



# CHEMRAWN

**CHEM**ical **R**esearch **A**ppplied to **W**orld **N**eeds

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

# CHEMRAWN Conferences are different

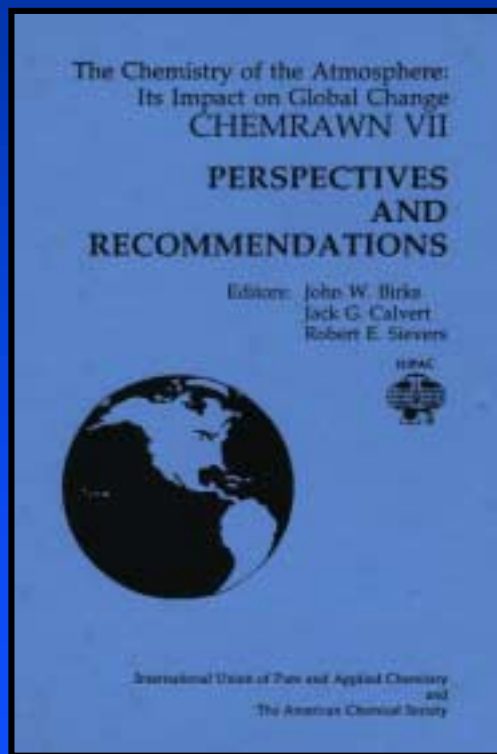
- Not just a conference
- Involve **not just scientists**  
but public, private, Media, NGO's, academic sectors -- focus on issues
- Future Actions Committee  
Develops set of **actionable recommendations** -- and works on follow up

# Determining Factors for a CHEMRAWN Conference

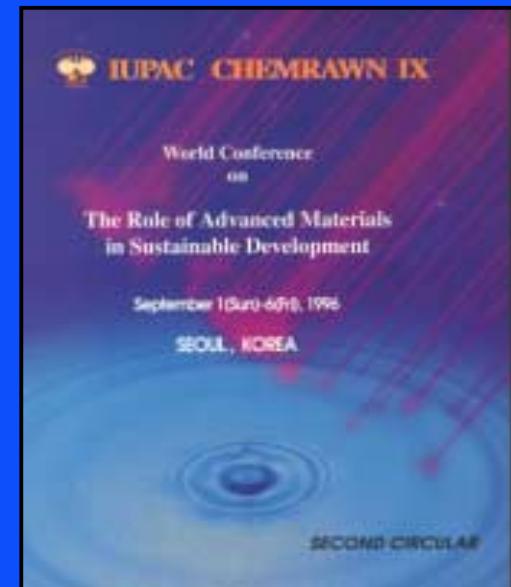
- Funding, group willing to organize the conference
- Are there important issues for discussion that can lead to actionable recommendations?
- Is this a subject appropriate for the the CHEMRAWN format -- and not being duplicated elsewhere?

# 12 CHEMRAWN Conferences since 1978

- I - Toronto, Canada (1978)  
**Future Sources of Organic Raw Materials**
- II - Manila, Philippines (1982)  
**Chemistry and World Food Supplies: The New Frontiers**
- III - The Hague, the Netherlands (1984)  
**Resources Material Conversion**
- IV - Keystone, Colorado, USA (1985)  
**Modern Chemistry and Chemical Technology Applied to the Ocean and Its Resources**
- V - Heidelberg, Germany (1986)  
**Current and Future Contributions of Chemistry to Health**
- VI - Tokyo, Japan (1987)  
**Advanced Materials for Innovations in Energy, Transportation, and Communications**



- VII - Baltimore, Maryland, USA (1991)  
**The Chemistry of the Atmosphere: Its Impact on Global Change**
- VIII - Moscow, Russia (1992)  
**Chemistry and Sustainable Development**
- IX - Seoul, Korea (1996)  
**Advanced Materials and Sustainable Development**
- X - Budapest, Washington, Hawaii, Brisbane (2000-1)  
**The Globalization of Chemical Education-- Preparing Chemical Scientists and Engineers for Transnational Industries** (in progress)



- XI - Montevideo, Uruguay (1998)  
**Latin American Symposium on Environmental Analytical Chemistry**
- XIV - Boulder, Colorado (2001)  
**Toward Environmentally Benign Processes and Products**

# Continuing Issues - Three F's

- ***Funding***
  - How to finance the conferences in the face of declining grants ?
- ***Format***
  - How to develop the most cost effective format ?
- ***Future Actions***
  - How to make sure that recommendations have impact ? may need funds to carry out some recommendations.

# Case History -- A Different Way to Hold a Conference: CHEMRAWN X

Should a CHEMRAWN conference concern itself with **chemical education**? What is CHEMRAWN? What might be the focus of the conference? What are some of the issues? What should we do next?

1990's: much discussion about education as a subject for a CHEMRAWN Conference???

late 1990's: what is the focus?

"mini-CHEMRAWN's"  
at ICCE, ACS,  
Pacifichem 2000

Committee  
Survey

1998/9: focus and  
organizer

*Next steps: discussions, future actions at Brisbane*

# CHEMRAWN X

## Issues Developed at the Three Sessions *Budapest, Washington DC, Honolulu*

- Industry expectations seem to differ country to country; are the differences real?
- Can an education in one part of the world be used in another? (Issue for developing countries?)
- Does graduate education need to be tailored for those going into industrial research?
- How does industry make its needs known?
- Can the time to a degree be “contained”?
- How do universities instill the desire for continual learning?



# Planning 3 Conferences

- **CHEMRAWN XII**  
**African Food Security and Natural Resource Management: The New Scientific Frontiers**
- **CHEMRAWN XIII**  
**Chemistry for Cleaner Energy**
- **CHEMRAWN XV**  
**Fresh Water: Contribution of Chemistry to Quantity and Supply - Can the fresh water supply be sustained?**

## Other Suggestions

- **Food purity**
- **Biodiversity**
- **Innovation process**
- **Halocarbons**

# Summary

- **CHEMRAWN remains an important initiative of IUPAC**
- **The CHEMRAWN concept is valued**
- **Numerous opportunities for conferences**
- **Seeking different, possibly novel, ways to assure that CHEMRAWN has impact**

## Members

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