

# CONTENTS / MARCH 1986-VOL. 72, NO. 3

# RADIATION PROTECTION AND HEALTH PHYSICS PRACTICES AND EXPERIENCE IN OPERATING REACTORS INTERNATIONALLY

229 Editor's Note / Roy G. Post

## **TECHNICAL PAPERS**

- 231 Occupational Dose Reduction Experience in Ontario Hydro Nuclear Power Stations / R. Wilson, G. A. Vivian, W. J. Chase, G. Armitage, L. J. Sennema
- 246 Radiation Protection Practices and Experience in French Operating Reactors / André Gauvenet
- 254 Health Physics Practices and Experience at Duke Power Company / Lionel Lewis

#### **FISSION REACTORS**

- 258 Fission Product Behavior in High-Burnup Water Reactor Fuel Subjected to Slow Power Increases / Per Knudsen, Carsten Bagger, Hans Carlsen, Ib Misfeldt, Mogens Mogensen
- 268 The Reactor Containment of Standard-Design German Pressurized Water Reactors / Wolfgang K. E. Braun, Klaus Hassmann, Hans-Henning Hennies, J. Peter Hosemann
- 291 Effective Use of Sensor Readings in On-Line Plant Monitoring and Its Application to Boiling Water Reactor Power Distribution Calculations / Takaharu Fukuzaki, Takashi Kiguchi
- 301 A Dynamic Model for Pressurized Water Reactor Analysis on Microcomputers / Parveen K. Jain

## **FUEL CYCLES**

312 Alternative Fuel Cycle Evaluation in the Federal Republic of Germany / Reiner Papp, Klaus-Detlef Closs

#### (Continued)

# CONTENTS / MARCH 1986-VOL. 72, NO. 3

#### (Continued)

#### **NUCLEAR FUELS**

- 321 Fuel-Number Recognition by Means of Multidirectional Lighting / Makoto Senoh, Sakae Sugiyama, Masayoshi Sasaki
- 328 Model for Fuel/Cladding Chemical Interaction / Kenji Konashi, Katsuichiro Kamimura, Yoji Yokouchi
- 338 Microscopic Investigation into the Irradiation Behavior of U<sub>3</sub>O<sub>8</sub>-Al Dispersion Fuel / Gerard L. Hofman, George L. Copeland, John E. Sanecki

#### **MATERIALS**

345 The Use of Reconstituted Charpy Specimens to Extend R. E. Ginna Reactor Pressure Surveillance Data / Regis P. Shogan, Stephen E. Yanichko, William S. Galloway

#### **ANALYSES**

- 353 A  $^2$ D( $\gamma$ ,n) $^1$ H Tritiated Water Detector with  $^{232}$ U/ $^{228}$ Th Source / Norman P. Baumann, Willard G. Winn
- 359 Spatial Variability of the Distribution Coefficients of <sup>137</sup>Cs, <sup>65</sup>Zn, <sup>85</sup>Sr, <sup>57</sup>Co, <sup>109</sup>Cd, <sup>141</sup>Ce, <sup>103</sup>Ru, <sup>95m</sup>Tc, and <sup>131</sup>I in a Cultivated Soil / Heinz Bachhuber, Kurt Bunzl, Wolfgang Schimmack

## **TECHNICAL NOTE**

#### **CHEMICAL PROCESSING**

372 Movement of Droplets in the Centrifugal Settler / Hiromichi Fumoto, Riyohei Kiyose

#### **DEPARTMENTS**

- 223 Authors
- 375 Volume 72 Indexes
- Volume 72 Contents