

*Woodruff Nuclear & Radiological Engineering and Medical
Physics Programs Seminar*

**“Overview, Applications, and Ongoing
Development of the SCALE Code System”**

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Molecular Science & Engineering (MSE-3201A)
11:00am

REFRESHMENTS WILL BE SERVED

Abstract

The SCALE code system developed at Oak Ridge National Laboratory (ORNL) is a comprehensive software suite that can be used for a wide array of nuclear analyses such as reactor physics and depletion, Monte Carlo and deterministic radiation transport, criticality safety, and problem-dependent cross-section processing. Version 6 of the SCALE system is now being tested for public release by the Radiation Safety Information Center (RSICC) at ORNL. The seminar will provide an overview of the analysis capabilities within the SCALE system including new capabilities added with the Version 6 release, discuss example applications of current interest, and present development activities in progress or planned for the future.

Biosketch

Cecil Parks is currently the Manager for Nuclear Systems, Analysis, and Design within the Nuclear Engineering Department at Oak Ridge National Laboratory. He has a BSNE, BSME, and MSNE from N. C. State University and a Ph.D. from the University of Tennessee. He joined ORNL in 1978 and has had project or organizational responsibility for the SCALE code system since 1980. His current organizational responsibilities include six technical R&D groups: Radiation Transport and Criticality, Advanced Reactor Systems, Reactor Analysis, Thermal Hydraulics and Irradiation Engineering, Nuclear Data, and the RSICC.