

## Guide to Posters Presented at IGASP Symposium, June 15, 2022

|    | Researcher |                   | Institution | Poster Title  |
|----|------------|-------------------|-------------|---|
| 1  | Annie      | Anderson          | UCI         | Heterogeneous OH radical reactions with thin films of neonicotinoid pesticides  |
| 2  | Patrick    | Ayotte            | Sherbrooke  | How to tell which of the NO <sub>2</sub> dimers is driving heterogeneous chemistry?   |
| 3  | Vahe       | Baboomian         | UCI         | Sunlight converts atmospheric aerosols into a glassy solid state and modifies their environmental impacts   |
| 4  | Haroula    | Baliaka           | Caltech     | Source Apportionment of Brown Carbon at a South-Eastern European Site   |
| 5  | Thorsten   | Bartels-Rausch    | PSI         | Multiphase chemistry in cold parts of Earth's atmosphere  |
| 6  | Lucia      | Cancelada         | UCSD        | Development of a secondary reaction chamber for the Scripps Ocean-Atmosphere Research Simulation (SOARS)  |
| 7  | Eva        | Chen              | CSUF        | Theoretical Study on the Reactions of Isoprene with Nitrogen Dioxide  |
| 8  | Zachary    | Cornwell          | UCI         | The Temperature Dependent Kinetics of Criegee Intermediates with Dicarboxyls  |
| 9  | Avery      | Dalton            | UCI         | Photosensitized degradation of secondary organic aerosol by nitrophenols  |
| 10 | Michelia   | Dam               | UCI         | Observations of Gas and Particle Phase Composition of $\alpha$ -Thujene Ozonolysis Products   |
| 11 | Kasey      | Edwards           | UCI         | Nitrogen oxide influence on the production of reactive oxygen species and environmentally persistent free radicals from alpha-pinene and naphthalene volatile organic compound precursors |
| 12 | Tommaso    | Galeazzo          | UCI         | Predicting glass transition temperature and melting point of organic molecules via machine learning and molecular embeddings  |
| 13 | Sahar      | Ghadimi           | UCR         | The fate of RO <sub>2</sub> radicals from $\alpha$ -pinene and naphthalene precursors under constant branching ratio with continues NO <sub>x</sub> injection                             |
| 14 | Hongyu     | Guo               | CO Boulder  | Submicron Particle Composition and Acidity in Fire Plumes during FIREX-AQ aircraft study  |
| 15 | David      | Herman            | UCI         | Seasonal effects of ambient PM <sub>2.5</sub> on the cardiovascular system of hyperlipidemic mice   |
| 16 | Katherine  | Hopstock          | UCI         | Characterization of VOC emissions from commercial e-cigarette usage   |
| 17 | Ken        | Jones             | CSUF        | Theoretical Study of the Electronic Quenching of NO (A <sup>2</sup> $\Sigma^+$ ) with C <sub>2</sub> H <sub>2</sub>   |
| 18 | Sukriti    | Kapur             | UCI         | Wildfires as a Source of Environmentally Persistent Free Radicals and Reactive Oxygen Species   |
| 19 | Ravleen    | Kaur Kohli        | UCR         | Understanding Heterogeneous Oxidation of Single Levitated Particles using Linear Quadrupole Electrodynamic Balance coupled with Mass Spectrometry   |
| 20 | Pyeonggeun | Kim               | UCSD        | Real-time Measurement of Photosensitized Nitrate Chemistry in Single Microdroplet   |
| 21 | Michael    | Kleinman          | UCI         | Atmospheric Photochemistry can Influence PM Health Effects  |
| 22 | Alexandra  | Klodt             | UCI         | Effects of the sample matrix on the photobleaching and photodegradation of toluene-derived secondary organic aerosol compounds  |
| 23 | Raymond    | Leibensperger III | UCSD        | Scripps Ocean Atmosphere Research Simulator (SOARS)   |
| 24 | Yixin      | Li                | UCI         | Understanding the growth of highly viscous secondary organic aerosols   |
| 25 | Alexander  | MacDonald         | UCR         | Examining the chemical composition of ambient aerosols under natural and perturbed conditions using an oxidation flow reactor   |
| 26 | Marcus     | Marracci          | UCI         | Formation of Brown Carbon in Optically Trapped Microdroplets  |
| 27 | Yaning     | Miao              | UCR         | Source-specific acute health effects of ambient dust exposure in California's Coachella Valley  |
| 28 | Stephanie  | Mora Garcia       | UCSD        | Photochemistry Reactions in SSA Leading to HONO in the MBL  |

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|----|----------------|--------------|----------|---|
| 29 | Esther         | Morales      | CSUF     | Optical and physical properties of outdoor and indoor biomass burning aerosol particles during a wildfire event in Southern California    |
| 30 | Tran           | Nguyen       | UC Davis | Sulfate radical chemistry from irradiated ammonium sulfate solutions  |
| 31 | Veronique      | Perraud      | UCI      | Investigation of nanoparticles chemical composition from methanesulfonic acid reactions with amines                                       |
| 32 | Steven         | Pham         | CSUF     | Kinetics Study of Nonanal and Decanal with Hydroxyl Radicals using the RR/DF/MS technique   |
| 33 | Yiming         | Qin          | UCI      | On-the-fly surface analysis of atmospherically relevant sub-micron organic particles using a "Magic" ionization method                    |
| 34 | Johanna        | Rinaman      | UCI      | Near-UV Photochemistry of Acetylacetone   |
| 35 | Danielle Rocco | Jason Truong | CSUF     | Probing the sources of metals in particulate air pollution: Fireworks and freeways  |
| 36 | Meredith       | Schervish    | UCI      | Impacts of non-ideal mixing and phase state on equilibration timescales of SOA partitioning   |
| 37 | Craig          | Sheldon      | UCR      | Exploring Diffusion Constants of Gel and Ultraviscous Forming Aerosols Using Single Particle Analysis                                     |
| 38 | Jiaqi          | Shen         | UCLA     | Aerosol Oxidative Potential in the Greater Los Angeles Area: Source Apportionment and Associations with Socioeconomic Position            |
| 39 | Hannah         | Szentkuti    | Caltech  | Cyclohexanol Oxidation in an Environmental Chamber: Chemistry and Aerosol Mass Yield  |
| 40 | Linia          | Tashmim      | UCR      | Contribution of marine sulfur chemistry to the seasonal variability of aerosol size distributions   |
| 41 | Adam           | Thomas       | UCI      | Molecular Composition of Organic Nanoparticles Observed in a Mature Amazon Rainforest   |
| 42 | Justin         | Urquilla     | CSUF     | Computational Modeling the Electronic Quenching Pathways of NO with H <sub>2</sub> O and CH <sub>3</sub> OH                               |
| 43 | Jeremy         | Wakeen       | UCI      | Aerosol Composition at a Southern California Coastal Site   |
| 44 | Xinke          | Wang         | UCI      | Predicting the Environmental Fates of Emerging Contaminants: Synergistic Effects of Multi-Functional Groups on Their Ozonolysis Reactions |
| 45 | Lisa           | Wingen       | UCI      | Effects of the VACES particle concentrator on secondary organic aerosol and ambient particle composition                                  |
| 46 | Kai            | Wu           | UCI      | Unexpected deterioration of O <sub>3</sub> pollution in the South Coast Air Basin of California: The role of meteorology and emissions    |
| 47 | Ningjin        | Xu           | UCR      | Gas- and Aqueous-phase Secondary Organic Aerosol Formation in the Accelerated Production and Processing of Aerosol Reactor                |
| 48 | Lei            | Yang         | UCR      | Low pressure yields of stabilized Criegee Intermediates produced from ozonolysis of a series of alkenes                                   |
| 49 | Wen            | Zhang        | UCR      | The Peroxy Radical Fates during Heterogeneous Oxidation of Organic Aerosols   |
| 50 | Zihan          | Zhu          | UCR      | Vertical Ozone Profiles Measurement in Riverside  |
| 51 | Kristen        | Johnson      | UCI      | Kinetics of Single Molecule Oxygenation of Co(II)Porphyrin at Solution/Solid Interface  |
| 52 | Douglas        | Ober         | Caltech  | 13CH <sub>4</sub> and CH <sub>2</sub> D <sub>2</sub> Kinetic Isotope Effect Measurements via Cavity Ring-Down Spectroscopy                |
| 53 | Baoquan        | Zhang        | CSUF     | Could Sulfate Be Directly Formed from the Gas-Phase Reaction of Sulfur Dioxide?   |