

## COMMUNICATIONS PAR AFFICHE (EN LIEN AVEC LES THEMATIQUES CLIMIBIO)

### 2016

1. Ortega I.K., Irimiea C., Delhay D., Carpentier Y., Ziskind M., Ouf F.X., Salm E., Gaffie D., Yon J., Ferry D., Vacanssel X., Therssen E., Chemical characterization of airplane soot: complete engine versus combustion chamber, C. Focsa, European Aerosol Conference, Tours (France); 4<sup>th</sup> - 9<sup>th</sup> September 2016
2. Irimiea C., Carpentier Y., Faccinnetto A., Batut S., Therssen E., Focsa C. "Characterization of soot particles and their precursors in laboratory diffusion flame using laser based techniques", IREPSE day, Lille, 12<sup>th</sup> July 2016 – best poster award
3. Therssen E., Irimiea C., Carpentier Y., Focsa C. Simultaneous detection of soot and its precursors using one wavelength excitation, 7<sup>th</sup> international workshop on Laser Induced Incandescence, Tahoe City (California), 19<sup>th</sup>-23<sup>rd</sup> June 2016
4. Irimiea C., Carpentier Y., Ziskind M., Faccinnetto A., Therssen E., Focsa C. Characterization of soot particles and their precursors using laser based techniques, CAPP day, Lille (France), 25<sup>th</sup> February 2016
5. SYLLA M.D., LAMOUREUX N., GASNOT L., Impact of methylbutanoate oxidation on NO formation in laminar low pressure flames, European Combustion Meeting, Dubrovnik, April 2016
6. C. Betrancourt, P. Desgroux, X. Mercier, Experimental investigation of the soot nucleation process in atmospheric premixed flames using 2C-LII, 7<sup>th</sup> international Workshop on Laser-Induced Incandescence, CA-USA Tahoe city, June 2016
7. C. BETRANCOURT, X. MERCIER, P. DESGROUX, F. LIU, An Experimental and Numerical Study of Laser-Induce Incandescence in Flat Premixed Flames, 7<sup>th</sup> international Workshop on Laser-Induced Incandescence, CA-USA Tahoe city, June 2016
8. CHRAYTEH M., DREAN P., HUET T.R., Le myrtenal et ses hydrates : caractérisation par calculs de chimie quantique et spectroscopie micro-onde, Colloque de la Société Française de Physique, Bordeaux. Book of abstract, 2016.
9. HUSANU F. G., IRIMIEA C., CARPENTIER Y., GURLUI S., FOCSA C., Analysis of Soot Samples by Laser Desorption/Ionization and Time-of-Flight Mass Spectrometry, 6<sup>th</sup> Romanian National Conference of Applied Physics, Iasi, Romania, 26-27 November 2016
10. IRIMIEA C., CARPENTIER Y., ORTEGA I. K., VOJTISEK M., POPOVICHEVA O., FOCSA C., Chemical analysis of exhaust particles emitted by various automobile engines using different fuels and operation conditions, Réunion plénière du GDR Suie, Orléans, 10-12 octobre 2016
11. IKHENAZENE R., PIRIM C., CARPENTIER Y., FOCSA C., CHAZALLON B., OUF F.-X., Etude de la capacité glaçogène d'analogues de suies d'avion via le mode dépôt, Réunion plénière du GDR Suie, Orléans, 10-12 octobre 2016
12. ORTEGA I. K., IRIMIEA C., DELHAYE D., PIRIM C., FOCSA C., VANCASSEL X., Contamination induced by the use of PTFE lines in aeronautic soot sampling, 22<sup>nd</sup> European Aerosol Conference, Tours, France, 4-9 septembre 2016
13. ORTEGA I. K., DELHAYE D., JING L., LEDUR D., FERRY D., IRIMIEA C., PIRIM C., CHAZALLON B., FOCSA C., SALM F., VANCASSEL X., Combustion aerosol standard generator for aeronautic fuel, 22<sup>nd</sup> European Aerosol Conference, Tours, France, 4-9 septembre 2016 – *Best Poster Award*
14. IKHENAZENE R., PIRIM C., CARPENTIER Y., FOCSA C., CHAZALLON B., OUF F.-X., Ice nucleation activity of airplane soot surrogates in deposition mode investigated with the IDroNES set-up, 22<sup>nd</sup> European Aerosol Conference, Tours, France, 4-9 septembre 2016

15. IHKENAZENE R., PIRIM C., CARPENTIER Y., FOCSA C., CHAZALLON B., OUF F.-X., ORTEGA I. K., Characterization of airplane soot surrogates using Raman spectroscopy, 22<sup>nd</sup> European Aerosol Conference, Tours, France, 4-9 septembre 2016
16. ORTEGA I. K., IRIMIEA C., DELHAYE D., CARPENTIER Y., ZISKIND M., OUF F.-X., SALM F., GAFFIÉ D., YON J., FERRY D., THERSSEN E., VANCASSEL X., FOCSA C., *Chemical characterization of airplane soot: complete engine versus combustion chamber*, 22<sup>nd</sup> European Aerosol Conference, Tours, France, 4-9 septembre 2016
17. CARPENTIER Y., IRIMIEA C., ORTEGA I. K., PIRIM C., CHAZALLON B., ZISKIND M., FACCINETTO A., THERSSEN E., FOCSA C., *Improvement of the laser two-step mass spectrometry (L2MS) technique for the surface analysis of aerosol particles using VUV coherent sources*, 22<sup>nd</sup> European Aerosol Conference, Tours, France, 4-9 septembre 2016
18. THERSSEN E., IRIMIEA C., CARPENTIER Y., FOCSA C., *“Simultaneous detection of soot and its precursors using one wavelength excitation”*, 7<sup>th</sup> International Workshop on Laser Induced Incandescence, Tahoe City, California, USA, 19-23 juin 2016
19. CHAZALLON B., ORTEGA I.K., IKHENAZENE R., PIRIM C., CARPENTIER Y., IRIMEA C., FOCSA C., OUF F.-X., Characterization of Airplane Soot Surrogates Using Raman Spectroscopy and Laser Ablation Techniques, European Geophysical Union, Vienna, Austria, 17-22 Avril 2016
20. PIRIM C., IKHENAZENE R., ORTEGA I. K., CARPENTIER Y., FOCSA C., CHAZALLON B., OUF F.-X., Soot Aerosol Particles as Cloud Condensation Nuclei: From Ice Nucleation Activity to Ice Crystal Morphology, European Geophysical Union, Vienna, Austria, 17-22 Avril 2016
21. IRIMIEA C., CARPENTIER Y., ORTEGA I. K., NUNS N., FACCINETTO A., THERSSEN E., FOCSA C., ToF-SIMS and Combustion, ToF-SIMS Meeting, Mons, Belgique, 9 – 10 mars 2016
22. IVANOVSKY A., DUMOULIN D., CRIQUET, J. PRYGIEL, POHU J., HOTTIN F., BILLON G. Quality assessment of a storm overflow, by using different frequency monitoring (Northern France). EGU, 17-22 April 2016 Vienna (Austria).
23. PRYGIEL E., BILLON G., FRANCOIS A., DUMOULIN D., CHAUMONT V., GEFFARD O., CRIQUET J., PRYGIEL J. Resuspension of Metal Contaminated Sediments and Caged Gammarid Responses in Navigated Channelized Rivers. 18<sup>th</sup> International Conference on Heavy Metals in the Environment, 12-15 September 2016, Ghent (Belgium).
24. NOBLE PJ., VAN DE VIJVER B., J. PRYGIEL, VERLEYEN E., IVANOVSKY A., LESVEN L., BILLON G. Spatial and temporal variations in Diatoms from la Chaîne des Lacs urban watershed, Nord-Pas-de-Calais, France, in relation to water quality. TMS Annual meeting Lille, FRANCE, 17-18 November 2016, Lille (France).
25. Flament P., H.Delpouve, K. Deboudt and E. Bychkov. Iron chemical speciation in atmospherically processed industrial aerosols. 32<sup>th</sup> international SEGH Conference (SEGH 2016), Brussels, Belgium, 4<sup>th</sup>-8<sup>th</sup> July, 2016.
26. Flament P., N. Mattielli and K. Deboudt, Iron solubility and isotopic fractionation in atmospherically processed industrial aerosols, Joint European Stable Isotope Users Group Meeting (JESIUM) 2016, 4–9 September 2016, Gent, Belgium.
27. Guilbaud S., P. Augustin, K. Deboudt, H. Delbarre, E. Dieudonné, P. Flament, M. Fourmentin, C. Gengembre, F. Marteel Changes in the mixing state and size distribution of aerosols during the urban transport of industrial plumes
28. 21<sup>st</sup> International Transport and Air Pollution Conference (TAP 2016), Lyon, France, 24-26<sup>th</sup> May 2016.
29. P.N. MELKI, F. LEDOUX, S. AOUAD, S. BILLET, B. EL KHOURY, Y. LANDKOCZ, D. COURCOT, R.M. ABDEL-MASSIH. Physicochemical characteristics, mutagenicity, genotoxicity and clastogenicity of atmospheric aerosols under industrial and rural influence. 22<sup>nd</sup> European Aerosol Conference, Tours, France, September 4-9, 2016.
30. M. BORGIE, F. LEDOUX, A. VERDIN, Z. DAGHER, F. CAZIER, P. SHIRALI, M. GUALTIERI, H. GREIGE, D. COURCOT. Chemical composition and in vitro short-term exposure to air pollution fine and ultrafine particles induced cytotoxicity and metabolic activation of organic compounds in a human lung cell line. 22<sup>nd</sup> European Aerosol Conference, Tours, France, September 4-9, 2016.
31. P.N. MELKI, Y. LANDKOCZ, S. FRÈRE, V. ANDRÉ, S. AOUAD, F. LEDOUX, B. EL KHOURY, F. SICHEL, D. COURCOT, R.M. ABDEL-MASSIH, S. BILLET. Health impact of air pollution in Northern Lebanon: from

chemical and toxicological analyses to a pilot epidemiological study. 19th International Congress on In Vitro Toxicology, Juan-les-Pins, France, Oct. 17-20, 2016.

32. AL ZALLOUHA M., MEAUSOONE C., LANDKOCZ Y., CAZIER F., COURCOT D., CAILLIEZ J.C., GOSSET P., BILLET S., HALKET J., 2016. Air pollution and ageing: development of a metabolomic approach. 2nd metabolomics Sardinian Scientific School "How to bridge metabolomics and genomics", 12-16 September 2016, Pula, Sardinia, Italy.