Editorial Staff

editor & publisher Gregg M. Taylor

MANAGING EDITOR Elizabeth S. Tompkins

INTERNATIONAL EDITOR Dick Kovan

SENIOR ASSOCIATE EDITOR Richard A. Michal

> ASSOCIATE EDITOR Patrick Sinco

PRODUCTION CONSULTANT Susan E. Gallier

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, Roger Tilbrook, and Paul Turinsky

ANS Headquarters

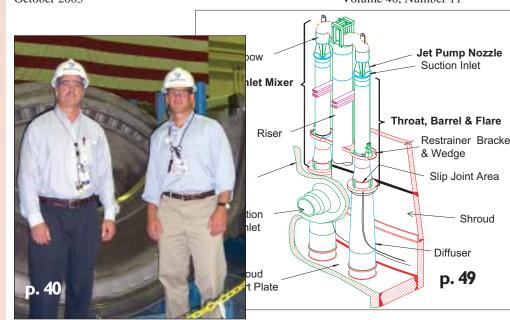
GENERAL NUMBER 708/352-6611 Facsimile 708/352-0499 Web site <www.ans.org>

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 708/579-8240 Facsimile 708/352-6464 e-mail <nucnews@ans.org>

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

October 2003 Volume 46, Number 11



SPECIAL SECTION:NUCLEAR POWER PLANT MAINTENANCE39

Sarver and Jordan: Maintenance at Millstone Vibration problem corrected at Susquehanna

BY RICK MICHAL 49

INTERVIEW BY RICK MICHAL

FEATURE ARTICLE

The Gas Turbine-Modular Helium Reactor BY M. P. LABAR, A. S. SHENOY, W. A. SIMON, AND E. M. CAMPBELL 28

BOOK REVIEW

Nuclear Reactions: The Politics of Opening a Radioactive Waste Disposal Site, by Chuck McCutcheon REVIEW BY MAN-SUNG YIM

POWER

NRC bulletin: Vessel bottom inspections ordered for PWRs. RCS test at Davis-Besse to have special monitoring. Staffing survey: Plant employee numbers drop from 2002 levels. Equipment problems at Perry result in special inspection. Nuclear maintains lowest baseload electricity production cost. NRC: Article critical of stored fuel safety flawed, fails to make case. Information notice issued to warn plant operators about computer worm.

SECURITY

Homeland security: Standards coming for "dirty bomb" detectors.

MEETINGS

ANS Utility Working Conference: A look back, a look ahead.

INTERNATIONAL

IAEA report: Iran agreement released at meeting. Germany's Schröder holds talks on energy with utilities. German antinuclear groups continue demonstrating. Logo introduced for the Indian Department of Atomic Energy's 50th anniversary. Waste cementation project starts at Dounreay, in U.K. New safety requirement documents approved.

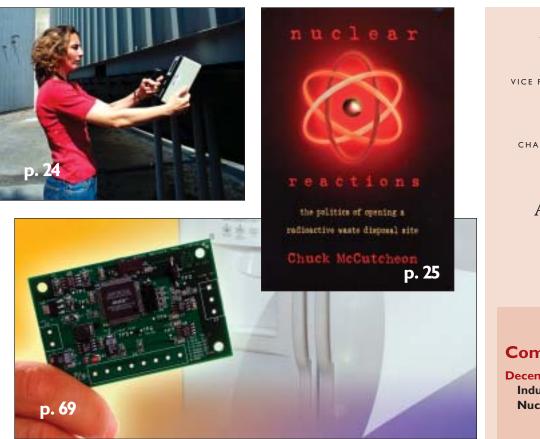
14

24

53

59

25



WASTE MANAGEMENT

GAO report: Spent nuclear fuel shipments generally safe, can still be enhanced. Laserdriven approach to transmutation used to change I-129 to I-128.

RESEARCH

PNNL research: DOE envisions "grid of the future." EPRI report on the U.S. power system has framework for the future. FESAC revises 10-year fusion goals and measures.

FUEL

USEC CEO says world events support future growth of nuclear. DOE/Areva, Westing-house/China reach contract agreements.

STANDARDS

Standards published; comments requested; new project.

INDUSTRY

Teaming agreements; acquisitions; award granted. Framatome, Westinghouse, TVEL signed for contract work.

DEPARTMENTS

ANS Membership Application	77	79	Literature from Suppliers
Backscatter	80	74	People
Calendar	6	10	Proceedings Available
Employment	79	76	Publisher's Statement
Equipment & Services	75	13	Quoting at Random
Index to Advertisers	65	10	Recently Published
Late News in Brief	17	4	Setpoint
Letters	12	8	Short Courses and Seminars

ANS Officers

PRESIDENT Larry R. Foulke VICE PRESIDENT/PRESIDENT-ELECT James Tulenko TREASURER William Naughton

CHAIRMAN, ANS PUBLICATIONS STEERING COMMITTEE Steven A. Arndt

Administrative

EXECUTIVE DIRECTOR Harry Bradley

Coming up ...

December—Special Section on Industrial Applications of Nuclear Technology



68

69

71

72

73



Nuclear News (ISSN: 0029-5574), Volume 46, Number 11. Published monthly (except during the month of April 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 \$325 for 2003; overseas subscribers add \$53 per year for postage and handling. ABC applied for. Single copy price is \$27; \$10 addi-tional for overseas postage and handling (except for the Buyers Guide issue, which is \$100; \$10 additional for overseas postage and handling). Individual ANS members receive NN as part of membership. 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 effec-tive. 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 © 2003 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 database, from Mead Data Corporation.