

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)

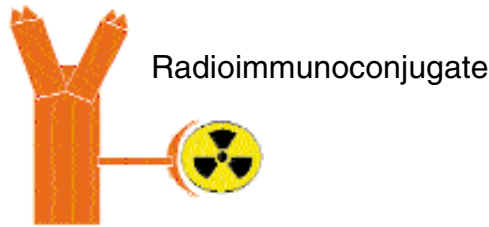
011-44-1737-842687

e-mail <100444.3711@compuserve.com>

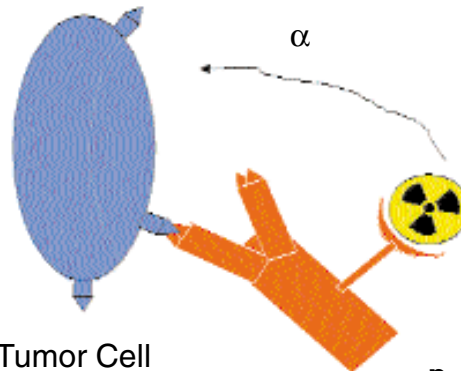
Nuclear News

December 2001

Volume 44, Number 13



Radioimmunoconjugate



Tumor Cell



p. 26

p. 59

SPECIAL SECTION: NUCLEAR MEDICINE 25

Carretta: Current trends in nuclear medicine INTERVIEW BY PATRICK SINCO 26
Cancer treatment using Bi-213 and Ac-225 in radioimmunotherapy

BY CHRISTOS APOSTOLIDIS, RAMON CARLOS-MÁRQUEZ,
WILLEM JANSSENS, ROGER MOLINET, TUOMO NIKULA, AND ALI OUADI 29

FEATURE ARTICLES

The world's first ABWRs: Kashiwazaki Kariwa-6 and -7

BY RYO Ikegame AND GAKU SATO 36

Supply and demand in the workforce: An update

BY RICK MICHAL 22

POWER

12

New construction: ESP, PBMR developments revealed at conference. Power plant increases gain NRC approval. NRC's Meserve responds to questions posed by Markey. Whistleblower group files petition seeking plant security upgrades. Antisiphon device for use in refueling earns patent for STP inventors. Inspection team assesses SG tube damage at Three Mile Island-1. Smoke detector violation identified at Palisades. FAA issues temporary "no fly" zones near sites.

OPERATIONS

22

Supply and demand in the workforce: An update.

INTERNATIONAL

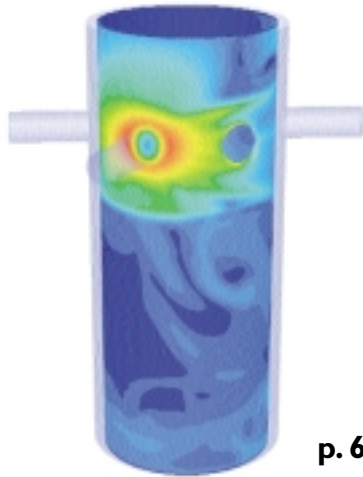
40

IAEA experts examine safeguards regime in special session. Civil agencies in Europe meet to address terrorism response. British Energy and AECL plan British Candus. Sellafield MOX Plant gets government go-ahead. Recruitment a problem at U.K.'s nuclear inspectorate. Slovenia: First non-OECD country to join Paris Convention. Operational deviations put Germany's Philippsburg-2 at risk. Vitrified waste shipments to Gorleben continued. Scientific feasibility breakthrough in HLW processing announced in France. Environmental assessment of Canada's Bruce A to proceed.

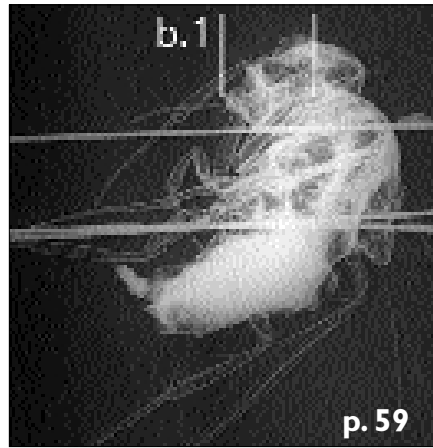
WASTE MANAGEMENT

47

Draft of IAEA's geologic disposal safety standard distributed. Supreme Court denies hearing of Nebraska appeal in LLW site case. American Ecology makes changes; news about contracts.



p. 60



p. 59

ANS Officers

PRESIDENT

Gail H. Marcus

VICE PRESIDENT/PRESIDENT-ELECT

Harold Ray

TREASURER

Kyle Turner

CHAIRMAN, ANS PUBLICATIONS

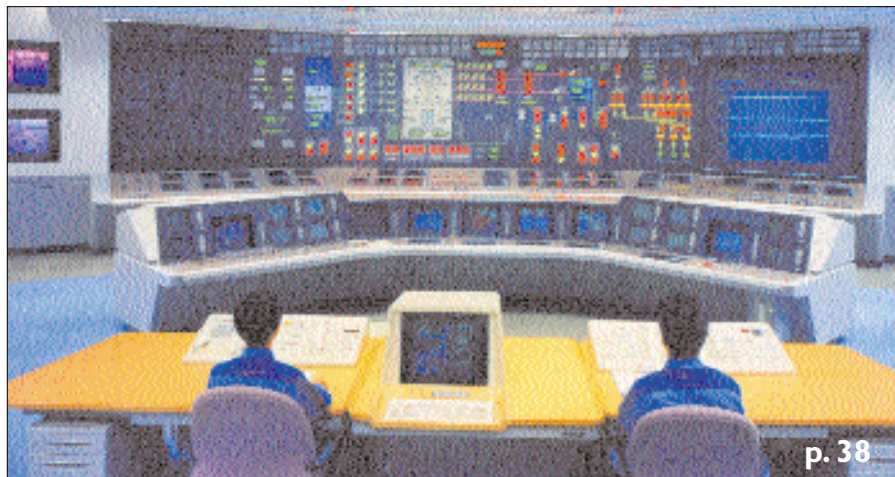
STEERING COMMITTEE

Robert W. Hess

Administrative

EXECUTIVE DIRECTOR

Harry Bradley



p. 38

Coming up ...

March—The Fourth Annual Nuclear News Reference Issue

INDUSTRY

49

Acquisition; collaborations; NIAC qualification for laboratory. InStep Software chosen by SCE; other contract news.

ISOTOPES & RADIATION

56

USPS awards contracts for irradiation services to destroy anthrax, other hazardous material. Studies: PET changes lung cancer staging, treatment; PreOp radiotherapy improves rectal cancer outcome. Radiation sensitivity may be linked to brain cancer risk.

RESEARCH

57

Argonne symposium: Colleagues relate historical reminiscences of Enrico Fermi. Radiological impacts lessen for residents near Savannah River Site. DOE extends PPPL contract with Princeton University. Fusion machine creates finely detailed images using plasma imaging process.

APPLICATIONS

60

CFD simulations model difficult reactor geometry to aid in problem-solving.

DEPARTMENTS

ANS Membership Application	61	17	Late News in Brief
Backscatter	68	8	Letters
Calendar	6	63	People
Calls for Papers	7	9	Quoting at Random
Employment	67	7	Recently Published
Equipment & Services	64	10	Retrospective
Index to Advertisers	53	4	Setpoint



Nuclear News (ISSN: 0029-5574), Volume 44, Number 13, 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 \$290 for 2002; overseas subscribers add \$51 per

year for postage and handling. Single copy price is \$25; \$8 additional for overseas postage and handling (except for the Buyers Guide issue, which is \$91; \$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.