外国人客員所員を経験して

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My Experience at ISSP

I made my first visit to Prof. Mori's Lab, ISSP in September 1997 after attending AIRAPT conference at Kyoto and followed by two year visit under JSPS program (1998-2000) as a Post Doctoral Researcher. The association and collaboration initially with Prof. N. Mori and then followed with Prof. Uwatoko and it continues from 2000- till date. I made several visits to ISSP through Indo-Japan (DST-JSPS) program, DST_JSPS exploratory visit, short term JSPS, COE fellowship and conference visits etc. These visits were helpful for me and my students to learn and improve various experimental skills such as piston-cylinder techniques, cubic press method for transport measurements, modified Bridgman anvil pressure cell and diamond anvil cell for electrical resistivity measurements and uniaxial pressure device for magnetic measurements under the extreme conditions of high pressure, low temperature and high magnetic field. The amazing instrumentation capability and dedication of Prof. Uwatoko at ISSP led to various unique facilities (palm type cubic press, miniature uniaxial pressure cell for magnetic measurements, pressure cell for neutron diffraction and structural measurements etc) to study the structural, transport, magnetic and thermal properties at extreme conditions of high pressure, low temperature and high magnetic field. I can simply say that World of high pressure techniques at the door step of University of Tokyo and realized the same.

My stay at ISSP as a Visiting Professor during August 2016 to November 2016 with my wife had a wonderful and memorable experience in both personal and scientific aspects. Even though I visited ISSP several times in the past and this was the second long visit with my family after 16 years. The aim of my visit to ISSP is to continue my investigation of transport and magnetic properties under hydrostatic of BiS₂ based superconductors and topological semimetals. Further, we continued the magnetic properties of selected inorganic spin ladder system under uniaxial pressure. The ISSP infrastructural experimental facility and fast development of in and around Kashiwanoha campus are enormously changed, and it helps the researchers to spend more time in research rather than other activities. I have visited various countries in the world and stayed for short time and I could find 100 % peace, comfort and safety in Japan than any other country in the world and similar to my feeling of staying in my home country.

I am very much attracted towards the Japanese traditional culture and arts, Japanese calligraphy, sumo wrestling, Pottery and Ceramics, Japanese traditional foods, technology mindset and special kindness. Hence, the collaboration keeps continue to ahead for so long time. My stay at ISSP was more comfortable due to systematic effort and help of Prof. Y. Uwatoko, Shoko Nagasaki san, Akiko Kameda san, Atsuko Yamauchi san, Kento Ishigaki san and Bosen Wang san.

I thank the ISSP and Prof. Y. Uwatoko for the wonderful opportunity given to me.

(S. ARUMUGAM)