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ENVIRONMENTAL Science & Technology

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Perfluorinated Acids *in* **ARCTIC SNOW**

Pesticides in U.S. Streams
and Groundwater

Coal Investment Decisions
under Uncertain Carbon
Legislation

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News and features

NEWS

3394 Snow shows perfluorochemical source

Perfluorochemical concentrations in Arctic snow point to an atmospheric source.

3395 New Jersey dives into PFOA water guidance

New Jersey's new PFOA guidance is the toughest yet for drinking water.

3395-3399 News Briefs

Montreal beats Kyoto on climate controls • Bigger fish to fry? • Asian pollution strengthens storms • New aerosol source • Snapping fluorocarbon superbonds • Stopping and surviving climate change

3396 Pricing tomorrow's coal-fired power plant

New research explores the gap between what the public wants and what power companies seek in a new power plant.

3397 Bush expands influence over regulations

Scientific assessments by environmental agencies could be delayed.

3398 Sharing sustainable solutions

Knowledge from developing countries should be incorporated into global discussions on sustainable development.

3399 A potential new *Crypto* source

Migratory birds could be a source of *Cryptosporidium* in drinking water.

3400 Aerosolized contaminants from biosolids

Researchers have developed an indirect way to estimate pathogen concentrations in biosolid aerosols.

3401 A heavy-metal history in Peru

A millennium of metallurgy is recorded in Peruvian lake sediments.

PERSPECTIVE

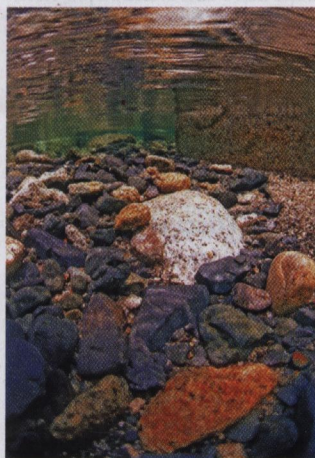
3403 Drugs, Pesticides, and Politics—A Potent Mix in Colombia

Naomi Lubick

Planes fly over Colombian coca fields on a regular basis, spraying the herbicide glyphosate to eradicate the illegal crops. But concerns over the environmental and human-health impacts of the pesticide have reopened the debate on the toxicity of glyphosate. Lubick investigates the scientific uncertainties and political disputes involved in getting rid of coca.

Cover: The sun, high in the sky at 11 p.m., shows a lead in the sea ice ~2 km southeast of Resolute Bay on Cornwallis Island in the Canadian Arctic. Photo taken by Klaus Gantner, University of Guelph/Environment Canada.

FEATURE



3408 Pesticides in U.S.

Streams and Groundwater

Robert J. Gilliom

A 10-year study by the U.S. Geological Survey's National Water-Quality Assessment (NAWQA) Program provides a national-scale view of pesticide occurrence in streams and groundwater. Gilliom summarizes selected findings from the study, with a focus on the nature of pesticide occurrence and potential significance to human health and stream ecosystems.

Research

POLICY ANALYSIS

3415

► Integrating Developed and Developing World Knowledge into Global Discussions and Strategies for Sustainability. 1. Science and Technology

James R. Mihelcic, Julie B. Zimmerman, and Anu Ramaswami

Knowledge on science and technology originating in developing countries is shown to assist sustainable development.

3422

► Integrating Developed and Developing World Knowledge into Global Discussions and Strategies for Sustainability. 2. Economics and Governance

Anu Ramaswami, Julie B. Zimmerman, and James R. Mihelcic

Knowledge originating in developing countries is shown to assist sustainable development; economics and governance are addressed.

■ 3431

► Baseload Coal Investment Decisions under Uncertain Carbon Legislation

Joule A. Bergerson and Lester B. Lave

The least-cost technology for a coal-fired electricity generator is explored; uncertainty about the date and stringency of carbon and air-pollutant emissions constraints is considered.

■ Supporting information is available free at <http://pubs.acs.org/est>.
► This issue contains a news story about this research.

Online news: Read news first at <http://pubs.acs.org/estnews>.