Editorial Staff

PUBLISHER Jon Payne

EDITOR-IN-CHIEF Gregg M. Taylor INTERNATIONAL EDITOR Simon Rippon SENIOR EDITOR Elizabeth S. Tompkins

SENIOR ASSOCIATE EDITOR Richard A. Michal

> ASSOCIATE EDITOR Patrick Sinco

ASSISTANT EDITOR Susan E. Bailey

PRODUCTION EDITOR Susan E. Bailey DESKTOP EDITOR Chris Salvato CONTRIBUTING COLUMNIST Bill Minkler

Business

ADVERTISING SALES MANAGER Jeffery R. Mosses

ADVERTISING ASSISTANT Patricia Fairchild

CIRCULATION/READER SERVICE COORDINATOR Bess Weglarz

PROCUREMENT SUPERVISOR Wayne Witek

Editorial Advisory Committee

Ramon Ashley, Sam K. Bhattacharyya, Annick Carnino, Joyce Davis, Doug Stickney, Roger Tilbrook, and Paul Turinsky

ANS Headquarters

GENERAL NUMBER 708/352-6611 Facsimile 708/352-0499 Web site <http://www.ans.org>

NUCLEAR NEWS ADVERTISING 708/579-8226 Facsimile 708/352-6464

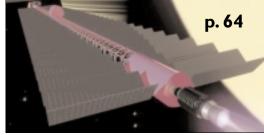
NUCLEAR NEWS EDITORIAL 708/579-8257 Facsimile 708/352-6464 e-mail <nucnews@ans.org>

INTERNATIONAL EDITOR (SIMON RIPPON) 011-44-181-789-2159 e-mail <70734.166@compuserve.com>

Nuclear New Volume 42, Number 8

July 1999







REVIEW BY GAIL H. MARCUS

FEATURE ARTICLES

Doroshuk: On license renewal at Calvert Cliffs Captain Kadak	INTERVIEW BY RICK MICHAL PROFILE BY PATRICK SINCO	24 34		
What happened on the way to the laundry? BY ROBIN BECK, KEVIN SCHWANFELDER, THADDEUS SZE, AND JAY SHELTON				
LIST OF SCHEDULED OUTAGES				

AT U.S. NUCLEAR POWER PLANTS

BOOK REVIEWS

Lise Meitner and the Dawn of the Nuclear Age, by Patricia Rife Basic Health Physics: Problems and Solutions,

by Joseph John Bevelacqua REVIEW BY RONALD L. KATHREN The Angry Genie: One Man's Walk through the Nuclear Age,

by Karl Z. Morgan and Ken M. Peterson REVIEW BY JOYCE P. DAVIS

POWER

Entergy and TXU share Top Industry Practice grand prize award. Carolina Power and Light making plans to apply for Robinson-2 license renewal. License renewal for Duke Power's Oconee plant moving along. AP600 PWR design nears NRC certification. NRC completes review of DOE's tritium document. NRC withdraws fine on Waterford-3. ACRS candidates urged to apply for vacancies. Bomb threat closes NRC headquarters for a day. Seabrook nuclear power plant not for sale.

OPERATIONS

The Nuclear News interview-Doroshuk: On license renewal at Calvert Cliffs. (See also Meeting Notice, pp. 89-91, for the Ninth International Meeting on Nuclear Reactor Thermal-Hydraulics (NURETH-9), October 3-8, 1999, San Francisco, Calif.)

INTERNATIONAL

Children of nuclear workers in United Kingdom not at risk. Friends of the Earth claims "secret negotiations" between BNFL and U.S. nuclear utilities. France's Civaux-1 ready for reconnection to grid. Greenpeace again turning attention to La Hague. Completion of Juragua, in Cuba, once again under consideration. Japan and Russia agree to cooperate on ex-weapons Pu/MOX for fast reactors. Level 2 incident at Sweden's Barsebäck-2 kept from becoming level 3. No smoking guns at Kumchang-ri in North Korea. Adamov survives fourth change of government in Russia. The Netherlands' reprocessing policy reaffirmed in study. IAEA meeting concludes that MOX use is mature. International Comment: Thinking about the unthinkable.

24

50

19

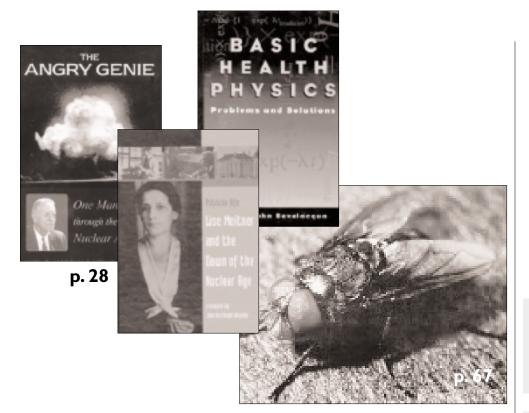
28

28

29

32

12



WASTE MANAGEMENT

Nebraska withdraws from low-level waste compact. NSP files appeal for reinstatement of lawsuit against DOE. Finland nominates preferred repository site. Store waste underground, but keep it retrievable, concludes U.K. public meeting. INEEL contract goes to Bechtel team; other news. Up, out, and away: an update of Big Rock Point decommissioning activities.

SPACE APPLICATIONS

NASA says spacecraft of the future may be fueled by nuclear science.

ISOTOPES AND RADIATION

Gamma rays help rid Central America of pest. High doses of radiation can treat aggressive cancer.

RESEARCH

NERI project funding gives hope to industry.

INDUSTRY

Commodore, Global agree to merge; other news. USEC Inc. gets Japanese fuel contracts; other deals.

APPLICATIONS

ANO-2's ISI program decreases piping weld inspections by 70 percent.

STANDARDS

Newly published standards available from ANS.

DEPARTMENTS

Advertising Index/FAXLink	77	10	Letters
ANS Membership Application	87	85	Literature from Suppliers
Backscatter	92	80	People
Calendar	5	76a	Reader Service Cards
Employment	86	9	Recently Published
Equipment & Services	82	4	Setpoint
International Comment	56	9	Short Courses and Seminars
Late News in Brief	17	84	Software/Data Bases Available

ANS Officers

PRESIDENT Andrew C. Kadak VICE PRESIDENT/PRESIDENT-ELECT James A. Lake TREASURER Denis E. O'Brien

CHAIRMAN, ANS PUBLICATIONS STEERING COMMITTEE Robert W. Hess

Administrative

EXECUTIVE DIRECTOR Harry Bradley

On the cover

New ANS President Andy Kadak holds a fuel pebble. He is spearheading a project to design a pebble bed reactor plant, which he hopes will be built in the U.S.

Coming up ...

August— Fifth Annual Vendor/ Contractor Profile Issue

October— Special Section on Nuclear Power Plant Maintenance



59

64

67

70

73

78

79

Nuclear News (ISSN: 0029-5574) is published monthly (except during the month of March when issued twice monthly) by the American Nuclear Society, Incorporated, with business, executive, and editorial offices at 555 N. Kensington Ave., La Grange Park, Illinois 60526; telephone 708/352-6611. Subscription rate is \$230 for 1999; overseas subscribers add \$51 per year for postage and handling. Single copy price is \$19; \$8 additional for overseas postage and handling (excent for the Buy-

postage and handling (except for the Buyers Guide issue, which is \$78; \$10 additional for overseas postage and handling). Individual ANS members receive *NI*Vas part of membership (up to \$44 of dues allocated to *NI*V). Replacement copies may be obtained at the single copy price, as long as copies are available. Inquiries about the distribution and delivery of *Nuclear News* and requests for changes of address should be directed to the American Nuclear Society. Allow six weeks for a change to become effective. POSTMASTER: Send change of address orders to *Nuclear News*, American Nuclear Society, 555 N. Kensington Ave., La Grange Park, Illinois 60526, or <nucnews@ans.org>.

Nuclear News is printed in New Richmond, Wis. 54017, by St. Croix Press, Inc. Nonprofit periodicals postage paid at La Grange, Illinois, and at additional mailing offices. Copyright © 1999 by the American Nuclear Society, Inc. Trademark registered in USA and Canada.

Opinions expressed in this publication by the authors are their own and do not necessarily reflect the opinions of the editors, the American Nuclear Society, or the organizations with which the authors are affiliated, nor should publication of author viewpoints or identification of materials or products be construed as endorsement by this publication or by the Society.

Texts of most *Nuclear News* articles are available on the NEXIS data base, from Mead Data Corporation.

3