

# **Kentucky's 2008 REGIONAL AIR QUALITY CONFERENCE**



**April 24, 2008  
Frankfort, KY**

# AGENDA & PARTICIPANT LIST



# KENTUCKY'S 2008 REGIONAL AIR QUALITY CONFERENCE

Thursday, April 24, 2008

REGISTRATION Hallway Outside the Auditorium		
8:00 AM - 8:30 AM		
8:30 AM - 9:00 AM	Welcome	Daryl Greer, <i>KYTC's Division of Planning</i> Joe Prather, <i>KYTC's Secretary of Transportation</i> Jose Sepulveda, <i>FHWA-KY's Division Administrator</i>
9:00 AM - 9:30 AM	Air Quality 101	Lynn Soporowski, <i>KYTC's Division of Planning</i> Bernadette Dupont, <i>FHWA-KY's Program Delivery</i>
9:30 AM - 10:00 PM	NEPA and Air Quality	David Waldner, <i>Director</i> <i>KYTC's Division of Environmental Analysis</i>
10:00 AM - 10:15 AM	Visit Display Booths!!!	BREAK See Alt Fuel Vehicles Outside!!!
10:15 AM - 10:45 AM	Climate Change & Other National Topics <i>Adaptation and Mitigation</i>	Mike Savonis, <i>Team Leader for Air Quality</i> <i>US Department of Transportation's FHWA-HQ</i>
10:45 AM - 11:30 AM	What's on the Horizon for AQ Planning ~New standards ( <i>PM<sub>2.5</sub></i> ) ~Moves Model Update ~New standards ( <i>Ozone</i> ) ~Ground Level Ozone	Lynorae Benjamin, <i>Chief Regulatory Development</i> <i>US Environmental Protection Agency - R4</i>
11:30 AM - 12:00 PM	State of Air Quality in Kentucky ~A Historical Perspective	Lona Brewer, <i>Manager Program Planning Administration Branch</i> <i>EPPC's Division for Air Quality</i> John Gowins, <i>Evaluations Section Supervisor</i> <i>EPPC's Division for Air Quality</i>
12:00 PM - 1:00 PM	Visit Display Booths!!!	LUNCH - On your own See Alt Fuel Vehicles Outside!!!
1:00 PM - 1:15 PM	Interactive Session ( <i>ice breaker</i> ) ~Test Your Air Quality Knowledge	Jesse Mayes, <i>Transportation Engineering Specialist</i> <i>KYTC's Division of Planning</i>
1:15 PM - 2:00 AM	PM <sub>2.5</sub> Analysis in Knoxville - Transit	Rajit Ramkumar, <i>E.I.</i> <i>Wilbur Smith Associates</i>
2:00 PM - 2:15 PM	Visit Display Booths!!!	BREAK See Alt Fuel Vehicles Outside!!!
2:15 PM - 2:45 PM	Electric Vehicles	Mike Brace, <i>Manager of Research Facility</i> <i>Emerson Power Transmissions</i>
2:45 PM - 3:15 PM	Case Studies	Tom Springer, <i>Planning Director</i> <i>Qk4</i>
3:15 PM - 4:00 PM	Clean Diesel	Elizabeth Robb, <i>Environmental Education Specialist</i> <i>Environmental and Public Protection Cabinet</i> Lona Brewer, <i>Manager Program Planning Administration Branch</i> <i>EPPC's Division for Air Quality</i>
4:00 PM	Thank you for participating in KENTUCKY'S 2008 REGIONAL AIR QUALITY CONFERENCE Have a safe trip home!	

## Exhibitors/Sponsors

~Emerson Power Transmissions

~Glenn Toyota, Frankfort, KY

~Kentucky's Environmental and Public Protection Cabinet's  
Division for Air Quality

~Lexington's Mobility Office

~Louisville Metro's Air Pollution Control District

~SE Diesel Collaborative

~Toyota Motor Manufacturing of Kentucky (TMMK)

~Wilbur Smith Associates



## 2008 REGIONAL AIR QUALITY CONFERENCE

## ~PARTICIPANT LIST~

As of 4/16/08

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# **SPEAKER BIOGRAPHIES**

(in order of appearance)





# O. Gilbert Newman



## ***State Highway Engineer, Department of Highways - Kentucky Transportation Cabinet***

O. Gilbert Newman, P.E. first began work with the Department of Highways as an undergraduate student while attending UK.

After receiving his B.S.C.E., he entered the engineering industry with Haworth and Associates before moving on to a consulting position with American Engineering, and then serving as VP and Chief Engineer with highway construction firm, The E. Randle Company.

Mr. Newman returned to the Commonwealth of Kentucky when Governor Wallace Wilkinson named him State Highway Engineer on June 16, 1988.

Since leaving state service in 1991, Mr. Newman has worked as VP and GM of Central Kentucky Asphalt, and most recently managed offices in both Cincinnati and Lexington for ENTRAN.

In December, Governor Steve Beshear reappointed Mr. Newman as Kentucky's State Highway Engineer.

As State Highway Engineer, Mr. Newman is responsible for leadership and oversight of the Transportation Cabinet's Department of Highways.

The Department of Highways is charged with providing the Commonwealth with a safe and reliable system of state-maintained highways and transportation facilities.

The Department of Highways includes 27,000 miles of state roads and 4,600 professional staff.

Mr. Newman has been honored many times over the years for his accomplishments in the engineering industry. He has served in leadership roles on several committees and continues to stay very involved.





# Jose Sepulveda



## ***Division Administrator - Federal Highway Administration-KY - U.S. Department of Transportation***

Mr. Sepulveda has been the Administrator of the Kentucky Division of the Federal Highway Administration (FHWA) since March 2000. He directs a multi-disciplinary staff which administers the nearly \$600 million Federal-aid highway program in Kentucky. Under his leadership, the Division also provides technical and programmatic support to the Kentucky Transportation Cabinet and other public agencies in Kentucky. Prior to his current assignment, he was the Division Administrator in Puerto Rico.

As Division Administrator, Mr. Sepulveda has provided strong leadership and fostered successful partnerships that helped Kentucky become a national leader in transportation context sensitive solutions, environmental stewardship, strategic safety planning, and efficient program management. Because of his leadership contributions, major and significant projects have been implemented in Kentucky. Among these are; completing Paris Pike, widening I-75, reconstructing I-64, and constructing critical Appalachia projects along US Routes 119 and 430. His partnering skills were instrumental in the development and approval of major environmental documents for critical transportation projects such as the Louisville Ohio River Bridges and the Land Between the Lakes.

He joined the Federal Highway Administration in 1980 as a highway engineer in the former Region 15 Direct Federal Programs office where he held technical and supervisory assignments. While there, he had prominent roles in the development of landmark projects on the Natchez Trace and the Blue Ridge Parkways.

From 1988 to 1991, Mr. Sepulveda was a safety engineer in the FHWA Office of Safety and Traffic Operations where he helped develop national policy and guidance for the implementation of various highway safety programs. From 1991 to 1993, he was the Special Assistant to the FHWA Region 5 Regional Administrator and became the Regional Emergency Transportation Representative responsible for planning and implementing emergency transportation initiatives in support of national security.

He was the Technology Advancement engineer in the Wisconsin Division from 1993 to 1995 and led a team of engineers in implementing new transportation technologies. Mr. Sepulveda fostered partnerships with the transportation department, industry, and academia that led to the implementation of cutting-edge SuperPAVE pavement technologies in Wisconsin. From 1995 to 1997, he was the Assistant Division Administrator in Puerto Rico and was the Territorial Representative to the Virgin Islands. While at this post, he worked closely with the Governor of the Virgin Islands to enhance the delivery of the Federal-aid program in the Territory. He successfully led FHWA's emergency response and recovery efforts in the Virgin Island and Puerto Rico after several major hurricanes devastated the islands.

In 1997, he was appointed Administrator of the Puerto Rico Division where he worked closely with the Secretary of Transportation and the Executive Director of the Highway Authority to implement innovative financing strategies that leveraged over \$100 million in additional funding for the implementation of critical transportation projects in Puerto Rico.

Mr. Sepulveda is a 1980 graduate of the University of Puerto Rico, Mayaguez Campus, where he received a Bachelors in Science on Civil Engineering. He is a Registered Professional Engineer and has received numerous FHWA performance and honor awards including twice receiving the FHWA Administrator Superior Achievement Award.



# Lynn Soporowski



## ***Transportation Engineering Branch Manager – Division of Planning - Kentucky Transportation Cabinet***

### Professional

Lynn Jonell Soporowski, P.E. is a Transportation Engineering Branch Manager for the Kentucky Transportation Cabinet, in Frankfort, KY. She works for the Division of Planning. Presently, Lynn's branch is responsible for traffic forecasting and modeling, regional air quality conformity, congestion management, and the coordination of the multimodal aspects of transportation including ferries, riverports, rail, and freight traffic.

Ms. Soporowski received her BS in Civil Engineering from Tennessee Technological University in 1989 and Masters in Civil Engineering at the University of Kentucky in 2002. She continues her education through the Certified Public Managers Training Program, Advanced Leadership Academy, and Community Transportation Innovation Academy. She is an adjunct professor at the University of Kentucky, Civil Engineering Department.

Ms. Soporowski is serving on two TRB research teams. She is a member of the TRB Committee on Transportation and Air Quality where she is known as an avid spokesperson for rural conformity issues.

### Personal

Lynn grew-up on a small farm outside the *metropolis* of White House, Tennessee. Ms. Soporowski attends First United Methodist Church in Frankfort where she works with the children, bus, and knitting ministries. She is presently hosting two exchange students from Guatemala who attend Kentucky State University. She is involved with Habitat for Humanity, SIMON House, Adult Literacy with Thornhill Learning Center, and spoiling her niece and nephews. Lynn enjoys experiencing new cultures and has traveled extensively in Eastern Europe, Russia, and the United States. She completed her first half-marathon in April 2007 and her next is this weekend in Louisville.





# Bernadette Dupont



***Transportation Specialist - Federal Highway Administration-KY  
U.S. Department of Transportation***

Ms. Dupont is a member of the Program Delivery team in the Kentucky Division of the Federal Highway Administration (FHWA). Since joining FHWA in 2001, Ms. Dupont has served as a planner, air quality specialist, CMAQ program coordinator, CMP specialist, environmental engineer, freight specialist, and HPMS coordinator.

Ms. Dupont is currently serves on the National TMA Certification Handbook Committee, serves on the Division's Leadership Team, is an engineering mentor for one of Frankfort's Future Cities teams, and is a contributing writer for the FHWA News.

Ms. Dupont holds a Master of Civil Engineering degree, a Bachelor of Science degree in Civil Engineering and a Bachelor of Science degree in Telecommunications from the University of Kentucky. She also holds an Environmental Systems Certificate from the University of Kentucky.



# David Waldner



***Director - Division of Environmental Analysis, Department of Highways  
- Kentucky Transportation Cabinet***

Mr. Waldner is currently the Director of the Division of Environmental Analysis for the Kentucky Transportation Cabinet's Department of Highways, having joined the Department in 2001. His Division is responsible for the preparation, review and approval of NEPA (National Environmental Policy Act) documents required for authorization of federal-aid projects, for the environmental compliance of the Cabinet's more than 150 highway support facilities statewide and for environmental compliance of the state's airport facilities managed by the Department of Aviation.

Mr. Waldner has 25 years of experience addressing complex environmental issues, and has worked nearly equally in both the public and private consulting sectors.

Mr. Waldner is a graduate of the University of Kentucky where he received his Bachelors of Science in Civil Engineering in 1983 and is a licensed Professional Engineer.

# Mike Savonis



***Team Leader for Air Quality – Office of Natural and Human Environment,  
Federal Highway Administration HQ  
- U.S. Department of Transportation***

Michael J. Savonis is the Team Leader for Air Quality in the Office of Natural and Human Environment of the Federal Highway Administration, a position he's held since 1996.

Mr. Savonis has 25 years of experience in transportation, air quality, planning, and emerging environmental issues. He oversees FHWA's policy development for the Congestion Mitigation and Air Quality Improvement Program and was instrumental to the creation of the U.S. DOT Center for Climate Change and Environmental Forecasting in 1999. He is author or co-author of several papers and reports on transportation/air quality and related topics, including most recently the Gulf Coast Study addressing how climate change will affect transportation.

Mr. Savonis holds a Master's Degree in Regional Planning from Cornell University (1985) and a Bachelor of Science degree in Chemistry from the State University of New York at Buffalo (1977).



# Lynorae Benjamin



***Chief – Regulatory Development Section/Air Planning Branch/Air, Pesticides and Toxics Management Division  
- U.S. Environmental Protection Agency, Region 4***

Ms. Lynorae Benjamin is Chief of the Regulatory Development Section with the U.S. Environmental Protection Agency, Region 4's office in Atlanta, Georgia. She provides oversight to staff who work with state and local air quality agencies to develop and implement strategies to improve air quality in the Southeast. Ms. Benjamin's staff is also responsible for assessing improvements in air quality in the Southeast and making recommendations for nonattainment/attainment designations for areas that are not meeting air quality standards.

Prior to serving as the Chief of the Regulatory Development Section, Ms. Benjamin worked in the Air Quality Modeling and Transportation Section of the U.S. Environmental Protection Agency's Region 4 office in Atlanta, Georgia, and served as Transportation Conformity Expert for Region 4. Ms. Benjamin also served as the Region 4 contact for regulatory fuels issues, and had responsibility for technical assistance and implementation support for transportation conformity for a number of Region 4 nonattainment/maintenance areas. Other areas of responsibility for Ms. Benjamin included technical assistance and review for transportation-related or mobile source components of state implementation plans, such as mobile emission inventories, motor vehicle emission budgets, state fuel requirements, and inspection and maintenance programs.

Ms. Benjamin joined EPA Region 4 in 1998, after working a few years as a consultant. As a consultant she was a first responder for emergency response and removal activities in support of EPA Region 4. She also served as one of the primary audit team members for the EPA-lead Chemical Safety Audit team, which had responsibility for auditing and providing recommendation for improvement for practices (e.g., chemical handling and storage, emergency planning and reporting) at chemical facilities in Region 4.

Ms. Benjamin has a Master of Science degree in Environmental Engineering from the Georgia Institute of Technology and Bachelor of Science degree in Chemistry from Clark Atlanta University. A native of East Orange, New Jersey, Ms. Benjamin calls Stone Mountain, Georgia her home.





# Jane Spann



## ***Environmental Engineer***

***Air Regulatory Development Section, Air Planning Branch  
- U.S. Environmental Protection Agency, Region 4***

Jane Spann currently serves as the EPA Region 4 ground-level ozone expert in the Regulatory Development Section of the Air Planning Branch. In that capacity she provides technical assistance, guidance and information regarding ground level ozone to State, local and tribal air agencies, regional planning organizations, other regional programs and the public. This includes information regarding the Ozone National Ambient Air Quality Standards (NAAQS) and State Implementation Plans (SIPs).

Jane joined EPA Region 4 in 1986 as an environmental engineer in the RCRA program and later held positions in the Superfund program and the National Pollutant Discharge Elimination System (NPDES) program. She joined the Air Quality group in 2004.

Jane received a B.S. in Petroleum Engineering from the University of Missouri at Rolla, now Missouri University of Science and Technology and she has 15 years experience with EPA Region 4.



# Lona Brewer



***Manager – Program Planning Administration Branch, Division for Air Quality  
- Kentucky Environmental and Public Protection Cabinet***

**Lona Brewer is a 31-year career employee of the Kentucky Division for Air Quality. For the past 23 years she has been with the Program Planning and Administration Branch which oversees air quality planning for the Commonwealth. She was Supervisor of the Program Evaluation Section within that Branch for 5 years and was appointed as Manager of the Branch in April 2000.**

**Ms. Brewer was instrumental in the development of Kentucky's Small Business Assistance Program and the Clearinghouse for information pertaining to Title VI of the Clean Air Act, dealing with the protection of the Stratospheric ozone layer and the federal NOx SIP Call to reduce regional Nitrogen Oxide emissions from power plants and large boilers. Her office is responsible for promulgating regulations and developing Kentucky's State Implementation Plan, which outlines Kentucky's plans to attain and maintain the National Ambient Air Quality Standards within the state, including the latest requests to U.S. EPA to redesignate areas of the state back to attainment for the 8-hr ozone standard. Her office is working to incorporate the federal Clean Air Interstate Rules and updating Kentucky's air toxics program. She is currently a member of the Southeast Diesel Collaborative. Her office also oversees the administration activities for the division including developing and overseeing the agency's budget, personnel, and training matters.**



# John Gowins



***Supervisor – Evaluation Section, Division for Air Quality  
- Kentucky Environmental and Public Protection Cabinet***

Mr. Gowins supervises the Evaluation Section whose main responsibility is State Implementation Plan (SIP) development. He has worked for the Kentucky Division for Air Quality for a total of twelve years. John has also worked for Kentucky's Division of Water and Division of Lab Services in Kentucky's Health Services Department. He has twenty-three years service in Kentucky State Government.

Mr. Gowins holds a Master of Public Administration degree from Kentucky State University and has a Bachelor of Science in Biology from the University of Kentucky.



# Jesse Mayes



***Transportation Engineering Specialist, Division of Planning  
- Kentucky Transportation Cabinet***

Mr. Mayes worked with the Kentucky Transportation Cabinet as a research engineer with the Transportation Research Program from 1973 to 1986, . During that time, he managed a numerical computational section and collaborated with other engineers on such projects as traffic model development and pavement stress/strain analysis. He also taught Engineering Mechanics at the University of Kentucky and the Lexington Technical Institute. From 1986 to 1999, Jesse worked with Electronic Data Systems (EDS) supporting information systems and engineering systems for General Motors and Delphi. In May, 2000, Jesse again joined the Kentucky Transportation Cabinet. His current assignment is with the Division of Planning and his responsibilities include transportation conformity for air quality.

Mr. Mayes has a BS degree in Physics from Eastern Kentucky University and MS degrees in Physics and Engineering Mechanics from the University of Kentucky.





# Rajit Ramkumar



## ***Transportation Engineering Designer - Wilbur Smith Associates, North Carolina***

Mr. Ramkumar has been a Transportation Engineering Designer with Wilbur Smith Associates since 2005. His office is located in Raleigh, North Carolina.

His expertise includes traffic engineering, traffic simulation models, transit planning, traffic impact studies, statistical analysis, transportation planning, GIS, air quality analysis, noise analysis, and environmental studies. Mr. Ramkumar's air quality experience includes the following:

- **New York State MPO Staff Support Services** – Task Manager responsible for assisting all 13 MPO's in New York State on air quality assessment with the implementation of association projects and programs, open-ended planning services, and administration of on-going efforts, including administering the NYSMPO committee programs focusing on transportation and land use planning, bicycle and pedestrian planning, transit planning, and multi-modal transportation planning.
- **Knoxville Downtown Transit Center, Knoxville, Tennessee** – Served as Task Manager responsible for air quality modeling using CAL3QHC/MOBILE6.2, coordination with interagency group, and preparation of technical report. Project examined the air quality impacts due to increased diesel bus traffic from the proposed downtown transit center for Knoxville Area Transit and recommended mitigations for alleviating the PM 2.5 impacts. The air quality analysis was performed as part of the NEPA process for the environmental assessment. The project followed EPA, FTA and FHWA requirements. **This project has the unique distinction of being the first PM 2.5 Qualitative Hot-Spot Analysis completed for a transit center in the country.**
- **Proposed Interstate 73 (I-73) Air Quality Assessment, South Carolina** – Served as Project Designer responsible for the assessment of existing and future air quality standards, coordinating with SCDOT, and preparation of technical memorandum.
- **Greensboro Transit Operations and Maintenance Facility, NC.** Task Manager responsible for conducting PM 2.5 Qualitative Hot-Spot determination and coordinating interagency consultation process. The determination was performed as part of the CE process and was completed using the EPA's Transportation Conformity guidelines.
- **FM 2252 Air Quality Analysis, San Antonio, Texas** – Served as Project Designer responsible for air quality modeling using CAL3QHC and MOBILE6.2, coordination with TxDOT, and preparation of technical report. Project examined the air quality impacts due to increased traffic from a proposed widening of FM 2252 (Nacogdoches Road) from a two-lane roadway to a five-lane curb and gutter undivided facility, a distance of approximately 1.78 miles. The air quality analysis was performed as part of the NEPA process for the environmental assessment.
- **North Lake Development, Dallas, Texas** – Served as Project Designer responsible for air quality modeling using CAL3QHC and MOBILE6.2, coordination with TxDOT, and preparation of technical report. Project examined the air quality impacts due to increased traffic from a proposed traditional neighborhood and town center with 4,700 residential units, two commercial developments, a school, and a federal aviation site.

Mr. Ramkumar has a M.C.E., Civil Engineering, from North Carolina State University, and a B.Tech., Civil Engineering, from the College of Engineering in Trivandrum, India.



# Mike Brace



## ***Manager Research and Development***

***– Emerson Power Transmission, Maysville, KY***

Mike Brace has been an R&D engineer for over 25 years, and has been responsible for the design, fabrication and manufacturing of On & Off-road Electric Vehicles (EVs) for over 15 years. He has worked for several electric vehicle companies, including US Electricar and Clark Forklift. He has also worked with EPRI, CARB and other such air quality consortiums in helping to determine the practical and the feasible.

Mr. Brace was hired as the Sr. R&D Engineer at Emerson Power Transmission (EPT) in Maysville, Kentucky to design, fabricate and test the integrated electrical power transmission components (motor, reduction & control) to a hybrid drive system for a 30,000 lb delivery truck. EPT is part of a sub-conglomerate, Emerson Industrial Automation, which is comprised of several other power transmission component manufacturers that supply commercial and automotive components.

Mr. Brace is now the Manager of the R&D group, and is also responsible for the design and fabrication of all unique test lab equipment as well as the design engineer for some composite components for other divisions.



# Tom Springer



*Director – Planning Department  
Qk4*

Mr. Springer is the Director of the Environmental and Planning Department at Qk4, where he has worked for 14 years. His primary responsibilities include environmental documentation for highway projects and transportation and community planning.

Mr. Springer is member of the American Institute of Certified Planners and the Academy of Board Certified Environmental Professionals.

Mr. Springer has a BS in Physical Geography from Western Kentucky University and a Masters in Public Administration from the University of Louisville. He is a native of Glendale, a husband and the proud father of two kids.



# Kirk Reinke



***Environmental Technician – Environmental & Planning Branch  
Qk4***

Mr. Reinke is an Environmental Technician in the Environmental and Planning Department at Qk4, where he has worked for 8 years. His primary responsibilities include air quality and traffic noise modeling, and preparing environmental documentation for highway projects.

Mr. Reinke is member of the National Association of Environmental Professionals, the Environmental Assessment Association, and the Environmental Solutions Association.

Mr. Reinke has a BA in Geography from the University of Missouri-Columbia. He is married, and has two children.





# Elizabeth Robb



***Environmental Education Specialist – Division for Air Quality  
- Kentucky Environmental and Public Protection Cabinet***

The Environmental Education Specialist for the Kentucky Division for Air Quality since 2004, Ms. Robb educates people of all ages about air quality and how our everyday choices impact air quality.

Ms. Robb has nearly 10 years of experience as a non-formal environmental educator. In February 2006, Elizabeth graduated from the 2005 Kentucky Environmental Education Council's Non-formal Environmental Education Certification course.

Ms. Robb is working to complete a Master's in Geoscience from Western Kentucky University. Her thesis focuses on the importance of local food to the sustainability and security of Kentucky's food supply. Ms. Robb has a Bachelor of Science in Geography from the University of Oregon.

# PRESENTATIONS

