



**Dr. Junshi Miyamoto, President of the IUPAC Division of Chemistry and the Environment**

He indicated that many problems in food production and preparation are microbiological, yet despite this reason it is the chemicals in food, many of which are added to prevent microbiological problems, that cause consumer anxiety and hence increase regulation. Professor Berry presented several examples highlighting how the pesticide industry is affected by health concerns that are in many cases illogical when compared to other normal household activities. In summing up, Professor Berry reminded the audience that regulation clearly does increase safety, but it does not in itself generate safety. All regulations should be formulated using a risk-benefit analysis.

The Congress itself revolved around eight main topics representing all the phases of pesticides invention through registration. Each of the main topics comprised four or five plenary lectures supported by five related poster sessions each with an associated workshop. The main topics were:

1. Synthesis and Structure Activity Relationships
2. Delivery
3. Natural Products
4. Mode of Action
5. Metabolism
6. Environmental Fate
7. Residues in Food and the Environment
8. Regulation and Risk Assessment

The plenary lectures were given by leading authorities in the individual subject areas and chosen to provide new insights and to provoke discussion that could be further taken up in the poster sessions and workshops.

Over 1,000 posters were presented at the Congress and, combined with subsequent workshops, provided a forum for scientific debate.

This event is a highlight in the Pesticide Chemistry

diary, bringing together practitioners from a wide range of disciplines and facilitating both broad-based and specific discussions.

The next Congress, the 10<sup>th</sup>, will be held in Basel Switzerland in August 2002, and will be organized by the New Swiss Chemical Society and the Swiss Society of Chemical Industries. The theme of the Congress will be "Innovative Solutions for Healthy Crops".

**M. Skidmore**

**Commission of Agrochemicals and the Environment VI.4.**

## Special Panel Discussion Session at the 9th International Congress of Pesticide Chemistry

### The Role of Publicly Funded Research in the Risk Assessment and Registration of Pesticides

The 9th Congress offered an opportunity for university and government pesticide scientists from around the world to compare experiences of their funding situations, in a special session organized while the Congress was in progress. Organizers informally asked nine scientists from seven countries to address the questions:

- Is there a real decline in publicly supported research on conventional pesticides? In what areas?
- What is the purpose and justification for publicly supported research on conventional pesticides?

The resulting discussion and audience response indicate that nonindustry research on commercial pesticide behavior and fate in the environment is declining worldwide, and that the decline is reaching levels that endanger the credibility of the risk assessment process "social contract."

Scientists from the United States, Canada, Hungary, Egypt, and Israel (invitees from Germany and the UK were unable to attend the session) described how declining numbers of pesticide scientists in the public sector are making it more and more difficult to achieve adequate peer review of the science presented by industry in support of registrations of pesticides. Redirection of scientists to alternative pest control research, a general public aversion to the word "pesticide" and a widely held but erroneous belief that commercial pesticides will shortly be replaced by alternatives has resulted in budget cuts, declining student enrollments, and nonreplacement of retiring scientists. Several scientists described how fundamental research on pesticide environmental impact (with the exception of endocrine disruption) is having to be "bootlegged". Yet such fundamental research is needed to improve the

risk assessment of pesticides.

"Science is a public process," said one of the organizers. "The risk of pesticides must be determined by the best science available, but the process is increasingly being done in-house by the industry, with review only under "proprietary data" rules by regulatory agencies that are short-handed and desperate for third-party reviewers of the process. When there were many smaller pesticide companies, many of them depended on university and agency scientists to help them with their research. That is becoming rare, leading to a situation where the nonindustry scientists able to peer-review the industry's research are disappearing."

The IUPAC Commission on Agrochemicals and the Environment has begun a study of the problem, entitled "Trends in research on agrochemicals: do we have the critical mass of open science (publication) needed to both advance the basic science of crop protection and to protect the public and the environment?" Commission members from nine countries have agreed to report on how their countries are dealing with this issue.

Scientists involved in pesticide regulation and risk analysis are invited to communicate their perspectives and comments to the Project Chairman, R. Don Wauchope, USDA-Agricultural Research Service, P.O. 746, Tifton, GA 31794 USA or via e-mail at don@tifton.cpes.peachnet.edu.

### The 9<sup>th</sup> International Symposium on Novel Aromatic Compounds (ISNA-9) 2–7 August 1998, Hong Kong

The chemistry department of the Chinese University of Hong Kong (CUHK) hosted the 9<sup>th</sup> International Symposium on Novel Aromatic Compounds (ISNA-9), 2–7 August 1998, at the Hong Kong Convention and Exhibition Center in Wanchai, Hong Kong. ISNA-9 was organized under the joint auspices of the Hong Kong Institution of Science and the Hong Kong Chemical Society.

Aromatic compounds are those compounds that, owing to particular arrangements of their p-electrons, possess unusual chemical, physical, and biological properties. The wide spectrum of aromatic compounds today ranges from high potency pharmaceuticals to high-tech materials with special electronic, optical, and magnetic responses. Some of these materials even mimic the functions of enzymes in biological systems.

The Symposium is the first international conference held in Hong Kong sponsored by the International Union of Pure and Applied Chemistry (IUPAC), with the aim to promote fellowship and to enhance communication and professional contact among chemists actively involved in the study of novel aromatic

compounds. The international conference is also one of the programs celebrating CUHK's 35<sup>th</sup> anniversary in 1998. This event attracted over 250 participants, of which over 200 were from overseas.

The ISNA-9 Opening Ceremony was held on 3 August 1998. Officiating was Professor Arthur K. C. Li, Vice Chancellor of CUHK. Professor Cun-Hao Zhang, Chairman of the National Natural Science Foundation of China and Official Representative of IUPAC, gave the congratulatory speech on behalf of Professor Joshua Jortner, President of IUPAC.

On 4 April 1996, Professor Tetsuo Nozoe departed this life just a month before his 94<sup>th</sup> birthday. His death marked the end of an era of organic chemistry, not simply in Japan, but worldwide among the community of ISNA chemists. His involvement with, and commitment to, the ISNA movement is legendary. Professor Nozoe was the Founding Chairman of ISNA at the age of 68, and the inaugural meeting took place in Sendai, Japan, 24–28 August 1970. Because of his stature within the ISNA family, the passing of this legendary figure is to be marked by an ISNA Nozoe Memorial Lecture. Professor Lawrence T. Scott of Boston College, a renowned scholar in the field of novel aromatic compounds, was chosen by an International Selection Panel comprising Professors Sho Ito, Ichiro Murata, Toyonobu Asao, Ron Breslow, Klaus Hafner, Emanuel Vogel, and Brian Halton to deliver the first Nozoe Memorial Lecture entitled "Geodesic Polyarenes with Exposed Concave Surfaces" on 3 August 1998.

Besides the Nozoe Memorial Lecture, there were also 12 plenary lectures, 25 invited lectures and poster sessions with over 150 posters given by leading professional chemists the world over. Some of the most notable plenary lectures were: Professor Hiizu Iwamura discussed his molecular approaches towards photomagnetic materials; Professor Hisashi Yamamoto spoke on selective organic synthesis, making use of his designer Lewis acids; Professor Fritz Voegile told the audience about the chemistry of topological chirality; Professor François Diederich disclosed his preparation of functional conjugated materials for optonics and electronics; Professor Klaus Müllen showed how he made two- and three-dimensional nanoparticles from benzene. In addition to several ISNA veterans, such as Professors Brian Halton, Koichi Komatsu, Reg Mitchell, Fritz Bickelhaupt, Modcai Rabinovitz, and Heinz Staab, some rising stars of the ISNA family, such as Professors Mike Haley, Peter Timmerman, Yves Rubin, and Tim Swager, also summarized their recent research findings in invited lectures.

**H. N. C. Wong**  
**C-H. Zhang**