



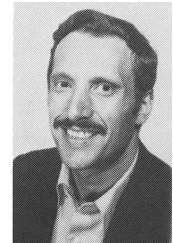
## AUTHORS — DECEMBER 1973

### REACTORS

#### NUCLEAR POWER PLANT HEAT REJECTION IN AN ARID CLIMATE

Frederic C. Scofield (left) (BS, mechanical engineering, Worcester Polytechnic Institute, 1964; MS, nuclear engineering, University of Arizona, 1971) has been involved in various aspects of power production. He presently is a senior engineer with the Omaha Public Power District and is primarily involved with contract administration and licensing of the Fort Calhoun (nuclear) Station. Rocco Fazzolare (PhD, engineering, University of California at Los Angeles, 1967) is assistant professor of nuclear engineering at the University of Arizona. His recent interests have been directed toward broad power and energy problems.

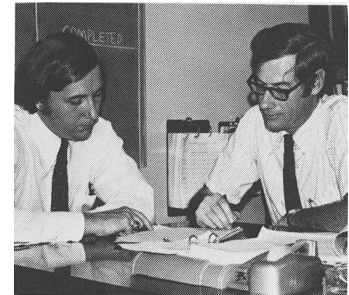
*Frederic C. Scofield  
Rocco A. Fazzolare*



#### METHODS FOR CALCULATING VAPOR AND FUEL TRANSPORT TO THE SECONDARY CONTAINMENT IN AN LMFBR ACCIDENT

Michael F. Kennedy (left) (MS, University of Virginia) is currently employed at Combustion Engineering in their light-water safety section. He previously worked on fast reactor safety at the University of Virginia. Albert B. Reynolds (ScD, Massachusetts Institute of Technology, 1959) is an associate professor of nuclear engineering at the University of Virginia where he is currently working on fuel-coolant interaction and fast reactor safety. Previously he worked at General Electric Company on SEFOR and the LMFBR program.

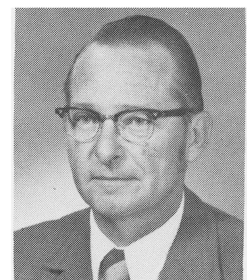
*M. F. Kennedy  
A. B. Reynolds*



#### A REVIEW OF FUSION-FISSION (HYBRID) CONCEPTS

B. R. Leonard, Jr. (PhD, physics, University of Wisconsin, 1952) is a staff physicist at Battelle-Northwest. He has performed and directed research in the measurement and analysis of neutron cross sections at Hanford. He is actively engaged in the evaluation of nuclear data, ENDF/B, and neutronic problems of fusion reactors.

*B. R. Leonard, Jr.*



### STORAGE CAPACITY FOR FISSILE MATERIAL AS A FUNCTION OF FACILITY SIZE

*C. L. Schuske  
S. J. Altschuler*

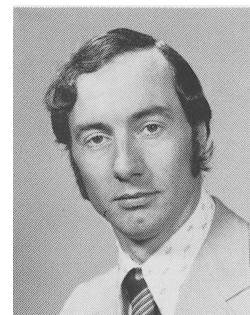
C. L. Schuske (left) (MS, physics, University of Southern California) is director of the Nuclear Safety Group at Dow Chemical USA's Rocky Flats Division. His areas of interest are critical mass physics and process plant nuclear criticality safety. Sidney J. Altschuler (BChE, The Cooper Union for the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



### OXYGEN INTERACTIONS BETWEEN SODIUM AND URANIUM-PLUTONIUM OXIDE FUEL

*D. L. Smith*

D. L. Smith (PhD, nuclear engineering, Iowa State University, 1966) is in the Materials Science Division at Argonne National Laboratory. His work has involved the effects of nonmetallic impurities in sodium on solid metal-liquid metal interactions related to LMFBR applications.



### A HIGH-CAPACITY ANNULAR CENTRIFUGAL CONTACTOR

*G. J. Bernstein  
D. E. Grosvenor  
J. F. Lenc  
N. M. Levitz*

George Bernstein (top left) (BS, mathematics, Yale University, 1937) is a chemical engineer in the Chemical Engineering Division, Argonne National Laboratory. He has had extensive experience in process and equipment design for reactor fuel recovery by pyrochemical and solvent extraction techniques. David Grosvenor (top right) (BA, Wesleyan University, 1939) has experience in development work on pyrochemical recovery of nuclear fuels, equipment design and development, and fluidized-bed pilot-plant operations. He is presently teaching at Triton College, River Grove, Illinois. John Lenc (bottom left) (BS, chemical engineering, University of Detroit, 1951) has extensive experience in process and equipment development for pyrochemical reactor fuel recovery processes. Norman Levitz (bottom right) (BS, chemical engineering, University of Illinois, 1948) is a group leader in the Chemical Engineering Division, Argonne National Laboratory, and has extensive experience with fluidized-bed systems and process development work for the nuclear fuel cycle. His recent activities include process evaluation studies in both nuclear and environmental areas.

