

# Academy for Global Nuclear Safety and Security Agent

Masaki Saito

Professor Emeritus and Former Director,  
Academy for Global Nuclear Safety and Security,  
Tokyo Institute of Technology,  
2-12-1 O-Okayama, Meguro-ku, Tokyo 152-8550, Japan  
E-mail: saito.masaki@nr.titech.ac.jp

## ABSTRACT

Nuclear 3S (**Safety, Security and Safeguards (Non-proliferation)**) are serious global issues of common concern. Based on lessons learned from the International Terrorism in New York on September 11, 2001 and the Accidents of Fukushima Daiichi Nuclear Power Plant on March 11, 2011, new creative ideas in the research and educational programs are necessary in order to promote the global peaceful use of nuclear energy for sustainable prosperity in the world in future.

Based on these global circumstances, Tokyo Institute of Technology established a “**Academy for Global Nuclear Safety and Security Agent**” initiated with the unique features of a curriculum that combines the education in nuclear science/engineering and liberal arts, which is supported by Ministry of Education, Culture, Sports, Science and Technology, Japan in 2011.

The students selected to enter the “**Academy for Global Nuclear Safety and Security Agent**” have to stay in a dormitory (DOJO) with other students and the supervisors (DOJO Masters). In this way, they have the opportunities to discuss various global non-nuclear issues without the solutions and to learn from each other in the DOJO. DOJO Students have to study the compulsory subjects shown below in addition to Master and Doctor Theses.

- ① Basic and Specific Subjects in Nuclear Science and Engineering
- ② Social/Risk Communication

- ③ Nuclear Safety/Security Practical Training
  - Fieldwork in measuring environmental radiation in Fukushima area
  - Simulations of severe nuclear reactor accidents
  - Numerical simulation of the behavior of radioactive material in the environment
  - Nuclear security training
- ④ International Liberal Arts
  - International politics, international law, economy, history, philosophy, art, culture, English and French
- ⑤ Internship
  - Domestic internship (3 ~ 6 months)
  - Overseas internship (6 months ~ one year)
- ⑥ Volunteer activities
- ⑦ Nuclear DOJO

Based on the above unique educational program and the life in the DOJO, we hope students will become **Global Leaders with high competence in technology and mindfulness of social duties in the field of 3S.**