

To whom it may concern:

My name is Bobby Arthur and I am a Sophomore at John Handley High School in Winchester, Virginia. I just competed in my regional science fair, and I am going to the Virginia State Science and Engineering Fair on April 16 and 17. My physics project involves research on "Ideal Solenoids." I am examining the relationship between length and diameter of relatively small ideal solenoids. In my research I have made seven ideal solenoids of various diameters, ranging from approximately 1/2" to 3". While being judged at the Shenandoah Valley Regional Science Fair held at James Madison University the judge thought I might share some of my results with researchers at Los Alamos National Laboratory. He informed me that you are also doing some kind of research in this same field. I would like to follow through with his suggestion and ask that if you might share with me what current research LANL is doing that involves ideal solenoids. Perhaps you could forward some declassified information on exactly what type of Ideal Solenoid research LANL is undertaking so that I could include it in my project at the State Fair. Secondly, I have hit the practical limit of solenoid diameter and would like to do further research involving my ideal solenoids. If, on some scale, I can present some of your results along with my own, the possibility of me winning a trip to the INTEL International Science Fair in Portland Oregon in May would greatly increase. If you can assist me in this matter it would be greatly appreciated. Also, if possible, it would be very helpful if you could send me a more specific address so that I could send a detailed compilation of my results and procedures to you in the mail. Hopefully, we can remain in touch. Your information would be extremely valuable to my project.

Thank you for your time.

Regards,
Robert S. Arthur
John Handley High School