

ANS NCSD Newsletter Summer 2023

Member Highlight- Katy Worrell

I was first introduced to nuclear criticality safety (NCS) by chance while seeking out summer internships as a freshman at the University of Tennessee, Knoxville. Fortunately, when I started working in the field as an intern at Nuclear Fuel Services, I found that I was really passionate about it, and wanted to learn more and get involved. My existing involvement in the ANS student chapter eventually led me to join the



Society's NCS Division, where I was welcomed from the start. Being active in NCSD for the past year and a half has been incredibly rewarding, from joining the Communications committee, to being elected as student Executive Committee member, to receiving this NCSD Pioneers Scholarship. I am so very thankful to everyone in NCSD who has put forth effort to see me succeed both in the field and in my extracurricular activities. This scholarship will help me with living expenses as I pursue my master's degree in nuclear engineering at UTK, with a nuclear safety concentration, a focus on criticality benchmarking, and plans to continue in the NCS field after graduation. I look forward to continuing to foster the relationships that have helped me get this far, and to one day becoming a strong NCS engineer who can give back to other students like me.

Site Highlight-Dr. Bob Busch and the new NCS book

Dr. Robert (Bob) Busch has been involved in the NCS community since 1975. Through his 35-year tenure at the University of New Mexico, retiring in 2020, Dr. Bob received many teaching excellence awards. He has served as a Trustee and Emeritus Trustee on the Board of the National Museum of Nuclear Science and History since 2004. He was awarded the ANS 2018 Standards Service Award and recognized by his peers in the ANS NCSD who awarded him their Distinguished Service Award in 2001.

Throughout the 1970s and 1980s he participated in the UNM NCS Short Courses and became the Director in 1989. He has been involved in 41 UNM NCS Short Courses, 34 UNM NCS Manager's Courses, and 12 NCS Assessments Courses. Dr. Busch along with a handful of UK & USA NCS professionals have provided 13 UK based NCS Workshops since 1996.

Per Dr. Busch:

I originally envisioned it as an update to the seminal 1985 text by Dr. Ronald Knief. It quickly became apparent that revision wasn't necessary. Rather, a number of new topics (e.g.,

computer-enabled calculation and modeling) NCS had developed in the intervening years so that a companion volume to that text would better fill the need. The result is *Nuclear Criticality Safety: Evaluations, Calculations, and Experiences*. Much of the material in this book represents the work of many involved in the UNM short



courses over the past 30 years. I am indebted to those instructors for their support, participation, and mentoring during those courses. Because I consider the book to be the culmination of my interaction with the NCS community over many years, all of the royalties from book sales will be donated to the ANS Nuclear Criticality Safety Division. For those of you who will be at the November 2023 ANS Winter Meeting, I will do a book signing on Tuesday November 14th.

Suggestions for nominations to the NCSD Exec Committee can be sent to Katherin Norton at kelnorton@outlook.com

UPCOMING EVENTS

Trainings/Classes:

- Intermediate MCNP at LANL (October 2-6, 2023)
- SCALE Criticality Safety Calculations at ORNL (October 23-27, 2023)
- Introduction to MCNP Online (October 23-27, 2023)
- Variance Reduction with MCNP6 at LANL (December 4-8, 2023)
- Two-week CSE course at NFO/NATM and NCERC/Sandia (January 22- February 2, 2024)
- Manager CSO Course at NCERC (Dec 11-15, 2023; March 18-22, 2024)

Meeting Reminders:

- MCNP User Symposium (September 18-23, LANL)
- 2023 ICNC Meeting (October 1-6, 2023, Sendai, JP)
- Nuclear science week (October 16th-20th)
- ANS Winter Meeting and Technology Expo (Nov 12-15, 2023, Washington, DC)
- ANS Student Conference (April 4-6, 2024, University Park, PA)
- ANS Annual Meeting (June 9-12, 2024, Las Vegas, NV)