



The Steppingstone MAgnetic Resonance Training (SMART) Center is a fusion of project-based learning and scientific instrumentation.

The SMART Center, conceived by Dr. Philip D. "Reef" Morse II (formerly Professor of Chemistry at Illinois State University), Dr. Art Heiss of Bruker Bio-Spin and Kiyu Morse, Head of Steppingstone School, provides training and access to three electron spin resonance spectrometers for students from middle school through college undergraduate.

Students participate in 24 hours of training during which time they learn about resonance, spectroscopy, instrument usage, obtaining and analyzing data and the basics of experimental design.

Most importantly, students learn to ask questions in such a way that they can obtain answers.

Once they have completed the training course, they have self-directed access to the laboratory and instrumentation where they can pursue their research ideas and, ultimately, present their research not only to other students but also to the scientific community.

The SMART Center motto, "Exciting the Next Generation of Scientists," is not only a play on words that describes resonance processes, it is the ultimate purpose for its existence.



Steppingstone **MA**gnetic Resonance Training Center
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