

## 1.S977: Frontiers in Atmospheric Chemistry Seminar Series

Fall 2020, F 1-2pm (webinar); journal club TBD

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Website: <https://canvas.mit.edu/courses/3352>

Webinar website: <https://facss.mit.edu/>

**OBJECTIVE:** This special subject will be coupled to a multi-institutional virtual seminar series (Frontiers in Atmospheric Chemistry Seminar Series) to be hosted by MIT in AY20-21. This subject will expose graduate students to new research in the field, and provide opportunities to discuss the previous work of seminar presenters in a journal club format with student colleagues across multiple institutions. The intention of this class is to help compensate for lost research dissemination and networking opportunities during the COVID-19 pandemic.

**PRE-REQUISITE:** 1.84J/12.807 or equivalent

### COURSE STRUCTURE:

Each week a new speaker will present in webinar format on their latest research. These zoom webinars will take place on Fridays at 1pm eastern, all students in the class will be required to attend. Students are also encouraged to submit questions through the zoom Q&A. Students will sign up for opportunities to meet in a small group with the speaker after their presentation (each student expected to meet with 2-3 speakers during the term).

Speakers will also suggest papers (from their group or other groups) that students will read and discuss in a journal club format prior to the Friday webinar. These papers will be available on the FACSS website (<https://facss.mit.edu/>). The instructors will coordinate with instructors at other institutions (University of Michigan, Colorado State University, UC Davis) to offer several meeting times for these journal club discussions. These discussions should focus on the science (What is the key result? Is it well supported by the analysis? How does this fit with previous work? What follow on work is needed?) as well as the presentation of the paper (Is the paper easy to understand? Well organized? Are the figures clear?) and any questions that come up during the reading (I don't understand why...). We will assign two discussion leaders for each journal club section, rotating weekly. The discussion leaders' task will be to keep the conversation flowing, and ensure that everyone has an opportunity to comment on the paper.

This subject is graded PDF. The grade is based on class participation.

### CLASS SCHEDULE:

Date	Speaker
September 4	No webinar – short intro to the class
September 11	Drew Shindell (Duke University)
September 18	Sarah Styler (McMaster University)
September 25	Lee Murray (University of Rochester)
October 2	Cesunica Ivey (UC Riverside)

October 9	Natalie Mahowald (Cornell University)
October 16	Jeff Geddes (Boston University)
October 23	Gabriel Isaacman-VanWertz (Virginia Tech)
October 30	Vernon Morris (Arizona State University)
November 6	Sonia Kreidenweis (Colorado State University)
November 13	Sally Pusede (University of Virginia)
November 20	Paul Wennberg (California Institute of Technology)
December 4	Ellie Browne (University of Colorado, Boulder)