FEATURE ARTICLE 56
Polly Arnold: The “Pac-Man” molecule and its potential link to nuclear waste cleanup
INTERVIEW BY RICK MICHAL

PERSPECTIVE 34
Nuclear energy: Not a Faustian bargain, but a near-perfect providential gift
BY THEODORE ROCKWELL

QUOTING AT RANDOM 12
Energy Secretary Bodman: New nuclear is a must

POWER 15
COL applications submitted for River Bend-3, Nine Mile Point-3. NRC docketing Levy COL application, begins review of Callaway application. NRC denies petition to suspend license renewals. Loan guarantees sought for 21 new reactors. NRC inspection at Vermont Yankee identifies three minor violations. Opinion poll compares current public attitudes toward new nuclear power with those in 1970s. Maximizing the Assets: A status report on license renewal and power uprates. NEI study finds federal incentives for nuclear trail those for fossil fuels. Focus on Finance. NRC conducts special inspections at Monticello, Cook plants. NRC pilots four-phase safety review process with Summer-2 and -3 COL application. NPPD submits license renewal application for Cooper.

SECURITY 39
NNSA’s plan for transforming weapons complex reflects 21st century realities. New nuclear detection technology developed at Idaho National Laboratory. NRC assumes authority over certain radioactive materials. Savannah River Site looking for new security contractor. NRC proposes fine for rules violation at radiography facility. NRC seeks comments on draft enforcement policy.

INTERNATIONAL 44
U.S. passes law to open nuclear energy commerce with India. Areva signs two new agreements with China Guangdong Nuclear Power Group. U.K.’s Nuclear Decommissioning Authority to sell three potential new-build sites. WNU’s Summer Institute to settle at Oxford. Areva and Jordan enter into uranium exploration agreement. IAEA report outlines revised safety criteria for small and medium-sized reactors. World Nuclear Association presents 2008 awards. BR3 chimney at Belgium’s SCK•CEN dismantled.
**WASTE MANAGEMENT**

EPA issues radiation standard for Yucca Mountain repository. Monitoring wells installed at Hanford Site to study groundwater plumes. Idaho cleanup agreement is an economic boon. Organizations oppose federal funding for spent fuel reprocessing. Savannah River Site fulfills uranium contract with TVA.

**MEETINGS**

12th International High-Level Radioactive Waste Management Conference

52nd IAEA General Conference: IAEA at critical crossroads

IAEA Scientific Forum: The future of the IAEA

News out of the IAEA General Conference: World Institute for Nuclear Security launched; IAEA inaugurates International Seismic Safety Center; Iran’s representative to IAEA responds to allegations.

**INDUSTRY**

Barnhart Northeast buys Marino Crane; other business developments. SGT to replace steam generators, vessel head at Waterford; other contracts.

**FUEL**

Areva seeks DOE loan guarantee for uranium enrichment facility. USEC contracts with Fluor for work on American Centrifuge Plant. Cameco’s Port Hope UF6 facility restarted; other news. Fisher-Watt to purchase Tournigan USA.

**RESEARCH**

“Big Bang” beam line starts up at Spallation Neutron Source.

**EDUCATION, TRAINING & WORKFORCE**

Report lists economic benefits of new nuclear build program. Two university research reactors converted to LEU. South Carolina State University’s nuclear engineering program receives ABET accreditation. STP Nuclear Operating Company provides nuclear education incentives for 60 students.

**STANDARDS**

New standard available, another approved.