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News from EFCA

The 2018 year is coming to its end. Without doubts it has been a busy and good year for EFCA. Our visibility has increased considerably in Europe and globally at the COP-24 of the UNFCCC.

Our Newsletter has been revived and we published its three issues. Last but not least our Family has grown.

For those who contributed actively to this achievement I would like to thank sincerely and wish to all of you Merry Christmas and Happy New Year in private and professional life.

Andrzej Jagusiewicz
EFCA President



EFCA, IUAPPA, PIGE Representation at COP 24

New Spanish Associate in EFCA



During the board meeting in Lille, November 2018, EFCA welcomes a new Member: **Plataforma X Aire Limpio (Clean Air Platform), Spain**

by Jaime Gil-Robles M. de Vienne; Technical Director



The PxAL is a non-profit organization born in April 2018 under the leadership of the trade association of electricity, gas and car manufacturing.

The aim of the PxAL is to promote Clean Air plan in the Spanish cities. There are only 12 cities with Clean Air plan in the 25th biggest Spanish cities, and most of them are outdated. In the legal context, the National Law forces the cities to have a Clean Air plan only in the case of EU limits breakdown, but all the scientific community plus other stakeholders push more often the cities to adopt Clean Air Plans to anticipate a reduction in the EU limits for emissions.

The issues is that the cities do not have tools to implant Clean Air plans due the complexity of the topic for non-specialists and for the unpopular of certain measures that need to be adopted, so with the support of the Advisory Board, the PxAL has created a guide that covers most of the aspect needed to build a Clean Air Plan, from the methodology, the governance, the evaluation to the communication. To promote this Guide, PxAL has signed in September 18 a general convention with the Federation of Spanish Cities that will be in charge of propose to their network the Guide and the trainings associated to it.

The Advisory Board is led by Xavier Querol. Members are: Julio Díaz is the Head of Department of Epidemiology and Biostatistics of National School of Health depending of the Heal Institute Carlos III.

Yolanda Benito is the Head of the Department of Environment of CIEMAT - The CIEMAT (Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas) is a public research body assigned to the Ministry of Science, Innovation and Universities under the General Secretariat for Scientific Policy Coordination, focusing on energy and environment and the technologies related to them. It has offices in several different regions of Spain, and its activity is structured around projects which form a bridge between R&D&I and social interest goals.

Cristina Monge is Director of the Conversations area of ECODES (Ecology and Development Foundation) and Associate Professor of Sociology at the University of Zaragoza.

Isabel Urrutia, PhD Pneumologist is representing the Spanish Society of Pneumology and Thoracic Surgery (SEPAR), which is the Scientific Society that represents respiratory health professionals in Spain.

Juan Rubio del Val, Urban Architect, is chairman of the City Observatory 3R.



EFCA board meeting in Lille, France

Privacy Policy EFCA

At their recent Assembly meeting in Lille Members approved a proposal for an EFCA Privacy Policy. The document brings EFCA in line with present EU legislation (General Data Protection Regulation, GDPR), meant to protect persons in the EU who have to make private information available to industries or organisations.

In the document EFCA explains which information it collects and to what purpose it is being used. It can be inspected on EFCA's website. www.efca.net

Integrating Action for Clean Air and Climate Protection

by Andrzej Jagusiewicz, EFCA

The COP 24 side event organized by EFCA and PIGE, with IUAPPA participation, demonstrated the necessity of synergy to maximise co-benefits and minimise trade-offs between these two policy domains which, at present, remain separate.

Recent research on the impacts of diesel emissions and emissions from wood for residential heating have dramatically highlighted the damaging effects that can flow from a failure in policy-making to assess climate and air pollution considerations on an equal and integrated basis. At the same time there is a wider recognition that integrating climate and pollution policy-making could significantly reduce the long term costs of achieving objectives in both areas.

Building on Polish experience, this session looked at some of the legal, policy and analytical issues involved in drawing the two domains more closely together in a 'One Atmosphere' strategy. This could better define and convey to the public at large the nature of the challenge now posed by our changing atmosphere.



Upcoming International Symposium “Ultrafine Particles – Air Quality and Climate”

by Thomas Leisner | Chairman

Ultrafine particles (UFP), the nano fraction of airborne particulate matter, are considered to be causing serious health problems and environmental effects. Combustion is a major source, also by producing volatile organic pollutants which are converted in the atmosphere through photochemical reactions.

Increasing applications of man-made nanomaterials add to the problem, e.g. after incineration at the end of their lifetime. Further interest in UFP results from their specific role in atmospheric processes such as cloud formation and precipitation and, in fact, in climate.

The relation between UFP and human health and that of UFP and climate are both areas of active research and cross-links between these fields are found nowadays.

The subtitle of the conference series: “air quality and climate” reflects this development.

Present policies to decrease exposure to particulate matter make use of the mass-based metrics PM10/PM2.5, which do not properly represent all risks for human health. EFCA is, therefore, in favour of the development of a fraction-by-fraction approach on particulate matter, both with respect to size and chemical composition. It already recommended European policymakers the introduction of Black Carbon Particles as additional metric in the Air Quality Directive. The organizers trust that EFCA's 7th Ultrafine Particles Symposium 2019 will again feature the most recent scientific progress in the field and so contribute to policy-relevant developments which improve the dialogue with policymakers in Europe. The Symposium has gained visibility by permanently moving to Brussels and attracts an effective mix of EU representatives and scientists. EFCA and KIT, together with GUS and CEEES are pleased to organize this event again. We cordially invite all experts to contribute actively and

hope to see you again at the State representation of Baden- Württemberg in Brussels in May 2019.

Submission of Abstracts not later than January 14th, 2019, to

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Thomas Reichert honoured by the Polish Chamber of Commerce for Sustainable Development (PIGE)

by Andrzej Jagusiewicz

For his outstanding contribution to sustainable development in Europe during the six years EFCA presidency, the Polish Chamber of Commerce honoured Thomas Reichert from GUS and Fraunhofer with the gold medal of PIGE. The ceremony was held during EFCA's board meeting in Lille, France, 2018.



Right hand side: PIGE President Krzysztof Zaręba handed over the Honorary Medal of PIGE

The Polish Chamber of Commerce for Sustainable Development was founded on 24 October 1997. Its basic mandate is to promote sustainable development across the whole economy and specific sectors. The membership is thus open to self-administration, scientific institutions and/or scientists, companies and individuals engaged in the process and supporting by their activities and position the rules of sustainable development. The Chamber counts at present almost 100 members.

The Chamber is a non-profit organization and performs its mandate through delivering statements and opinions, organizing conferences and seminars, providing consultancy services to its members and strengthening the international cooperation with sister organizations in the EU and globally under the umbrella of the UN system or bilaterally.



Individual Air Pollution Sensors – Innovation or Revolution ?

A very important event took place in Lille from 29 to 30 November 2018 devoted to microdevices to monitor instantly and constantly air pollutants, including PM. EFCA has cooperated with APPA in organizing the event, participated in the sessions and its President concluded the colloquium. He stressed that it's not yet the revolution but more than innovation. (More information to be read in the next issue).

<http://lille2018.appa.asso.fr>



Closing Remarks from APPA and EFCA

News from EFCA Members

News from GUS

GUS Member KIT made a press release:

Power Plants generate more ultrafine particles than traffic (*Press information; No. 160 /swe/11.12.2018*)

Researchers of the Karlsruhe Institute of Technology show, that filter systems are worldwide the most relevant emission source of ultrafine particles and have considerable impact on the climate. The researchers identified an emission source outside of towns – modern power plants.

Though ultrafine particles (UFP) have only diameters of < 100 nanometers, they exert enormous influence on environmental processes. “They offer surfaces for chemical reactions in the atmosphere or influence as condensation nucleus the properties of clouds and rainfall”, says Wolfgang Junkermann, Institute of Meteorology and climate research (IMK) of KIT. To investigate sources and distribution of UFP Junkermann and an Australian colleague did flights round the globe during the last 15 years. They also had a look on the atmosphere outside of urban hotspots, especially in regions with peculiar precipitations. Even in many background areas the UFP concentrations are continually increasing. As sources Junkermann identified mainly coal power plants and refineries.

Original publication: Wolfgang Junkermann, Jörg M. Hacker: „Ultrafine particles in the lower troposphere: major sources, invisible plumes and meteorological transport processes“; in: Bulletin of the American Meteorological Society

<https://doi.org/10.1175/BAMS-D-18-0075.1>

Further information: sarah.werner@kit.edu

Calendar

Ultrafine Particles –Air Quality and Climate

Brussels, Belgium

May 15 and 16, 2019

http://ufp.efca.net/uploads/images/Call%20for%20Papers_ultrafine_particles_EFCA2019.pdf



8th International Symposium on Non-CO₂ Greenhouse Gases (NCGG8)

The conference aims at bridging the gap between science and applications within the policy and decision making arenas.

12 - 14 June 2019; Amsterdam, Netherlands

www.ncgg.info



18th IUAPPA World Clean Air Congress

23 - 27 September 2019; Istanbul, Turkey

www.wcac2019.org



Eleventh Croatian Scientific and Professional Conference with international participation "Air Protection 2019", 15-19 October 2019, Bol, Croatia

www.huzz.hr



VDI/DIN-Kommission Reinhaltung der Luft (KRdL)-Veranstaltungen 2019 zur Reinhaltung der Luft

<https://www.vdi.de/technik/fachthemen/reinhaltung-der-luft/expertenforen-und-tagungen/>

EFCA

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