Editorial Staff

editor & publisher Betsy Tompkins international editor

> Dick Kovan senior editor Rick Michal

senior associate editor E. Michael Blake

> associate editor Phyllis Ruzicka

PRODUCTION EDITOR Patricia A. Matas DESKTOP EDITOR Chris Salvato

editorial assistants Susan Gallier Sarah Ross

CONTRIBUTING COLUMNIST Bill Minkler

Advertising Staff

ADVERTISING AND CIRCULATION SALES MANAGER Jeff Mosses

advertising/production assistant Erica McGowan

CIRCULATION ASSISTANT Bess Weglarz

Editorial Advisory Committee

Ramon Ashley, Sam K. Bhattacharyya, Roger S. Reynolds, Roger W. Tilbrook, and Paul Turinsky

ANS Headquarters

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

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

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

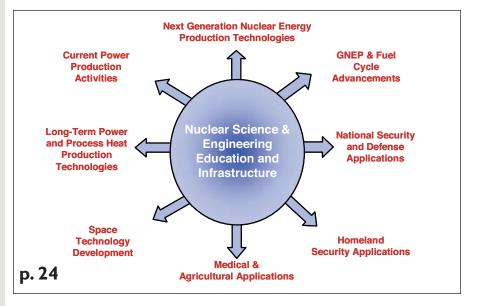
INTERNATIONAL EDITOR (DICK KOVAN) +44 1737 842687 e-mail <dkovan@compuserve.com>

2

Nuclear News

February 2007

Volume 50, Number 2



SPECIAL SECTION: TRAINING AND EDUCATION 21

INIE funding: University consortia put over \$9 million to good use

BY RICK MICHAL 22

BY MICHAEL FLAGG 30

BY DICK KOVAN 38

ANS special committee's report: The need for federal funding of nuclear education 24

Schmidt, Miller, and Jonassen: Nuclear curriculum development at UM–Columbia INTERVIEW BY RICK MICHAL 29

- MURR celebrates 40 years of operation
- British universities band together

POWER

ASLB decision favors early site permit for Clinton. McGaffigan to step down following record tenure at NRC. NRC says budget delay not cause of uprate deferrals. NRC issues draft environmental impact statement for Vermont Yankee's license renewal. The Reactor Marketplace: An update on acquisitions and mergers affecting ownership and operation of power reactors. Duke, NCEMC to buy Saluda's share of Catawba-1. NRC order confirms Point Beach's discrimination remedy. Unaccounted for spent fuel at Hatch plant leads to NRC fine.

SECURITY

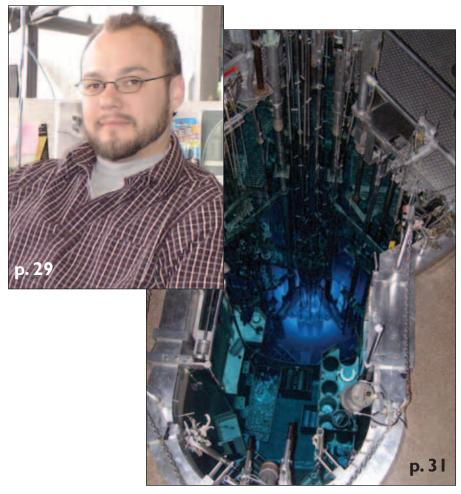
Brooks out as NNSA head, D'Agostino in. NRC rule imposes new security requirements for transer of nuclear materials. NNSA, others cooperate in recovery of radioactive material.

INTERNATIONAL

More countries looking to introduce nuclear power. India-Japan summit: Leaders agree on nuclear cooperation. AECL, Argentina expand nuclear cooperation. Nuclear plant planned for China's Beibu Gulf coast. China revises regulations to control nuclear exports. Lifetime electricity production quota transfer requested for Germany's Neckar reactors. Australian government searching for new energy sources. Spent fuel shipped from Australia to United States. Power generation ends at U.K.'s Dungeness A, Sizewell A. Seabed particle cleanup to be done at Scotland's Dounreay facility. BNFL to sell Magnox site management business. Retubing milestone reached at Canada's Bruce A. IAEA to publish updates on fast reactors and accelerator-driven systems. Funding needed to return spent fuel from Serbia to Russia. IEA report shows renewed promise for nuclear power.

9

41



WASTE MANAGEMENT

50

57

58

59

60

DOE seeks public input on environmental assessment for GNEP. Nevada calls foul over DOE's plan for interim surface storage at Yucca Mountain. Majority of Big Rock Point site released for public use.

INDUSTRY

ReNuke formed to provide staffing services; NUKEM Group reorganized; other business developments. GA-ESI, Areva win naval-related work; other contracts.

FUEL

Progress slow on remediation work at Cigar Lake uranium mine.

ISOTOPES & RADIATION

NRC issues draft EA/FONSI for irradiation facility in Hawaii. Idaho loans \$2 million for isotope production at INL.

STANDARDS

Standards published, approved, initiated; comments requested.

DEPARTMENTS			
EDITORIAL		Recently Published	8
Backscatter	68	Short Courses and Seminars	7
Calendar	6	ADVERTISING	
Late News in Brief	17		
Nuclear Notes	4	Direct Answer	54
People	63	Index to Advertisers	53
Proceedings Available	8	Employment Ads Begin	56

February 2007

NUCLEAR NEWS

ANS Officers

PRESIDENT Harold F. McFarlane VICE PRESIDENT/PRESIDENT-ELECT Donald C. Hintz TREASURER William F. Naughton

CHAIRMAN, ANS PUBLICATIONS STEERING COMMITTEE Roger W. Tilbrook

Administrative

EXECUTIVE DIRECTOR Harry A. Bradley

Cover: The benefits from Innovations in Nuclear Infrastructure and Education (INIE) program funding include the following (clockwise from top left): neutron imaging and tomography infrastructure improvements at the University of California at Davis; remodeling of an equipment shop at the University of Wisconsin at Madison; Georgia Tech's simulation of the TRIGA reactor at the University of Maryland; a new office facility (foreground) built to free up laboratory space at the University of Texas; and nuclear science and engineering students and staff at the Polytechnic University of Puerto Rico. Read more about these and related topics in this issue's Special Section on Training and Education, which begins on page 21.

Audit Bureau of Circulations

Nuclear News (ISSN: 0029-5574), Volume 50, Number 2. 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 \$375 for 2007; overseas subscribers add \$57 per year for postage and handling. Single copy price is \$35; \$10 additional for overseas postage and handling (except for the Buyers Guide issue, which is \$110; \$12 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 effective. POSTMAS-TER: Send change of address orders to Nuclear News, American Nuclear Society, 555 N. Kensington Ave., La Grange Park, Illinois 60526, or https://www.suesu.gov, 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 © 2007 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.