

# Air Quality Symposium 2009

## July 15, 16, and 17, 2009

### Sponsored by the Fairbanks North Star Borough

**Interactive Page** (will be updated regularly)

The purpose of the symposium was to present the status of the Borough's efforts to solve our fine particulate (PM<sub>2.5</sub>) problem and to engage the thoughtful resources of our community in an open discussion in order to assess the best approaches to near and long term solutions.

Click (or control/click) on the blue underlined links for the presentation document.

#### Wednesday, July 15th

<b>8:00 – 9:00</b>	<b>Meet and Get Badges</b>
	<i>Session 1 – Introduction</i> (Glenn Miller, FNSB Transportation Director)
	Welcome and Opening Remarks
	FNSB Mayor Jim Whitaker (no presentation available)
	DEC Commissioner Larry Hartig (no presentation available)
	<a href="#">Regulatory Overview (Krishna Viswanathan, EPA R10)</a>
	<a href="#">DEC Perspective (Alice Edwards, Acting Director, Division of Air Quality, DEC)</a>
	<a href="#">DOT Perspective (Ron King, Chief Surface Transportation Programs, ADOT)</a>
	<b>Logistics</b> (Jim Conner, FNSB)
<b>10:30 – 10:45</b>	<b>Break</b>
	<a href="#">Timeline for Attainment (Jim Conner, FNSB)</a>
	<a href="#">Historical View of AQ Plan Development (Richard Joy, Gordon Darby)</a>
	<a href="#">Analytical Overview (Jim Conner, FNSB /Barbara Trost, ADEC)</a>
<b>12:00 – 1:30</b>	<b>Lunch</b>
	<i>Session 2 – Health Effects</i>
	<a href="#">AQI and Wildfire Concentrations (Jim Conner, FNSB)</a>
	<a href="#">Summary of Known Health Effects, (Lori Verbrugge, AHSS)</a>
	<a href="#">Local Hospital Admissions/Air Quality Correlation (Rachel Kossover, AHSS)</a>
<b>2:30 – 5:00</b>	<i>Session 3 – Monitoring Data</i>
	<a href="#">Overview (Barbara Trost, ADEC)</a>
	<a href="#">Fixed Site Trends (Jim Conner, FNSB)</a>
	<a href="#">Fixed Site Trends (Eric Dick, Ft. Wainwright)</a>
	<a href="#">Fixed Site Trends (Phil Austin, HMH)</a>
<b>3:30 – 3:45</b>	<b>Break</b>
	<a href="#">Mobile Monitoring (Frank DiGenova, Sierra Research)</a>
	<a href="#">Chemical Speciation Trends (Bob Dulla, Sierra Research)</a>
	<a href="#">Sulfate and Nitrate Source Contributions (Cathy Cahill, UAF)</a>
<b>5:00 – 5:30</b>	<b>Wrap-up</b> (Jim Conner, FNSB)
<b>6:30 – 8:00</b>	<b>Evening Session-Mayor, FNSB, ADEC, EPA, ADOT, AHSS, CCHRC</b>
	Symposium Overview and Public Open Discussion (symposium objectives, key analytical challenges overview, health issues, control programs, municipal tax credit/incentive programs, energy/renewable energy)

### Thursday, July 16th

<b>8:00 – 8:30</b>	<b>Meet</b>
	<i>Session 4 – Modeling</i>
	<a href="#">Fairbanks Modeling Overview (Rob Elleman, EPA R10)</a>
	<a href="#">Inventory Development (Bob Dulla, Sierra Research)</a>
	<a href="#">Mobile Source Assessment (Ron Johnson, UAF)</a>
	<a href="#">Fairbanks Winter Meteorology/Exceedance Conditions (Jim Brader, NWS)</a>
	<a href="#">SODAR Observations (Javier Fochesatto, UAF)</a>
<b>10:30 – 10:45</b>	<b>Break</b>
	<a href="#">Fairbanks Principal Components Analyses (Robert Crawford, Sierra Research)</a>
	<a href="#">Fairbanks Principal Components Analyses II (Excel presentation, R. Crawford)</a>
	<a href="#">Grid-based Model (Nicole Mölders, UAF)</a>
<b>12:00 – 1:30</b>	<b>Lunch</b>
	<a href="#">Grid-based Model - RARE (Rob Elleman, EPA R10)</a>
	<a href="#">Grid-based Modeling - MM5 (Don Morton, UAF)</a>
	<a href="#">Receptor Models – PMF &amp; UNMIX (Bob Dulla, Sierra Research)</a>
<b>3:00 – 3:15</b>	<b>Break</b>
	<a href="#">Receptor Models – CMB (Tony Ward, University of Montana)</a>
	<a href="#">Receptor Models - STN (RKM Jayanty, RTI, Inc.)</a>
<b>4:00</b>	<i>Session 5 – Key Analytical Challenges (Alice Edwards, DEC and Jay Turner, WUSTL)</i> <i>Modeler’s Panel discussion</i>
<b>5:00 – 5:30</b>	<b>Wrap-up</b> (Jim Conner, FNSB)

### Friday, July 17th

<b>8:00 – 8:30</b>	<b>Meet</b>
	<i>Session 6 –What’s Next</i> (Jim Conner, FNSB)
	<i>Key Analytical Challenges and recap of outstanding issues – Work Still needed</i>
	<a href="#">Planning Schedule - regulatory milestones, studies, incentive and mitigation programs (Bob Dulla, Sierra)</a>
	Monitoring Plans for the Upcoming Winter (Barbara Trost, DEC)
	Modeling – Weight of Evidence (estimated completion EPA/UAF) (Rob Elleman and Krishna Viswanathan, EPA R10)
<b>10:30 – 10:45</b>	<b>Break</b>
	DOT & AUTC Funding Opportunities (Billy Connor, AUTC/ Clint Adler, DOT)
	Education Programs
	<a href="#">John Davies, CCHRC</a>
	<a href="#">John Crouch, HPBA, Woodstove Changeout Programs</a>
<b>11:30 – 12:00</b>	<b>Wrap up</b> (Jim Conner, FNSB)
<b>12:00 – 1:30</b>	<b>Lunch</b>
<b>1:30 – 4:00</b>	<i>Informal Discussions/Planning</i>

See next page to view “Fairbanks Bowl Observation” pictures/movies links.

These pictures were taken from a ridge north of Fairbanks. They are taken every 5 minutes, and can be viewed as a “movie.” After opening a camera link, click and hold the lower right scroll arrow/slider to view “movie,” or use your mouse scroll wheel for more control.

[~Fairbanks Bowl Observation: January 2<sup>nd</sup>, 2009](#)

[~Fairbanks Bowl Observation: January 10<sup>th</sup>, 2009 right camera](#)

[~Fairbanks Bowl Observation: January 10<sup>th</sup>, 2009 left camera](#)

[~Fairbanks Bowl Observation: February 14<sup>th</sup>, 2009 clear day, slide 177, pallet boiler](#)

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“This .kmz view file can be used with Google Earth to view PM2.5 concentrations (preliminary data) measured using a Mobile Measurement Platform in and around Fairbanks on December 29, 2008, beginning at 15:23 hours. Dot color shows concentration (bright green is <35 ug/m3, red and grey =>350 ug/m3), and dot size shows avg. particle size (range is ~0.02 – 0.4 microns). Clicking on each point shows latitude, longitude, (instantaneous) concentration in ug/m3, time (HH:MM:SS), particle mass median diameter, and elevation (ft asl). For more details and cautions, see: ‘Mobile Monitoring’ above in Session 3, by Frank Di Genova and Dulla.” (It looks like it prompts you to open/save it to your computer, then uses Google Earth to open it for viewing. The file name is: **Mobile\_sniffer\_study\_run\_12\_29\_08.kmz**):

[Frank DiGenova: Mobile Monitoring, .kmz file, 12-29-08](#)

For more information about these presentations, feel free to contact the Fairbanks North Star Borough Air Quality Division at 459-1312.