ENGAGING MILLENNIALS IN LEARNING SCIENCE
BY INTEGRATING TECHNOLOGY

by:
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Millennials are the individuals who belong to the generation which is also known as Generation Y. Many authors have different definitions about this generation but Howe and Strauss, author of the book: The History of America's Future, 1584 to 2069 as cited by M. Rouse (2018), are often credited for the term millennials which they defined as those individuals who are born between 1982 and 2004.

Millennials grew up in a world of technology. These are the individuals who lived most of their lives using computers and other gadgets for social and personal purposes. Today, they are the young adults who live with social media networks and the internet.

Technology plays an important role in the lives of the millennial generation. Since the millennials are very familiar with the technology, they easily adapt to new systems, devices, and programs better than the older generations. This familiarity has an advantage in the teaching-learning process.

According to Advocates of Science and Technology for the People (AGHAM), education in the Philippines has historically been weak when it comes to science and mathematics education. To solve this problem, former president Benigno Aquino III signed the Republic Act 10533 or the Enhanced Basic Education Act into law in 2013 wherein the law aims to produce Filipino graduates who are globally competitive.

The Enhanced Basic Education include the career tracks as part of the senior high school. One of them is the Academic Track that includes the Science, Technology,
Engineering, and Mathematics Strand. To help produce globally competitive Filipinos, teachers play an important role in teaching today’s generation.

For the Millennial generation, teacher-centered instruction may not be effective anymore because the learners today do not learn only from mastery but also from experiential, critical, and scientific learning.

Since technology is an important part of the millennial generation, teachers must also learn to adapt to this environment by integrating technology, especially in teaching science. It is recommended to use the technology, pedagogy, and content knowledge (TPACK) framework for effective technology integration wherein the technology, pedagogy, and knowledge are important aspects of teacher's knowledge in teaching with technology integration.

It is also important for teachers to be intrinsically motivated in using technology in teaching. According to Guzey and Roehrig of the University of Minnesota, technology internalization is important together with classroom instruction combined with the technology, pedagogy, and content knowledge that they have.

These aspects are important in integrating technology in teaching science to the millennials to hone Filipino citizens who are globally competitive and scientifically equipped for meeting the needs of the future generations.
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