

# IUPAC



*Serving the Chemistry Community  
Worldwide*

Poster presented at the  
IUPAC Congress/General Assembly  
*July 2001*

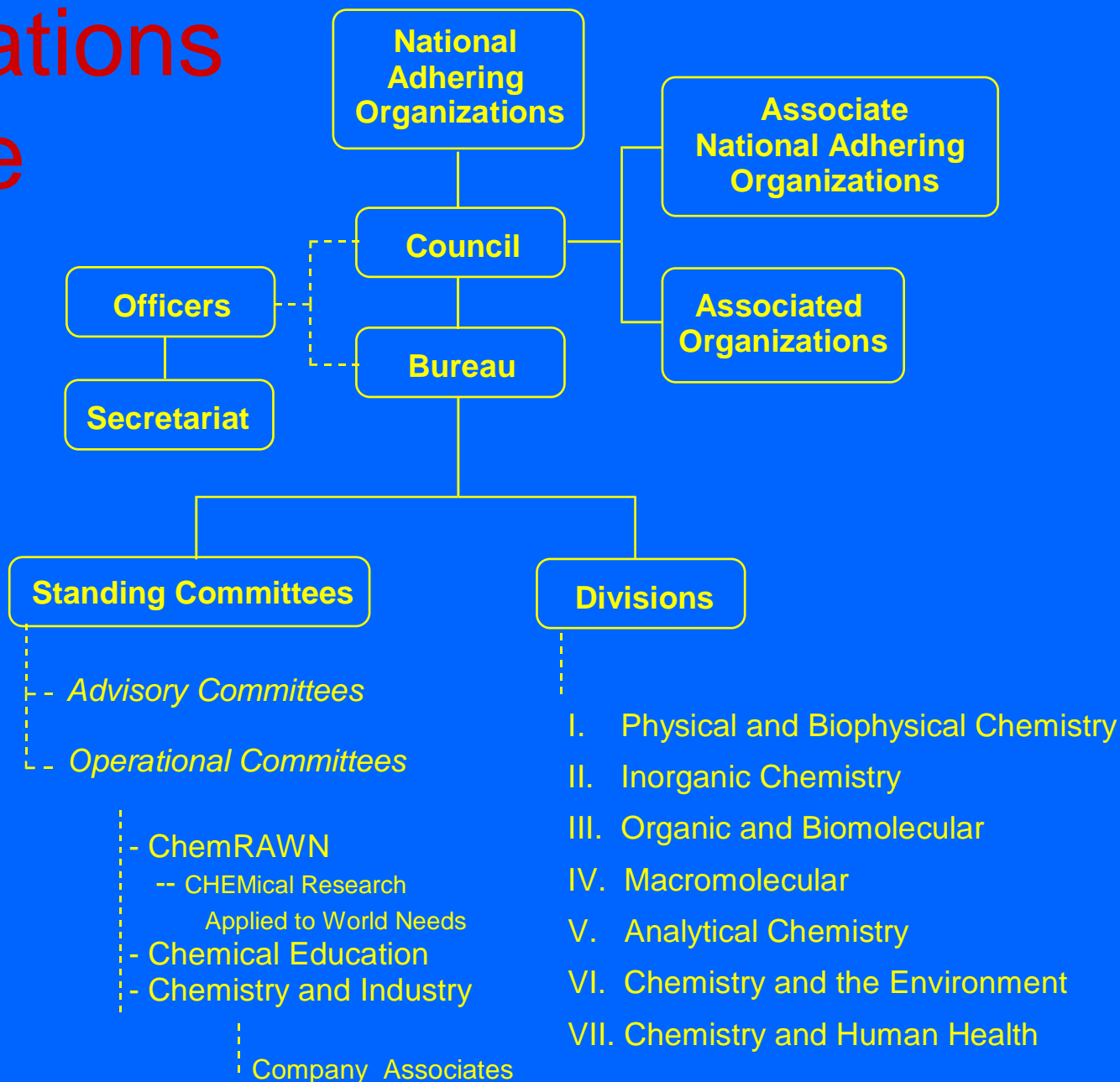
# The International Union of Pure and Applied Chemistry (IUPAC)

**IUPAC 's mission** is to advance the worldwide aspects of the chemical sciences\* and to contribute to the application of chemistry in the service of Mankind. In so doing, IUPAC promotes the **norms, values, standards**, and **ethics** of science and advocates the **free exchange** of scientific information and unimpeded access of scientists to participation in activities related to the chemical sciences.

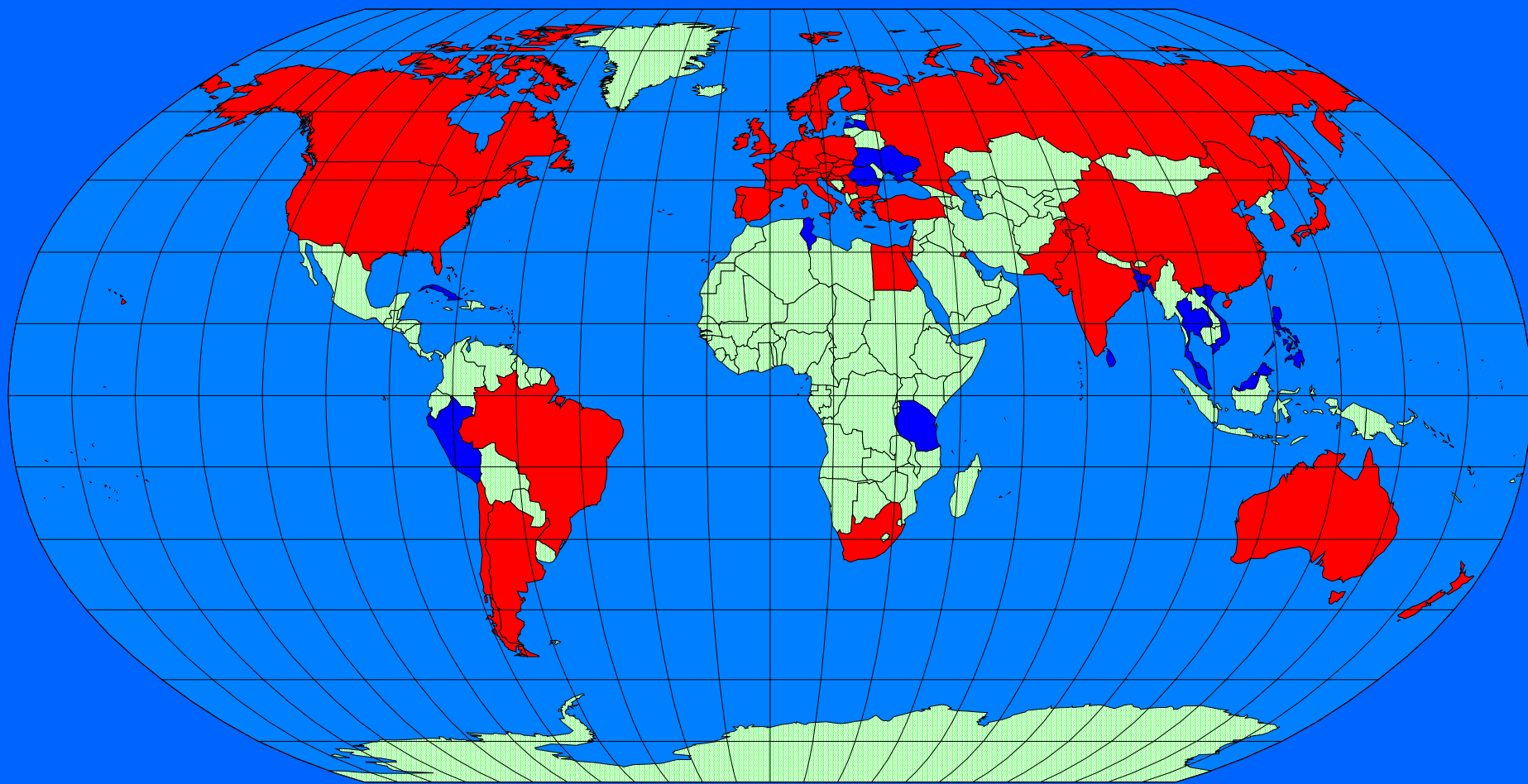
As a **scientific, International, non-governmental** and **objective** body, IUPAC can address many global issues involving the chemical sciences.



\* In recognition of the role of chemistry as a central science in a wide range of fields, the term **chemical sciences** will be used to refer to chemistry, broadly defined, & to those scientific disciplines & technologies that make significant use of chemistry.

# Organizations & People



# IUPAC Membership



	Associate NAO	(16)
	National Adhering Organization (NAO)	(44)

# One Mission - Ten Goals

*To further its mission, IUPAC has established a set of long-range Goals and has formulated Strategic Thrusts that are aimed at achieving each of the Goals.*

1. IUPAC will serve as a scientific, international, nongovernmental body in objectively **addressing global issues** involving the chemical sciences. Where appropriate, IUPAC will represent the interests of chemistry in governmental and nongovernmental forums.
2. IUPAC will provide tools (e.g., standardized nomenclature and methods) and forums to help **advance international research** in the chemical sciences.
3. IUPAC will assist **chemistry-related industry** in its contributions to sustainable development, wealth creation, and improvement in the quality of life.
4. IUPAC will facilitate the development of effective **channels of communication** in the international chemistry community.

# Goals (Cont.)

5. IUPAC will promote the **service of chemistry to society** in both developed and developing countries.
6. IUPAC will utilize its global perspective to contribute toward the enhancement of **education in chemistry** and to advance the **public understanding of chemistry** and the scientific method.
7. IUPAC will make special efforts to encourage the career development of **young chemists**.
8. IUPAC will broaden the **geographical base** of the Union and ensure that its human capital is drawn from all segments of the world chemistry community.
9. IUPAC will encourage worldwide **dissemination of information** about the activities of the Union.
10. IUPAC will assure **sound management** of its resources to provide maximum value for the funds invested in the Union.

# Recent Initiatives

- Financial Support for Symposia and Conferences in Developing and Economically Disadvantaged Countries
- Prize for Young Chemists - to encourage outstanding young research scientists at the beginning of their careers
- Workshop Series on Advanced Materials - Hong-Kong, China, 1999; Bangalore, India, 2002
- Implementation of a Project-Driven System (*see panel below*)
- Special topics project (*see publications*)
- Strategy Development - review of the programs associated with Education, Nomenclature, and Industry

# Project-Driven System

- a system for **YOU** to contribute -

**Anyone** with a good idea can submit a proposal.

The project should address an **issue of significance to the global chemistry community.**

*Focus areas:*

- **Nomenclature, terminology, and symbols**
- **Validated and compiled data**
- **Standard methods and procedures**
- **Education and public appreciation of chemistry**
- Any subject that requires development of **consensus among chemists worldwide**

An IUPAC Project is **not**

- a research proposal
- a scientific conference
- a scholarship, stipend, or travel grant
- a regional matter
- an ongoing publication



# Publication Programs

***Pure and Applied Chemistry*** - the scientific journal contains IUPAC recommendations and reports, special topic articles, and lectures from symposia

***Chemistry International*** - the bimonthly news magazine of IUPAC keeps you informed about IUPAC's activities

**Book series**, including

- **Compendia of Nomenclature and Terminology**
- International Thermodynamic Tables of the Fluid State
- Chemistry for the 21st Century
- Experimental Thermodynamics
- Analytical and Physical Chemistry of Environmental Systems
- Solubility Data Series

**[www.iupac.org](http://www.iupac.org)** - the online resource provides information on the Union's programs and publications

# Recent Publications

- **Organic Mesoscopic Chemistry**, Masuhara and Schryver
- **Chemical Thermodynamics**, Letcher
- **Equations of State for Fluids and Fluid Mixtures**, Sengers *et.al.*
- **Principles and Practice of Method Validation**, Fajgelj and Ambrus
- ***In Situ* Monitoring of Aquatic Systems - Chemical Analysis and Speciation**, Buffle and Horvai
- **Drug Metabolism**, Erhardt
- **Green Chemistry**, P. Tundo (ed.), *Pure Appl. Chem.* Jul. 2000
- **Nanostructured Systems**, M. El-Sayed (ed.), *Pure Appl. Chem.* Jan-Feb. 2000