

**Ordre du jour du Conseil Scientifique du Labex CaPPA**

**9 Nov. 2021 de 9h00 à 17h00**

**Amphithéâtre de l'Institut Chevreul - Cité Scientifique - Villeneuve d'Ascq**

**Lien pour suivre en visio : <https://univ-lille-fr.zoom.us/j/91909189756?pwd=YXdybnBEeW4xbnUxNE5lcFFlOHpaUT09>**

9h00	<b>Accueil</b>
9h30-10h15	<b>Introduction de la journée : Rappels du contexte et des objectifs du projet.</b> <i>D. Petitprez et F. Parol</i>
10h15-12h05	<b>Exposés scientifiques.</b>
10:15-10:45	New insights in the iodine atmospheric chemistry. (WP6) <i>Maxime Infuso et Florent Louis.</i>
10:45-11:15	Secondary organic aerosols and their precursors: microsolvation, reactivity and hygroscopicity. (WP1) <i>Cécile Cœur et Manuel Goubet.</i>
11:15-11:25	Pause
11:25-12:05	Volcanic plumes: emission, aging and impacts on the atmosphere. What have we learnt from complementary approaches gathering satellite and ground-based observations, laboratory experiments and chemistry-transport modeling? (WP4/WP3/WP2) <i>Marie Boichu, Emmanouil Romanias et Frédéric Thévenet</i>
12h05-13h00	Pause déjeuner <i>Buffet</i>
13h00-14h00	Café + <b>Session posters</b> (voir liste détaillée en p.3)

- 14h00–15h30      **Exposés scientifiques.**
- 14:00-14:30    Influence of chemical composition and morphology on the activation of carbonaceous particles into cloud condensation nuclei (CCN) and ice nuclei (IN). WP5/WP2  
*Claire Pirim et Denis Petitprez.*
- 14:30-15:00    Detection of turbulent structures in the atmospheric boundary layer: development and assessment of an automated classification method for Doppler lidar horizontal scans. WP4/WP3  
*Elsa Dieudonné.*
- 15:00-15:30    Multi-angular polarimetric remote sensing to pin down global aerosol absorption and emission sources. (WP4/WP2)  
*Oleg Dubovik et Yevgeny Derimian*
- 15h30–16h45      Pause
- 16h45–16h05      **Bilan des actions « Formation ».** *Céline Toubin.*
- 16h05–16h30      **Perspectives pour 2022-2024.**
- 16h30-17h00      **Discussion générale** entre les membres du conseil scientifique et le comité de pilotage du Labex.
- 17h00              Clôture de la réunion.
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## Posters and presenters.

- P1** «Enhanced Aerosol Component Retrieval Using Visible and Thermal Infrared Spectrum »  
Marcos Herreras
- P2** «Rigorous dynamic error estimates provided by GRASP algorithm in diverse remote sensing applications: concept and validation »  
Milagros Herrera
- P3** «Application of existing Doppler lidars for simultaneous air quality applications: results from comparison with PM10, PM2.5 and granulometric observations in a multi-influenced harbor city »  
Elsa Dieudonné,
- P4** «Strength of TROPOMI satellite observations for the retrieval of volcanic SO<sub>2</sub> emissions using inverse modeling »  
Abhinna Behera
- P5** «Modelling of aerosol-humidity-cloud interactions in pristine oceanic regions».  
Faustine Mascout
- P6** «Study of the nighttime atmospheric reactivity of furan compounds with NO<sub>3</sub> radical in atmospheric simulation chamber 'CHARME' ».  
Fatima Al Ali
- P7** «Adsorption energies on carbonaceous surfaces: a combined experimental and theoretical approach ».  
Joelle Al Aseel
- P8** «Microsolvation of naphthaldehyde, an aerosol precursor, studied by microwave spectroscopy»  
Jordan Claus
- P9** «THz high-resolution spectroscopy, a new approach to investigate intramolecular hydrogen bond dynamics: Application to catechol a precursor of secondary organic aerosol in the atmosphere. »  
Jonas Bruckhuisen
- P10** « Absolute Absorption Cross Section of the C<sub>2</sub>H<sub>5</sub>O<sub>2</sub> Radical and Kinetic of its Self-Reaction: Rate Constant and Branching Ratio »  
Cuihong Zhang
- P11** « Deployment of the mobile DouAir atmospheric simulation chamber during CERVOLAND: A detailed look at monoterpene oxidation »  
Nina Reijrink

Plan d'accès à l'Institut Chevreul

