

## グローバルCOE講演会報告書

大学院理学研究科 三木邦夫

研究集会名 : Efim Gluskin 博士講演会 (グローバルCOE講演会)

講演者 : Dr. Efim Gluskin (Advanced Photon Source at Argonne National Laboratory Argonne, Illinois, USA)

場 所: 理学研究科6号館571会議室

日 時: 2010年2月24日 (水) 11:00 - 13:00

参加者: 化学専攻大学院学生, 学部生, 博士研究員, 教員 (約20名)

演題 : X-Ray and Accelerator Science at the APS: Several Specific Topics

Dr. Efim Gluskin, Director of the Argonne Accelerator Systems Division (ASD) in Photon Sciences is named an Argonne Distinguished Fellow, Argonne's highest scientific and engineering rank. Dr. Gluskin is known as a worldwide leader in the synchrotron radiation and accelerator communities for his contribution to the development and utilization of insertion devices, which produce x-rays by undulating accelerated electron beams. His talk here is summarized in his own abstract as follows: Advanced Photon Source (APS) at Argonne National Laboratory is one of the brightest X-ray synchrotron facilities in the world and provides research opportunities for thousands of scientists and engineers. It operates with record high reliability and delivers X-ray beams with record stability to 60 independently operational beamlines. Research at the APS beamlines covers a multitude of scientific fields and engineering applications, with a particular strength in biological research areas such as structural studies and high-resolution imaging. Novel experimental techniques enable nanoscale resolution or time-resolved imaging with hard X-rays. The APS is constantly improving the quality of its X-ray sources and expanding its expertise and capabilities with an eye toward the next generation of X-ray sources.

