

OAQPS Update

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Presented at NESCAUM Monitoring and Assessment
Committee Meeting

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Outline

- New Hire
- Shifting Responsibilities
- Update on PM_C

New Hire

- David Shelow
 - Comes from Penn State and before that Rastek
 - Responsibilities will include
 - NCore network implementation
 - PM2.5 speciation program management
 - Ozone NAAQS/monitoring support

Shifting/New Responsibilities

- AAMG Group Leader
 - Lew
- Pb NAAQS Implementation
 - Kevin, Joann, Mike
- Ozone NAAQS Implementation
 - Lew, David
- SO₂, NO₂ NAAQS
 - Nealson
- Precursor gas methods
 - CO and SO₂ - Solomon
 - NO_y - Nealson
- Budgets
 - Tim

PM_{10-2.5} Speciation

- New monitoring rule finalized October 2006 requires PM_{10-2.5} speciation monitoring at NCore
 - Monitoring to start January 1, 2011
 - 1-in-3 day sampling schedule
 - SIPs due July 1, 2009
- Data to support scientific research and future PM NAAQS reviews
 - Collection of PM_{10-2.5} composition data to inform health effect studies
 - Use of PM_{10-2.5} speciation data to promote advancement of source attribution methods
 - Data to evaluate spatial and temporal variations in urban and rural environments
 - Advancement of PM_{10-2.5} speciation monitoring methods in anticipation of wider use if a PM_{10-2.5} NAAQS is adopted later

PM_{10-2.5} Planning

- Draft PM_{10-2.5} speciation whitepaper circulated to AAMSC, S/Ls, ORD for comment May 2008
 - Communication tool for planning and implementation
- Session topic at Air Quality Monitoring and Health Research Workshop in April 2008
- PM_{10-2.5} speciation monitoring network pilot 2009
 - Gather information to design and implement long-term monitoring program
 - Few (3-4) locations where monitors tested at existing platforms
 - Evaluate existing PM_{10-2.5} speciation sampler options
 - Evaluate potential laboratory methods and options
 - Finalize sampling and laboratory method design

PM_{10-2.5} Planning

- Pilot proposal being drafted
 - Proposed sampling methods, target species, laboratory methods, locations, for review
 - Similarities and differences from PM_{2.5} speciation
 - Challenges due to coarse particle composition
 - Sampling differences
 - Dichotomous samplers, PM_{10-2.5} by difference
 - Need for species not important for PM_{10-2.5} (e.g., biological, carbonate carbon)
 - CASAC consultation planned for early 2009