

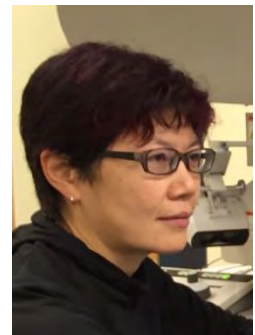


東京大学微細構造解析プラットフォーム 公開講演会

“Solving materials problems on Moon and Earth via “Lab in the Gap” approach”

Prof. Jane Y. Howe

*Department of Materials Science and Engineering
Department of Chemical Engineering and Applied Chemistry
University of Toronto*



Our ability to image surface and bulk features of materials plays an important role in the field of nano-scaled materials research. Even more desirable is the capability to simultaneously image morphological and structural changes that occur on the surface and within the bulk of a material with additional stimuli, such as during *in situ* heating, *in situ* oxidation, or under tensile stress. In this presentation, I will give two examples of using electron microscopy for solving cosmochemistry and materials problems via an interdisciplinary approach. The first example is to simulate micrometeorite impacts via *in situ* heating of lunar soil collected from the Apollo Mission. I will then present *in situ* SEM/TEM tensile testing of carbon-linked graphene oxide nanosheets using a MEMS device. These studies have established new methodologies for materials science and lunar and planetary research.

Nov 20 (Tue), 2018 15:30~17:00

**Main meeting room at Institute of Engineering Innovation, UT
(工学部総合研究機構 9号館1階 大会議室)**

Organizer: Prof. Yuichi Ikuhara, Phone: 03-5841-7688