

DAY 1 - 22 July 2019 (Monday)

| Oral Sessions | | | | Main Auditorium | | | |
|------------------------|--|--|---|--|---|--|--|
| 08:00 - 09:00 | | | | Registration | | | |
| 08:30 - 09:00 | | | | Welcome and Opening Remarks. Taciana Albuquerque (UFMG, BRAZIL) | | | |
| 09:00 - 09:20 | | | | CMAS Center: 18-Years Serving the Community. Sarav Arunachalam , Acting as Director of the CMAS Center. (UNC, USA) | | | |
| 09:20 - 10:00 | | | | Keynote Address: Global-Scale Simulations and their Role in Air Quality Management. Barron Henderson (EPA, USA) | | | |
| 10:00 - 10:20 | | | | Expositor Exhibitions - Quality Ambiental, Hobeco, Atos and Aires | | | |
| 10:20 - 10:40 | | | | Coffee-Break | | | |
| Oral Session | | | | Plenary Session chaired by Maria de Fátima Andrade (USP, Brazil) | | | |
| 10:40-11:00 | | | | CMAQ v5.3 UPDATES. Sarav Arunachalam (UNC, USA) | | | |
| 11:00 -11:20 | | | | CMAS Center: Evolving Emissions Inventory and Modeling Development. Bok Haeng (UNC, USA) | | | |
| 11:20 -11:40 | | | | Modeling Vehicular Emissions at São Paulo. Rita Ynoue (USP, BRAZIL) | | | |
| 11:40 -12:00 | | | | Multiscale Applications of Two Online-Coupled Meteorology-Chemistry Models During Recent Field Campaigns in Australia: Model Evaluation, Sensitivity to Spatial Grid Resolutions, and Impacts of Air-Sea Interactions. Yang Zhang (NCSU, USA) | | | |
| 12:00 - 13:30 | | | | Lunch Time | | | |
| Keynote Address | | | | Main Auditorium | | | |
| 13:30 - 14:10 | | | | Keynote Address: Climate and Land Use Change Risks to the Amazon Forest. Carlos Nobre (UFES/INPE, BRAZIL) | | | |
| Oral Sessions | Main Auditorium | | Room 1010 | | Room 1012 | | |
| | Air Quality, Climate and Energy chaired by Barron Henderson (EPA, USA) | | Emissions Inventories, Models, and Processes chaired by Rita Ynoue (USP, Brazil) | | Model Evaluation and Analysis chaired by Neyval Reis (UFES, Brazil) | | |
| 14:10 - 14:30 | Impact of Electrification on Greenhouse Gases and Air Quality in California. Naresh Kumar (EPRI, USA) | | Development of an Atmospheric Emission Inventory from Stationary Sources in Brazil. Leila Martins (UFTPR, BRAZIL) | | Validation of the Modeling System WRF / CALMET Applied to the Dispersion of the Particulate Material (PM10) Produced by the Activity of Blasting of One Carbon Opencast Mine in the Department of Cesar, Colombia. José L. Rodríguez (University of Cesar, COLOMBIA) | | |
| 14:30 - 14:50 | Estimation of the Emission of Greenhouse Gases in Hydroelectric Dams in Colombia and Their Potential Impact on the Emission Factor of Electricity Generation. Frank Mayor-Ruiz (UNAL, COLOMBIA) | | Spatial Distribution of the Brazilian Official Vehicular Emission Inventory for Air Quality Modeling. Willian Andreão (UFMG, BRAZIL) | | Validation of an Early Alert System of PM2.5 for Bogotá, Colombia Through Modeling Software WRF-Chem. Nathalia Celis Mayorga (University of Cesar, COLOMBIA) | | |
| 14:50 - 15:10 | Evaluation of Climate Variability and Social Vulnerability in Colombia: Opportunities for the Outlining of Climate Change and Human Health Adaptive Strategies. Jimena Roncancio (USP, BRAZIL) | | Inventory of Atmospheric Emissions Stationary Sources Monitored from Rio de Janeiro State – Year Base 2017. Isabela Angellotti Costa (INEA, BRAZIL) | | New Geographical Data for WRF: An Updated Input Data for Brazil. Rizzieri Pedruzzi (UFMG, BRAZIL) | | |
| 15:10 - 15:30 | Coffee-Break | | | | | | |
| 15:10 - 16:20 | Poster Session 1 (Agenda Posters) | | | | | | |
| Oral Sessions | Main Auditorium | | Room 1010 | | Room 1012 | | |
| | Emissions Inventories, Models, and Processes chaired by Edmilson Freitas (USP, Brazil) | | Model Evaluation and Analysis / Air Quality chaired by Leila Martins (UFTPR, Brazil) | | Air Quality, Climate and Energy chaired by Gilberto Fisch (IEA, Brazil) | | |
| 16:20 - 16:40 | Studies of Air Quality in the Metropolitan Region of Porto Alegre Using Numerical Modeling. Marcelo Alonso (UFPEL, BRAZIL) | | Aerosol Assimilation with the EURAD-IM Inverse Chemistry Transport Model Over the Brazilian Northeast. Judith Hoelzemann (UFRN, BRAZIL) | | Greenhouse Gas Emissions from Nuclear Power Generation in the Brazilian Electricity Matrix. Fidélis Bitencurt (UFMG, BRAZIL) | | |
| 16:40 - 17:00 | Managing Air Quality: The New Air Emission Inventory for Belo Horizonte, Contagem and Betim. Flávio Daniel Ferreira (FEAM, BRAZIL) | | Analysis of the Tropospheric Ozone Samplings Made in the City of Uberlândia/MG in Brazil and its Relation to the Climatological Parameters. Euclides de Lima (UFUBE, BRAZIL) | | Quantification and Characterization of Particles Emitted by Pizzerias Burning Wood and Briquettes: Case Study at Sao Paulo, Brazil. Francisco Daniel Mota Lima (IFPA, BRAZIL) | | |
| 17:00 - 17:20 | Python-Based Mobile Emissions Inventory Model Development: Comprehensive Automobile Research Modeling System - CARS. Bok Haeng (UNC, USA) | | Critical Analysis of the New CONAMA Resolution 491/18 for Air Quality Patterns: Implications for Big Enterprises. Alceu Raposo Junior (Brandt Meio Ambiente, BRAZIL) | | Oxy-Fuel Combustion and Employment of Waste-Derived Alternative Fuels in the Clinkering Process: Modeling and Simulation. Débora Faria (UFMG, BRAZIL) | | |
| Keynote Address | | | | Main Auditorium | | | |
| 17:20 - 18:00 | | | | Keynote Address: Dealing with Uncertainties in Weather and Climate Prediction for Air Quality and Energy Applications. Pedro Leite Da Silva Dias (USP, BRAZIL) | | | |
| 18:00 - 21:00 | | | | Happy Hour (Lobby room) | | | |

DAY 2 - 23 July 2019 (Tuesday)

| Keynote Address | Main Auditorium | | |
|-----------------|--|--|--|
| 09:00 – 09:40 | Air Pollution And Human Health: A Pathologist's Perspective. Paulo Saldiva (USP BRAZIL) | | |
| Oral Session | Main Auditorium | Room 1010 | Room 1012 |
| | Modelling to support exposure and Health Studies chaired by Prashant Kumar (U.Surrey, UK) | Measurements Studies chaired by Boris Galvis (UNISALLE, Colombia) | Model Evaluation and Analysis / Emissions Inventories, Models, and Processes chaired by Elisa Goulart (UFES, Brazil) |
| 09:40-10:00 | Real-Time Modeling of Air Quality Estimates at Hyperlocal Scales and Connection from Outdoor to Indoor Air for Personal Exposure Studies. Sarav Arunachalam (UNC, USA) | PM2.5 Characteristics and Sources in São Paulo Metropolitan Area. Regina Miranda (USP BRAZIL) | Modeling Gas-Phase Pollutants in Paris City Using Street-in-Grid Model. Lya Lugon (Cerea Laboratory, FRANCE) |
| 10:00 –10:20 | Field Experiment Based Quantification of Air Pollution Exposure to In-Prem Babies and Comparison with Adult Exposure. Ashish Sharma (University of Surrey, UK) | Source Apportionment Studies of SPM, PM10 and PM2.5 in the Metropolitan Region of Greater Vitória Using Receptor Models. Eison Galvão (UFES, BRAZIL) | Variability Of Emissions From Soil Resuspension: A Study Case In Florianópolis, Brazil Julia Placido Moore (UFSC, BRAZIL). |
| 10:20 – 10:40 | Coffee-Break | | |
| Oral Session | Main Auditorium | Room 1010 | Room 1012 |
| | Modelling to support exposure and Health Studies / Environmental Odours and VOC chaired by Sarav Arunachalam (UNC, USA) | Measurements Studies chaired by Regina Miranda (USP, Brazil) | Emissions Inventories, Models, and Processes chaired by Bok Haeng (UNC, USA) |
| 10:40 -11:00 | Short-Term Impacts of Air Pollutants and Temperature on Hospitalizations for Mental and Behavioral Disorders. Leila Martins (UTFPR, BRAZIL) | PM10 Sources in the Metropolitan Area of São Paulo: Emphasis on Biogenic Sources. Ana Paula Mendes Emygdio (USP, BRAZIL) | Evaluation of a Global Inventory of Emissions Over the State of Rio Grande do Norte, Brazil. Judith Hoelzemann (UFRN, BRAZIL) |
| 11:00 – 11:20 | Air Pollution Exposure During Cycling in São Paulo. Veronika Sassen Brand (USP, BRAZIL) | Determination of Polycyclic Aromatic Hydrocarbons (PAHs) in Atmospheric Particles in the Metropolitan Region of Porto Alegre, RS. Alessa Maria Ceratti (FEEVALE, BRAZIL) | Emission of Particulate Matter in a Process of Discharge of Coal in a Port. Amanda Ribeiro (UFMG, BRAZIL) |
| 11:20 – 11:40 | Public Health Benefits of the New Brazilian Air Quality Standards. Matheus Fernandes (UFMG - BRAZIL) | Size-Segregated Ions and Carbonaceous Fractions of Ambient Aerosol in Bogota. Kelly Johana Burbano (UNAL, COLOMBIA) | Particulate Composition Analysis in Dry Bulk Terminals to Investigate Sources Participation. Jacqueline Ariele Schraier (EnvEx, BRAZIL) |
| 11:40 – 12:00 | The Revision of the Standard EN 13725 - Determination of Odour Concentration by Dynamic Olfactometry and Odour Emission Rate from Stationary by Sources. Yanko Guimarães (Odournet, BRAZIL) | Multi-Angle Implementation of Atmospheric Correction (MAIAC) AOD Product as a Predictor of PM2.5 Concentrations at São Paulo Metropolitan Region. Aline Santos Damascena (USP, BRAZIL) | Vehicular Emissions in Brazil Between 2007 and 2017. Lella Martins (UFTPR, BRAZIL) |
| 12:00 – 13:30 | Lunch Time | | |
| Keynote Address | Main Auditorium | | |
| 13:30 – 14:10 | Keynote Address: How Commuters Are Affected by Air Pollution Inside a Bus Rapid Transit System: The Impact of Fleet Renewal. Boris René Galvis Remolina (Universidad De La Salle, COLOMBIA) | | |
| Oral Sessions | Main Auditorium | Room 1010 | Room 1012 |
| | Environmental Odours and VOC chaired by Jane M Santos (UFES, Brazil) | Measurements Studies chaired by Nestor Rojas (UNAL, Colombia) | Model Evaluation and Analysis chaired by Yang Zhang (NCSU, USA) |
| 14:10 – 14:30 | Protocol for Evaluation of Sorption Properties of Building Materials for VOCs in Indoor Environment. Sumanth Chinthala (NITW, INDIA) | Can Biomarkers Be Used to Validate Pollutant Dispersion Models? A Study Case of an Petrochemical Complex in São Paulo, Brazil. Leonardo Yoshiaki Kamigauti (USP BRAZIL) | Assessment of WRF Urban Surface Parameterization Over a Densely Occupied Area. Amanda Carvalho (UFMG, BRAZIL) |
| 14:30 – 14:50 | Odor Impact Assessment in a Rendering Plant Using Field and Dynamic Olfactometry and Dispersion Modelling. Jacqueline Ariele Schraier (EnvEx, BRAZIL) | Microbiological Analysis of Bulk and Wet Deposition in Lavras, MG. Larissa Lucas Barros (UFLA, BRAZIL) | Using Computational Fluid Dynamics Coupled with Mesoscale WRF-CMAQ Modeling to Predict Wind Field and Air Pollution Concentration in a Real Urban Area. Igor Menegatti (UFES, BRAZIL) |
| 14:50 – 15:10 | Development of a Sensitive Method for Assessing of the Odor Concentration in a Slaughterhouse, Colombia. Kelly Johana Burbano (Mariana University, COLOMBIA) | Atmospheric Deposition Seasonality and the Influence of Air Masses Trajectories in Southern Region of Minas Gerais, Brazil. Jaqueline Pereira (UFLA, BRAZIL) | Air Quality Modeling Over an Indian Megacity Delhi. Komal Shukla (Indian Institute of Technology Delhi, INDIA) |
| 15:10 – 15:30 | Coffee-break | | |
| 15:10 – 16:20 | Poster Session 2 (Poster Agenda) | | |
| Oral Sessions | Main Auditorium | Room 1010 | Room 1012 |
| | Model Development chaired by Erick Nascimento (SENAI-CIMATEC, Brazil) | Environmental Odours and VOC chaired by Leonardo Hoinaski (UFSC, Brazil) | Regulatory Modeling and SIP applications chaired by Marcelo Alonso (UFPEL, Brazil) |
| 16:20 – 16:40 | Estimating Total Suspended Particles and Settleable Particulate Matter Using CMAQ Aerosol Modules. Július Mergulhão (Ecosoft, BRAZIL) | Methane Emission Modeling Using the IPCC Method Compared to Measurements with Dynamic Chambers in the Waste Deposition of Porto Seguro-Bahia, Brazil. Ana Luisa Santos de Carvalho (UFES, BRAZIL) | Airborne PM2.5 Pollution in the Greater Bogota Area and its Sources. Felipe Villamil (UNAL, COLOMBIA) |
| 16:40 – 17:00 | Development of a Low-Cost Collaborative Platform for Monitoring Air Pollution in High Resolution. Fernando Campo (UFSC, BRAZIL) | H2S Mass Transfer Modeling in a US EPA Flux Chamber. Willian Andreão (UFMG, BRAZIL) | Modelling Emission Control Strategies For Air Quality Improvement: A Case Study In Piracicaba, São Paulo. Felipe Marinho Maciel (UFMG, BRAZIL) |
| 17:00 – 17:20 | Hourly Ozone Concentration Forecasting Using Deep Learning. Lucas Vilas Boas Alves (SENAI-CIMATEC, BRAZIL) | Peak to Mean and Odor Modeling: A Review. Adrielle Melo (UFES, BRAZIL) | Impacts of Changing Heavy Trucks Fuel on Air Quality: A Case Study. Flávia Ribeiro (USP, BRAZIL) |
| 17:20 – 17:40 | Development of a Web Platform and Knowledge Database for Industry Emission Self Register. Igor Reynaldo Tibúrcio (UFSC, BRAZIL) | Analysis of the Aerodynamic Performance of a Portable Wind Tunnel for Odour Measurements. Matheus De Araujo Siqueira (UFES, BRAZIL) | Multi-Isotopic Fingerprint (MIF) Approach to Improve Tracing and Discrimination of Atmospheric Pollutant Sources in Megacities. Carlos E. Souto-Oliveira (USP, BRAZIL) |

DAY 3 - 24 July 2019 (Wednesday)

| Oral Session | Main Auditorium | Room 1010 | Room 1012 |
|-----------------|---|---|---|
| | | New Sensors Technologies / Remote Sensing chaired by Judith Hoelzemann (UFRN, Brazil) | Management of Gaseous Emissions in Sewage Treatment Plants chaired by Jane M Santos (UFES, Brazil) |
| 09:00 – 09:20 | Compact Air Quality Sensors in Urban Air Quality Monitoring – Real Life Experiences and Use Cases in Helsinki, Finland. Mikko Laakso (VAISALA, FINLAND) | Review of Techniques to Control Fugitive CH ₄ and H ₂ S Emissions from the Liquid Phase of Anaerobic Reactors Treating Sewage. Erick Centeno Mora (UFMG, BRAZIL) | Electrostatic Precipitation of Nickel Oxide Nanoparticles Dispersed by Nebulization. Alessandro Estarque De Oliveira (UFSCAR, BRAZIL) |
| 09:20 – 09:40 | H.I.P.A.E Helicopter-Borne In-Situ Pollution Acquisition Experiment: Alternative Platform for Measuring Contaminants in Vertical Layers. Olga Lucia Montoya (EAFIT University, COLOMBIA) | Molecular Approach to Evaluate Bacterial Community for H ₂ S Treatment in Bioreactor. Maria Joana Allievi (UFSC, BRAZIL) | Evaluation of Filter Media for Sleeve Filters in a Steel Industry. Camila R. De Lacerda (UFSCAR, BRAZIL) |
| 09:40-10:00 | RAMP: A Monitoring Network to Improve Knowledge, Management and Control of Particulate Matter Diffuse Emission Sources. Flávio Curbani (ECOSOFT, BRAZIL) | Strategies for the Control of CH ₄ and H ₂ S Emissions from Biogas in Anaerobic-Based Sewage Treatment Plants. Juliana Mattos Bohrer Santos (UFMG, BRAZIL) | Exhaust Flow Rate Evaluation for Dust Emission Control in Falling Bulk Materials. Gabriel Chaves (UFPA, BRAZIL) |
| 10:00 –10:20 | Aerosol Optical Properties in the Atmosphere of Natal/ Brazil Measured by a Sun Photometer of the AERONET. Judith Hoelzemann (UFRN, BRAZIL) | Evaluation Of H ₂ S, NH ₃ and Volatile Organic Compounds Emissions in a Waste Water Treatment Plant in Bogota, Colombia. Diana G. Vela-Aparicio (UNAL, COLOMBIA) | CFD Simulations of the Fluid Flow Inside an Industrial Cyclo Filter. Ana Clara Bernabé (UFES/ArcelorMittal, BRAZIL) |
| 10:20 – 10:40 | Coffee-Break | | |
| Oral Session | Main Auditorium | Room 1010 | Room 1012 |
| | Air Pollution At Critical Infrastructure Sites And Its Influence For The Society / Atmospheric Boundary Layer chaired by Neyval Reis (UFES, Brazil) | New Sensors Technologies / Measurements chaired by Rita Ynoue (USP, Brazil) | Air Pollution Control chaired by Bruno Furieri (UFES, Brazil) |
| 10:40 -11:00 | Air Quality Studies at the Alcantara Launch Center. Gilberto Fisch (IAE, BRAZIL) | Air Quality Monitoring on Urbans & Industrials Sites Using Combination of Innovative Low Consumption Certified Analyzers and Smart Microsensors. Sérgio Reis (AMBIENTAL RB, BRAZIL) | Numerical Study of Wind-Fence Efficiency in Controlling Particulate Matter Emissions from Coal Stockpiles in a Industrial Site. Evandro Roncete (Aires Consulting, BRAZIL) |
| 11:00 – 11:20 | Air Pollution Emission Effects of Changes in Transport Supply. The Case of Bogotá, Colombia. Sonia Mangones (UNAL, COLOMBIA) | ECOPM: Development and Performance Evaluation of a Particulate Matter Continuous Monitor. Flávio Curbani (ECOSOFT, BRAZIL) | Biofiltration System for the Removal of H ₂ S and NH ₃ Using Organic Packing Material. Diana G. Vela-Aparicio (UNAL, COLOMBIA) |
| 11:20 – 11:40 | Large-Eddy Simulation of Microscale Pollutant Dispersion in Urban Areas. Vitor Lavor (UFES, BRAZIL) | Indoor Concentration of Particulate Matter: Use of a Low-Cost Air Pollution Sensor and the Influence of Meteorological Parameters. Janaina Antonino Pinto (UFMG, BRAZIL) | Experimental and Numerical Investigation of Building Effects on Wind Erosion of a Granular Material Stockpile. Cristina Lima (UFES, BRAZIL) |
| 11:40 – 12:00 | Analysis of the Atmospheric Flow at Alcântara Launch Center (CLA) by Numerical Simulations. Karine Klippel (UFES, BRAZIL) | Analysis of High PM ₁₀ Episodes Using Regression Models. Simone Pozza (UNICAMP, BRAZIL) | CFD Simulation of the Fluid Flow Inside the Pulse-Jet Cleaning System of a Fabric Filter. Rafael Sartim (UFES/ArcelorMittal, BRAZIL) |
| 12:00 – 13:30 | Lunch Time | | |
| Keynote Address | Main Auditorium | | |
| 13:30 – 14:10 | Keynote Address: The Importance of Continuing Field Studies for Air Quality Management: Examples from Central California. Jonh Watson (DRI, USA) | | |
| 14:10 – 17:30 | International Network of Scientists Providing Intellectual Leadership Via Large Research Applied Projects on Air Pollution and its Impacts chaired by Nestor Rojas (UNAL, COLOMBIA) | | |
| 14:10-14:30 | IGAC AMERICA – Nestor Rojas (UNAL, COLOMBIA) | | |
| 14:30 - 14:50 | METROCLIMA – Maria de Fatima Andrade (USP, BRAZIL) | | |
| 14:50 - 15:10 | iSCAPE - Prashant kumar (University of Surrey, UK) | | |
| 15:10-15:30 | Coffee-break | | |
| 15:30-15:50 | ASMAVIX – Jane M Santos (UFES, BRAZIL) | | |
| 15:50-16:10 | QUALAMET – Edmilson Dias de Freitas (USP, BRAZIL) | | |
| 16:10-16:30 | KLIMAPOLIS – Judith Hoelzemann (UFRN, BRAZIL/GERMANY) | | |
| 16:30-16:50 | INCT ETEs sustentáveis – Carlos Chernicharo (UFMG, BRAZIL) | | |
| 16:50-17:30 | Questions and Discussion about the projects | | |
| 20:00 | Dinner Reception (Paladino Restaurante Fazenda: Av. Gildo Macedo Lacerda, 300 - Braúnas, Belo Horizonte - MG) | | |