

LONGENECKER and ASSOCIATES

Michael J. Lineberry, Ph.D.

DETAILED EXPERIENCE

2005- present: Research Professor of Nuclear Engineering and Director of the Institute of Nuclear Science and Engineering, Idaho State University. Principal responsibility is to build the nuclear engineering and science program at ISU. Duties include teaching, research, and Institute administration.

2005-2005: Idaho National Laboratory, Associate Director of the Center for Advanced Energy Studies. Responsibilities included startup of CAES (INL began operation in Feb. 2005), and organization of the first World Nuclear University Summer Institute. Continued a part-time joint appointment with Idaho State University.

1972-2005: Argonne National Laboratory. 33 year career with Argonne, all in development of the Sodium Fast Reactor. First ten years were in fast reactor physics at the Zero Power Plutonium Reactor, rising to overall leadership of all Argonne's fast critical experiment programs. The last 20+ years was in fast reactor fuel cycle. Associate Director of Argonne's Integral Fast Reactor (IFR) program, from its inception in 1983, responsible for demonstration of the unique IFR fuel cycle process (electrometallurgical processing, or the "pyroprocess"). From 1990-95, directed the Fuel Cycle Division, responsible for refurbishment of the Fuel Cycle Facility for the IFR pyroprocess demonstration, and for the scientific demonstration itself. From 1995-2000, directed the Technology Development Division; with responsibility for a diverse set of Argonne's nuclear energy programs (EBR-II Spent Fuel pyroprocess demonstration, fusion, Reduced Enrichment for Research and Test Reactors, Decontamination and Decommissioning).

EDUCATION

- University of California Los Angeles, Engineering, B.S. summa cum laude 1967.
- California Institute of Technology, Mechanical Engineering, M.S. 1968.
- California Institute of Technology, Engineering Science and Physics, Ph.D., 1972
- University of Chicago, Business Administration, M.B.A., with honors, 1999.

PUBLICATIONS

- M.J. Lineberry, "Spent Fuel Accumulations and Arisings in 'Fuel User' States: Implications for a World Nuclear Partnership", to be presented at Global '07 conference (2007).
- M.J. Lineberry, R.W. Benedict, and C.W. Solbrig, "Avoiding Need for Multiple Repositories in a Nuclear Growth Scenario", Proc. Waste Management '04 (2004),
- M.J. Lineberry, ed. "Generation IV Roadmap, R&D Scope Report for Liquid Metal Reactor Systems", U.S. Dept. of Energy, Nuclear Energy Research Advisory Committee, GIF-005-00 (December 2002).
- H. F. McFarlane and M. J. Lineberry; "An Insiders' Perspective of Fast Reactor Technology," Progress in Nuclear Energy, 34(1999).
- H. F. McFarlane, M. J. Lineberry; "The IFR Fuel Cycle Demonstration", Progress in Nuclear Energy, 31, No. 1/2, pp. 155-173, (1997)
- M.J. Lineberry, D.R. Pedersen, L.C. Walters and J.E. Cahalan; "Advances by the Integral Fast Reactor Program", Proc. American Power Conference (1991).
- M.J. Lineberry, R.D. Phipps, R.H. Rigg, R.W. Benedict, M.D. Carnes, D.R. Pedersen, J.E. Herceg and R.E. Holtz; "IFR Fuel Cycle Demonstration in the EBR-II Fuel Cycle Facility", Proc. Intl. Conf. on Fast Reactor Systems and Fuel Cycles, Kyoto, Japan, (1991).

- M.J. Lineberry; "Physics Assessment of LMFBR Integral Parameters", Proc. Advances in Reactor Physics and Core Thermal Hydraulics, American Nuclear Society (1982).
- M.J. Lineberry, H. F. McFarlane, P.I. Amundson, R.W. Goin, and D.S. Webster; "Fuel Cycle Options", Part 5 of C.E. Till et al "Fast Breeder Reactor Studies" (a chapter in an extensive peer-reviewed report detailing Argonne's leadership role in the International Nuclear Fuel Cycle Evaluation [INFCE]), ANL-80-40, Argonne National Laboratory, pp. 192-279 (1980).
- M.J. Lineberry, H.F. McFarlane, P.J. Collins and S.G. Carpenter; "Physics Studies of a Heterogeneous Liquid-Metal Fast Breeder Reactor", Nuclear Technology, 44, (1979).

SYNERGISTIC ACTIVITIES AND AWARDS

- Directed the U.S. contribution in the nuclear fuel cycle to the International Fuel Cycle Evaluation (INFCE), 1979-80.
- Technical Director, Technical Working Group for Liquid Metal Reactors, Generation IV R&D Roadmap, 2001-2002. Directed and coordinated the efforts of a group of ~12 international experts in liquid metal reactor research, interfacing with other Gen IV R&D groups, to produce the R&D Roadmap.
- Fellow, American Nuclear Society
- Recipient, U.S. DOE E.O. Lawrence Award (1983).
- Recipient, University of Chicago Medal for Distinguished Performance (1991).
- Organized first World Nuclear University Summer Institute, Idaho Falls, 2005.

PROFESSORIAL REFERENCES:

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406 579 2789, johnflyer@3riversdbs.net