron T. Pearse and Vance G. Lester*
- 1617 Off-Highway Vehicle Trail Impacts on Breeding Songbirds in Northeastern California  
*Daniel C. Burton and Aaron L. Holmes*
- 1621 Biases in Studying the Diet of the Bearded Vulture  
*Antoni Margalida, Santi Mañosa, Joan Bertran, and Diego Garcia*
- 1626 Identifying Predators and Nest Fates of Bobwhites in Southern Texas  
*Michael J. Rader, Trent W. Teinert, Leonard A. Brennan, Fidel Hernández, Nova J. Sibvy, and X. Ben Wu*
- 1631 Multistage, Long-Range Natal Dispersal by a Global Positioning System-Collared Scandinavian Wolf  
*Petter Wabakken, Håkan Sand, Ilpo Kojola, Barbara Zimmermann, Jon M. Arnemo, Hans C. Pedersen, and Olof Liberg*
- 1635 Long-Distance Movement of a White-Tailed Deer Away From a Chronic Wasting Disease Area  
*Anne M. Oyer, Nancy E. Mathews, and Lesa H. Skuldt*
- Techniques and Technology Articles**
- 1639 Aerial Surveys for Estimating Wild Turkey Abundance in the Texas Rolling Plains  
*Matthew J. Butler, Warren B. Ballard, Mark C. Wallace, Stephen J. Demaso, and Brady K. McGee*
- 1646 Road-Based Surveys for Estimating Wild Turkey Density in the Texas Rolling Plains  
*Matthew J. Butler, Warren B. Ballard, Mark C. Wallace, and Stephen J. Demaso*
- 1654 A Rapid Hard-Mast Index From Acorn Presence-Absence Tallies  
*Cathryn H. Greenberg and Gordon S. Warburton*
- 1662 Effects of Radiotransmitter Necklaces on Behaviors of Adult Male Western Burrowing Owls  
*Erica D. Chipman, Nancy E. McIntyre, James D. Ray, Mark C. Wallace, and Clint W. Boal*
- 1669 Utilization Distribution Estimation Using Weighted Kernel Density Estimators  
*John Fieberg*
- 1676 Caffeine Formulation for Avian Repellency  
*Scott J. Werner, John L. Cummings, Shelagh K. Tupper, Jerome C. Hurley, Randal S. Stahl, and Thomas M. Primus*
- 1682 Cameras, Coyotes, and the Assumption of Equal Detectability  
*Eveline Séguin Larrucea, Peter F. Brussard, Michael M. Jaeger, and Reginald H. Barrett*
- Techniques and Technology Notes**
- 1690 Evaluation of Noninvasive Genetic Sampling Methods for Felid and Canid Populations  
*Emily W. Ruell and Kevin R. Crooks*
- 1695 Electric Fencing as a Measure to Reduce Moose-Vehicle Collisions  
*Mathieu Leblond, Christian Dussault, Jean-Pierre Ouellet, Marius Poulin, Rébaume Courtois, and Jacques Fortin*
- 1704 Evaluation of Harmonic Direction-Finding Systems for Detecting Locomotor Activity  
*Valerie L. Boyarski, Gordon H. Rodda, and Julie A. Savidge*
- 1708 A Remotely Operated Motorized Burrow Probe to Investigate Carnivore Neonates  
*Paula A. White, Lawrence G. Frank, and Paul H. Barber*
- 1712 Evaluation of Techniques for Categorizing Group Membership of White-Tailed Deer  
*Kevin L. Monteith, Chad L. Sexton, Jonathan A. Jenks, and R. Terry Bowyer*
- Management and Conservation Articles**
- 1717 Forestry Matters: Decline of Oaks Will Impact Wildlife in Hardwood Forests  
*William J. McSweeney, William M. Healy, Patrick Devers, Todd Fearer, Frank H. Koch, Dean Stauffer, and Jeff Waldon*
- Human Dimensions of Wildlife Management Articles**
- 1729 Collective Action and Social Capital of Wildlife Management Associations  
*Matthew W. Wagner, Urs P. Kreuter, Ronald A. Kaiser, and R. Neal Wilkins*
- 1739 Hunter and Nonhunter Beliefs About Chronic Wasting Disease in Wisconsin  
*Nicole T. Stafford, Mark D. Needham, Jerry J. Vaske, and Jordan Petchenik*
- Book Review**
- 1745 Deer of the Southwest, by Jim Heffelfinger  
*Paul R. Krausman*
- 1746 Erratum

# MINING ENGINEERING

A PUBLICATION OF SME

VOL. 59, NO. 7 JULY 2007

COVER STORY



**CONTENTS —**  
The 2007 SME Membership Directory is bound into the back of this July issue. The directory contains information for all SME members and is a valuable, year-round resource. Also in July: Molybdenum's price has reached record levels. But how long will it last and can producers keep up with demand? Page 27.

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FEATURE ARTICLES

**27**  
**Molybdenum supply forecasting**  
*Rex E. Loesby*

**37**  
**Minnesota mining boasts another boom year**  
*William R. Yernberg*

**41**  
**More than 500,000 attend bauma 2007**

**43**  
**bauma exhibitors display their products**

LATIN AMERICA MINING

**48**  
**Despite political concerns, Latin America is still a mining hot spot**

2007  
SME MEMBERSHIP  
DIRECTORY

**2D**  
**SME directors, divisions and committees**

**5D**  
**SME student chapters**

**6D**  
**SME local section contacts**

**9D**  
**Alphabetical listings of SME members**

**185D**  
**Worldwide geographical listing of SME members**

DEPARTMENTS

- 4** The drift of things
- 6** President's page
- 8** Washington survey
- 10** Industry newswatch
- 53** SME news
- 56** Meetings/short courses
- 57** SME director nominations
- 58** SME division nominations
- 66** Obituaries
- 67** New media
- 68** New products
- 70** Coming events
- 72** Web directory
- 73** Classifieds
- 75** Professional services
- 80** Index of advertisers

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# PAY DIRT

MAGAZINE

*A Voice For Western Mining Since 1938*

**May 2007**

**Cover Story:** Arizona's newest copper mine at Safford **3**

**Mining in the West** **6**

As workers gain skill, Troy mine in growing in production • Sterling completes important tunnel work at Sunshine mine • New Jersey to study feasibility of 5,000-mtpd mill at Murray • Mercator's mill work moving on schedule • Aurelio completes deal on Courtland claims • Azco to move ahead with Summit mine • United Bolero drilling at 2 molybdenum sites • Wharf gets approval to expand gold mine in South Dakota • Galway says drilling at Victorio encouraging • Sutter continues to find gold in California

**Energy** **15**

Uranium spot price breaks \$100 barrier; \$113 by April 30 • Strathmore gets okay to drill at Gas Hills District • Consol, P&M jointly building big new coal mine in Powder River Basin • Ohio plant would burn coal, biowaste, make jet fuel, diesel • Oil-shale experimentation is approved to resume in Utah • Uranium Energy acquiring more claims at Uravan

**Governments and Mining** **19**

Byrd, Rahall condemn gas firm's anti-coal ads • New rules tighten use of ammonium nitrate • Naasz urges technology use in climate rules

**Environment** **20**

PD gets credit on bond for cleanup at Tyrone • China, U.S. question climate-change report • Fort Knox cyanide leak treated right, state says • Arch Coal units win Earth Day awards

**The Business of Mining** **21**

FCX anticipating cash flows of over \$5.3 billion this year • Startup challenges at Phoenix a drag on Newmont earnings • Peabody net slips on costs of Excel; markets growing fast • Trio of factors causes dip at Cameco; 2007 revenue to be up • Silver Wheaton net up 80%, cash flow doubles • CVRD boosts capital budget by \$1 billion • As steelmaker, China's big, but not powerful • Soft conditions in coal hit Arch net; firm remains bullish

Commentary, 2; Ad Index, 6; Mexico, 8; Canada, 9; Peru, 10; Chile, 11; Latin America, 12; World, 13; Western Briefs, 14; Metals, 26; Companies and Markets, 27; Miners in the News, 29; Directory, 30; Low Grade, 32

## On the Cover

During PAY DIRT's visit to Phelps Dodge's new Safford mine, work was progressing on the primary crusher. From here, crushed ore will be delivered to a surge pile, then on the secondary and tertiary crushing. The final result will be agglomerated with sulfuric acid and delivered via overland conveyor to the heap-leach pads.

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# Rangeland Ecology & Management

A Journal of the Society for Range Management

VOLUME 60

NUMBER 4

JULY 2007

Table of Contents

## Research Articles

- 339 **Social Associations and Dominance of Individuals in Small Herds of Cattle**  
*Norman R. Harris, Douglas F. Johnson, Neil K. McDougald, and Melvin R. George*
- 350 **GPS Error in Studies Addressing Animal Movements and Activities**  
*David C. Ganskopp and Dustin D. Johnson*
- 359 **Remote Sensing and the Rancher: Linking Rancher Perception and Remote Sensing**  
*Rex J. Rowley, Kevin P. Price, and Jude H. Kastens*
- 369 **Costs and Losses Imposed on California Ranchers by Yellow Starthistle**  
*Alison J. Eagle, Mark E. Eiswerth, Wayne S. Johnson, Steve E. Schoenig, and G. Cornelis van Kooten*
- 378 **Revegetating Russian Knapweed (*Acroptilon repens*) Infestations Using Morphologically Diverse Species and Seedbed Preparation**  
*Jane M. Mangold, Clare L. Poulsen, and Michael F. Carpinelli*
- 386 **Postfire Invasion Potential of Rush Skeletonweed (*Chondrilla juncea*)**  
*Cecilia Lynn Kinter, Brian A. Meador, Nancy L. Shaw, and Ann L. Hild*
- 395 **A Basis for Relative Growth Rate Differences Between Native and Invasive Forb Seedlings**  
*Jeremy J. James and Rebecca E. Drenovsky*
- 401 **Seed Germination Strategies of *Desmostachya bipinnata*: A Fodder Crop for Saline Soils**  
*Salman Gulzar, M. A. Khan, and Xiaojing Liu*
- 408 **Mapping Mesquite (*Prosopis*) Distribution and Density Using Visual Aerial Surveys**  
*Rieks D. van Klinken, Damian Shepherd, Rob Parr, Todd P. Robinson, and Linda Anderson*
- 417 **The Spatial Patterns of Functional Groups and Successional Direction in a Coastal Dune Community**  
*Rusty A. Feagin and X. Ben Wu*
- 426 **Optimal Sampling Designs for Monitoring Plant Frequency**  
*John S. Heywood and Michael D. DeBacker*

## Forum

- 435 **Grazing Land Reform in New Zealand: Background, Mechanics, and Results**  
*Ann Brower*

## Research Note

- 441 **Toxic Alkaloid Concentrations in *Delphinium nuttallianum*, *Delphinium andersonii*, and *Delphinium geyeri* in the Intermountain Region**  
*Dale R. Gardner and James A. Pfister*

## Technical Note

- 447 **Number of Samples Required for Estimating Herbaceous Biomass**  
*Michio Tsutsumi, Shiro Itano, and Masae Shiyomi*

Front Cover Photograph: New Zealand high country pastoral sheep farming near the town of Wanaka, in Otago, on the South Island. In the land reform process described in this issue, the more productive lower elevation pastoral land is privatized, while the less productive and higher elevation land is converted from grazing lease to park land. Photo by Ann Brower.

# SOIL SCIENCE

An Interdisciplinary Approach to Soils Research

JULY 2007

CONTENTS

Vol. 172 No. 7

- SOLID-STATE FOURIER TRANSFORM INFRARED AND  $^{31}\text{P}$  NUCLEAR MAGNETIC  
RESONANCE SPECTRAL FEATURES OF PHOSPHATE COMPOUNDS . . . . . 501  
*Zhongqi He, C. Wayne Honeycutt, Baoshan Xing, Richard W. McDowell,  
Perry J. Pellechia, and Tiequan Zhang*
- IMPACT OF TREE CLEARING ON SOIL ATTRIBUTES FOR A PASTORAL PROPERTY IN  
CENTRAL QUEENSLAND, AUSTRALIA . . . . . 516  
*Kamaljit Kaur, Rajesh K. Jalota, and David J. Midmore*
- EFFECTS OF TILLAGE ON NORFLURAZON SORPTION, DEGRADATION AND  
MOBILITY IN A MISSISSIPPI DELTA SOIL . . . . . 534  
*L. Gaston, M. Locke, J. McDonald, S. Dodla, L. Liao, L. Putnam, and T. Udeigwe*
- NONEXCHANGEABLE POTASSIUM RELEASE TO  $\text{H}^+$ -SATURATED RESIN AND ITS  
DIFFUSION CHARACTERISTICS IN SOME SOILS OF LESSER HIMALAYAS . . . . . 546  
*Mushtaq Ahmad Wani and Samar C. Datta*
- CHANGES IN ORGANIC CARBON AND PHYSICAL PROPERTIES OF SOIL AGGREGATES  
UNDER FIBER FARMING . . . . . 553  
*Humberto Blanco-Canqui, R. Lal, F. Sartori, and R. O. Miller*
- A CHRONOSEQUENCE OF SOILS AND VEGETATION ON SERPENTINE TERRACES IN  
THE KLAMATH MOUNTAINS, USA . . . . . 565  
*Earl B. Alexander, Colleen C. Ellis, and Raymond Burke*

# SSSAJ

Soil Science Society of America Journal

July–August 2007 • Vol. 71 • No. 4

## Review & Analysis

- 1257–1266 **Glomalin in Ecosystems**  
*Kathleen K. Treseder and Katie M. Turner*

## Soil Physics

- 1095–1104 **Pore Shrinkage Dependency of Inorganic and Organic Soils on Wetting and Drying Cycles**  
*X. Peng, R. Horn, and A. Smucker*
- 1267–1277 **Modeling Competitive Arsenate-Phosphate Retention and Transport in Soils: A Multi-Component Multi-Reaction Approach**  
*Hua Zhang and H. M. Selim*
- 1278–1287 **Accurate Time Domain Reflectometry Measurement of Electrical Conductivity Accounting for Cable Resistance and Recording Time**  
*C.-P. Lin, C.-C. Chung, and S.-H. Tang*

## Soil Physics Note

- 1105–1110 **Estimating the Water Retention Shape Parameter from Sand and Clay Content**  
*Budiman Minasny and Alex B. McBratney*

## Soil Chemistry

- 1111–1118 **On the Use of Hydrofluoric Acid Pretreatment of Soils for Phosphorus-31 Nuclear Magnetic Resonance Analyses**  
*Warwick J. Dougherty, Ronald J. Smernik, and Else K. Bünemann*
- 1119–1127 **Organic Matter in Volcanic Ash Soils under Forest and Páramo along an Ecuadorian Altitudinal Transect**  
*Klaas G. J. Nierop, Femke H. Tonneijck, Boris Jansen, and Jacobus M. Verstraten*
- 1128–1136 **Overestimation of Phosphorus Adsorption Capacity in Reduced Soils: An Artifact of Typical Batch Adsorption Experiments**  
*S. Brand-Klibanski, M. I. Litaor, and M. Shenker*
- 1137–1140 **On the Solubility Constant of Strengite**  
*Mauro Iuliano, Liberato Ciavatta, and Gaetano De Tommaso*
- 1288–1291 **Experimental Validation of Quantitative XANES Analysis for Phosphorus Speciation**  
*Babasola Ajiboye, Olalekan O. Akinremi, and Astrid Jørgensen*
- 1292–1298 **Long-Term Impacts of Wastewater Irrigation on Cuban Soils**  
*A. Rosabal, E. Morillo, T. Undabeytia, C. Maqueda, A. Justo, and Juan F. Herencia*

## Soil Biology & Biochemistry

- 1141–1150 **Soil Mineralogy Affects Conifer Forest Soil Carbon Source Utilization and Microbial Priming**  
*Craig Rasmussen, Randal J. Southard, and William R. Horwath*

- 1299–1305 **Cold Storage and Pretreatment Incubation Effects on Soil Microbial Properties**  
*Yong Bok Lee, Nicola Lorenz, Linda Kincaid Dick, and Richard P. Dick*

## Soil Fertility & Plant Nutrition

- 1306–1313 **Dairy Manure Type, Application Rate, and Frequency Impact Plants and Soils**  
*Zhonghong Wu and J. Mark Powell*

## Pedology

- 1314–1322 **Using the EM38DD Soil Sensor to Delineate Clay Lenses in a Sandy Forest Soil**  
*L. Cockx, M. Van Meirvenne, and B. De Vos*
- 1323–1334 **Soil/Landscape Relationships in a Mesotidal Maine Estuary**  
*L. J. Osher and C. T. Flannagan*

## Pedology Note

- 1335–1342 **Importance of Cryoturbation in Redistributing Organic Carbon in Permafrost-Affected Soils**  
*J. G. Bockheim*

## Soil & Water Management & Conservation

- 1151–1159 **Impact of High-Lignin Fermentation Byproduct on Soils with Contrasting Organic Carbon Content**  
*Jane M.-F. Johnson, Brenton S. Sharratt, Donald C. Reicosky, and Michael Lindstrom*
- 1160–1165 **Cropping Intensity Effects on Physical Properties of a No-till Silt Loam**  
*J. G. Benjamin, M. Mikha, D. C. Nielsen, M. F. Vigil, F. Calderón, and W. B. Henry*
- 1166–1173 **Impacts of Long-Term Wheat Straw Management on Soil Hydraulic Properties under No-Tillage**  
*Humberto Blanco-Canqui and R. Lal*
- 1174–1185 **Simulating Field-Scale Soil Organic Carbon Dynamics Using EPIC**  
*Hector J. Causarano, Joey N. Shaw, Alan J. Franzluebber, D. Wayne Reeves, Randy L. Raper/Kipling, S. Balkcom, M. Lee Norfleet, and R. César Izaurralde*
- 1186–1193 **Reclamation of Abandoned Natural Gas Wellsites with Organic Amendments: Effects on Soil Carbon, Nitrogen, and Phosphorus**  
*Francis Zuomuya, Francis J. Larney, Paul R. DeMaere, and Andrew F. Olson*
- 1194–1203 **Soil Aggregate- and Particle-Associated Organic Carbon under Different Land Uses in Nepal**  
*B. M. Shrestha, B. R. Singh, B. K. Sitaula, R. Lal, and R. M. Bajracharya*

(cont.)

- 1343-1351 **Soil Profile Nitrate Response to Nitrogen Fertilization of Winter Triticale**  
*Carasella D. Nance, Lance R. Gibson, and Douglas L. Karlen*
- 1352-1362 **Inhibiting Water Infiltration into Soils with Cross-linked Polyacrylamide: Seepage Reduction for Irrigated Agriculture**  
*Rodrigo D. Lentz*
- 1363-1370 **Dynamics and Turnover of Soil Organic Matter as Affected by Tillage**  
*Evah W. Murage, Paul R. Voroney, Bev D. Kay, B. Deen, and Ronald P. Beyaert*
- 1371-1380 **Digital Elevation Accuracy and Grid Cell Size: Effects on Estimated Terrain Attributes**  
*Robert H. Erskine, Timothy R. Green, Jorge A. Ramirez, and Lee H. MacDonald*
- 1381-1388 **Cropping Systems Effects on Improving Soil Carbon Stocks of Exposed Subsoil**  
*Mahdi M. Al-Kaisi and Jesse B. Grote*

#### Forest, Range & Wildland Soils

- 1204-1214 **Edaphic Controls on Soil Organic Carbon Retention in the Brazilian Cerrado: Texture and Mineralogy**  
*Yuri L. Zinn, Rattan Lal, Jerry M. Bigham, and Dimas V. S. Resck*
- 1215-1224 **Edaphic Controls on Soil Organic Carbon Retention in the Brazilian Cerrado: Soil Structure**  
*Yuri L. Zinn, Rattan Lal, Jerry M. Bigham, and Dimas V. S. Resck*
- 1389-1397 **Tree Species Effects on Soil Properties in Experimental Plantations in Tropical Moist Forest**  
*A. E. Russell, J. W. Raich, O. J. Valverde-Barrantes, and R. F. Fisher*

#### Nutrient Management & Soil & Plant Analysis

- 1225-1232 **Factors Affecting Change in Soil Test Phosphorus Following Manure and Fertilizer Application**  
*V. R. Haden, Q. M. Ketterings, and J. E. Kahabka*
- 1233-1239 **Evaluation of Some Indices of Potentially Mineralizable Nitrogen in Soil**  
*M. Sharif, B. J. Zebbarh, D. L. Burton, C. A. Grant, and J. M. Cooper*

- 1240-1250 **Manipulating Nitrogen Release from Nitrogen-Rich Crop Residues using Organic Wastes under Field Conditions**  
*Barbara Chaves, Stefano De Neve, Pascal Boeckx, Oswald Van Cleemput, and Georges Hofman*
- 1251-1256 **Relationships between Soybean Yield, Soil pH, and Soil Carbonate Concentration**  
*Natalia P. Rogovska, Alfred M. Blackmer, and Antonio P. Mallarino*
- 1398-1405 **Application of Reflectance Near Infrared Spectroscopy for Animal Slurry Analyses**  
*L. K. Sørensen, P. Sørensen, and T. S. Birkmose*

#### Wetland Soils

- 1406-1417 **Major Biogeochemical Processes in Soils—A Microcosm Incubation from Reducing to Oxidizing Conditions**  
*Kewei Yu, Frank Böhm, Jörg Rinklebe, Heinz-Ulrich Neue, and Ronald D. DeLaune*

#### Urban Soils

- 37-1140 **On the Solubility Constant of Strengite**  
*Mauro Iuliano, Liberato Ciavatta, and Gaetano De Tommaso*

#### Landscape Management

- 1174-1185 **Simulating Field-Scale Soil Organic Carbon Dynamics Using EPIC**  
*Hector J. Causanano, Joey N. Shaw, Alan J. Franzluebbers, D. Wayne Reeves, Randy L. Raper Kipling, S. Balkcom, M. Lee Norfleet, and R. César Izaurralde*

#### Comments & Letters to the Editor

- 1418-1419 **Comments on "Fractal Fragmentation, Soil Porosity, and Soil Water Properties: I. Theory"**  
*A. G. Hunt*

#### Book Reviews

- 1420 **Soil Microbiology, Ecology, and Biochemistry**  
*Reviewed by Christopher W. Sebadi and Aimée T. Classen*
- 1421 **Sampling for Natural Resource Monitoring**  
*Reviewed by Jeffrey E. Herrick*

CONTENTS

**Feature Articles**

Water relations and community composition in three blue fan palm oases across the Californian-Sonoran biome transition. *Ernesto Franco-Vizcaino, Ana Cecilia López-Beltrán, and Mario Salazar-Ceseña* . . . . . 191

Effects of water temperature on growth of the federally endangered Texas wild rice (*Zizania texana*). *Lori R. Tolley-Jordan and Paula Power* . . . . . 201

Vegetative and reproductive phenology of African rue (*Peganum harmala*) in the northern Chihuahuan Desert. *Laurie B. Abbott, Dominika Lepak, and David L. Daniel* . . . . . 209

Variable role of aquatic macroinvertebrates in initial breakdown of seasonal leaf litter inputs to a cold-desert river. *S. Mark Nelson and Douglas C. Andersen* . . . . . 219

Diet of *Chirostoma lucius* (Pisces: Atherinomorpha): seasonal trophic spectrum and ontogeny of piscivory. *Rodrigo Moncayo-Estrada, Carlos Escalera-Gallardo, Carlos López, and Owen T. Lind* . . . . . 229

Comparative growth and consumption potential of rainbow trout and humpback chub in the Colorado River, Grand Canyon, Arizona, under different temperature scenarios. *Craig P. Paukert and James H. Petersen* . . . . . 234

New species of *Parapharyngodon* (Nematoda: Pharyngodonidae) and other helminths in *Petrosaurus repens* and *P. thalassinus* (Squamata: Phrynosomatidae) from Baja California del Sur, Mexico. *Charles R. Bursey and Stephen R. Goldberg* . . . . . 243

Niche segregation within a dune lizard community in Coahuila, Mexico. *Cristina García-De la Peña, Gamaliel Castañeda, Héctor Gadsden, and Armando J. Contreras-Balderas* . . . . . 251

Ecology of the Mexican alpine blotched garter snake (*Thamnophis scutaris*). *Javier Manjarrez, Cristian S. Venegas-Barrera, and Tamara García-Guadarrama* . . . . . 258

Spatial variation in predation attempts on artificial snakes in a fire-disturbed tallgrass prairie. *Dustin J. Wilgers and Eva A. Horne* . . . . . 263

Birds of harvested and unharvested pine-oak forests, Chihuahua, Mexico. *Andrew M. Miller and Carol L. Chambers* . . . . . 271

Endemic and introduced vertebrates in the diet of the barn owl (*Tyto alba*) on two islands in the Gulf of California, Mexico. *Enriqueta Velarde, Rafael Avila-Flores, and Rodrigo A. Medellín* . . . . . 284

Raptor predation on Ord's kangaroo rats: evidence for diurnal activity by a nocturnal rodent. *Clint W. Boal and Matthew D. Giovanni* . . . . . 291

Effects of land use and soil texture on distributions of pocket gophers in Kansas. *Justin D. Hoffman, Jerry R. Choate, and Rob Channell* . . . . . 296

**Notes**

Notes on the pollination biology of *Justicia candicans* (Acanthaceae) in central Sonora, Mexico. *María de los Angeles Quintana-Vásquez* . . . . . 302

Diet of the Mexican marbled toad (*Bufo marmoratus*) in conserved and disturbed tropical dry forest. *Ileri Suazo-Ortuño, Javier Alvarado-Díaz, Elizabeth Raya-Lemus, and Miguel Martínez-Ramos* . . . . . 305

Consumption of large mammals by *Crocodylus moreletii*: field observations of necrophagy and interspecific kleptoparasitism. *Steven G. Platt, Thomas R. Rainwater, Scott Snider, Anthony Garek, Todd A. Anderson, and Scott T. McMurry* . . . . . 310

Food habits of the blunt-nosed leopard lizard (*Gambelia sila*). *David J. Germano, Paul T. Smith, and Stephen P. Tabor* . . . . . 318

Annotated checklist of type specimens in the herpetological collection of the Escuela Nacional de Ciencias Biológicas, I. P. N., Mexico. *José Ismael Campos-Rodríguez and Juan Carlos López-Vidal* . . . . . 323

New record of the rock squirrel (*Spermophilus variegatus*) in the state of Oaxaca, Mexico. *Francisco Botello, Patricia Illoldi-Rangel, Miguel Linaje, and Victor Sánchez-Cordero* . . . . . 326

New distributional records for mammals from Tlaxcala, Mexico. *Jesús A. Fernández, Fernando A. Cervantes, and María del Carmen Corona Vargas* . . . . . 328

Announcements . . . . . 334

Cover: Design by Tomás B. Bravo-Reyes for the 53rd Annual Meeting held in April 2006.

p. 1 of 2

# Western North American Naturalist

Volume 67 No. 1

January 2007

ISSN 1527-0904

## CONTENTS

### Articles

Spatially scaled response of a Lazuli Bunting population to fire .....	Andreas Leidolf, Tim Nuttle, and Michael L. Wolfe	1
Diets of sympatric bobcats and coyotes during years of varying rainfall in central Arizona .. .....	Ted McKinney and Thorry W. Smith	8
Vegetation responses to 35 and 55 years of native ungulate grazing in shrubsteppe communi- ties .....	Echo A. Rexroad, Karen H. Beard, and Andrew Kulmatiski	16
Modeling distributions of rare plants in the Great Basin, western North America .....	M. Aitken, D.W. Roberts, and L.M. Shultz	26
The effect of elevation on the distribution of sibling species in the <i>Simulium arcticum</i> com- plex (Diptera: Simuliidae) .....	Gerald F. Shields, Gregory M. Clausen, Christina S. Marchion, Tracy L. Michel, Kathryn C. Styren, Callie N. Riggitt, Tonya D. Santoro, and Lindee M. Strizich	39
Monitoring with a modified Robel pole on meadows in the central Black Hills of South Dakota .....	Daniel W. Uresk and Ted A. Benzou	46
Survival and sprouting responses of Chihuahuan pine after the Rodeo-Chediski fire on the Mogollon Rim, Arizona .....	Kenneth H. Baumgartner and Peter Z. Fulé	51
Food and habitat relationships of <i>Classenia sabulosa</i> (Plecoptera: Perlidae) in the Upper Colorado River, Colorado .....	Richard A. Thorp, Jeremy B. Monroe, Emily C. Thorp, Todd Wellnitz, and N. LeRoy Poff	57
Vegetation changes after livestock grazing exclusion and shrub control in the southern Chi- huan Desert .....	Ricardo Mata-González, Benjamín Figueroa-Sandoval, Fernando Clemente, and Mario Manzano	63
A comparison of mosquito consumption and prey selection between least chub ( <i>Iotichthys phlegethontis</i> ) and western mosquitofish ( <i>Gambusia affinis</i> ) .....	Eric J. Billman, Eric J. Wagner, and Ronney E. Arndt	71
Winter survival of Northern Pintails in the Middle Rio Grande Valley, New Mexico .....	Colin K. Lee, John P. Taylor, David A. Haukos, and Mark C. Andersen	79
Characteristics of Columbia spotted frog ( <i>Rana luteiventris</i> ) oviposition sites in northeastern Oregon, USA .....	Christopher A. Pearl, Michael J. Adams, and Wendy H. Wente	86
Aspen and conifer heterogeneity effects on bird diversity in the northern Yellowstone ecosystem .....	Jeff P. Hollenbeck and William J. Ripple	92
Dispersal and extraterritorial movements of swift foxes ( <i>Vulpes velox</i> ) in northwestern Texas .....	Kerry L. Nicholson, Warren B. Ballard, Brady K. McGee, and Heather A. Whitlaw	102

(continued on page 160)

# Western North American Naturalist

Vol. 67, no. 1 (January 2007)

## CONTENTS

p. 2 of 2

(Continued from back cover)

### Articles (continued)

- Potential contribution of respiration by *Anabrus simplex* (Mormon crickets) to net CO<sub>2</sub> exchange in three Great Basin ecosystems. . . . . A. Joshua Leffler, Michael S. Peek, Larry Higgs, Sasha Ivans, Ronald J. Ryel, and Martyn M. Caldwell 109
- Forest-floor treatments in Arizona ponderosa pine restoration ecosystems: no short-term effects on plant communities. . . . . Scott R. Abella and W. Wallace Covington 120

### Notes

- Evaluation of radio-transmitters on juvenile rabbits: application to the semifossorial pygmy rabbit (*Brachylagus idahoensis*). . . . . Wendy A. Estes-Zumpf and Janet L. Rachlow 133
- Sex and the lonely *Atriplex* . . . . . D. Carl Freeman, E. Durant McArthur, Kathleen J. Miglia, Michelle J. Nilson, and Michelle L. Brown 137
- Genetic analysis of a recently discovered population of the least chub (*Totichthys phlegethontis*) . . . . . Karen E. Mock and Lee S. Bjerregaard 142
- Anthropogenic threat to the desert tortoise (*Gopherus agassizii*): litter in the Mojave Desert . . . . . Andrew D. Walde, Meagan L. Harless, David K. Delaney, and Larry L. Pater 147
- Noteworthy record of the tayra (Carnivora: Mustelidae: *Eira barbara*) in the Sierra Gorda Biosphere Reserve, Querétaro, México. . . . . Carlos A. López González and Daniel R. Aceves Lara 150
- Grit size preferences and confirmation of ingested lead pellets in Chukars (*Alectoris chukar*) . . . . . Randy T. Larsen, Jerran T. Flinders, Dean L. Mitchell, and Ernest R. Perkins 152

### Book Reviews

- Tongass: Pulp Politics and the Fight for the Alaska Rain Forest *by Kathie Durbin*. . . . . Clayton M. White 156
- "A Region of Astonishing Beauty": The Botanical Exploration of the Rocky Mountains *by Roger L. Williams* . . . . . Don G. Despain 158

# Western North American Naturalist

Volume 67 No. 2

April 2007

ISSN 1527-0904

## CONTENTS

### Articles

- Zoogeographic patterns and faunal change of South Dakota fishes ..... Christopher W. Hoagstrom, Steven S. Wall, Jason C. Kral, Brian G. Blackwell, and Charles R. Berry, Jr. 161
- Food web structure, energetics, and importance of allochthonous carbon in a desert cavernous limnocene: Devils Hole, Nevada ..... Kevin P. Wilson and Dean W. Blinn 185
- Trend analysis shows decline of an endangered thermophilic springsnail (*Pyrgulopsis brunoculensis*) in southwestern Idaho ..... Cary D. Myler, Greg C. Mladenka, and G. Wayne Minshall 199
- Effects of exotic grasses on soil seed banks in southeastern Arizona grasslands ..... Steven P. McLaughlin and Janice E. Bowers 206
- Salvage logging and replanting reduce understory cover and richness compared to unsalvaged-unplanted sites at Mount St. Helens, Washington ..... J.H. Titus and E. Householder 219
- Breeding biology and flower visitors of the rare White River penstemon, *Penstemon scariosus* var. *albiflorus* (Scrophulariaceae) ..... Jennifer S. Lewinsohn and Vincent J. Tepedino 232
- Review of the harvest mice (genus *Reithrodontomys*) in the Mexican state of México ..... Noé González-Ruiz, José Ramírez-Palido, and Hugh H. Genoways 238
- Yellow pine chipmunks cannot climb quaking aspens: implications for avian nest site selection ..... T. Will Richardson and Stephen B. Vander Wall 251
- Distribution of the milliped genus *Apheloria* Chamberlin, 1921; summaries of peripheral localities and ones of *A. virginienensis* (Drury, 1770) west of the Mississippi River (Polydesmida: Xystodesmidae) ..... Rowland M. Shelley and Chris T. McAllister 258
- Use of agricultural lands by San Joaquin kit foxes ..... Gregory D. Warrick, Howard O. Clark, Jr., Patrick A. Kelly, Daniel F. Williams, and Brian L. Cypher 270
- Winter habitat selection patterns of Merriam's turkeys in the southern Black Hills, South Dakota ..... Chad P. Lehman, Mark A. Rumble, and Lester D. Flake 278
- Short-term effects of a prescribed burn on songbirds and vegetation in mountain big sagebrush ..... Aaron L. Holmes 292
- Effects of prescribed fall burning on a wetland plant community with implications for management of plants and herbivores ..... Scott R. McWilliams, Todd Sloat, Catherine A. Toft, and Daphne Hatch 299
- Note**
- Absence of metathoracic wings and corrections to the description of *Chaetocnema labiosa* White, 1996 (Coleoptera: Chrysomelidae) ..... Shawn M. Clark and Robert L. Johnson 318
- Book Review**
- Birds of Western Colorado Plateau and Mesa Country ..... by Robert Riegler, Rick Levad, Coen Dexter, and Kim Potter ..... Bryan T. Brown 322

The online article is the official version and may contain additional content not available in this print issue. To access the full article, including multimedia, enhanced figures, auxiliary materials, and other nonprinted content, go to <http://www.wagur.org/journals/wrr>.

### Opinions

p. 1 of 3

- W06301** *G. A. Hewa, Q. J. Wang, T. A. McMahon, R. J. Nathan, and M. C. Peel*  
Generalized extreme value distribution fitted by LH moments for low-flow frequency analysis  
(DOI 10.1029/2006WR004913)

### Regular Articles

- W06401** *Gabriëlle J. M. De Lannoy, Paul R. Houser, Valentijn R. N. Pauwels, and Niko E. C. Verhoest*  
State and bias estimation for soil moisture profiles by an ensemble Kalman filter: Effect of assimilation depth and frequency (DOI 10.1029/2006WR005100)
- W06402** *James D. Brown, Tom Spencer, and Iris Moeller*  
Modeling storm surge flooding of an urban area with particular reference to modeling uncertainties: A case study of Canvey Island, United Kingdom (DOI 10.1029/2005WR004597)
- W06403** *Andreas G. Yiotts, Ioannis N. Tsimpanogiannis, Athanassios K. Stubos, and Yannis C. Yortsos*  
Coupling between external and internal mass transfer during drying of a porous medium  
(DOI 10.1029/2006WR005558)
- W06404** *G. Botter, A. Porporato, E. Daly, I. Rodriguez-Iturbe, and A. Rinaldo*  
Probabilistic characterization of base flows in river basins: Roles of soil, vegetation, and geomorphology  
(DOI 10.1029/2006WR005397)
- W06405** *M. Oefls and F. Obietmer*  
Numerical simulations on artificial reduction of snow and ice ablation (DOI 10.1029/2006WR005065)
- W06406** *Jaraj Parajka, Günter Blöschl, and Ralf Merz*  
Regional calibration of catchment models: Potential for ungauged catchments (DOI 10.1029/2006WR005271)
- W06407** *D. B. G. Collins and R. L. Bras*  
Plant rooting strategies in water-limited ecosystems (DOI 10.1029/2006WR005541)
- W06408** *Sarah M. Dunn, Jeffrey J. McDonnell, and Kellie B. Vaché*  
Factors influencing the residence time of catchment waters: A virtual experiment approach  
(DOI 10.1029/2006WR005393)
- W06409** *Mazdak Arabi, Rao S. Govindaraju, Bernie Engel, and Mohamed Hantush*  
Multiobjective sensitivity analysis of sediment and nitrogen processes with a watershed model  
(DOI 10.1029/2006WR005463)
- W06410** *Shih-Chieh Kao and Rao S. Govindaraju*  
Probabilistic structure of storm surface runoff considering the dependence between average intensity and storm duration of rainfall events (DOI 10.1029/2006WR005564)
- W06411** *F. Borgogno, P. D'Odorico, F. Laio, and L. Ridolfi*  
Effect of rainfall interannual variability on the stability and resilience of dryland plant ecosystems  
(DOI 10.1029/2006WR005314)

(continued on inside back cover)

# Water Resources Research

Vol. 43, no. 6 (June 2007)

(continued from outside back cover)

p. 2 of 3

- W06412** *S. Gruber*  
A mass-conserving fast algorithm to parameterize gravitational transport and deposition using digital elevation models (DOI 10.1029/2006WR004868)
- W06413** *Fredrik Huthoff, Deniz C. M. Augustijn, and Suzanne J. M. Hulscher*  
Analytical solution of the depth-averaged flow velocity in case of submerged rigid cylindrical vegetation (DOI 10.1029/2006WR005625)
- W06414** *Dionysia Hatzilacou, Giorgos Kallits, Alexandra Mexa, Harris Coccosis, and Elemt Svoronou*  
Scenario workshops: A useful method for participatory water resources planning? (DOI 10.1029/2006WR004878)
- W06415** *Y. Tang, P. Reed, K. van Werkhoven, and T. Wagener*  
Advancing the identification and evaluation of distributed rainfall-runoff models using global sensitivity analysis (DOI 10.1029/2006WR005813)
- W06416** *Shirley A. Kure and Eric E. Small*  
Soil moisture variations and ecosystem-scale fluxes of water and carbon in semiarid grassland and shrubland (DOI 10.1029/2006WR005011)
- W06417** *N. M. Neykov, P. N. Neychev, P. H. A. J. M. Van Gelder, and V. K. Todorov*  
Robust detection of discordant sites in regional frequency analysis (DOI 10.1029/2006WR005322)
- W06418** *Brendan A. Zinn and Leonard F. Konikow*  
Potential effects of regional pumpage on groundwater age distribution (DOI 10.1029/2006WR004865)
- W06419** *Klaartje Vandersypen, Abdoulaye C. T. Keita, Y. Coulibaly, D. Rues, and J. Y. Jamin*  
Formal and informal decision making on water management at the village level: A case study from the Office du Niger irrigation scheme (Mali) (DOI 10.1029/2006WR005132)
- W06420** *Kevin Petrone, Ishi Buffam, and Hjalmar Laudon*  
Hydrologic and biotic control of nitrogen export during snowmelt: A combined conservative and reactive tracer approach (DOI 10.1029/2006WR005286)
- W06421** *Tingju Zhu, Jay R. Lund, Marion W. Jenkins, Guilherme F. Marques, and Randall S. Ritzema*  
Climate change, urbanization, and optimal long-term floodplain protection (DOI 10.1029/2004WR003516)
- W06422** *Martine M. Savard, Daniel Paradis, George Somers, Shawna Liao, and Eric van Bochove*  
Winter nitrification contributes to excess NO<sub>3</sub><sup>-</sup> in groundwater of an agricultural region: A dual-isotope study (DOI 10.1029/2006WR005469)
- W06423** *Bridget R. Scanlon, Robert C. Reedy, and J. Andrew Tachovsky*  
Semiarid unsaturated zone chloride profiles: Archives of past land use change impacts on water resources in the southern High Plains, United States (DOI 10.1029/2006WR005769)
- W06425** *A. Tilmant and R. Kelman*  
A stochastic approach to analyze trade-offs and risks associated with large-scale water resources systems (DOI 10.1029/2006WR005094)
- W06426** *M. A. Newring, M. H. Nichols, J. J. Stone, K. G. Renard, and J. R. Simanton*  
Sediment yields from unit-source semiarid watersheds at Walnut Gulch (DOI 10.1029/2006WR005692)
- W06427** *Alon F. Hamiet and Dennis P. Lettenmaier*  
Effects of 20th century warming and climate variability on flood risk in the western U.S. (DOI 10.1029/2006WR005099)
- W06428** *Nicolas Le Moine, Vazken Andréassian, Charles Perrin, and Claude Michel*  
How can rainfall-runoff models handle intercatchment groundwater flows? Theoretical study based on 1040 French catchments (DOI 10.1029/2006WR005608)
- W06429** *Seth Westra, Casey Brown, Upmanu Lall, and Ashish Sharma*  
Modeling multivariable hydrological series: Principal component analysis or independent component analysis? (DOI 10.1029/2006WR005617)
- W06430** *S. A. Mathias and A. P. Butler*  
Shape factors for constant-head double-packer permeameters (DOI 10.1029/2006WR005279)

(continued on facing page)

# Water Resources Research

## Vol. 43, no. 6 (June 2007)

(continued from inside back cover)

p. 3 of 3

- W06431** *Matthew P. Tymchak and Raymond Torres*  
Effects of variable rainfall intensity on the unsaturated zone response of a forested sandy hillslope  
(DOI 10.1029/2005WR004584)
- W06432** *R. B. Manners, M. W. Doyle, and M. J. Small*  
Structure and hydraulics of natural woody debris jams (DOI 10.1029/2006WR004910)
- W06433** *Jenq-Tzong Shiau and Fu-Chun Wu*  
Pareto-optimal solutions for environmental flow schemes incorporating the intra-annual and interannual variability of the natural flow regime (DOI 10.1029/2006WR005523)
- W06434** *Xiaohua Gou, Fahu Chen, Edward Cook, Gordon Jacoby, Meixue Yang, and Jinbao Li*  
Streamflow variations of the Yellow River over the past 593 years in western China reconstructed from tree rings  
(DOI 10.1029/2006WR005705)
- W06435** *Tian-Chyi J. Yeh and Junfeng Zhu*  
Hydraulic/partitioning tracer tomography for characterization of dense nonaqueous phase liquid source zones  
(DOI 10.1029/2006WR004877)
- W06436** *K. Betty Li, Pierre Goovaerts, and Linda M. Abriola*  
A geostatistical approach for quantification of contaminant mass discharge uncertainty using multilevel sampler measurements (DOI 10.1029/2006WR005427)

### Technical Notes

- W06501** *J. H. Knight and D. W. Rassam*  
Groundwater head responses due to random stream stage fluctuations using basis splines  
(DOI 10.1029/2006WR005155)
- W06502** *Hund-Der Yeh and Chih-Tse Wang*  
Large-time solutions for groundwater flow problems using the relationship of small  $p$  versus large  $t$   
(DOI 10.1029/2006WR005472)

### Commentaries

- W06601** *Saralees Nadarajah*  
Comment on "Riparian vegetation distribution induced by river flow variability: A stochastic approach" by C. Camporeale and L. Ridolfi (DOI 10.1029/2007WR006006)
- W06602** *C. Camporeale and L. Ridolfi*  
Reply to comment by S. Nadarajah on "Riparian vegetation distribution induced by river flow variability: A stochastic approach" (DOI 10.1029/2007WR006144)

### Corrections

- W06701** *Lisa C. Sieck, Stephen J. Burges, and Matthias Steiner*  
Correction to "Challenges in obtaining reliable measurements of point rainfall" (DOI 10.1029/2007WR005985)

The Author Index appears at the end of the issue.