

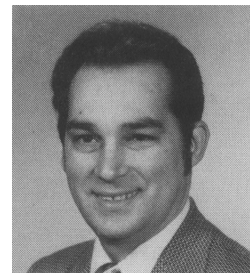


AUTHORS — AUGUST 1973

REACTORS

TEMPERATURE-DEPENDENT k_{∞} FOR A ThO_2 - PuO_2 HTGR LATTICE *Darrell F. Newman*

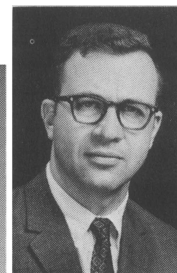
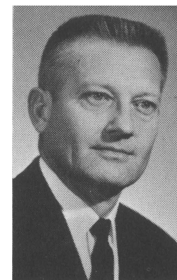
Darrell F. Newman (BS, nuclear engineering, Kansas State University, 1963; MS, nuclear engineering, University of Washington, 1970) has been working in the area of reactor physics at Battelle-Northwest for the past eight years. His experience includes conducting and directing both experimental and calculational studies of reactor neutronics. His research interests include nuclear fuel management, nuclear waste technology, and fusion reactor engineering.



CHEMICAL PROCESSING

MODELS FOR THE SAFE STORAGE OF DRY AND WET FISSILE OXIDES *C. L. Schuske* *S. J. Altschuler*

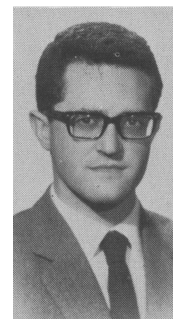
C. L. Schuske (left) (MS, physics, University of Southern California) is director of the Nuclear Safety Group at Dow Chemical USA's Rocky Flats Division. His areas of interest are critical mass physics and process plant nuclear criticality safety. Sidney J. Altschuler (BChE, The Cooper Union for the Advancement of Science and Art, 1957) is a research physicist at Dow Chemical USA's Rocky Flats Division, working on computer calculations for nuclear criticality safety purposes.



FUELS

VENTING DEVICE FOR SODIUM-COOLED FAST REACTOR CERAMIC FUEL ELEMENTS *M. Martini* *A. Gerosa*

Marco Martini (left) (Polytechnic Institute, Milan, 1961) is presently responsible for the core section of the CNEN Sodium Technology Laboratories (USTS) at Casaccia Nuclear Research Center. His present interests cover experimental studies on fuel elements behavior and core safety in the framework of the CNEN Fast Reactor Program (PRV). Augusto Gerosa (Polytechnic Institute, Milan, 1955) is currently director of the CNEN Sodium Technology Laboratories (USTS) at Casaccia Nuclear Research Center. He is responsible for experimental researches in the framework of the CNEN Fast Reactor Program (PRV) covering sodium plant and core technology.



A MODEL FOR THE EMBRITTLEMENT AND ANNEALING OF IRRADIATED STEEL

Paul J. De Meester

Paul J. De Meester (Burg. Met. Ir., Katolieke Universiteit Leuven, Belgium, 1958; MS, University of Pennsylvania, 1960; Dr. T.W., Katolieke Universiteit Leuven, 1967) has been with the Belgian Nuclear Center (SCK/CEN) for six years and is now professor of nuclear engineering and metallurgy at the Katolieke Universiteit Leuven, Belgium. He is involved in studies related to reactor materials and irradiation damage. He is president of the ANS-Belgian Section.



IMPROVED TECHNOLOGY FOR MULTIWATT RADIO-ISOTOPE HEATER UNITS

*A. W. Barsell
R. B. Goranson
P. R. Clements*

Arthur W. Barsell (top) (University of Goettingen, Germany, 1961) has been active in reentry and hazards studies on reactor and isotope systems. He is presently a senior engineer with Gulf General Atomic involved in HTGR safety research. Richard B. Goranson (center) (MS, nuclear engineering, University of Arizona) is a waste management specialist with the U.S. Atomic Energy Commission, Richland Operations Office. He is currently involved in the AEC program for long-term management of high-level radioactive wastes. Paul R. Clements (bottom) is currently assigned as a laboratory scientist at the Donald W. Douglas Laboratories. His responsibilities include liaison engineering, conceptual design, and evaluation of flight-qualified hardware.

