



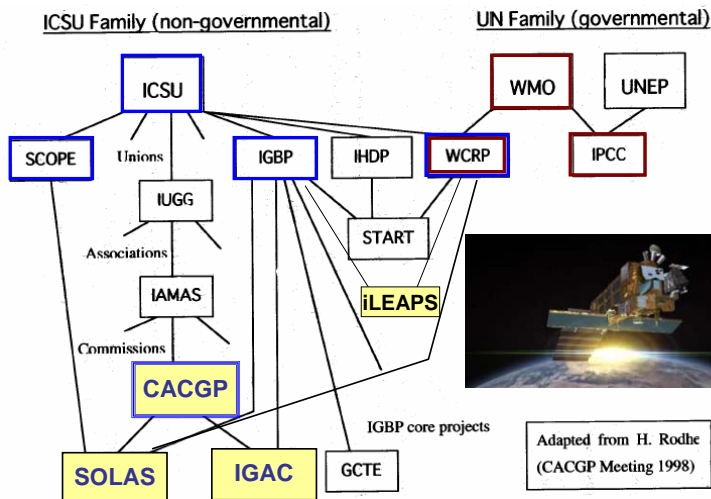
# International Commission on Atmospheric Chemistry and Global Pollution (CACGP)

<http://www.icacgp.org>

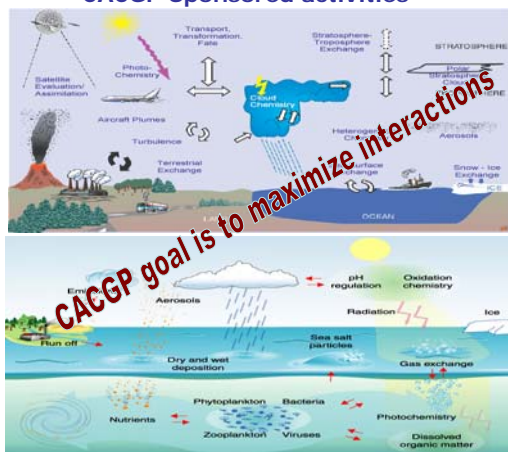
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## What is CACGP? *a thinking body*

The international Commission on Atmospheric Chemistry and Global Pollution (CACGP) is one of the Commissions in **IAMAS** (International Association of Meteorology and Atmospheric Sciences), which in turn is one of the associations within **IUGG** (International Union of Geodesy and Geophysics) under the non-governmental **ICSU** (International Council of Science) family.



## CACGP Sponsored activities



**IGAC:**  
[International Global Atmospheric Chemistry](#)

**SOLAS:**  
[Surface Ocean Lower Atmosphere Study](#)

## The history of CACGP- brief outline

1957	Foundation of the Commission on Atmospheric Chemistry and Radioactivity (CACR)
1957-1963	President: W. Bleeker Secretary: C.E. Junge
1964-1967	President: B. Bolin Secretary: E.A. Martell
1967-1971	President: C.E. Junge Secretary: E.A. Martell
1971	Commission renamed Commission on Atmospheric Chemistry and Global Pollution (CACGP)
1971-1975	President: C.E. Junge Secretary: P. Goldsmith
1975-1979	President: E.A. Martell Secretary: P. Goldsmith
1979-1983	President: P. Goldsmith Secretary: R. Duce
1983-1990	President: R. Duce Secretary: H. Rodhe
1988	Planning and formation of IGAC
1990	IGAC accepted as core project of IGBP (chair: R. Prinn)
1990-1994	President: H. Rodhe, Vice President: D. Albritton, Secretary I. Galbally
1993	First IGAC Science Conference
1994-1998	President: H. Rodhe, Vice President: H. Akimoto, Secretary L. Barrie
1998-2002	President: H. Akimoto, Vice President: L. Barrie, Secretary P. Artaxo
2000	CACGP Workshop on Priorities in International Chemistry research and the Future of IGAC → A strategic View of Future Research in International Atmospheric Chemistry (2002)
2001	Surface Ocean – Lower Atmosphere Study (SOLAS) endorsement (Chair P. Liss)
2002-2006	President: A. Thompson, Vice President: F. Raes, Secretary: P. Quinn
2006-2010	President: M. Kanakidou, Vice President: K. Kawamura, Secretary: J.P. Burrows

Next IGAC International Conference in France in Sept. 2008  
Next Joint International Symposium in 2010 – location to be decided  
<http://www.icacgp.org>

## CACGP Honorary Members 2006

Hajime Akimoto  
Bert Bolin  
Paul Crutzen  
Robert Duce  
Phillip Goldsmith  
Mario J. Molina  
Henning Rodhe  
F. Sherwood Rowland

*towards earth system modeling*

## CACGP Officers 2006-2010

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Frank Dentener Italy  
Tamy Bond USA  
James R. Drummond, CANADA  
David Edwards USA  
Sara Feresu Zimbabwe  
Laura Gallardo Klenner Chile  
Elisabeth Holland United States  
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## What does CACGP do?

- it supports research in atmospheric chemistry that contributes to basic science and to solving the societal issues, addressing water supply, food production and human/ecosystem health.
- it facilitates and stimulates an improved understanding of the fundamental mechanisms that control and determine atmospheric composition and development and evolution of improved predictive capabilities.

## stimulate atmospheric chemistry research CACGP aims

- Promote research on *chemistry and composition of troposphere related to global pollution and climate change*
- Initiate, facilitate and coordinate the research programs in this field which require **international cooperation**.
- Stimulate discussion and dissemination of the results of such research programs

Key environmental issues and associated atmospheric chemical groups that should be the focus of multidisciplinary research involving atmospheric chemistry

Water supply	Human health	Food production	Ecosystem health
GHGs	oxidants	oxidants	nutrients
Aerosols	Aerosols	Aerosols	acids
ozone	toxics		oxidants

Source: Future directions of atmospheric chemistry research

By: Akimoto, Barie, Artaxo, 2002



## current main objectives of global atmospheric research

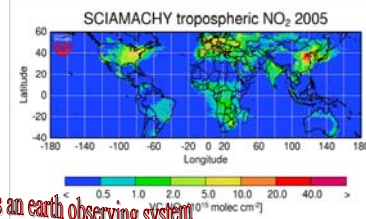
- to provide a **fundamental understanding of the processes** that govern the behavior of chemical compounds in the atmosphere and their impact on climate.
- to contribute with the partners of the international atmospheric chemistry research community to the development of an integrating framework describing the **physical, chemical and biological interactions between the different components of the Earth system**
- to **improve our ability to predict** atmospheric composition over the coming decade through integrating models, with process studies and comprehensive data sets.
- to **address societal needs** through application of atmospheric chemistry research and development of research that integrates human dimensions into Earth System science.

## Major topics of international collaborative research

- Air pollution and climate changes  
Impact on ecosystems
- Fluxes at the interfaces : ocean/atmosphere, ice/atmosphere  
Terrestrial and marine biosphere/atmosphere chemistry/climate interactions – feedback mechanisms
- Time evolution of changes

## Research tools/approaches:

- Laboratory experiments
- Model simulations
- Field and satellite observations



*towards an earth observing system*