Curriculum Vitae

Name : **Coppalle**
First name : **Alexis**
Date of birth: 2/7/1955
Private address: 12 Rue Caron Rouen 76000 France

Function : Professor at National Institute of Applied Sciences (INSA)
Address: UMR 6614 CORIA
INSA de Rouen
Campus du Madrillet
Av. de l'Université -BP 8
76801 Saint Etienne du Rouvray cedex France
coppalle@coria.fr
tel: + 33 2 32 95 97 73 fax: +33 2 32 95 97 80

Professor Alexis Coppalle is teaching at INSA (National Institute of Applied Sciences).
He is responsible of the cursus and courses "safety engineering and fire-structures" in the civil department.
He has several collaborations (joint supervision of doctoral students) with the Institute of Radiation Protection and Nuclear Safety (IRSN), as well as society Efectis in the field of fire safety. He worked on the effects of soot particles on the spread of fire. He is an expert in the field of aerosol measurements and characterization of soot particles in the flame zone, in the exhaust of combustion systems or in the plumes of fire. With the Central Laboratory of the City Police of Paris (LCPP), it develops tools for fire modeling to strengthen forensic methods. He has collaborations within the European project Aircraft Fire.
He was elected Member of the Board of INSA Rouen from 2008 to 2011.
Participation in selection committees of Associate Professor or Professor. PhD examiner.
Reviewer for journals and symposia with referees: Combustion and Flame, Combustion Science and Technology, Int. J. Thermal Science, Fire Safety Journal, Int. Symposium on Combustion, Int. Symposium on Fire Science.
Expert member of the Evaluation Commission of the Ministry Interior for the ministerial authorization to 'fire safety engineering' (Office of fire regulations).
He manage the research group on fire of the CNRS (period 2005-2013), and for the next period (2013-2016) (http://perso.ensem.inpl-nancy.fr/Anthony.Collin/GDR2864/)
Recent papers

-*Examination of wavelength dependent soot optical properties of diesel and diesel/rapeseed methyl ester mixture by extinction spectra analysis and LII measurements* Appl Phys B (2011) 104:253–271 DOI 10.1007/s00340-011-4416-4
J. Yon · R. Lemaire · E. Therssen · P. Desgroux · A. Coppalle · K.F. Ren

-*'Influence of Sampling and Storage Protocol on Fractal Morphology of Soot Studied by Transmission Electron Microscopy'*, Ouf, F. X. , Yon, J. , Ausset, P. , Coppalle, A. and Maillé, M.
Aerosol Science and Technology, 44: 11, 1005 (2010)

- "*Extension of RDG-FA for Scattering Prediction of Aggregates of Soot Taking Into Account Large Monomers Interactions*" Jérôme Yon, Claude Rozé, Thierry Girasole, Alexis Coppalle and Loïc Méès
Particle & Particle Systems Characterization Vol 25, 54-67, 2008

- "*Characterization of Soot Particles in the Plumes of Over-Ventilated Diffusion Flames*"
F.X. Ouf, J. Vendel, A. Coppalle, M.E. Weill, J. Yon Combustion Science and Technology, Vol 180, 674-698, 2008

- *Fire reconstruction and hypothesis validation using comparison points*, Thiry, A., Suzanne, M., Bazin, and Coppalle, A., Fire & Explosion Hazard, Leeds, 11 pp, April 2010

- Caumont-Prim, J. Yon, A. Coppalle et K. Ren, « Measurement of aggregates size distribution by inversion of angular light scattering »,
AAPP| Physical, Mathematical, and Natural Sciences 89, pp., 2011.

- *Theoretical and experimental study of light depolarization by nanoparticle fractal aggregates*
Bescond A., J. Yon, T. Girasole, C. Jouen, C. Rozé and A. Coppalle

J. Quant. Spectrosc. Radiat. Transfer (2012) DOI: http://dx.doi.org/10.1016/j.jqsrt.2012.10.011
- *Measurement of aggregates' size distribution by angular light scattering*
Caumont-Prim, C., Yon J., Coppalle A., Ouf F.-X. and Fang Ren K.
J. Quant. Spectrosc. Radiat. Transfer (2012) DOI: 10.1016/j.jqsrt.2012.07.029
- *Contribution to the study of particle resuspension kinetics during thermal degradation of polymers*
F.-X. Oufa, , , S. Delcoura, b, N. Azemab, A. Coppallec, L. Ferryb, F. Gensdarmesa, J.-M. Lopez-Cuestab, A. Nianga, S. Pontreaua, J. Yonc
Journal of Hazardous Materials Volumes 250–251, 15 April 2013, Pages 298–307
- *Design and performance of a new device for the study of thermophoresis: The radial flow thermophoretic analyser*
Brugière, E., Gensdarmes F., Ouf F.-X., Yon J., Coppalle A. and Boulaud D.
Journal of Aerosol Science, 61, 1-12 (2013) DOI: 10.1016/j.jaerosci.2013.03.001
-*2D soot concentration and burning rate of a vertical PMMA slab using Laser-Induced Incandescence*
Hébert D., Coppalle A., Talbaut M.
Proceedings of the Combustion Institute, 34, 2575-2582 (2013) DOI: 10.1016/j.proci.2012.06.096
- *Measurement in a wind tunnel of dry deposition velocities of submicron aerosol with associated turbulence onto rough and smooth urban surfaces*
Roupsard P., Amielh M., Maro D., Coppalle A., Branger H., Connan O., Laguionie P., Hébert D., Talbaut M.
Journal of Aerosol Science, 55, 12-24 (2013) DOI: 10.1016/j.jaerosci.2012.07.006