

Agenda for Artificial Intelligence for the Methane Cycle (AI4CH₄) Workshop Series

March 3

12:00-12:20: Workshop introduction and charge
12:20- 1:50: Brief presentations highlighting gaps and opportunities
1:50-2:15: Group Q&A
2:15-2:45: <break>
2:45-4:40: Breakouts for participant introductions and ideation
4:40-5:00: Report back to full group

March 10

12:00-2:15: Improving predictions from fundamental microbiology
2:15-2:45: <break>
2:45-5:00: Environmental controls and empirical relationships

March 17

12:00-2:15: Targeting field measurements and observations
2:15-2:45: <break>
2:45-5:00: Data-model integration

March 24

12:00-2:15: Multiscale Modeling
2:15-2:45: <break>
2:45-5:00: Breakout by session topic for workshop synthesis and report drafting

Topics for Each Discussion Session

1. Knowledge gaps and scientific questions
2. Characteristics and challenges of specific data and models
3. Related algorithms, infrastructure, and their potential to address gaps
4. New observations/measurements/experimental design needed
5. Data products (QC, UQ, harmonization, benchmarks) needed