

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

2017

1. LAMOUREUX N., DESGROUX P., High efficiency of coupling LIF and CRDS for measuring traces species in flames: case of N-species involved in the prompt-NO formation, Bielefeld, June 2017
2. S. GRIMONPREZ, A. FACCINETTO, D. PETITPREZ, P. DESGROUX, S.BATUT, L. CAPONI, M. CAZAUNAU, E. PANGUI, M. MAILLÉ, P. FORMENTI, J.F. DOUSSIN, Cloud condensation nuclei activation of Diesel and Kerosene flame soot particles aged in a smog chamber. International Conference on the Aerosol Cycle, 21st – 23rd March 2017, Lille (FR)
3. C. BETRANCOURT, P. DESGROUX, X. MERCIER, A. FACCINETTO, F. LIU, T. TRITSCHER, Investigation of the size distribution of the incipient soot particles in premixed low sooting flames of n-butane using laser induced incandescence and 1 nm-scanning mobility particle sizing. International Conference on the Aerosol Cycle, 21st – 23rd March 2017, Lille (FR)
4. X. MERCIER, S.BATUT, A. FACCINETTO, G. VANHOVE, A. EL BAKALI, P. DESGROUX, D. BOZANIC, G. GARCIA, L. NAHON, Identification of cyclopentaring-fused-PAHs in a low pressure sooting flame by means of photoelectron photoion coincidence spectroscopy, European Combustion Meeting 2017, Dubrovnik (CR)
5. MULLA I., DESGROUX P., LECORDIER B., HONORÉ D., CESSOU A., Soot volume fraction imaging in turbulent non-premixed butane and ethylene jet flames using laser-induced incandescence, European Combustion Meeting 2017, Dubrovnik (CR)
6. L. GIARRACCA, N. LAMOUREUX, S. GOSELIN, L. GASNOT, P. DESGROUX, EXPERIMENTAL STUDY ON THE EFFECT OF FURAN OXIDATION ON NOX FORMATION IN LOW PRESSURE FLAMES, 10TH Mediterranean Combustion Symposium, Naples, September 2017
7. Y. FENARD and G. VANHOVE, A low-temperature kinetic model of the oxidation of tetrahydrofuran, European Combustion Meeting, Dubrovnik, 2017
8. KRAVTCHENKO F., PILLIER L., BATUT S., CALIMET B. and FITTSCHEN C., Etude de la réactivité d'espèces radicalaires de type peroxy d'intérêt atmosphérique, Journées Interdisciplinaires de la Qualité de l'Air (JIQA 2017), Villeneuve d'Ascq, 2-3 Février 2017
9. KRAVTCHENKO F., PILLIER L., BATUT S., CALIMET B. and FITTSCHEN C., Etude de la réactivité d'espèces radicalaires de type peroxy d'intérêt atmosphérique, Colloque du Groupe Français de Cinétique et Photochimie (GFCP2017), Douai, 20-21 Juin 2017
10. M. GENETE M., GALLINA S., CASTRIC V., VEKEMANS X., A tool to genotype individuals at highly polymorphic loci from raw NGS reads data: application to the self-incompatibility locus of Brassicaceae, Plant Genome Evolution Meeting. Barcelona, 2017.
11. SIMON S, AZEVEDO-FAVORY J, MÖRCHEN M, BURGHGRAEVE N, LAGRANGE T, CASTRIC V. How unusual is the silencing pathway controlling dominance/recessivity interactions between self-incompatibility alleles in Arabidopsis ? EpiPlant meeting, Orsay, 2017
12. CHANTREAU M, BROM T, POUX C, VEKEMANS X, BILLIARD S, CASTRIC V. Allelic diversification at the self-incompatibility locus in Arabidopsis. Society for Molecular Biology and Evolution, Austin, USA, 2017
13. DUBUISSON P., L. C.-LABONNOTE, F. MINVIELLE, J.-C. PERE, M. COMPIEGNE, V. WINIAREK, The ARTDECO radiative transfer library: a tool to study aerosol radiative impact, International Conference on Aerosol Cycle (ICAC), Lille (France), 2017.

14. HUBERT P., H. HERBIN, O. PUJOL, L. CLARISSE, A. DEGUINE, N. VISEZ, D. PETITPREZ, Retrieval of Aerosol Complex Refractive Indices in the Infrared and UV-Visible spectral regions, ICAC conference, 21-23 mars 2017.
15. POTIER E., J.C. PERE, F. MINVIELLE, Is air quality over the Haut-de-France region sensitive to climate change? Methodology using the CHIMERE Chemistry-Transport Model. International Conference on Aerosol Cycle (ICAC), Lille, 21-23 March 2017.
16. POTIER E., A. WAKED, A. BOURIN, V. MICHOU, D. OLIVEIRA, F. MINVIELLE, J-C. PERE, E. PERDRIX, V. RIFFAULT, L. Y. ALLEMAN, S. SAUVAGE, Investigate the potential transport of pollution to provide meaningful information in chemistry-transport modelling of aerosols in the Hauts-de-France area. Journée de lancement du CPER CLIMIBIO, Lille, 6 Sept. 2017.
17. CHRAYTEH M., DREAN P., HUET T. R., LORU D., SANZ M. E., High Resolution Spectroscopy of Hydrates of Fenchone, 25th Colloquium on High-Resolution Molecular Spectroscopy, Helsinki (Finlande). Book of abstract, 20-25/08/2017.
18. CHRAYTEH M., DREAN P., HUET T. R., Structures of microsolvated myrtenal from rotational spectroscopy, 25th Colloquium on High-Resolution Molecular Spectroscopy, Helsinki (Finlande). Book of abstract, 20-25/08/2017.
19. CHRAYTEH M., DREAN P., HUET T. R., Characterization of the mono- and di- hydrates of perillaldehyde by quantum chemistry calculations and FTMW spectroscopy, 25th Colloquium on High-Resolution Molecular Spectroscopy, Helsinki (Finlande). Book of abstract, 20-25/08/2017.
20. MAMMEZ M.-H., CACCIANI P., COSLEOU J., Spectroscopy of ammonia in gas phase around 1.45  $\mu\text{m}$ , 25th colloquium on High-Resolution Molecular Spectroscopy. Helsinki. Book of Abstracts, 2017.
21. VOJKOVIC M., NOBLE J., DUCA D., CARPENTIER Y., KENNY S., IRIMIEA C., ZISKIND M., FACCINETTO A., FOCSA C., Influence of the desorption and ionization wavelengths for the surface chemical analysis of soot particles by L2MS, Réunion plénière du GDR Suie, 27-28 septembre 2017, Orsay, France
22. IRIMIEA C., CARPENTIER Y., POPOVICHEVA O. B., KIREEVA E. D., ORTEGA I. K., SCHWARZ J., VOJTISEK LOM M., FOCSA C., Impacts of the engine regime and the nature of the fuel on the chemical composition of soot particles emitted by gasoline and diesel engines, Réunion plénière du GDR Suie, 27-28 septembre 2017, Orsay, France
23. NOBLE J. A., CARPENTIER, Y., VOJKOVIC, M., CHAZALLON, B., PIRIM, C., ZISKIND, M., FOCSA, C., Chemical characterisation of the particulate matter emitted by automobile motors: the PEMs4Nano project, 223rd European Aerosol Conference, Zürich, Switzerland, 27 August – 1 September 2017
24. CARPENTIER Y., IRIMIEA C., POPOVICHEVA O., KIREEVA E., ORTEGA I. K., SCHWARZ J., VOJTISEK M., FOCSA C., Chemical composition discrimination of soot particles emitted by a heavy-duty engine: impact of operating regime and fuel biodiesel content, 23rd European Aerosol Conference, Zürich, Switzerland, 27 August – 1 September 2017
25. NOBLE J.A., NGO L., IKHENAZENE A. R., IRIMIEA C., LEFEVRE G., VOJKOVIC M., DUCA D., KENNY S., PIRIM C., CARPENTIER Y., CHAZALLON B., NUNS N., YON J., THERSSEN E., FOCSA C., Characterisation of propane-based CAST soot samples by combined vibrational spectroscopic and mass spectrometric studies, 23rd European Aerosol Conference, Zürich, Switzerland, 27 August – 1 September 2017
26. ORTEGA I.K., IRIMIEA C., DELHAYE D., FOCSA C., Contamination induced by the use of PTFE lines in aeronautic soot sampling, 23rd European Aerosol Conference, Zürich, Switzerland, 27 August – 1 September 2017
27. CHAZALLON B., RODRIGUEZ C., PIRIM C., Selectivity in Semi-clathrates of TBAB probed by Raman spectroscopy: CO<sub>2</sub> capture from CO<sub>2</sub>-N<sub>2</sub> gas mixtures, ICGH9, Denver (USA), 25-30 June 2017
28. POPOVICHEVA O., CARPENTIER Y., IRIMIEA C., KIREEVA E., ORTEGA I. K., SCHWARZ J., VOJTISEK M., FOCSA C., The effect of bio-diesel fuel on the particulate matter emitted by a Diesel engine in transient and steady-state regimes, 4th International Conference on Atmospheric Sciences and Application to Air Quality, 29-31 May 2017, Strasbourg, France

29. IKHENAZENE R., PIRIM C., CARPENTIER Y., FOCSA C., CHAZALLON B., Characterization of airplane soot surrogates by Raman spectroscopy, 1st International Conference on Aerosol Cycle (ICAC), Lille, France, 21-23 March 2017
30. PIRIM C., IKHENAZENE R., ORTEGA I.K., CARPENTIER Y., FOCSA C., CHAZALLON B., Ice nucleation properties of airplane soot surrogates using vibrational micro-spectroscopy, Atmospheric Ice Nucleation Conference – Focus Meeting 9, Leeds, United-Kingdom, 16-17 January 2017
31. KOPEC S., MARTINEZ-NUÑEZ E., PELAEZ D., Novel procedure for the automatic determination of stationary points on intermolecular potential energy surfaces, Réunion GDR Thèmes, Metz, France, 16 novembre 2017.
32. FOTSING–KWETCHE C., BRIQUEZ S., TOUBIN C., DUFLOT D., Theoretical investigation of the reactivity of Cl radicals with fatty acids, International Conference on Aerosol Cycle Sources - Aging - Sinks - Impacts", Lille, Book of Abstracts, 2017 & JTMS17 Journées Théorie, Modélisation et Simulation 2017, Paris, 2017.
33. LOVRIC J., FOTSING–KWETCHE C., DUFLOT D., MONNERVILLE M., BRIQUEZ S., TOUBIN C., Molecular modelling of organic sea-salt particles, International Conference on Aerosol Cycle Sources - Aging - Sinks - Impacts", Lille, Book of Abstracts, 2017.
34. GORNY J. , LESVEN L. , DUMOULIN D., ALAIMO V., BILLON G., NOIRIEL C., PIROVANO C. AND MADÉ B, Comparing dissolved arsenic species measured by DGT with 3MP, ferrihydrite, Metsorb, Zinc ferrite and zirconium dioxide binding gels, DGT Conference, 6-8 September 2017, Gold Coast, Australia
35. FALANTIN C., LE PERSON A., MONCOMBLE A, CORNARD J.P.. Influence of oxygen-by-sulfur substitution on the complexation of environmental interest metals by model compounds of organic matter ISMEC 2017 - International Symposium on Metal Complexes, Dijon, 2017 (FRANCE)
36. MONCOMBLE A, JANI THAVILIGADU D., CORNARD J.P. .Complexation of some divalent cations with morin: a spectroscopic and theoretical study. WATOC 2017 - 11th Triennial Congress of the World Association of Theoretical and Computational Chemistry, Munich, 2017 (Allemagne)
37. JANI THAVILIGADU D., MONCOMBLE A., CORNARD J.P.. The study of the complexation of manganese with morin: a theoretical and experimental approach. JNOEJC 2017 - Journée Nord Ouest Européenne des Jeunes Chercheurs, Caen, 2017 (France)
38. J. A. GOMEZ, S. SENG, M. MOREAU, I. DE WAELE, Y. A. TOBON. Study of the photoreactivity of individual water-droplets containing dicarboxylic acids of atmospheric interest. Goldschmidt 2017, August 13-18, 2017, Paris (France)
39. IVANOVSKY A., N. VISEZ, A. ROOSE, M. CHOËL, Sticking of particulate matter on airborne pollen, European Aerosol Conference, 27 August – 1 September 2017, Zurich, Switzerland
40. GRIMONPREZ S., N. VISEZ, M. CHOËL, D. PETITPREZ, Pollen cytoplasmic granules induce heterogeneous nucleation of water droplets at low supersaturation, European Aerosol Conference, 27 August – 1 September 2017, Zurich, Switzerland
41. BRUN M., De MANINCOR N., FISOGNI A., FRANCHOMME M., HAUTEKEETE N., PIQUOT Y., STORDEUR B., 2017, Le voyage de la biodiversité en ville : Focus sur le voyage des insectes pollinisateurs et leur rôle dans les continuités écologiques, Fête de la Science 2017, Lille Saint-Sauveur, 2017.
42. BRUN M., CABARRY S., PELLERIN C., STORDEUR B., LABOUREUR M., HINNEWINKEL C., FRANCHOMME M., Représentations, pratiques et interactions entre acteurs impliqués dans les Mesures d'Atténuation et d'Adaptation au Changement Climatique. Journée de lancement CLIMIBIO, Université de Lille - sciences et technologies, 2017.
43. BRUN M., FISOGNI A., PERUZZI M., CUVILLIER V., FRANCHOMME M., HAUTEKEETE N., HINNEWINKEL C., PIQUOT Y., Réseaux d'interactions, état de santé et connectivités des pollinisateurs sauvages en milieu urbain : effets d'un gradient d'urbanisation. Journée de lancement CLIMIBIO, Université de Lille - sciences et technologies, 2017.
44. LECLERCQ-DRANSART, J. ; DEMUYNCK, S.; GRUMIAUX, F.; LEMIERE, S.; PERNIN, C.; LEPRÊTRE, A. (2017) Les isopodes terrestres face aux changements climatiques, 6 septembre 2017, journée de lancement CPER-Climibio, Villeneuve d'Ascq, France (poster)
45. LECLERCQ-DRANSART, J. ; DEMUYNCK, S.; GRUMIAUX, F.; LEMIERE, S.; PERNIN, C.; LEPRÊTRE, A. (2017) Agir sur la « Trame brune » pour favoriser la mobilité de la faune du sol, 6 septembre 2017, journée de lancement CPER-Climibio, Villeneuve d'Ascq, France (poster)

46. SOTTY J., GARÇON G., DENAYER F-O., ALLEMAN L. Y., PERDRIX E., DUBOT P., LO-GUIDICE J-M., CANIVET L. Effects of repeated exposures to fine particles (PM<sub>0.18-2.5</sub>) and quasi-ultrafine particles (PM<sub>0.18</sub>) on inflammatory chronic lung disease exacerbation. SETAC Europe 27<sup>th</sup> symposium Annual Meeting 7 – 11 may 2017, Brussels, Belgium.
47. SALEH Y., ANThERIEU S., ALLEMAN L. Y., PLATEL A., SOTTY J., DUBOT P., PERDRIX E., NESSLANY F., CANIVET L., GARÇON G., LO-GUIDICE J-M. Effect of ultrafine atmospheric particles on the respiratory system in mice. Eurotox 2017: 53rd congress of the European societies of toxicology, 10 – 13 septembre 2017, Bratislava, Slovaquie.
48. SOTTY J., GARÇON G., DENAYER F-O., ALLEMAN L. Y., PERDRIX E., DUBOT P., LO-GUIDICE J-M., CANIVET L. Effects of repeated exposures to fine particles (PM<sub>0.18-2.5</sub>) and ultrafine particles (PM<sub>0.18</sub>) on inflammatory chronic lung diseases exacerbation. Congrès Annuel de la Société Française de Toxicologie, 23 – 24 novembre 2017, Paris.
49. SALEH Y., ANThERIEU S., ALLEMAN L. Y., PLATEL A., SOTTY J., DUBOT P., PERDRIX E., NESSLANY F., CANIVET L., GARÇON G., LO-GUIDICE J-M. Effect of ultrafine atmospheric particles on the respiratory system in mice. Congrès Annuel de la Société Française de Toxicologie, 23 – 24 novembre 2017, Paris.
50. Devien L, Giovannelli G, Cuny D, Hulo S, Matran R, Amouyel P, Edmé JL, Dauchet L, Sources de pollution de l'air au domicile : association avec fonction et symptômes respiratoires. Congrès ADEL SFSP Amiens oct 2017.
51. W. AHMAD, A. TOMAS, P. CODDEVILLE, C. COEUR-TOURNEUR<sup>1</sup>, A. CUISSET<sup>1</sup>, Effects of Criegee Intermediate and OH-Radical Scavengers on the Formation of New Particles in the Ozonolysis of Limonene, International Conference on Aerosol Cycle – Sources, Aging, Sinks, Impacts - ICAC 2017, Villeneuve-d'Ascq, France, 21-23 March, 2017
52. M. DUNCIANU, A. LAHIB, A. TOMAS, S. DUSANTER, Atmospheric measurements of peroxy radicals by chemical amplification, EGU General Assembly, Vienne, Autriche, April 23-28, 2017
53. GRIRA, W. AHMAD, P. CODDEVILLE, A. TOMAS, Ozonolyse de COVB oxygénés en chambre de simulation atmosphérique et en réacteur à écoulement laminaire : Cinétiques et formation d'aérosols organiques secondaires, colloque annuel du Groupe Français de Cinétique et Photochimie (GFCP), Douai, France, 20-21 juin 2017
54. J. LASNE, M. ROMANIAS, V. RIFFAULT, F. THEVENET, Ozone Uptake on Clay Dust in the Atmosphere, Journée de Lancement du Projet Environnemental CLIMIBIO, Lille (France), September 6, 2017
55. M. ROMANIAS, J. LASNE, M. ZEINEDDINE, V. RIFFAULT, F. THEVENET, Heterogeneous reaction of NO<sub>2</sub> with volcanic dust in the atmosphere: uptake coefficients and HONO formation yields, Colloque du Groupe Français de Cinétique et Photochimie, Douai (France), June 20-21, 2017
56. M. ZEINEDDINE, M. ROMANIAS, V. RIFFAULT, F. THEVENET, Heterogeneous interaction of isopropanol with several selected natural dust samples, colloque annuel du Groupe Français de Cinétique et Photochimie (GFCP), Douai, France, 20-21 juin 2017
57. Ahmad W., A. Tomas, P. Codeville, C. Coeur, A. Cuisset. Effects of Criegee Intermediate and OH-Radical Scavengers on the Formation of New Particles in the Ozonolysis of Limonene. International Conference on Aerosol Cycle (ICAC), Sources - Aging - Sinks – Impacts. 21-23 March 2017, Lille, France.
58. Beji A., K. Deboudt, P. Flament, M. Fourmentin, S. Khardi, B. Muresan, A. Thomasson, Physico-chemical characterization of fine and ultrafine non-exhaust particles generated by road traffic in urban and suburban environment, 22nd International Transport and Air Pollution Conference (TAP 2017), 15-16 November 2017, Zürich, Switzerland
59. Bray C., F. Hindle, R. Bocquet, A. Cuisset, G. Mouret, Chirped pulse spectrometer operating at 200 GHz, 9th Terahertz Days, Dunkirk, France 12/06/17-15/06/17.
60. Bray C., F. Hindle, R. Bocquet, A. Cuisset, G. Mouret, Chirped pulse spectrometer operating at 200 GHz, The 25th International Colloquium of High Resolution Molecular Spectroscopy, Helsinki, Finland, 20/08/17 – 25/08/17.
61. Bray C., F. Hindle, A. Cuisset, R. Bocquet, G. Mouret, B.J. Drouin, V. Boudon, THz rotational spectroscopy of weakly polar CH<sub>3</sub>D and non-polar CH<sub>4</sub> molecules using a widely tunable photomixing synthesizer

- based on a frequency comb, The 25th International Colloquium of High Resolution Molecular Spectroscopy, Helsinki, Finland, 20/08/17 – 25/08/17.
62. Guilbaud S., K. Deboudt, P. Flament and M. Fourmenti, Development of a methodology for characterization of secondary inorganic aerosols by cryo-TSEM-EDS, ICAC 2017: International Conference on Aerosol Cycle Sources - Aging - Sinks – Impacts, 21st -23rd March 2017, Villeneuve d'Ascq, France.
  63. Guilbaud S., K. Deboudt, P. Flament and M. Fourmentin, Characterization of secondary aerosols by cryo-TSEM-EDS : methodological development, 2017 European Aerosol Conference (EAC 2017), Zürich, Switzerland, August 27th-September 1st, 2017.
  64. Roucou A., A. Cuisset, G. Mouret, C. Bray, D. Fontanari, C. Coeur, F. Hindle, R. Bocquet, Analysis of the 3-methoxyphenol conformers stability by mean of high-resolution THz spectroscopy, The 25th International Colloquium of High Resolution Molecular Spectroscopy, Helsinki, Finland, 20/08/17 – 25/08/17.
  65. Roucou A., A. Cuisset, G. Mouret, D. Fontanari, C. Bray, F. Hindle, R. Bocquet, Analysis of the 3-methoxyphenol conformers stability by mean of high-resolution THz spectroscopy, SPECMO - 2015 Plenary Meeting - Young Researchers Forum, Université Lille 1, Villeneuve d'Ascq, France, 22/05/17 – 23/05/17.
  66. Roucou A., A. Cuisset, G. Mouret, D. Fontanari, C. Bray, F. Hindle, R. Bocquet, Analysis of the 3-methoxyphenol conformers stability by mean of high-resolution THz spectroscopy, International Conference on Aerosol Cycle 2017 Labex CaPPA, Villeneuve d'Ascq, France 21/03/17 – 23/03/17.
  67. NDONG A., VERDIN A., CABRAL M., CAZIER F., LEDOUX F., COURCOT D., DIOUF A., GUALTIERI, M. FALL M. Chairepol : Pollution atmosphérique extérieure et intérieure à Dakar (Sénégal). Journées Interdisciplinaires sur la qualité de l'Air, JIQA 2017. Villeneuve d'Ascq, 2 et 3 février 2017.
  68. AL ZALLOUHA M., LANDKOCZ Y., VITAGLIANO J.J., LEDOUX F., CAZIER F., CAILLIEZ J.C., GOSSET P., COURCOT D., BILLET S. Recherche de l'influence de l'âge sur la réponse biologique à la pollution atmosphérique. Journées Interdisciplinaires sur la qualité de l'Air, JIQA 2017. Villeneuve d'Ascq, 2 et 3 février 2017.
  69. M. AL ZALLOUHA, Y. LANDKOCZ, J.-J. VITAGLIANO, P.J. MARTIN, F. LEDOUX, F. CAZIER, F. VISADE, J.-C. CAILLIEZ, P. GOSSET, D. COURCOT, S. BILLET, Particules fines atmosphériques et biomarqueurs d'exposition - Influence de l'âge. *3ème Colloque International Francophone en Environnement et Santé*, Dunkerque, France, 23-24 octobre 2017
  70. M. BORGIE, M. AL ZALLOUHA, Y. LANDKOCZ, G. TREMOLET, J.-J. VITAGLIANO, J.-C. CAILLIEZ, F. LEDOUX, A. VERDIN, P.J. MARTIN, P. GOSSET, D. COURCOT, S. BILLET, MiARN : Biomarqueurs précoces d'exposition à la pollution atmosphérique particulaire, en fonction de l'âge, dans les lymphocytes humains. *3ème Colloque International Francophone en Environnement et Santé*, Dunkerque, France, 23-24 octobre 2017
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  73. P.N. MELKI, Y. LANDKOCZ, F. LEDOUX, S. FRÈRE, S. BILLET, R.M. ABDEL-MASSIH, D. COURCOT, S. AOUD, Etude multidisciplinaire de la pollution atmosphérique particulaire au Nord Liban: de l'analyse physico-chimique à l'évaluation sociétale et épidémiologique. *3ème Colloque International Francophone en Environnement et Santé*, Dunkerque, France, 23-24 octobre 2017
  74. M. AL ZALLOUHA, G. BADRAN, A. HÉLIOT, C. MÉAUSOONE, P.N. MELKI, A. NDONG, M. BORGIE, S. PODOGHE, G. TREMOLET, A. VERDIN, S. BILLET, Y. LANDKOCZ, F. LEDOUX, P.J. MARTIN, D. COURCOT,

Impact des polluants atmosphériques sur la santé respiratoire : Identification de biomarqueurs d'exposition ou d'effet des contaminants chimiques gazeux et particulaires. Journée de lancement CPER Climibio - Changement climatique, Dynamique de l'atmosphère, Impacts sur la biodiversité et la santé humaine, Lille, France, 6 septembre 2017