

**IUPAC State of the Union
2006 and 2007
Council, Torino
August, 2007**

Outline

- Streamlining
- Roundtables
- Project System
 - Examples
- Color Books
- Operational Standing Committees

Outline

(Cont)

- Malta Conferences
- Prizes
- International Chemistry Olympiad
- EuCheMS
- ICSU

Streamlining

- Revision of IUPAC structures to streamline IUPAC governance.
 - Last two GAs... Make IUPAC operations more efficient.
- Ad hoc committee
- Item 8 on the agenda.
- Already in place.
 - Changes in the conduct of Council
 - Deal more expeditiously with routine matters
 - Free time for Council to think strategically
 - Engage in matters importance to the Union

Roundtables

- Allow members to get their issues “on the table.”
- Series of round table discussions in Torino.
- Council delegates to discuss subjects of mutual interest
- Occurred... reports in the latter part of the Council meeting

Project System

- 1000 scientists worldwide
- Reports of the Division Presidents and Standing Committee Chairs, key information about IUPAC activities
- VPCA: overview of the project system, second biennium, overwhelming success.
- Significant increase in project commitments 2000-01 to present.
- Evaluation Committee
 - meeting our strategic goals and is delivering value
 - modest investment has been worthwhile and indicates success

Project Examples

- ThermoML standard
 - thermochemical and physical property data
- International Chemical Identifier
 - chemical structures, machine-readable format
- Atmospheric reference database
 - 6500 hits per week
- *Analogue Based Drug Discovery*
- Analytical capacity building in Africa

Project Examples (Continued)

- Stability Constants Database
- Revision of Standard Atomic Weights
- Workshops on crop protection chemistry in Asia and Latin America
- IUPAC-UNESCO-UNIDO safety training program
- Harmonization of Quality Assurance
- *International Vocabulary of Basic and General Terms in Metrology (VIM)*

Color Books

- 2005...*Red*revision of Inorganic Nomenclature
newly discovered classes of compounds
agreement between organic and inorganic approaches
- 2006... *Gold*online version available in XML format
enhances searchability
- 2007...*Green*extensive revision
units and revised values for universal scientific constants.
- 2008...*Blue*..... .growth in size and scope
preferred names for organic compounds.
- 2008...*Purple*.... guide to polymer terminology.

Operational Standing Committees

- COCI
 - safety training program,
 - increase the number of Company Associates
 - WCLM.

Operational Standing Committees

➤ CCE

- public appreciation of Chemistry
- Torino Congress - Roald Hoffmann's play "Should've"
- International Year of Chemistry
 - UNESCO/UN General Assembly approval of 2011 as IYOC

Operational Standing Committees

➤ CHEMRAWN

- sponsor conferences/reports on issues of global importance.
- Analyze effects of CHEMRAWN conferences since 1978

Malta Conferences

- Foster communication among individual chemists and scientific organizations
- IUPAC Malta III Conference
 - *Frontiers of Chemical Scientific Research and Education in Middle Eastern Countries*
 - IUPAC Principal Sponsor for Malta III; cosponsors ACS, RSC, and GDCh
 - Participants include most Middle Eastern countries including Palestine and Israel

Malta Conferences (cont.)

➤ Goals:

- develop working relationships and cooperative programs
- dissemination and exchange of scientific knowledge by Middle Eastern scientists
- aid the economic development of each participating country
- address problems associated with local and global environments
- add to Middle Eastern material prosperity

Prizes etc

- Thieme-IUPAC Prize...synthetic organic chemistry
- One endowment increased and a new prize introduced
 - Samsung donated USD 25 000 to the IUPAC Polymer Division
 - added to the Samsung Total Petrochemical Company Endowment (USD 125 000)
 - supports excellent researchers and students in polymer science.
- Richter Pharmaceuticals, Ltd. donation establishes the IUPAC-Richter Prize in Medicinal Chemistry

Prizes etc

- Memorandum of Understanding Between IUPAC and Fachinformationzentrum Chemie - Berlin
 - provides web-based services to IUPAC bodies through the IUPAC website.

International Chemistry Olympiad

- Students in their final year of high school
- July 2006
 - spoke about IUPAC at their closing ceremonies
 - presented IUPAC Gold Books to the 28 gold medalists
- Memorandum of Understanding Between IUPAC and the International Chemistry Olympiad
 - IUPAC becomes a permanent sponsor of this event
 - Direct involvement

EuCheMS

- Nurture relationships with organizations whose aims and activities are in harmony with those of the Union.
- European Association for Chemical and Molecular Sciences
- Opening ceremonies of their 1st European Chemical Congress.
- 2 000 conferees.... the breadth of IUPAC activities

ICSU

- International Council for Science founded in 1931
 - IUPAC an original member
- Maximize IUPAC global opportunities
 - work more closely with ICSU
- ICSU strategic planning process
- Nominating members for ICSU bodies
 - Chair of CCE: member of the ICSU committee on Freedom and Responsibility in the Conduct of Science
- Participated in a committee to revise the ICSU dues structure

ICSU

(cont.)

- At their General Assembly in October 2005 GA elected as a Scientific Union member of the ICSU Executive for three years
- ICSU has recently opened regional offices
 - Africa, Asia and the Pacific, and Latin America and the Caribbean.
 - IUPAC participation at all three sites: Pretoria, Kuala Lumpur and Panama
 - Extend IUPAC programs in these areas