

**Title: Challenges and opportunities in non-CO₂ greenhouse gas measurements and standards:
Natural gas case study**

Speaker: Steven P. Hamburg

Institute:

**Session II: Carbon measurement and other related climate variables: Global systems, principals
and traceability**

Abstract:

The challenges of greenhouse gas measurement and standards are perhaps at their greatest when the spotlight is clearly focused on emissions monitoring. Over the past three years Environmental Defense Fund has coordinated a large measurement campaign involving 100 institutions – academic, government and private sector – focused on methane emissions from the natural gas supply chain in the United States. I will address the challenges of making accurate and effective emissions measurements at a diversity of spatial and temporal scales, as required for effective regulation and mitigation. I will also review efforts to bridge the measurement and standards gaps that were required for affecting rapid improvements in emissions profiles. We believe this effort can serve as a model for both understanding associated impacts of the oil and gas industry and greenhouse gas emissions more broadly, as well as more broadly for innovative civil society collaborations.