

Editorial Staff

PUBLISHER
Jon Payne

EDITOR-IN-CHIEF
Gregg M. Taylor

INTERNATIONAL EDITOR
Dick Kovan

SENIOR EDITOR
Elizabeth S. Tompkins

SENIOR ASSOCIATE EDITOR
Richard A. Michal

ASSOCIATE EDITOR
Patrick Sinco

ACTING PRODUCTION EDITOR
Elizabeth S. Tompkins

DESKTOP EDITOR
Chris Salvato

EDITORIAL ASSISTANT
Nancy Slove

CONTRIBUTING COLUMNIST
Bill Minkler

Advertising Staff

SALES MANAGER
Jeffery R. Mosses

ADVERTISING/PRODUCTION ASSISTANT
Patricia Fairchild

CIRCULATION ASSISTANT
Bess Weglarz

Editorial Advisory Committee

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

ANS Headquarters

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

NUCLEAR NEWS ADVERTISING
708/579-8226, 800/NUC-NEWS
Facsimile 708/352-6464
Web site <www.ans.org/advertising>
e-mail <advertising@ans.org>

NUCLEAR NEWS EDITORIAL
708/579-8245
Facsimile 708/352-6464
e-mail <nucnews@ans.org>

INTERNATIONAL EDITOR
(DICK KOVAN)
011-44-1737-842687
e-mail <100444.3711@compuserve.com>

Nuclear News

June 2001

Volume 44, Number 7



SPECIAL SECTION: HEALTH PHYSICS 47

Why the NRC bases its regulations on the linear no-threshold theory

BY GRETA JOY DICUS 48

Probability of Causation: Its use in compensation schemes

BY RICHARD WILSON 52

UNSCEAR: The work to come

BY GAMINI SENEVIRATNE 58

FEATURE ARTICLE

The creation and beyond: Evolutions in U.S. nuclear power development

BY JOHN M. WEST AND W. KENNETH DAVIS 30

BOOK REVIEW 44

*Nuclear Energy: An Introduction to the Concepts, Systems, and Applications
of Nuclear Processes*, by Raymond L. Murray

review by Rudolph Sher

POWER 21

Annual address: NRC's Meserve looks at agency going forward. House members question NRC's readiness to handle licensing activities. Abandoned WNP-1 site may see new activity. Fossil plant to go where nuclear was planned, at Bellefonte. Sites for new nuclear plant construction on horizon for Entergy Nuclear. Exelon prepares for U.S. intro of new PBMR reactor. Inspection team finds flaws at Con Ed's Indian Point-2 plant. Consumers Energy's Palisades plant moves to NMC. Report: Big utilities soon to control most nuclear power plant ownership. New business group calls for national energy policy. Task force report: Independent energy policy study endorses nuclear. New rules proposed for NRC hearings.

INTERNATIONAL 61

India's fast reactor program advances toward liftoff. Status of world nuclear generation. German spent fuel arrives at Sellafield . . . and at La Hague, in France, for reprocessing. Chashma inauguration a high-powered sendoff in Pakistan. Japan's Tepco delays MOX loading in two reactors. Agreement reached for SNR-300 MOX fuel in Germany.

RESEARCH 67

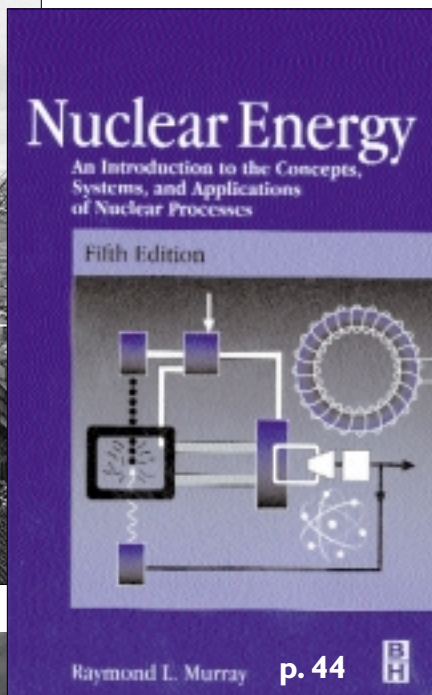
NERAC comments on nuclear engineering goals, school reactors. TRIGA Mark II reactor at Cornell University to be phased out. Ontario Power Generation to aid nuclear engineering. FFTF shutdown decision reopened once again. Panel: A strong NRC Office of Nuclear Regulatory Research ensures a sound technical base.

FUEL 73

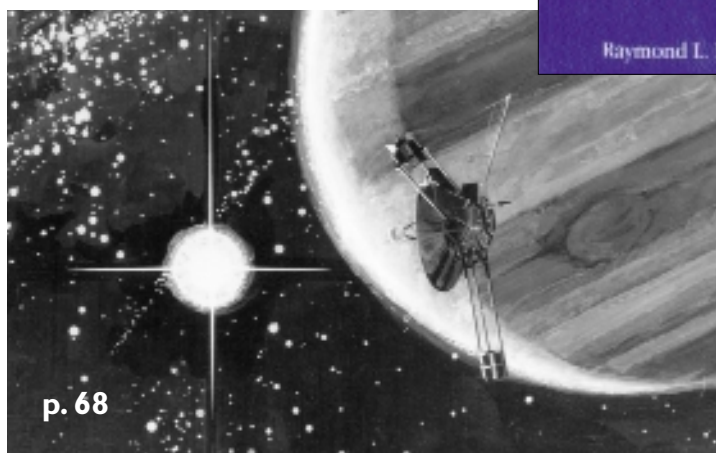
DOC ruling: European enrichers unfairly subsidized. Congressman questions DOE's no-bid contract with USEC. USEC licenses uranium transport container manufacturer.



p. 22



p. 44



p. 68

ISOTOPES & RADIATION

79

FDA gives approval for pet food to be treated with irradiation. NRC won't rescind rule, draws ire of ACNP, SNM.

WASTE MANAGEMENT

80

Integrity of Yucca Mountain evaluation not compromised, says IG. DOE releases *Yucca Mountain Science & Engineering Report*. Goshutes, PFS file complaint against Utah. Regulations changed for HLW repository hearing documents.

INDUSTRY

83

Acquisitions, agreement, and news about contracts.

STANDARDS

83

Standards recently published; comments requested.

DEPARTMENTS

ANS Membership Application	85	12	Letters
Backscatter	92	91	Literature from Suppliers
Calendar	6	84	People
Calls for Papers	10	14	Quoting at Random
Equipment & Services	88	11	Recently Published
Index to Advertisers	77	4	Setpoint
Late News in Brief	17	10	Short Courses and Seminars

ANS Officers

PRESIDENT

James A. Lake

VICE PRESIDENT/PRESIDENT-ELECT

Gail H. Marcus

TREASURER

Denis E. O'Brien

CHAIRMAN, ANS PUBLICATIONS

STEERING COMMITTEE

Robert W. Hess

Administrative

EXECUTIVE DIRECTOR

Harry Bradley

Cover: The scene moments after the Experimental Boiling Water Reactor (EBWR) had been placed on line on February 9, 1957. Left to right are John M. West, EBWR Project Manager; Rep. Carl T. Durham (N.C.), Chairman of the Joint Congressional Committee on Atomic Energy; Lawrence A. Kimpton, Chancellor of the University of Chicago; and Lewis L. Strauss, Chairman of the Atomic Energy Commission. For an article (coauthored by John M. West) about the early R&D that led to U.S. nuclear power plants, see p. 30. (Photo: Argonne National Laboratory)



Nuclear News (ISSN: 0029-5574), Volume 44, Number 7. 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 \$245 for 2001; overseas subscribers add \$51 per year for postage and handling. Single copy price is \$21; \$8 additional for overseas postage

and handling (except for the Buyers Guide issue, which is \$80; \$10 additional for overseas postage and handling). Individual ANS members receive *NN* as part of membership (up to \$48 of dues allocated to *NN*). 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 © 2001 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.