

講演会のご案内

グローバルCOEプログラム「構造・機能先進材料デザイン教育研究拠点」の教育研究プログラムの一環として、テネシー大学・オークリッジ国立研究所Distinguished Scientist/ProfessorのTakeshi Egami博士をお招きし、以下の研究の国際化に関する講演会を開催いたします。よろしくご参集ください。特に博士後期課程学生、若手研究者の方の積極的な参加をお願いいたします。

特別講演会

(7/24 (金) 14:00~15:00、材料開発物性記念館2F研修室にて)

Borderless World of Scientific Research: Role of National/International Facilities

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Abstract: Science and technology are inherently borderless, and becoming even more so today because of the advances in transportation and communication. As industries retreat from pre-competitive research because of the pressure by stock-holders, national and international laboratories and facilities are becoming the centers for frontier research and development. In the last 30 years there has been remarkable progress in internationalization of these facilities in most of advanced countries in the west. At these centers national origin is no longer an issue in hiring the staff. The research world is becoming a single, connected body of scientific endeavor. I show the example of the Spallation Neutron Source (SNS) of the Oak Ridge National Laboratory and its potential impact on materials research, and research collaborations nurtured by the Joint Institute for Neutron Sciences. In comparison Asian countries, except for Singapore, are much behind in internationalization. The main reason has been that for some time only Japan had reached the advanced level of scientific research, whereas Japan as a nation has been reluctant to become international. However, the recent rapid rise of China in the scientific level is totally changing the landscape. Including India Asia now has three countries with advanced scientific research capability. Unfortunately currently all three are focusing more on research collaborations with the US and Europe, rather than among themselves. The fault lies in part in international politics. In Europe France and Germany worked hard in '70 to deepen the mutual trust and political alignment. This has not happened in Asia, and mistrust and lack of true communication are rampant. There is no question, however, that the future of Japan depends upon the close collaboration with neighboring Asian countries including Russia, and further internationalization and globalization. I suggest that graduate students take historical, cultural and political ties with countries outside Japan before deciding on the career path of his/her own.

要約: 研究の国際化に関して、米国オークリッジ国立研究所の中性子施設SNSの例を取り上げ紹介する。また、アジア諸国、特に日本における国際化の遅れと、今後望まれることについて述べる。

主催：グローバルCOEプログラム「構造・機能先進材料デザイン教育研究拠点の形成」

Center of Excellence for Advanced Structural and Functional Materials Design (ASFMD)

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Biographical Sketches of Prof. T. Egami



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Dr. Takeshi Egami received his Bachelor's degree in Applied Physics from the University of Tokyo in 1968, and his Ph.D. in Materials Science from the University of Pennsylvania in 1971. After the postdoctoral research at the University of Sussex, U.K. and Max-Planck-Institute in Stuttgart, Germany, he returned to the University of Pennsylvania in 1973 as Assistant Professor. He was promoted to Associate Professor in 1976, to Professor in 1980, and was the Chair of the Department of Materials Science and Engineering (1997 to 2002). He moved to the University of Tennessee and Oak Ridge National Laboratory as UT-ORNL Distinguished Scientist/Professor in 2003. He is also Director of UT-ORNL Joint Institute for Neutron Sciences (JINS). He received 2003 B. E. Warren Award for Diffraction Physics (American Crystallography Association) and other awards, and is Fellow of the American Physical Society. Dr. Egami has published 1 book, about 20 full reviews and over 400 technical papers. He gave over 220 invited technical presentations at national and international conferences, in addition to numerous seminars.