

2008 Annual Report for RG 7.01.00
"Impacts of air pollutants and climate change on forest ecosystems"

• **Prominent topic in 7.01 in 2008**

The 23rd Conference for Specialists in Air Pollution and Climate Change Effects on Forest Ecosystems “Air Pollution and Climate Change at Contrasting Altitude and Latitude” was held September 7-12, 2008, in Murten/Switzerland. This event is the traditional biannual meeting of the IUFRO Research Group 7.01.00 “Impacts of Air Pollution and Climate Change on Forest Ecosystems”. Research trends, new findings and future research needs were summarized at the conference and compared with the 14th conference of the same series, “Air Pollution and Forest Decline”, that was held in Interlaken/Switzerland, 20 years ago (October 2-8, 1988).

Over the past 20 years, the focus of forest science on air pollution has moved from forest decline to a holistic framework of forest health, and from the effects on forest production to the ecosystem services provided by forest ecosystems. Hence, future research should focus on the interacting impacts and resulting antagonistic and synergistic responses of forest trees and ecosystems. The synergistic effects of air pollution and climatic changes, in particular elevated ozone, and altered nitrogen, carbon and water availability, will be key issues for future research. Present evidence suggests air pollution to become increasingly harmful to forests under climate change, which requires more and more integration among various stressors (abiotic and biotic factors, including competition, parasites and fire), effects on forest services (production, biodiversity protection, soil protection, sustained water balance, socio-economical relevance) and assessment approaches (research, monitoring, modeling).

• **List of 7.01 activities in 2008**

– *Meetings*

Title	Date	Venue	Main Organizer	IUFRO RG role	Contact person	Website	Proceedings
Forest Ecosystems in a Changing Environment: Identifying Future Monitoring and Research Needs	10 – 13 March 2008	Grand Cevahir Hotel, Istanbul, Turkey	COST	Co-organizer	Richard. Fischer @vti.bund.de	http://www.costforest2008.org/ Report at http://www.costforest2008.org/docs/COST-Brochure.pdf	iForest Under review
Forests, Bioenergy and Climate Change	20 - 21 March 2008	Zenith hotel, Casablanca, Morocco	Sylva World	Co-organizer	Mohamed Ellatifi <sylva.world@yahoo.fr>	http://www.geocities.com/sylva.monde/first.htm?20088?200814 Report at http://www.iufro.org/download/file/2540/2792/casablanca08-cbd-djoghla.pdf	-
23 rd Meeting for Specialists in Air Pollution and Climate Change Effects on Forest Ecosystems “Air Pollution and Climate Change at Contrasting Altitude and Latitude”	7 - 12 Sept. 2008	Centre Loewenberg, Murten, Switzerland	RG 7.01	Organizer	Marcus.schaub @wsl.ch	http://www.wsl.ch/iufro_ch_2008/index_EN?-C=& Report at http://www.iufro.org/download/file/2920/2792/70100-murten08-report.pdf	Environmental Pollution, Tree Physiology, European Journal

							of Forest Research Under review
Plant Functioning in a Changing Global Environment	7 – 11 Dec. 2008	Department of Forest and Ecosystem Science, Creswick, Victoria Australia	Air Pollution Global Change Series	Advisory	michael.tausz@unimelb.edu.au	http://www.apgc.eu/Home	Annals of Forest Science, Plant Biology Under review

– *Publications*

Bytnerowicz, A., Arbaugh, M., Fenn, M., Sanchez Gimeno B., Paoletti E., (Eds.) 2008. Forests under Anthropogenic Pressure – Effects of Air Pollution, Climate Change and Urban Development. Environmental Pollution, Volume 155, Issue 3, Pages 389-542.

A selection of papers from the 22nd meeting for Specialists in Air Pollution Effects on Forest Ecosystems "Forests under Anthropogenic Pressure. Effects of Air Pollution, Climate Change and Urban Development", September 10-16, 2006, Riverside CA, USA, was released in October 2008. Details at

http://www.sciencedirect.com/science?_ob=PublicationURL&_tockey=%23TOC%235917%232008%23998449996%23696816%23FLA%23&_cdi=5917&_pubType=J&_auth=y&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=098507b1cebe8d32c61cf9258bea81fc

Serengil, Y., Sheppard, L., Johnson, D., (Eds.) 2008. Nitrogen deposition. International Journal of Environmental Studies, Volume 65, Issue 3, Pages 295-500.

This nitrogen issue was edited by WG 7.01.03 and published in June 2008. Details at <http://www.informaworld.com/smpp/title~content=g793369588~db=all>

– *Newsletter*

Since 2008, the RG Newsletter is managed by the IUFRO Web Management (Claudia Goestl) with the following name: [IUFRO RG 7.01 FORCLIMAIR]- rg70100-forclimair@lists.iufro.org. In the first year of activity, nine messages were circulated.

Submitted by Elena Paoletti (C-RG 7.01.00)

January 9, 2008



Excursions to Jungfrauoch, Top of Europe (left) and Pfy Forest, Valais Nature Park (right) during the 23rd RG 7.01 conference in Switzerland (courtesy by M. Schaub)