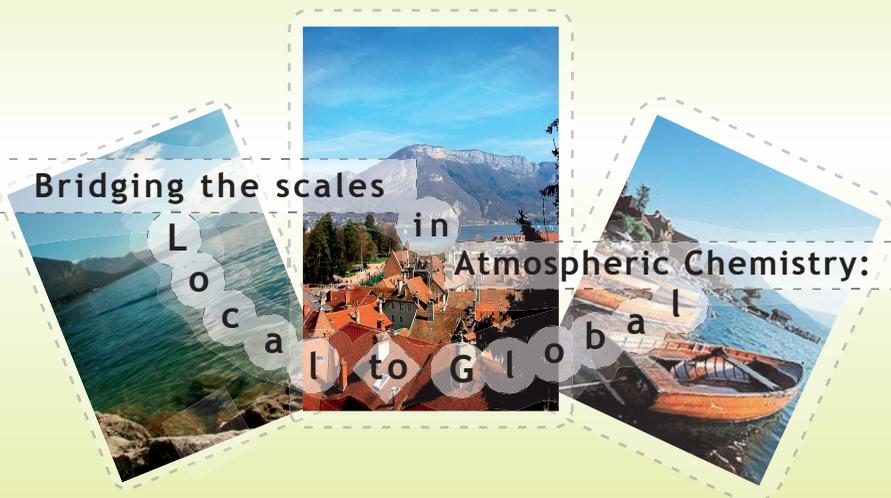


IGAC Conference 2008
<http://www.igacfrance2008.fr>



PROGRAMME

7-12 September 2008
Annecy • France
Imperial Palace Hotel

Sponsors

Rhône-Alpes

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This is a Carbon Neutral Event

IGAC Conference 2008

Annecy (France) • 7-12 September 2008

IGAC (International Global Atmospheric Chemistry) is a science project of the IGBP (International Geosphere-Biosphere Programme); IGAC is also co-sponsored by the Commission on Atmospheric Chemistry and Global Pollution (CACGP).

<http://www.igac.noaa.gov>

Sunday 7th September 2008

14:00 - 18:00	On-site registration
17:00 - 18:00	Young scientist poster icebreaker (Impérial Palace • Brasserie)
18:00 - 20:00	Opening cocktail (Impérial Palace) • Welcome address from Annecy Mayor

Monday 8th September 2008

The meeting is being held at Impérial Palace • Salle de l'Europe

8:30 - 18:00	On-site registration		
	Session	Speaker	Title
8:45 - 9:45			Opening and Welcome from Conference chair, CNRS and local/regional authorities IGAC Annecy 2008 carbon compensating strategy – S. Philippin
9:45 - 10:30		D. Jacob	Keynote: Bridging scales in atmospheric chemistry
10:30 - 11:00			Coffee Break
11:00 - 11:30	TTL*	I. Folkins	Chemistry and transport in the tropical tropopause layer (keynote)
11:30 - 11:45	TTL	A. Gettelman	Transport of short lived chemical species in the TTL from the cloud to global scale
11:45 - 12:00	TTL	S. Tegtmeier	Seasonal persistence of northern low and middle latitude anomalies of ozone and other trace gases in the stratosphere
12:00 - 12:15	TTL	R. Spackman	Long-range transport of black carbon in the tropical tropopause layer
12:15 - 12:30	TTL	A. Tuck	The connection of physical & theoretical chemistry with atmospheric scale invariance
12:30 - 14:00			Lunch
14:00 - 14:30	AC&C**	O. Wild	How well do we represent the processes affecting tropospheric composition in chemistry-climate models? (keynote)
14:30 - 14:45	AC&C	D. Winker	Evaluating model aerosol predictions with observations from CALIPSO
14:45 - 15:00	AC&C	T. Bond	Future emission trajectories and plausible reduction strategies for black and organic carbon particles
15:00 - 15:15	AC&C	I. Galbally	VOCs in the Australian region of the Southern Hemisphere
15:15 - 15:30	AC&C	F. Dentener	Emissions and transport of aerosol and ozone in South Asia and China: The GAINS-Asia project
15:30 - 15:45	AC&C	F. Wittrock	BREDOM: Using MAX-DOAS measurements for long-term observations of tropospheric trace gases
15:45 - 16:00	AC&C	L. Gallardo	Fumarolic activity from Andean volcanoes as a source of aerosols in the upper troposphere
16:00 - 16:30			Coffee break
16:30 - 19:30	Posters sessions M		(Impérial Palace, salons Berlioz and Verdi)

*The tropical tropopause layer

**Atmospheric Chemistry and Climate

Tuesday 9th September 2008

Session	Speaker	Title	
9:00 - 9:15	AC&C*	P. Hess	Hindcast simulations of tropospheric chemistry: The role of variations in meteorology including stratospheric-tropospheric exchange
9:15 - 9:30	AC&C	C. Textor	The effect of improved biomass burning emissions over Africa on the fate of aerosols in the atmosphere
9:30 - 9:45	AC&C	S. Bauer	Sensitivity of climate forcings to aerosol physics and chemistry
9:45 - 10:00	AC&C	A. Ito	Global CTM study of ozone changes associated with rising temperatures; the role of isoprene chemistry and emissions
10:00 - 10:15	AC&C	J. Crouse	Biomass burning and air quality in and downwind of Mexico city
10:15 - 10:30	AC&C	M. Steinbacher	H ₂ observations in the atmosphere: an integration from the exhaust pipe to a remote site
10:30 - 11:00			Coffee break
11:00 - 11:30	Clouds	U. Lohmann	Impact of aerosols on clouds and precipitation on global scales (keynote)
11:30 - 11:45	Clouds	B. Noziere	«Super-CCN»: A contribution of bio-organisms to cloud formation in Earth's atmosphere
11:45 - 12:00	Clouds	H. Tost	Convective tracer transport and scavenging - parameterisation uncertainties
12:00 - 12:15	Clouds	A. Matsuki	Cloud nucleating properties of mineral dust particles observed during AMMA special observation periods in summer 2006
12:15 - 12:30	Clouds	H. Huntrieser	Lightning-produced NO _x (LNO _x) in a Hector blow-up during SCOUT-O3 and ACTIVE: bridging clouds
12:30 - 14:00			Lunch
14:00 - 14:30	Observations	P. Levelt	Tropospheric measurements on global to urban scales from space: Current achievements and challenges for the future (keynote)
14:30 - 14:45	Observations	N. Elansky	TROICA mobile observatory and intercontinental monitoring of the atmospheric composition over Russia: Summary of eleven expeditions.
14:45 - 15:00	Observations	W. Randel	Comparisons of tropospheric hydrocarbons measured by ACE with chemistry transport model results
15:00 - 15:15	Observations	M. Vana	PM gradients through regional, rural and urban areas in the Czech Republic
15:15 - 15:30	Observations	T. Marbach	Formaldehyde (HCHO) satellite measurements in shipping emissions.
15:30 - 15:45	Observations	W. Tao	Long-term trend of surface ozone in background air in coastal southern China: 1994-2007
15:45 - 16:00	Observations	S. Turquety	Monitoring of atmospheric composition using the thermal infrared IASI/METOP sounder
16:00 - 16:30			Coffee Break
16:30 - 19:30	Posters sessions Tu		(Impérial Palace, salons Berlioz and Verdi)

*Atmospheric Chemistry and Climate

Wednesday 10th September 2008

Session	Speaker	Title	
9:00 - 9:15	Observations	J. Fishman	Observing tropospheric composition from space: Global successes, local challenges
9:15 - 9:30	Observations	W. Peters	Carbontracker europe: A new system to diagnose net CO ₂ exchange across the continent
9:30 - 9:45	Observations	D. Jones	Understanding the relative importance of processes controlling tropospheric ozone through assimilation of space-based observations of tropospheric ozone and carbon monoxide
9:45 - 10:00	Observations	T. Machida	Vertical and latitudinal differences of CO ₂ seasonal variations observed by commercial airliners
10:00 - 10:15	Observations	D. Edwards	Satellite and ground-based remote sensing of carbon monoxide over Australasia: Linking global and local scales
10:15 - 10:30	Observations	W. Thomas	Near real time evaluation of GEMS global forecasts by ground-based data from Global Atmosphere Watch (GAW) stations
10:30 - 11:00			Coffee break
11:00 - 11:15	Observations	J. Burrows	Measurements of air pollution and greenhouse gases from space using GOME SCIAMACHY and GOME-2 from 1995 to present
11:15 - 11:30	Observations	M. Val Martin	A study of wildfire emissions in North America: An analysis of injection heights from MISR observations
11:30 - 11:45	Observations	P. Artaxo	Long term optical measurements of aerosol properties in Amazonia
11:45 - 12:00	Observations	P. Laj	Overview of 2-year continuous aerosol and gas measurements from the High Altitude Himalayas Pyramid Atmospheric Research Observatory (Nepal, 5079m a.s.l.)
12:00 - 12:15	Observations	S. Basart	Aerosol retrospective analysis over North Africa, North-eastern Atlantic Ocean, Mediterranean and Middle East from AERONET sites
12:15 - 12:30	Observations	T. Bates	Boundary layer aerosol chemistry during TexAQ5/GoMACCS 2006: Insights into aerosol sources and transformation processes
12:30 - 14:00			Lunch
Afternoon			Trips

Thursday 11th September 2008

Session	Speaker	Title	
9:00 - 9:30	Nano to Macro	M.C. Facchini	Different chemical characteristics of primary and secondary marine organic aerosol relevant for climate studies (keynote)
9:30 - 9:45	Nano to Macro	P. Shepson	Photochemistry in and above ice and snow, and the impact on the atmosphere
9:45 - 10:00	Nano to Macro	A. Kiendler-Scharr	Simulation chamber investigations of secondary organic aerosol formation from boreal tree emissions
10:00 - 10:15	Nano to Macro	S. Kreidenweis	Parameterization of the hygroscopicity and CCN activity of atmospheric aerosols
10:15 - 10:30	Nano to Macro	M. Ammann	Photosensitized uptake of nitrogen dioxide and ozone to humic acid containing ice and aerosol surfaces
10:30 - 11:00			Coffee break
11:00 - 11:30	Biogenic	L. Ganzeveld	Towards a more integrated representation of surface exchanges in atmospheric chemistry at the substrate up to the global scale (keynote)
11:30 - 11:45	Biogenic	C. Heald	Biogenic emissions of organics: Global budgets and implications
11:45 - 12:00	Biogenic	K. Kawamura	Organic molecular compositions and temporal variations of summertime mountain aerosols over Mt. Tai, North China Plain
12:00 - 12:15	Biogenic	N. Hewitt	Oxidant and particle photochemical production processes above a south-east Asian tropical rain forest (OP3-Danum-08) - first results
12:15 - 12:30	Biogenic	M. Saunio	Ozone enhancement over Cotonou during the wet season: Combined influence of biomass burning, local anthropogenic pollution and lightning.
12:30 - 14:00			Lunch
14:00 - 14:30	Polar/Ocean	C. Zender	After the fall: Consequences of combustion and dust aerosols in snow (keynote)
14:30 - 14:45	Polar/Ocean	T. Quinn	Short-lived pollutants in the Arctic: Climate implications and possible mitigation strategies
14:45 - 15:00	Polar/Ocean	M. Hutterli	Laboratory studies of sea ice, frost flowers and snow as sources of reactive halogens
15:00 - 15:15	Polar/Ocean	J. Williams	News from the OOMPH project (2005-2008)
15:15 - 15:30	Polar/Ocean	A. Minikin	Airborne measurements of aerosol properties during the Arctic haze season in March/April 2007: Was it clean or not?
15:30 - 15:45	Polar/Ocean	M. Kanakidou	Global modeling of the oceanic source of organic aerosols: Primary and secondary sources
15:45 - 16:00	Polar/Ocean	P. Swartzendruber	The transport and chemical processing of mercury and other pollutants in the free troposphere over the western US
16:00 - 16:30			Coffee Break
16:30 - 19:30	Posters sessions Th		(Impérial Palace, salons Berlioz and Verdi)
20:00			Conference dinner (Espace <i>rencontre</i> , Annecy-le-Vieux)

Friday 12th September 2008

Session	Speaker	Title	
9:00 - 9:30	Urban/anthro*	S. Liu	Changes of precipitation intensity in East Asia (keynote)
9:30 - 9:45	Urban/anthro	C. Liousse	African Combustion Emissions : A zoom on urban centre sources
9:45 - 10:00	Urban/anthro	M. Osses	Emission inventories for mobile sources in 6 Latin American cities using an international and comparable methodology
10:00 - 10:15	Urban/anthro	A. Perrin	Reactive nitrogen partitioning and ozone production in the Mexico city urban plume
10:15 - 10:30	Urban/anthro	A. Hofzumahaus	HOx radical chemistry in the Pearl-River Delta in China 2006
10:30 - 11:00			Coffee Break
11:00 - 11:15	Urban/anthro	G. Carmichael	Regional and global perspectives of megacity air pollution and its interaction with climate
11:15 - 11:30	Urban/anthro	M. Shiraiwa	Mixing state of black carbon aerosol in Asian outflow
11:30 - 11:45	Urban/anthro	F. Solmon	Influence of anthropogenic compounds on dust iron solubility over the North Pacific Ocean: A modelling approach
11:45 - 12:00	Urban/anthro	V.H. Peuch	The GEMS European-scale regional air quality multi-model ensemble forecasts
12:00 - 12:15	Urban/anthro	L. Emmons	Impact of Mexico City on regional air quality from MOZART-4 simulations and MILAGRO observations
12:15 - 12:30	Urban/anthro	T. Zhu	Air Quality attainment during 2008 Beijing Olympics: Overview of CAREBEIJING
12:30			End of conference
12:30 - 14:00			Lunch

*Urban/anthropogenic

Local activities in Annecy (all in french)

Public lecture, organised in conjunction with local authorities

Tuesday September 9th • 20:00 - 21:30

Location : Imperial Palace

« *Climatic change from the global to the local scale* »

- 20:00 - 20:30: **Daniel Jacob** (Univ. Harvard)
Le changement climatique : une réalité à l'échelle globale
- 20:30 - 20:45: **Jean-Christophe Bligny** (Évian, Danone)
*Comment se positionne une entreprise face au changement climatique:
Gestion de la ressource en eau et réduction des émissions de CO₂*
- 20:45 - 21:15: **Christian Vincent** (LGGE)
Les glaciers face au changement climatique
- 21:15 - 21:30: Questions

Round Table organised by « Région Rhône-Alpes »

Wednesday September 10th • 13:30 - 18:00

Location : Imperial Palace

« *Air Quality: policy and science, how to interact* »

Café scientifique organised with Annecy city council

Wednesday September 10th • 19:30 - 20:30

Location : « la Mamma » 69, avenue de France (Annecy)

« *Pollution and Health* »

with **Geir Braathen** (WMO), **Didier Chapuis** (Air des Pays de Savoie), and **Séverine Kirchner** (Primequal, Centre Scientifique et Technique du Bâtiment)

Carbon Compensation Tree Planting Event

Organised in collaboration with the Conseil Général de Haute-Savoie

Wednesday September 10th afternoon

Location: département de la Haute-Savoie, sur la commune de Dingy saint Clair, route de Thones, parcelle D 1084

Activity : Planting drought/disease (climate) resistant tree species. Activity organised in collaboration with the French Forestry Service. Carbon fixation by these trees is estimated to be about 200 tons of carbon over a 30 year period. Activity will take place jointly with local college pupils.

IGAC conference gala diner organised with Annecy-le-Vieux city council

Thursday September 11th • 19:30 - 23:30



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