



趣味科技

Introduction of Science

As we know, natural science is all about the understanding of the physical world. It has also been driving innovations in technology for our modern civilization. Stimulating interests and curiosities of our CSR students in science and technology would be an important step to prepare them to love science and having fun to understand the world.

The Introduction of Science is an elective course designated for elementary and middle school students who have interests to learn what's going on in the frontiers of physics, chemistry, biology, and computer science. We will combine lectures and free discussions as a format of learning, with the special emphasis on "the fun to learn science". We will invite experts, who are working in the frontiers of a variety of scientific fields, to give seminars and to discuss with our students.

Course Sections:

- What is physics about?
 - Introduction to Mechanics: Mass, Force, momentum, work/energy
 - How radio and TV works: electromagnetic waves?
 - Looking into matters: topics of modern physics
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- Current interesting topics in modern physics:
 - Laser physics
 - Cold-atom physics
 - Material physics
 - Surface physics
 - High-energy physics
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- What is Chemistry about?
 - Chemical bonding
 - Chemical reactions
 - Topics in modern chemistry
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- How Biology shapes our understanding of life?
 - What biology is about?
 - What are the current topics in biology?
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Teacher: Dr. Suxing Hu



Suxing is a Senior Scientist and the Group Leader of the theoretical high-energy-density physics group at the Laboratory for Laser Energetics, University of Rochester. He started theoretical studies on how intense laser pulse interactions with atoms, molecules, and clusters in late-1990's. He got his PhD in physics from Chinese Academy of Sciences, at Shanghai Institute of Optics and Fine Mechanics in 1998. After graduation, he took the Alexander von Humboldt Fellowship and continued his theoretical AMO physics researches at University of Freiburg and Max-Born-Institute in Berlin.

Suxing came to the US in 2001 as a postdoc research associate at University of Nebraska-Lincoln. Late on he became a Director's Postdoc Fellow at Los Alamos National Laboratory. Suxing joined in LLE as a scientist in 2006 and became a senior scientist in 2013. As a theoretician, he is interested in understanding how matters behave under extreme conditions such as under ultra-high pressures and in super-strong/ultrafast fields. Suxing was awarded the Hundred Outstanding Doctorate Thesis Prize by China's Department of Education in 2000. He has published over ~150 research papers that receive about ~4000 citations so far. For his significant contributions to attosecond physics, he was elected a Fellow of the American Physical Society in 2013.