

Kanazawa University

Research advisor / Graduate School of Medical Science,

Professor HAYAKAWA Kazuichi

Former international student / Dr. Yang Xiaoyang (China)

◆Profile (Former international student)◆

Nationality: china

Educational Background in Japan:

April 2003 – March 2005: Graduate School of Science and Technology,
Niigata University (Master)

April 2005 – March 2008: Graduate School of Natural Science and Technology,
Kanazawa University (Doctor)

Present Institution / Status:

Chinese Research Association for Environmental Research / Researcher



With Prof.J.- M.Lin After Lecture
for Graduate Students at Tsinghua
University

◆Follow-up Research Fellowship◆

Period: July 26, 2009 – August 2, 2009 (8 days)

Institution: Chinese Research Association for Environmental Research

Field of Research Guidance: Environmental Health Chemistry

◆Research advisor's Impressions for the former International student while studying in Japan◆

Dr. Xiaoyang Yang went to the Graduate School doctor's course (Division of Environmental Science and Engineering) of Natural Science and Technology, Kanazawa University from the master's course of Niigata University and joined my Laboratory (Hygienic Chemistry of Faculty of Pharmaceutical Sciences). His doctor research topic was a study on the atmospheric environment of East Asia. Although it was the first time for him to study on the environmental science, he worked hard with his rich knowledge in organic chemistry. As a result, he found several important facts concerning the long-range transport of polycyclic aromatic hydrocarbons and published three reports in international journals.

He was good not only at Japanese but also at English. In addition, he participated in the English conversation training class of the 21st century COE academic activity to brush up his English. Moreover, I remembered that he kept good communications with Japanese students in my laboratory. Both language ability and communication skill might be useful very much for his academic activity in future.

He received several scholarships such as the Japanese government scholarship and the Yoneyama scholarship during his doctor course period and was employed as a postdoctoral fellow of the Kanazawa University venture business laboratory. He has not forgotten appreciation to them.

◆Communication after studying in Japan◆

1) Autumn, 2008 – Spring, 2009: After he returned back to China, the laboratory member including mi contacted

with him with e-mail. Especially, he made his effort to submit reports concerning research results obtained in Japan after he returned home. This effort published one report in the international English journal.

Unfortunately, the physical condition of the leader of his laboratory of CRAES had been destroyed immediately after his coming back to China and took several months for his adoption by CRAES. During these days, he gave me the information by e-mail.

2) June 29 – July 3, 2009: Two associate professors and one graduate student of my laboratory visited China for the international joint research. At that time, they met Dr. Xiaoyang Yang in Beijing and knew that he became the full-time researcher of CRAES. They made a preliminary conference on our joint research in the future.

3) July 26 – August 2, 2009: I visited Dr. Xiaoyang Yang in CRAES with the financial support of the program.

◆Further Cooperation and Communication◆

The research projects of Dr. Xiaoyang Yang's laboratory of CRAES were very close to those of my laboratory (Hygienic Chemistry). Therefore, four joint researches were proposed from each side, and it came to be going to continue conferring aiming at the achievement in the future.

- 1) Atmospheric behaviors of PAH and NPAH in Beijing (Proposed by Kanazawa Univ.)
- 2) Long-range transported chemicals (Proposed by Kanazawa Univ.)
- 3) Secondary reaction of PAH and NPAH in the atmosphere using a smog chamber (Proposed by Kanazawa Univ.)
- 4) Health effects of exhausts from several combustion systems (Proposed by CRAES)

◆Further Cooperation between institutions◆

By the aid of Dr. Xiaoyang Yang, I delivered my lecture in Department of Chemistry, Tsinghua University beside CRAES and to discuss with young researchers and graduate students in three institutes including All-China Environmental Federation, Ministry of Environmental Protection of China. Kanazawa University is campaigning to increase the numbers of international students. These lecture and meeting were very good opportunities in the campaign of Kanazawa University to increase the numbers of international students.

The title of my lecture was "Polycyclic Aromatic Hydrocarbons (PAHs) and Nitropolycyclic Aromatic Hydrocarbons (NPAHs) as Environmental Pollutants in East Asia" related to the environmental problem in East Asia. Although the talk was on the problem of large amount of generation of chemical pollutants and long-range transport from China which was very sensitive politically, the audience showed a high concern for PAH and NPAH as the environmental pollutant and looked to understand the necessity of the international collaboration and the height of the research level of our research.

In the discussion with young researchers (including graduate students) after lectures, there were a lot of questions concerning going to study abroad to Japanese universities, suggesting strongly that it was necessary to promote the exchange with the university in our country including Kanazawa University in not only the research cooperation mentioned above but also in the education of studying abroad.

After returned back to Japan, I immediately reported on this visiting China to offices and teachers relating to this matter. We concluded to find the practical way to increase the numbers of international students in Kanazawa University.

◆Impression of this program by Former International student◆

私は「帰国外国人留学生研究指導事業」のご支援を心から感謝申し上げます。現在、世界各国の経済の急速な発展に伴い環境科学領域の研究は国際的な連携は不可欠になりました。そのうち、国際的な橋掛けを担当することができる研究者は一層需要になるでしょう。私は日本に留学していた時には常に「将来は日中両国の間に橋掛ける人物になりたい」と言っていました。帰国してからようやく「橋掛ける人物」の意味を深く感じました。特に日本で環境科学を勉強した私は責任感及び使命感も感じています。今回は本事業により日中両国の環境研究期間を繋ぐことができ、これからは益々の発展を期待することができるし、私も今回の機会に基づいてこれから本番の「橋掛ける人物」として国際的な環境科学研究分野で活躍して行きたいと思えます。



Lecture for Researchers at CRAES (No.1)



Lecture for Researchers at CRAES (No.2)



Discussion at Ministry of Environmental Protection of the P. R. C. All-China Environment Federation