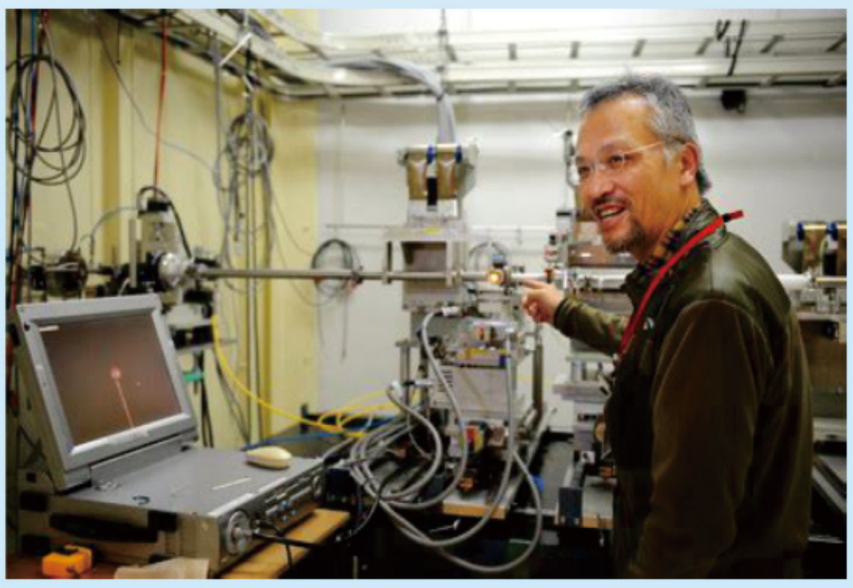
青年促进论坛第四十一期

主讲题目：Primitive solid materials in Solar System

主讲人：Prof. Akira Tsuchiyama（日本京都大学地球与行星科学部）



The overall research of Prof. Akira Tsuchiyama is conducted on earth and planetary science, petrology, mineralogy and economic geology. He has published more than 150 papers on international journals including Science(10), EPSL(5), GCA(10), CMP(5), MPS(26) and AM(5). His research interests are centred on charaterization of samples returned from asteroids, investigation of primitive solar materials (chondrites and cometary dust) and development of 3D observation methods.

Recent development of "astromineralogy" revealed ubiquitous existence of terrestrial minerals in the universe. It is widely accepted that interstellar dust, which should be incorporated into Solar System, is composed of amorphous silicates. Cometary dust contains amorphous silicates (GEMS: glass with embedded metal and sulfide). Primitive carbonaceous chondrites (CCs) also have fine-grained matrix of amorphous silicate (GEMS-like material). This lecture focuses on two highly primitive lithologies found in two primitive CCs, suggesting that GEMS and GEMS-like materials were formed by condensation probably in different locations of the primitive solar nebula. Cometary dust and the primitive lithologies in CCs may represent samples of the building blocks of Solar system in different locations.

时间：2018年4月12日 上午10:00

地点：地化所标本楼503会议室

中国科学院矿物学与成矿学重点实验室

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