



Physics

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LETTER FROM THE EDITOR

We are moving towards an era where interdisciplinary collaboration is crucial to carry out successful scientific investigation. Researchers in many fields are thinking beyond the traditional boundaries that define the specific disciplines, combining their efforts and expertise to investigate nature and develop new technologies. The modern facet of scientific research requires thinkers capable of challenging the established boundaries and eager to join international collaborations. I, thus, applaud the authors published in the Physics section of the Trinity Student Scientific Review. They have demonstrated the skills and the attitude crucial to producing successful reviews, thereby holding the promise of becoming researchers capable of tackling the challenges of modern scientific investigation. By expanding on applications of Quantum Mechanics and Particle Physics to Biology, cancer treatment, information transmission and novel renewable energy infrastructures, the reviews showcase the state-of-the-art advancements in some of the most exciting interdisciplinary areas of research.

The Trinity Student Scientific Review acts as a great learning platform to acquire the necessary skills, for any aspiring researcher, that stretch beyond the scope of the undergraduate curriculum. Successful scientific enquiry requires equally committed scrutiny and effective communication. As Physics Editor I have had the chance to expand my knowledge of scientific communication and to work with brilliant students, eager to collaborate to put forward compelling articles. By experiencing the many steps leading to the second volume of the Trinity Student Scientific Review, we were all given the chance to get a powerful insight into the dynamics at play in the world of scientific writing. I firmly believe that this is a crucial set of skills for the upcoming researchers, and I am proud of the role Trinity Student Scientific Review plays in enabling such development. On behalf of the Editorial Team, I wish to thank all the candidate authors for their dedication and efforts. Without such a crucial contribution, the Review would not be able to move in the promising direction we are witnessing today.

As a closing note, I would like to express my sincere gratitude to Prof. W. Blau, Prof. S. Hutzler, Dr. S. Bergin and Mr. J. Magan for their assistance in the reviewing process and to the TSSR Team. What we have achieved this year is, in my opinion, something remarkable, and I encourage any interested undergraduate students in Trinity to take part in this fresh and much needed enterprise. I hope you will enjoy this section of the Trinity Student Scientific Review. We have tried our very best to illustrate some of the most enticing areas of current research in Physics in a clear fashion.

Blaise Delaney
Physics Editor
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