

nuclear technology®

CONTENTS / SEPTEMBER 1975—VOL. 27, NO. 1

NUCLEAR ENGINEERING EDUCATION

- 9 Preface—Nuclear Engineering Education: The Past and the Future / *Forrest J. Remick*

TECHNICAL PAPERS

- 11 History of Nuclear Engineering Curricula / *Glenn Murphy*
- 15 Reactor Use in Nuclear Engineering Programs / *Raymond L. Murray*
- 18 Current Status of Nuclear Engineering Education / *N. J. Palladino*
- 29 Where Do We Go from Here? / *Marvin E. Wyman*
- 34 Fissioning Uranium Plasmas and Nuclear-Pumped Lasers / *Richard T. Schneider, Karlheinz Thom*
- 51 Gaseous and Quantum Electronics in Nuclear Engineering Education / *William E. Wells*
- 57 Laser and Solid-State Applications in Nuclear Engineering / *Chihiro Kikuchi, James J. Duderstadt*
- 60 Biomedical Aspects of Nuclear Engineering Education / *Gordon L. Brownell, Brian W. Murray*
- 67 Radiation Imaging—An Interesting Utilization of Nuclear Engineering Methodology / *Edward S. Kenney, Alan M. Jacobs*
- 78 Nuclear Chemical Engineering / *Robert C. Axtmann*
- 84 Fusion Power by Magnetic Confinement: Plans and the Associated Need for Nuclear Engineers / *Robert L. Hirsch, Donald S. Beard*
- 92 Fusion Physics and Engineering—A Part of the Nuclear Engineering Curriculum / *T. Kammash*
- 96 Teaching and Research in Fusion Plasmas and Technology at the University of Illinois / *George H. Miley, Finis H. Southworth*
- 107 Computer Applications in Controlled Fusion Research / *John Killeen*
- 114 Evaluation of Fusion Research and Instruction at the University of Wisconsin / *Charles W. Maynard*

(Continued)

ON THIS COVER

This month's cover was conceived by our artist and graphically illustrates the flow of nuclear technology through the cranium of the youth of today.

CONTENTS / SEPTEMBER 1975—VOL. 27, NO. 1

(Continued)

- 119 A Historical Sketch of the Discovery, Production, and Application of Radioisotopes / *Clarke Williams*
- 124 Radiochemistry Teaching and Research at the University of California at Irvine / *V. P. Guinn, G. E. Miller, F. S. Rowland*
- 131 Instructional Programs in the Application of Radiation and Radioisotopes at Texas A&M University / *James B. Smathers, Robert G. Cochran*
- 135 Career Opportunities in the Applications of Radiation and Radioisotopes / *Kennard H. Morganstern*
- 140 Atomic Industrial Forum Public Information Seminars / *Paul Turner*
- 143 Citizens' Workshops on Energy and the Environment / *Lawrence K. Akers, John F. Yegge*
- 148 Summer Workshops for High-School Science Teachers / *Harold H. Young, Jerome Kohl*
- 154 European Public Information Activities / *André J. Gauvenet*
- 161 American Nuclear Society Public Information Activities / *Warren F. Witzig*
- 166 Environmental Aspects of Breeders / *Raymond D. Cooper*
- 174 Environmental Aspects of Fusion Reactors / *F. E. Coffman, J. M. Williams*

DEPARTMENTS

- 1 Authors