

## Reports from NRs

### Masahiro Kamata Japan

We have just established the special committee for IYC activities whose chairman is the Prof. Noyori, Nobel laureate. Although the concrete plans have not been discussed yet, following activities will be one of them.

- Exhibition of historical scientists (Japanese chemists) in National Museum of Nature and Science in Tokyo.
- Special version of science festival (Dream & Chemistry 21)
- Development of new permanent exhibits for science museums which illustrates the value and interest of chemistry.  
(I will take part in this activity)

> 2) one idea for a new project that CCE might initiate next year  
> - with a couple of sentences describing the idea. This will help  
> to guide our work in break-out sessions in Taipei, where we seek  
> to support and implement the existing IYC projects that IUPAC is  
> carrying out, and also initiate new projects for 2011.

Several months ago Prof. Ito proposed the "Element calendar", which is shown in the attached file. Since the number of days in a year is nearly three times as many as that of elements, every element can be assigned to three different days.

My personal idea is Chemistry Certification mainly for secondary school students. In Japan, many kinds of "Certifications" are now very popular among young people. Some of them are;  
TOEIC (Test of English for International Communication)  
Kanken (Test of KANJI (Chinese characters))  
Kyoto Kankoukentei (Test of Culture and Sightseeing in Kyoto)  
So, I am wondering if we can make up something like TOEIC so that many young students can participate from all over the world.

## South African Initiatives for IYC2011

The South African IYC Committee has representation from the Chemical and Allied Industries Association, the Department of Science and Technology, the South African Chemical Institute, the South African Institute of Chemical Engineers, the Royal Society of Chemistry, the National Research Foundation, SASOL and the Universities of Pretoria and the Witwatersrand (through RADMASTE Centre).

1. **Promotion of IYC**

IYC was promoted at a Plenary Meeting of the National Science and Technology Forum on 3 May 2010 and this was well received.

2. **Publicity**

**Quest Magazine**

*History of Chemistry in South Africa.*

The following publications are planned:

- The adaptation of the Fischer-Tropsch process.
- A general overview of the history of chemistry in South Africa.
- An article on natural products in South Africa.

**South African Journal of Science**

A number of eminent chemists had been contacted to submit research articles to the journal to appear in an early issue in 2011.

**National Science Festivals**

IYC banners and flyers will be used at National Science Festivals.

**Commemorative Stamp**

Since a commemorative stamp will not be feasible, the possibility of developing a die for a franking machine is explored.

3. **Conferences**

IYC will be promoted at all of the following:

SACI Conference, ICFPAM Conference, SAASTECH, CODATA General Assembly, Catalysis Society, Expo for Young Scientists and Chemists.

4. **Other**

- Science Shows
- Sasol Techknow X
- Grahamstown Sci-Fest
- Science Unlimited
- Participation in the Global Experiment
- TV/Radio interviews/demonstrations

5. **Awards**

The committee recommends recognising women in chemistry as part of the NSTF awards in 2011.

**German IYC Activities (reported by NR Christiane Reiners and based on the minutes of the GDCh committee preparing IYC)**

1. The National Opening Ceremony will be on 9<sup>th</sup> February 2011 in Berlin with Chancellor, Angela Merkel. 2.000 - 3.000 invitations will be issued. There will be a press conference with representatives of industry, science and unions. Furthermore interviews and competitions (Formula One) are planned.
2. An Open Day involving chemical industry, universities and research institutions is planned to take place at 24<sup>th</sup> September.
3. Two new books will be published in 2011: "Women in Chemistry" and "Chemistry in the Atmosphere".
4. A flyer for IYC is being prepared in order to distribute all over the country.
5. A German IYC 2011-website will be online in July ([www.iyc2011.de](http://www.iyc2011.de)).
6. The DFG (German Research Foundation) will publish a special volume on the issue "Research Chemistry".
7. The working group "Schoolmentoring" is planning a global experiment about water, recouring on the BASF interactive laboratories.
8. Last but not least there are many decentralized activities planned at the universities all over the country.

## The International Year of Chemistry 2011 - the Countdown Continues!

In 2005, physicists celebrated the International Year of Physics.

In 2009, astronomers celebrated the International Year of Astronomy.

***And now, chemists around the world are preparing for the International Year of Chemistry (IYC) in 2011.***

***Are you ready to join the celebration?***

### About IYC 2011

The International Year of Chemistry 2011 is a United Nations designated worldwide celebration of the achievements of chemistry and its contributions to the well-being of humankind. The IYC 2011 initiative is being led by the International Union of Pure and Applied Chemistry (IUPAC) and the United Nations Educational, Scientific and Cultural Organization (UNESCO).

IYC 2011 will offer a range of interactive, entertaining, and educational activities for all ages across the globe aligned with the following objectives:

- Increase the public appreciation of chemistry in meeting world needs
- Increase interest of young people in chemistry
- Generate enthusiasm for the creative future of chemistry
- Celebrate the 100th anniversary of the Mme. Marie Curie Nobel Prize

### ACS Celebrates IYC 2011

In order to take full advantage of this historic, once in a lifetime opportunity, ACS will celebrate IYC 2011 using a three pronged approach.

#### *Engaging Communities*

To support the work of its local sections during 2011, the ACS Office of Volunteer Support and the Committee on Community Activities ACS will launch a year full of activities and resources linked to four quarterly themes: environment, energy, materials, and health. National unifying events will coincide with National Chemistry Week and Chemists Celebrate Earth Day. Additionally, innovation grants will be available for local sections, student chapters, and high school chemistry clubs to conduct IYC-related programming.

Toolkits with ideas and templates for planning additional activities to engage various communities will be available at [www.acs.org/iyc2011](http://www.acs.org/iyc2011).

Programming at National and Regional Meetings will also reflect IYC objectives and themes. A Challenge Grant competition was held in early 2010 in which ACS Technical Divisions applied for support for symposia at the July 2011 IUPAC World Congress in San Juan, Puerto Rico.

#### *Building Bridges*

### **3 Ways to get involved with IYC...Now!**

1. ***If Chemistry is everywhere....Prove It!***  
Nominate an "everyday" chemistry topic (elements, discoveries, processes, people, etc.) to be highlighted through **365: Chemistry for Life** during IYC 2011 at [www.acs.org/iycsurvey](http://www.acs.org/iycsurvey). Submit a suggestion individually or as a group!
2. ***Spread the Word:*** Get the word out about IYC 2011 through your everyday interactions and through participation in local section events such as NCW 2010.
3. ***Plan and Tag for IYC:*** Decide how you want to celebrate IYC 2011 and let us know at [iyc2011@acs.org](mailto:iyc2011@acs.org)!

## CCE2010\_011.1

ACS, in collaboration with Chemical Heritage Foundation (CHF) & the American Institute of Chemical Engineers (AIChE), will launch a multi-day IYC 2011 event during February 2011. Partnerships with the National Academies of Science, various U.S. government agencies, and sister societies worldwide are also underway.

### *Delivering the Message*

365: Chemistry for Life will be launched online on January 1, 2011. This web-based initiative is designed to highlight a different topic (person, place, molecule, element, etc...) in every day. Individuals, local sections, technical divisions, student chapters – everyone is asked to nominate an “everyday” chemistry topic (elements, discoveries, processes, people, etc.) to be highlighted through **365: Chemistry for Life** during IYC 2011 at [www.acs.org/iycsurvey](http://www.acs.org/iycsurvey).

Additionally, the ACS Network and ACS publications such as our journals and *Chemical and Engineering News* will also be utilized to share IYC 2011 and its messages. Technology-enabled mechanisms such as mobile platforms for delivery, podcasts, and video will also be utilized for dissemination of the IYC 2011 message.

### **IYC 2011 and You**

IYC 2011 will provide ACS and the worldwide chemistry community with a historic opportunity to celebrate the many ways that chemistry improves people’s lives. We need you to join the effort!

How will you engage your local community in celebrating IYC?  
What bridges might you build during 2011?  
How will you deliver the IYC message?

There are many answers to these questions. The difficulty may lie in choosing which answers – and activities – to pursue!

Whatever you decide, we look forward to celebrating with you – in whatever way you choose!

For more information, visit: [www.acs.org/iyc2011](http://www.acs.org/iyc2011) or email [iyc2011@acs.org](mailto:iyc2011@acs.org).

## IYC in China

Motto: Chemistry advances social developments — IYC in China

“IYC in China” will be coordinated by CAST (China Association of Science and Technology). It will be a unique opportunity to promote chemistry in China. A committee is formed and led by the Chinese Chemical Society. The planned activities include:

### I. National Leadership

- (i) Prefaces and epigraph by state leaders at the President and Premier Minister levels;
- (ii) Messages to the public from the President of the Chinese Chemical Society;
- (iii) Messages from the leading scientists to the public;
- (iv) Arrangements of official meets between state leaders with famous chemists worldwide, including Nobel Laureates;

### II. Propaganda

- (i) Posters, Bulletins, postcards, post-stamps theming IYC;
- (ii) TV film featuring chemistry in our daily life;
- (iii) “IYC in China” website and internet network for chemists;

### III. IYC inaugural ceremony and news release

“IYC in China” inauguration ceremony, immediately after UNESCO’s inauguration.

Venue: People’s Hall (Parliament Hall)

Organizer: CAST

Attendants: State leaders, CAST, cabinet ministers, Chinese Academy of Sciences, Chinese Academy of Engineering, State Bureau of Environment Protection, National Science Foundation of China, officers from Industry-University- and Research Institutions, as well as scientists and engineers. About 500 people.

### IV. Open Gate Day for publics

Dates to be determined. Research institutions, chemistry departments, and R&D centers of chemical industries, coordinated by Chinese Chemical Society, preparation of demonstration of importance of chemistry for our society and our daily life.

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### V. Conferences and forums

- (i) All the conferences sponsored by Chinese Chemical Society will be named as “IYV in China --- xxx conference”;
- (ii) Co-organizing “Chemical Sciences in Society Symposium – Chemistry for a better environment”, September 2011, Beijing, together with ACS, GDCh, RSC, and CSJ.
- (iii) Symposium commemorating Madame Curie for her 100<sup>th</sup> anniversary of Nobel Prize in Chemistry, coordinated by Inorganic Chemistry Committee and Nuclear Chemistry and Radiative Chemistry Division;
- (iv) honoring female chemists, preparing formation of “Women chemists” Committee in Chinese Chemical Society;
- (v) Organizing Asian-Pacific forum on “sustainable chemistry”;
- (vi) Great China area symposium on sustainability of chemistry;

### VI. Popularization of chemistry

Themes: (i) Contributions of chemistry to the social developments and human life quality improvements; (ii) Science spirit and ethical morality of Madame Curie; (iii) Standpoint of scientific developments.

Activities: (i) IYC chemistry exhibitions in Science Museums all over China to introduce the basics of Chemistry; (ii) Chemists’ Forums in communities and campuses; (iii) Featuring chemistry in the “National Science Popularization Week”, ‘National Science Popularization Day’, etc, working closely with local governments in many cities; (iv) Contest of Chemistry Basic Knowledge in internet and mass media; (v) collecting and recruiting “Chemistry Puzzles – ‘unbeatable chemists’ ” nationwide.

### VII. Publications

- (i) IYC commemoration series of Chemistry Popularization, coordinated by Chinese Chemical Society, featuring readability and broad interest;
- (ii) Editing and publishing Proceedings of “Hundred years of chemistry in China” collecting tutorial reviews of milestones of chemistry and chemical engineering in the past 100 years;
- (iii) Publishing “Chemistry 100 Years – Contributions to human life” colored pictorial book;
- (iv) Call with awards for essays contest on “Chemistry and Me”.

### VIII. Participation of UNESCO/IUPAC IYC activity

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Delegation to Paris for the inaugural ceremony of IYC, and delivering a speech on “Role of Chemistry in driving Chinese Culture in the past thousands years”, as well as other IUPAC activities.



### Educational Activities for the IYC (Russian Federation, 2011)

- D. Mendeleev Congress dedicated to the IYC (October 2011, Volgograd) with a section dedicated to the innovations in chemical education;
- Regional educational fora “ Chemistry-our lives, our future” to be organized by the regional divisions of Mendeleev Chemical Society
- All-Russia Congress of the school chemistry teachers, dedicated to the 300th anniversary of M. Lomonosov birthday;
- Competition for the best “anti-chemophobia” publication in the mass-media;
- Educational section “Chemistry-our life, our future” at the Moscow International Exposition “Chemistry 2011”;
- Educational domain of the mirror site chemistry2011.ru;
- Participation of the Russian schoolchildren in the IUPAC global water experiment;
- Competition of the children’s drawings and essays “How chemistry entered my life”;
- Museums activities (expositions and open lectures) “Chemistry-our life, our future”;
- Mobile art-exposition “Chemistry is life”;
- International conference “Role of Women in Chemistry Education and Science” (Moscow State University, 16-18 June 2011);
- All-Russia School Chemistry Olympiad”, final - 23-30 of March 2011, Arhahgelsk;
- 45 International Mendeleev Chemistry Olympiad for the schoolchildren of CIS, Baltic States, Romania, Bulgaria and Macedonia, 24-31 of April, 2011, Moscow;
- All-Russia School Chemistry Teachers Summit, dedicated to the IYC and the 300<sup>th</sup> M.Lomonosov birthday (July 2011).