

## 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

PRODUCTION EDITOR  
Deborah S. Nall

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>

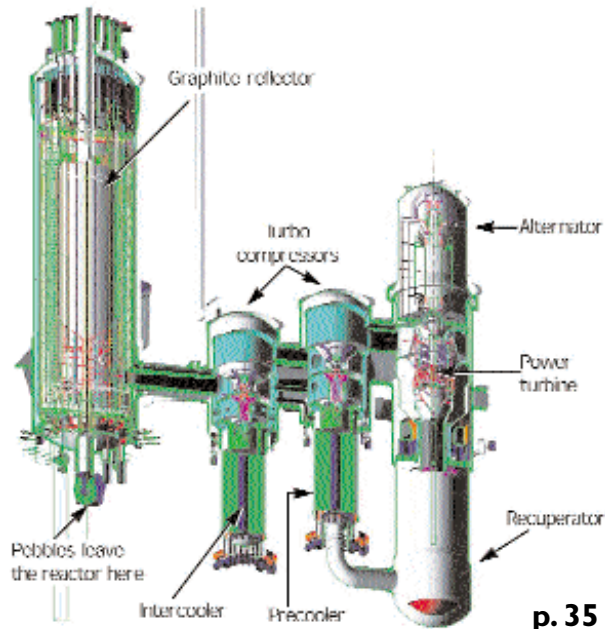
INTERNATIONAL EDITOR  
(DICK KOVAN)

011-44-1737-842687  
e-mail <100444.3711@compuserve.com>

# Nuclear News

September 2001

Volume 44, Number 10



## FEATURE ARTICLES

- Nuclear workers and the occupational diseases act  
BY DONALD E. JOSE, DAVID WIEDIS, AND KRISTEN KOMER 28
- Radiation litigation: The Statutory Employer Defense  
BY DONALD E. JOSE, DAVIE WIEDIS, AND KRISTEN KOMER 32
- The Pebble Bed Modular Reactor: The future is now  
BY DAVE NICHOLLS 35
- Hydrogen production as a major nuclear energy application  
BY CHARLES W. FORSBERG AND K. L. PEDDICORD 41
- Kimmelman: A Wall Street view of nuclear power  
INTERVIEW BY RICK MICHAL 46
- The German nuclear phaseout story  
BY CARSTEN SALANDER 48

## PERSPECTIVE

- Can we save the future world with nuclear energy?  
BY BERTRAM WOLFE 51

## POWER

Power uprates: Industry increase of 1600 MWe expected in five years. U.S. House passes bill favorable to nuclear energy. Energy polls: Some favor nuclear power, some don't. NEI: Early siting applications for new plant construction to start soon. Pennsylvania energy task force supports nuclear power. Nozzle leaks in reactor vessel head penetrations prompt NRC intervention. Entergy executive chairs GT-MHR development advisory group. Pump incident at Callaway draws attention of NRC. Inaccurate information from former Palisades operating organization leads to NRC fine. Dose management: NRC establishes more risk-informed limits. Safeguards review program planned for nuclear plants. (See also Call for Papers, p. 77, for the ANS 2002 Annual Meeting and Embedded Topical Meeting, June 9-13, 2002, in Hollywood, Fla.)

## OPERATIONS

The *Nuclear News* interview—Kimmelman: A Wall Street view of nuclear power. 46

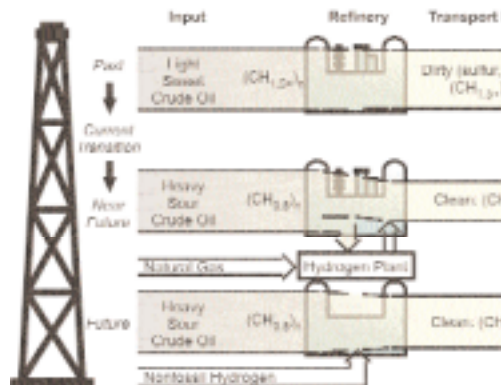
## INTERNATIONAL

Government of Czech Republic rejects Germany's call to abandon Temelin. European Union: Research reveals real costs of electricity in Europe. U.K. report: Sellafield MOX Plant operation justified. Minister rules out reprocessing at Dounreay. Radiochemistry research center open at University of Manchester. Phaseout amendment sparks opposition in Germany. Stade nuclear plant to close down early. Thefts of fissile material samples uncovered. \$18 million to help replace power from Chernobyl-3 in Ukraine. First overall French nuclear law bill presented to cabinet. Discussion paper released for siting ILW store in Australia. 52



**Region 2**  
**\$75,000**  
 Includes:  
 Puerto Rico

p. 66



p. 41



p. 60

## ANS Officers

- PRESIDENT**  
 Gail H. Marcus
- VICE PRESIDENT/PRESIDENT-ELECT**  
 Harold Ray
- TREASURER**  
 Kyle Turner
- 
- CHAIRMAN, ANS PUBLICATIONS  
 STEERING COMMITTEE**  
 Robert W. Hess

## Administrative

- EXECUTIVE DIRECTOR**  
 Harry Bradley

## Coming up ...

- October**—Special Section on Nuclear Power Plant Maintenance
- December**—Special Section on Nuclear Medicine

## ISOTOPES & RADIATION 58

Researchers identify cause of tissue damage from radiotherapy. Australia moves closer to allowing irradiation of certain foods.

## RESEARCH 59

DOE persists on possibilities for FFTF. LANL neutron science center is back up and running. Results of element 118 experiment at LBNL retracted. Advanced reactor tests under NERI funding begin at Oregon State. Joint R&D funding agreement signed by U.S., France. Generation IV development group established.

## EDUCATION 62

Nuclear engineering program merger at University of Missouri–Columbia still undecided. Fentiman to chair nuclear engineering program at Ohio State University.

## WASTE MANAGEMENT 63

Envirocare puts hold on plans for Class B, C low-level waste. Cask leak on truck prompts call for study. Posiva, in Finland, and SKB, in Sweden, reinforce spent fuel disposal R&D. US Ecology, ATG get decom, processing work.

## INDUSTRY 65

Nuclear engineering is third in NSPE salary survey. PerkinElmer to sell unit; new offices; relocation. NNC to provide Bruce startup support; other news about contracts.

## STANDARDS 72

ANS standards approved, withdrawn, comments.

## DEPARTMENTS

ANS Membership Applications	75	83	Literature from Suppliers
Backscatter	84	73	People
Calendar	6	8	Proceedings Available
Calls for Papers	7	9	Quoting at Random
Equipment & Services	82	8	Recently Published
Index to Advertisers	69	13	Retrospective
Late News in Brief	17	4	Setpoint
Letters	11		



*Nuclear News* (ISSN: 0029-5574), Volume 44, Number 10. 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.