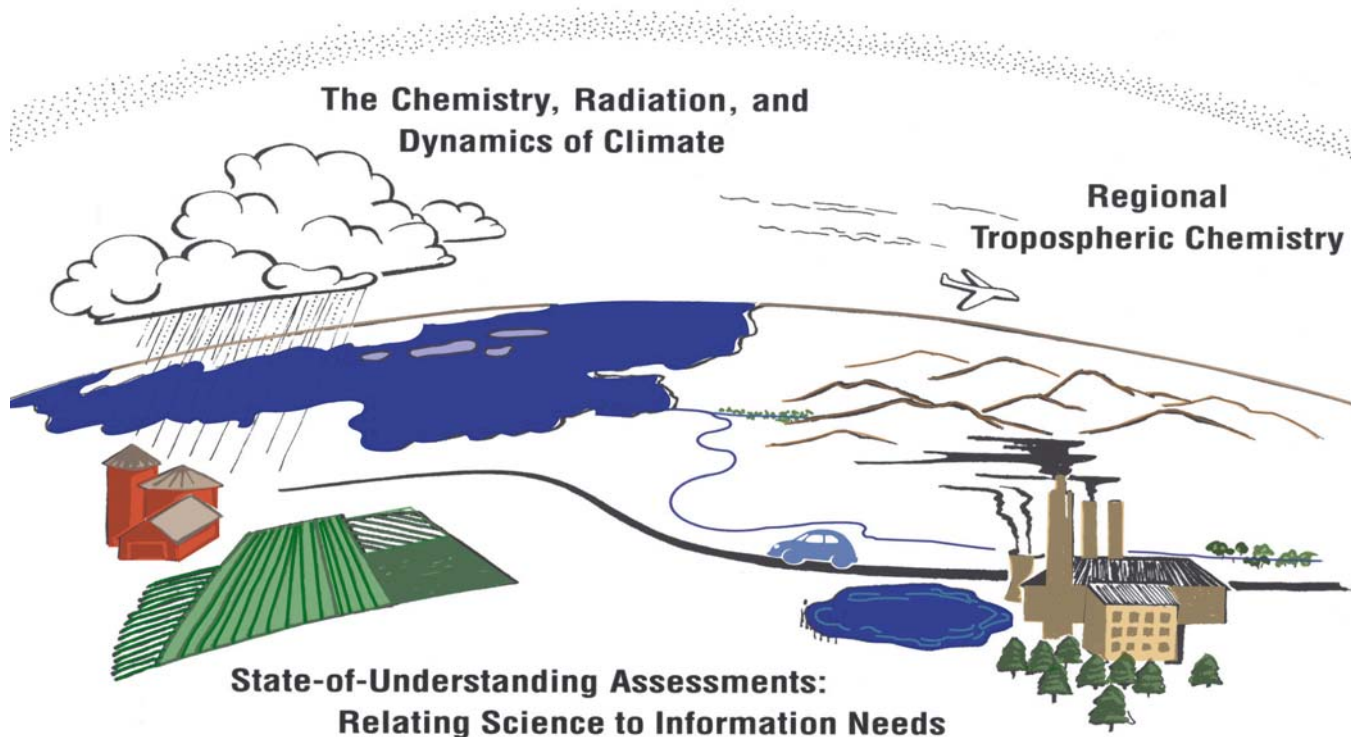


The Stratospheric Ozone Layer



S E M I N A R

Peroxy-carboxylic Nitric Anhydrides (PANs) in the Atmosphere

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PAN compounds, $RC(O)OONO_2$, are among the most unusual, and most important, chemical species in the lower atmosphere. They are produced by the same VOC-NO_x photochemistry that is responsible for O₃ and secondary organic aerosol formation. Hence, the absolute abundance and relative distribution among the different PAN compounds can tell us a lot about the VOC chemistry that has occurred in a given air mass. The relative chemical stability of the PANs, and their insolubility in aqueous solution, mean that the PANs are usually the most abundant odd-nitrogen species in the middle troposphere, providing a means of transport of odd-nitrogen throughout the globe. This talk will; give an overview of PANs chemistry, describe some results of field campaigns from the last four years, and discuss some new advances in measurement methods with emphasis on some new opportunities that those methods will provide.

Wednesday, February 28 10:30 – 11:20 am Oxendine Science Building, Room 3256



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