

the universe led them toward

establishing successful careers.

Brief sketches of their lives show

lives. Dr. Neil Degrasse Tyson's

impression on him that he went

on to become a distinguished

observations from his rooftop

apartment left such a deep

Consider asking students to recall a personal experience that how physics has transformed their transformed their lives and what aspects of Dr. Tyson's profile demonstrate his personal and professional success. You might want students to describe their

how you think."

impression of Dr. Tyson's career and how it makes an impact on their learning.

Dr. Michio Kaku's firm belief in a unified explanation of everything demonstrates his passion to link together all know physical phenomenon. You might want to ask students what they understand by "abstract physics." Discuss why Dr. Kaku is absorbed in defining the "Theory of Everything." Ask how Dr. Kaku's profile would open the door to innovative thinking.

Dr. Jill Tarter's profile captures her strong love for scientific research. Have students write a brief summary of Dr. Tarter's profile. Ask them to describe how her passion for science played out in her life. Consider asking, "Why is engineering considered to be a challenging profession for women?" What does Dr. Tarter mean when she says that her organization is engaged in finding signals that are cannot be generated by nature in terms of the physics we understand? Ask your students to do an Internet search on SETI to answer some of their questions on whether there may be intelligent life in the universe other than our own. "What other aspects of her career stand out?" These questions will focus students' understanding and provide points of discussion that serve to emphasize the role of physics in Dr. Tarter's career.

CHAPTER 9