POSTER SESSION 1 - 22 July 2019 (MONDAY)

Air Pollution at Critical Infrastructure Sites and Its Influence for the Society

1. Air Quality and Urban Planning: Analysis of Pollutant Dispersion in Different Urban Configurations. **Victória Marques** (UFES - Brazil)

Air Pollution Control

2. Technology of Pleated Filter for Improve the Performance and to Increase the Filtration Efficiency of Particulate Emissions. **Hairton Oliveira** (BHA a Parker Hannifin company - Brazil)

3. Evaluation of Air Flow and Distribution in the Inlet Duct of a Bag Filter Through Computational Fluid Dynamics (CFD). **Paulo Henrique R. Santos** (UFMG - Brazil)

4. Development of Control Policies on Atmospheric Emissions from Stationary Sources at Rio de Janeiro State. **Jéssica de Oliveira Santos** (INEA - Brazil)

5. Influence of Operating Conditions on the Electrostatic Precipitation of Nanoparticles. **Raíssa G. S. A. Andrade** (UFSCar - Brazil)

6. Advance Air Pollution Treatment Technologies: Application of Smart Nanomaterials. **Gustavo Marques da Costa** (Feevale - Brazil)

7. The Importance of State Inspection and Vehicle Maintenance Programs to Air Pollution Control. **Fellipe de Oliveira Pinto** (INEA - Brazil)

8. Influence of particle size on the performance of the filter medium in filtering by bag filter. **Camila R. de Lacerda** (UFSCar - Brazil)

9. Evaluation of Particulate Matter Emissions in Railroads Equipped with a Sprinkling System for the Aspersion of Polymers During Transportation. Evandro Roncete (Aires - Brazil)

10. Filtration Performance of a Single Nanofiber Layer Add to a Filter Media by Centrifugal Spinning. **Ana Isabela Salussoglia** (UFSCar - Brazil)

11. Effect of Electrolytes on Particulate Suppression. **Arthur Fontana** (UFPA - Brazil)

12. A Visual Analysis Tool for Health Indexes and PM10 from São Carlos, São Paulo State, Brazil. **Eduardo Carlos Alexandrina** (UFSCar - Brazil)

13. Development of Polymeric Nanofiber and Their Application for Retention Fine Atmospheric Particles. **Daniela S. de Almeida** (UEM -Brazil)

Air Quality, Climate and Energy

14. Environmental Assessment Using Diesel Sugar Cane in Urban Bus Fleet. **Jéssica da Silva Lopes** (UFRJ - Brazil)

15. Comparison of Tropospheric Ozone and Nitrogen Dioxide Concentration Levels in Ecuador and other Latitudes. **Manuel A. Andino-Enríquez** (Yachay Tech University - Equador)

Atmospheric Boundary Layer

16. A New Direction in Air Pollution Modeling Considering Anomalous Diffusion. **Paulo Henrique Farias Xavier** (SENAI CIMATEC - Brazil)

17. A Solution of the Diffusion-Advection Equation with Diffusion Coefficient Dependent on the Distance of the Source in a Vertically Non-Homogeneous Planetary Boundary Layer. **André Luiz Santos da Soledade** (SENAI CIMATEC - Brazil)

Emissions Inventories Models and Processes

18. A Multicity Review of Air Quality and Pollutants Emissions in South America. **Luisa María Gómez Peláez** (UFES - Brazil)

19. Real-World Vehicular Emission Factors of Carbonyl Compounds Measured in a Rio de Janeiro Tunnel, Brazil. **Jose Almeida** (UERJ - Brazil)

20. Vehicular Emission Factor Based on Burned Fuel – Tunnel Rebouças Case, Rio de Janeiro. **Jose Claudino Souza Almeida** (UERJ - Brazil)

21. Estimation of the Emission of Particulate Matter by Fixed and Mobile Sources in the City of Bragança-PA. **Francisco Lima** (IFPA - Brazil)

22. Exhaust Vehicular Emissions in Santa Catarina-Brazil: Identification of Critical Sites. **Thiago Vieira Vasques** (UFSC - Brazil)

23. A New Method for Running Megan Model for Biogenic Emissions Estimation Using Terrain Data from WRF Model. **Thayná Gomes** (UFMG - Brazil)

24. Atmospheric Emissions from Pipe Laying Support Vessels in Santos Basin In 2016. **Thayana V. Nascimento** (UFJF - Brazil)

25. An Evaluation of Atmospheric Emissions Due to Biomass Burning in Brazil. **Nathan Campos Teixeira** (UFSC - Brazil)

26. Vehicular Emission Factors in São Paulo Evaluated with Measurements in Traffic Tunnels. **Guilherme Librete de Oliveira** (USP - Brazil)

27. Assessment of Individual Dry Bulk Terminals Fugitive Particulate Emissions' Influence on Local Air Quality. **Jacqueline Schraier** (Envex - Brazil)

28. Trends in Anthropogenic Emissions in the Andean City of Manizales, Colombia, Between 2014-2017. **Carlos González** (UNAL - Colombia)

29. Estimation and Analysis of Air Pollutants Emitted from Gray Iron Foundries. **Amanda Ribeiro** (UFMG - Brazil)

Management of Gaseous Emissions in Sewage Treatment Plants

30. Estimation and Impact of Methane Emissions in Brazilian Anaerobic-Based Sewage Treatment Plants. **Juliana Bohrer Santos** (UFM - Brazil)

31. Biogas Upgrading into Biomethane in the Agroindustry and Sanitation Sectors. **Larisse Maria de Azevedo Cavalcante** (UFJF - Brazil)

32. Evaluation of Methane Emission from a Hipotetic Food Waste Anaerobic Biodigester at a University Restaurant. **Camila da Rocha** (UFJF - Brazil)

33. Assessment of H2S Emission and Dispersion: A Case Study in a Full-Scale Anaerobic-Based Sewage Treatment Plant in Brazil. **Willian L. Andreão** (UFMG - Brazil)

POSTER SESSION 2 - 23 July 2019 (TUESDAY)

Environmental Odours and VOC

1. Modelling of Atmospheric Dispersion of Hydrogen Sulfide Emitted from Drainage System Channel in Drought and Rainy Periods. **Karoline Meneguzzi Tonani** (IFES - Brazil)

2. Measurement and Mathematical Modelling of Odour Gases in a Collagen and Gelatine Plant. **Rafael Geha Serta** (Ambiental RB - Brazil)

3. Application of Atmospheric Dispersion Modeling to Evaluate the Ammonia Emissions from a Refrigeration System. **Bruno da Silva Tolentino** (PBH - Brazil)

4. ARIA VIEMTM - Continuous Monitoring System of Odor Dispersion in Cellulose Plants. **Larissa Zanutto de Oliveira** (ARIA do Brasil - Brazil)

5. Measurements with Dynamic Chambers in the Waste Deposition of Porto Seguro-Bahia, Brazil. **Ana Luisa Santos De Carvalho** (UFSB - Brazil)

6. Volatile Organic Compound Characterization and Ozone Formation Potential in the Repouças Tunnel, Rio De Janeiro. **Ednardo Moreira Santos** (Petrobras - Brazil)

7. Dispersion Modelling of Odour Compounds Emitted by a Solid Waste Landfill in Grande Vitória - Espírito Santo, Brazil. **Evandro Roncete** (Aires - Brazil)

Measurements Studies/ New Sensors Technologies/ Remote Sensing

8. Preliminary Study of the Daily Profile of Carbon Dioxide in the Metropolitan Area of São Paulo. **Marcos Augusto Stoco** (USP - Brazil)

9. Source Apportionment of Metallic Elements in Atmospheric Particulate Matter. **Darlan Daniel Alves** (Feevale - Brazil)

10. Relationship Between PM2.5 Concentration and Meteorological Parameters in The East Zone of São Paulo Capital. **Luana Ferreira Vasconcelos** (USP - Brazil)

11. Wet Deposition Flux in Subtropical Areas: Case Study of Florianópolis. **Otávio Nunes dos Santos** (UFSC - Brazil)

12. Integrated Air Quality Assessment with the Use of Chemical and Biological Parameters. **Larissa Meincke** (Feevale - Brazil)

13. Low-Cost Air Quality Monitor to Quantify CO in Urban Areas. **Nathalia Morgana Rissi** (Unicamp - Brazil)

14. Evaluation of the Air Quality Data of the Monitoring Network of the State of Espirito Santo - Brazil. **Drielle dos Santos Ataliba Marvila** (Faculdade Pitágoras - Brazil)

15. Determination of Air Pollution Main Sources in a Medium-Sized City in São Paulo. **Rafaela Squizzato** (USP - Brazil)

16. Evaluation of the PM2.5 Enrichment Factor in Belo Horizonte. **Igor Moura** (UFMG - Brazil)

17. Air Quality Assessment During Copacabana's Reveillon. **Jéssica de Oliveira Santos** (INEA - Brazil)

18. Identification of Urban Heat Islands in Metropolitan Area of Belo Horizonte. **Aline Andrade do Nascimento** (UFMG - Brazil)

Model Evaluation and Analysis

19. Evaluation of the WRF Model in Predicting the Hail Rain Occurred in August 2018 in the Metropolitan Area of Belo Horizonte. **Luciano Lopes Mateus** (UFMG - Brazil)

20. Air Quality Forecast Models Applied in the Metropolitan Region of Salvador. **Anderson da Silva Palmeira** (SENAI CIMATEC - Brazil)

21. Dispersion of Scalar in an Aligned Array of Rectangular Buildings. **Nathalia Correa Ribeiro** (UFES - Brazil)

22. Long-range transport of air pollutants over Brazilian Southeastern: Meteorology modeling and emissions processing. **Rizzieri Pedruzzi** (UFMG/UNC - Brazil/USA)

23. Investigation of Run Segments in WRF for a Dry Month in Mesoscale. **Willian L. Andreão** (UFMG - Brazil)

24. Evaluation of the Chemical Transport of Pollutants in the Metropolitan Area of Salvador, Brazil. **Yasmin Kaore Lago Kitagawa** (UFES - Brazil)

Modelling to support exposure and Health Studies

25. Analysis of Particulate Matter Inside a Rest Home in São Paulo, Brazil. **Natannael Almeida Sousa** (USP - Brazil)

26. SOPRAR/Salvador Air Quality Forecast System of Salvador Metropolitan Region. **Samya de Lara Lins Pinheiro** (ARIA do Brasil - Brazil)

27. Analysis of Air Pollution During a Truckers Strike in Brazil, 2018. **Danilo Covaes Nogarotto** (Unicamp - Brazil)

28. Generalized Additive Model for Count Time Series: An Application to Study the Impact of Air Pollutants on Human Health. **Ana Julia Camara** (UFMG - Brazil)

29. Application of Modeling Atmospheric Dispersion to Check if a Meat-Paging Industry Interfers in Air Quality in the Region. **Bruno da Silva Tolentino** (UFMG - Brazil)

30. Estimation of the Health Benefits Associated with the Reduction of PM10 that Are in the Surroundings Areas of a Colombian Univarsity, Through the BenMAP Software. **Laura Vanessa Pinillos León** (Universidad Sergio Arboleda - Colombia)

31. Assessment of Air Quality in School Environments. Michele S. Gomes da Rosa (**Universidade de Lisboa** - Portugal)

Regulatory Modeling and SIP applications

32. Emission Estimation and Dispersion Mathematical Modeling of Particulate Matter from Concrete Batching for Impact Assessment on Air Quality. **Bruno da Silva Tolentino** (UFMG – Brazil)

33. Simulation of Vehicular Emissions and Its Dispersion at Presidente Antônio Carlos Avenue, in Belo Horizonte, Brazil. **Raisa Sant'Ana** (CDTN/UFMG - Brazil)