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**Publications**

**1. Book Editorships**

1. Civil Engineering Handbook, Assoc. Ed. Environmental Engineering Section, 1995.
2. Civil Engineering Handbook, Assoc. Ed. Revised edition, 2002.

**2. Book Chapters and Invited Contributions to Books**

1. Jacko, R.B. and LaBreche, T.M.C. (2002), Handbook of Environmental Engineering and Sanitation, Chapter 6, "Air Pollution and Noise Control" 77 pages, John Wiley & Sons.
2. Jacko, R.B. and LaBreche, T.M.C. (2001), "Environmental Engineering: Regulation and Compliance," Handbook of Industrial Engineering", Salvendy, G., ed., John Wiley and Sons, N.Y, Chapter 19, 589-600.
3. Jacko, R.B. and Holden II, R.W. (1995). "Air Pollution" *Civil Engineering Handbook*, Section II, Chapter II, CRC Press, Boca Raton, FL, W. F. Chen, Ed., 515-565.
4. Jacko, R.B. (1995). "Environmental Engineering" *Civil Engineering Handbook*, CRC Press, W. F. Chen, Ed., Associate Editor for Environmental Engineering Chapters. 165-649.
5. Jacko, R.B. (1995). "Introduction: Environmental Systems and Management" *The Engineering Handbook*, IEEE Press and CRC Press, R.C. Dorf, Ed., 915.
6. Jacko, R.B (1983). "Air Quality" *Surface Mining Environmental Monitoring and Reclamation Handbook*. Book Chapter, New York: Elsevier Scientific Publishing Company, L.V.A. Sendlein, H. Yazicigil and C. L. Carlson, Ed., (4) 373-417.

**3. Articles in Refereed Archival Journals**

1. Ramirez-Dorronsoro, J-C., Jacko, R. B. and Kildsig, D. O. (2007). "Chargeability Measurements of Selected Pharmaceutical Dry Powders to Assess Their Electrostatic Charge Control Capabilities." AAPS PharmSciTech, December 28, 2006; 7(4): Article 103, <http://www.aapspharmscitech.org/view.asp?art=pt0704103>
2. Soliman, A.S.M., Jacko, R.B., Palmer, G.M., (2006) "Development of an Empirical Model to Estimate Real-World Fine Particulate Matter Emission Factors: The Traffic-Air-Quality Model". The Journal of Air and Waste Management Association, volume 56, 1540-1549, November 2006.
3. Thomas, S. and Jacko, R.B. (2006). "Forecasting Expressway PM2.5 & CO Concentrations Using Applications of Regression and Neural Network Models", accepted for publication in the Journal of the Air and Waste Management Association, December 2006.
4. Thomas, S., Bullock, D. and Jacko, R.B. (2005) "Model for Estimating Mobile Emissions During Expressway Incidents", Journal of the Air and Waste Management Association, review completed as of January 2007.

5. Yang, K.J., Jacko, R.B. and Sun, Wen-Yih (2005). "Regional Climate-Chemistry Model Simulations of Tropospheric Ozone- Part I: Model Formulation and Evaluation." *Atmospheric Environment*, in preparation.
6. Schneider, W.H. and Jacko, R.B. (2005). "Development of An Empirical Ambient Air Quality Tool for the Management of Interstate Highway Systems." Submitted to *Atmospheric Environment*, January.
7. Fatogoma, O. and Jacko\*, R.B. (2002). "A Model to Estimate Atmospheric Mixing Height and Its Effect on Ozone Modeling." *Atmospheric Environment* , 36, pp3699-3708.
8. Lowery, K. P. and Jacko\*, R. B. (1996). "A Wind Tunnel Study Into the Effects of Raised Intakes and Parapets on Fresh Air Intake Contamination by a Rooftop Stack." *Journal of the Air and Waste Management Association*, 46(9), 847-852.
9. Jacko, R.B. and Reed\*, D.A. (1994). "A Bonded Double Ring Electrodynamic Balance for the Suspension of Submillimeter Sized Particles." *Journal of Aerosol Science*, 25(2), 289-294
10. Bedoya\*, J.V., Flack, R.S., and Jacko, R.B. (1987). "Técnicas Para Controlar Emisiones De Dioxido De Axufre." *Association de Ingeieros Sanitarios de Antioquia* 7(1), Medellen, Columbia.
11. Baker\*, K. D., Stroshine, R.L., Magee, K. F., Foster, G. H., Jacko, R. B. (1986). "Grain Damage and Dust Generation in a Pressure Pneumatic Conveying System." *Transactions of the American Society of Agricultural Engineers*, 29(3), 840-847.
12. Richey, C.B., Barrett, J. R., and Jacko, R. B. (1985). "Downdraft Channel Gasifier Furnace for Biomass Fuels. *Transactions of the American Society of Agricultural Engineers*, (28)2.
13. Barrett\*, J. R., and Peart, R. M., Smith, R. D., Jacko, R. B., Richey, C.B., Foster, G. H. (1984). "Biomass Residue Utilization for Energy in the Cornbelt – Downdraft Channel Gasifier Design, Environmental Aspects and Decision Support Systems." *American Society of Agricultural Engineers*, Publication No. 84-3589.
14. Barrett, J. R., Jacko\*, R. B. (1984). "Thermochemical Conversion of Biomass Residue for Energy in Midwestern U. S. Agriculture." *Z Analytical Chemistry*, 18(6), 446-452.
15. Desilets, D. J., Kissinger, P. T., Lytle\*, R. E., Horne, M. A., Ludwiczak, M. S. and Jacko, R. B. (1984). "Determination of Polycyclic Aromatic Hydrocarbons in Biomass Gasifier Effluents with Liquid Chromatography/Diode Array Spectroscopy." *Journal of Environmental Science and Technology*, (18), 5.
16. Foster\*, G. H., Jacko, R. B., and Barrett, J. R. (1983) "Renewable Energy for Drying Grain." *Solar World Congress*, Perth, Australia, August.
17. Barrett, J. R. and Jacko\*, R. B. (1983). "Corn Residue Furnace Emissions." *Transactions of the American Society of Agricultural Engineers*, 26(3), 363-366 & 371.
18. Jacko\*, R. B., and Holcomb, M. L. (1983). "Simplified Measurement Technique for Polycyclic Aromatic Hydrocarbons Using the EPA Method 5 Sampling Train." *Journal of the Air Pollution Control Association*, 33(12), 119-294.
19. Kutz, L. J., Barrett, J. R., Richey, C. B., and Jacko\*, R. B. (1983). "Downdraft Channel Gasifier Operation and Particulate Emissions." *Transactions of the American Society of Agricultural Engineers*, 26(6), 1630-1635.
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21. Jacko\*, R. B., and Barrett, J. R. (1981). "Particulate Emissions from Biomass Furnaces – Part I, Equipment and Procedures." *American Society of Agricultural Engineers*, Publication No. 81-3561.
22. Jacko, R. B. (1979). "What You Can Expect from a Stack Emissions Test." *Journal of the National Association of Power Engineers*, 83(11), 9-11.
23. Greenberg, R. R., Gordon, G. E., Zoller, W. H., Jacko\*, R. B., Neuendorf, D. W., and Yost, K. J. (1978). "Composition of Particles Emitted from the Nicosia Municipal Incinerator." *Journal of Environmental Science and Technology*, 12(12), 1329-1332.
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25. Jacko\*, R. B. and Holcomb, M. (1978). "Flux Force Condensation Scrubber for Removal of Fine Hydrophobic Particles." *Air Pollution Control Assn.*, Publication No. 78-17.2, pp.1-15.
26. Jacko\*, R. B. and Hall, D. L. (1977). "Community Noise Study for Railroad Relocation." *Transportation Engineering Journal*, (103) ASCE, No. TE6, pp. 693-701.
27. Jacko\*, R. B. and Neuendorf, D. W. (1977). "Trace Metal Particulate Emission Test Results from a Number of Industrial and Municipal Point Sources." *Journal of the Air Pollution Control Assn.* 27(10), 989-994.
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#### 4. Articles in Refereed Proceedings

1. Thomas, A. and Jacko, R.B. (2007) "A Stochastic Model for Estimating the Impact of Highway Incidents on Air Pollution and Traffic Delay", to be presented at the Transportation Research Board Conference, Washington, D.C., January 25, 2007.
2. Thomas, S., Jacko, R.B. (2006) "Model for Forecasting Expressway PM<sub>2.5</sub> Concentrations Using Applications of Regression and Neural Network Models", presented at the annual national Air and Waste Management Association Conference in New Orleans, June 23, 2006.

3. Thomas, S. and Jacko, R. B.(2006), “ Model for Estimating Recurring and Non-recurring Congestion on Air Quality Adjacent to Freeway, AAAR International Conference, 2006.
4. Schneider, W. H. and Jacko, R.B. (2005). “The Development of Traffic Management Strategies Based Upon Field Measurement to Reduce the Impact of Vehicular Emissions on Interstate Highway Systems”, presented at the annual Air & Waste Management Association Conference in Minneapolis, MN held in June 2005, paper #1256.
5. Schneider, W.H., Jacko, R.B., Partridge, B. and Newland, M. (2005). “The Impact of Moving Lane Closures on Local Ambient Air Quality”, presented at the annual Air & Waste Management Association Conference in Minneapolis, MN held in June, 2005, paper # 1260.
6. Thomas, S. and Jacko, R.B. (2005). “Impact of Highway Incidents on Local Air Quality.” presented at the Air & Waste Management annual conference in Minneapolis, MN. June 2005, paper #589.
7. Soliman, A.S.M., Jacko, R.B. and Partridge, B.K., (2004) “Effect of the Borman Expressway on the Air Quality in Urban Northwest Indiana, Part I: IN Time Series Analysis of Traffic and Air Quality Data.” Proceedings of the Air and Waste Management Association Annual Conference, June 2004, Indianapolis, IN. , paper #231,pp5261-5280.
8. Yang, K., Sun, Wen-Yih and Jacko, R.B., (2003) “Regional Numerical Modeling Study of the East Asia Dust Storm”, American Geophysical Union Annual Conference, San Francisco, CA., Dec. 12-18,.
9. Schneider, W.H., R.B. Jacko (2004) "Impact of Borman Expressway Traffic Congestion and Resulting PM2.5 Flux", Transportation Research Board, Washington, D.C., paper #04-4396.
10. Schneider, W.H, LaBreche, T.M.C., Bullock, D. and Jacko, R.B., (2002) “Monitoring of Particulate Matter Less Than 2.5 Microns Along the Borman Expressway”, *9<sup>th</sup> World Conference on Intelligent Transport Systems*, Chicago, IL, 11p.
11. Jacko, R.B. and Yang, K.J. (2001). “Aircraft Measurements of Tropospheric Ozone in the Lake Michigan Region.” *94<sup>th</sup> Annual Conference of the Air & Waste Management Association*, June, session AM-5C, paper #830.
12. Holden, II, R. W., Jacko, R. B. and Nies, L. F. (1999). “The Role of C<sub>1</sub> to C<sub>3</sub> Acids in the Reductive Dehalogenation of Tetrachloroethylene.” *Battelle BioRemediation Symposium*, April 19-22, San Diego, CA.
13. Jacko, R. B. (1995). “Engineering and Economic Impact of ISO 14,000.” *International Conference: Australian Economy in the Asian Pacific Arena*, University of Adelaide, Adelaide, South Australia, 11p.
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15. Reed\*, D. A. and Jacko\*, R. B. (1993). “A Device for Submillimeter Reactive Droplet Observation and Videotaped Results.” *Joint Conference of the 24<sup>th</sup> Annual Meeting of the Fine Particle Society and 1<sup>st</sup> International Conference on Pharmaceutical Sciences and Technology*, Chicago, Illinois, pp 7.
16. Paulson, D. L. Jacko\*, R. B. and Flack, R. S. (1992). “Disposal of Rinsed Pesticide Containers: Incineration and Air Emissions.” *EPA Conference on Agricultural Disposal Methods*, Washington, D.C.
17. Nottoli, J. A. and Jacko\*, R. B. (1987). “Transport of Polychlorinated Biphenyls to the Atmosphere Subsequent to a PCB Spill on Surface Soil.” *World Conference on Hazardous Waste*, Budapest, Hungary, 10p.

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19. Jacko, R. B. (1987). "Certification of USA-CERL Air Quality Monitoring System, Phase I Requirements and Implementation Plan." 39p.
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21. Foster, G. H., Barrett, J. R., Jacko, R. B. (1984). "Combination Biomass-Solar Energy for Corn (Maize) Drying." *84 Bioenergy World Conference and Exhibition*, Gothenburg, Sweden, 6p.
22. Barrett, J. R., Jacko\*, R. B. (1984). "Environmental Aspects of Biomass Furnaces used in Agriculture-Air Pollution and Grain Contamination." *Proceedings Bio Energy 84 World conference and Exhibition*, Gothenburg, Sweden. 8p.
23. Jacko\*, R. B., Barrett, J. R., Foster, G. H. (1984). "Grain Contamination from Biomass Gasification Drying in Midwestern U.S. Agriculture." *10<sup>th</sup> International Congress of Agricultural Engineering*, Budapest, Hungary, 7p.
24. Jacko\*, R. B. (1983). "Review of Particulate Control Technology." *Cadmium Environmental Control Policies Symposium*, International lead and Zinc Research Organization, Purdue University, 7p.
25. Jacko\*, R. B., Barrett, J. R. (1983). "Determination of Polycyclic Aromatic Hydrocarbons and Particulates from the Combustion of Biomass Fuels." *Sixth World Congress on Air Quality*, Paris, France, (4), 359-366.
26. Kutz, L. J., Barrett, J. R., Richey, C. B., Jacko\*, R. B. (1982). "Downdraft Channel Gasifier Operation and Particulate Emissions." *American Society of Agricultural Engineers*, 10p.
27. Jacko, R. B. and Bedoya, J. (1980). "Noise Parameters for Urban Railroad Relocation." *Proceedings, 73<sup>rd</sup> Annual Meeting*, Paper No. 80-47.3, Air Pollution Control Assn., Montreal, Canada, 11p.
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#### 4. Articles in Refereed Proceedings (cont'd)

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35. Faure, F., Jacko\*, R. B. and Squires, R. (1974). "The Collection Efficiency of an Electrostatic Precipitator for Trace metals from an Open Hearth Furnace." *Proceedings of the Second Annual NSF-RANN Trace Contaminants Conference*, Lawrence Berkeley Laboratory, University of California, Berkeley, Publication No. LBL-3217, pp. 212-232.
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#### 5. Other Proceedings Articles

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#### 6. Reports

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3. Jacko, R.B., Schneider, W.H., Soliman, A. and Partridge, B. (2004). "Continuation of Research to Determine The Effectiveness of ITS on Borman Expressway", final report, FHWA/IN/JTRP-2004/14, File No. 9-10-51, project No. C-36-97zz, June 2004.
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5. LaBreche, T., Jacko, R.B., Partridge, B., Schneider, W.H. and Soliman, A. (2002). "Effectiveness of the Borman Expressway ITS Program on Local Air Quality", FHWA/IN/JTRP final report, Project #C-36-67ZZ, file #9-10-51, SPR-2338, September 2002.
6. Afzal, W. and Jacko, R. B. (2002). "Worker Exposure to Airborne Contaminants When Using Waste Foundry Sand in the Construction of Road Embankments", final report, FHWA/IN/JTRP-2002/3, Project #C-36-75J, File #8-9-10, SPR 2194, June 23, 2002.
7. Jacko, R.B. and Flack, R.S. (2002) "Compliance Emission Test Report for Lead PM-10 Particulate and Opacity on the Ventilation Baghouse and the North and South Process Scrubber Stacks" Exide Corporation, 225 pages.
8. Jacko, R.B., (2001) "Federally Enforceable State Operating Permit Renewal Application." Exide Corporation, 92 pages.
9. Jacko, R.B. and Flack, R.S. (2001) "Stack Emission Tests to Determine the VOC Destruction Efficiency across the SICME NEVG 301-308 Magnet Wire Coating Oven." Rea Magnet Wire Company, Inc., 109 pages.
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11. Jacko, R.B. and Flack, R.S., (2000) "Particulate, HCL, HF and Chlorine Emission Tests on the North and South Melter Baghouses." Wabash Alloys, L.L.C., Wabash, IN, 186 pages.
12. Jacko, R.B. and Flack, R.S., (2000) "Stack Emission Tests to Determine the VOC Destruction Efficiency Across the Roll Coater Thermal Oxidizer." Raybestos Products Co., Crawfordsville, IN, 114 pages.
13. Jacko, R.B. and Flack, R.S., (1999) "LADCO Airborne Ozone Measurement Data for Three Detroit, MI, Four St. Louis, MO, and Three East Coast Sampling Missions and One Intercomparison Audit." Lake Michigan Air Directors Consortium, Chicago, IL, 94 pages.
14. Jacko, R.B. and Flack, R.S., (1999) "Stack Emission Tests to Determine the VOC Destruction Efficiency Across the Adhesive Coater Catalytic Oxidizer System." Allomatic Products CO., Sullivan, IN, 106 pages.
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17. Jacko, R.B. and Flack, R.S., (1999) "Compliance Emission Test Report for Particulates and Lead on the Bin Room Baghouse, Refinery Baghouse and Battery Breaker Scrubber Stacks." Exide Corporation, Muncie, IN, 149 pages.
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19. Jacko, R.B. and Flack, R.S., (1998) "Stack Emission Tests to Determine the VOC Destruction Efficiency across the Autocoater Catalytic Oxidizer." Raybestos Products Company, Crawfordsville, IN, 173 pages.
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22. Jacko, R. B., (1996), "Indiana Title V Air Permit Application for Rea Magnet Wire Company." Lafayette, IN.
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24. Jacko, R. B and Fatogoma, O. (1996). "Impact Analysis of Vehicles on Ozone Generation in the Indianapolis Metropolitan Statistical Area." Report No. HPR-2108; FHWA/IN/JHRP-95-16, Indiana Department of Transportation, 113p.
25. Jacko, R. B. (1996). "LADCO Airborne Ozone Measurement Data for Two Flights Performed June 19, 1996 and the Intercomparison Flight on July 3, 1996." Lake Michigan Air Directors Consortium, Chicago, IL, 20p.
26. Jacko, R. B. and Ghosh, R. (1996). "Pharmaceutical Powder Dustiness and Chargability." Eli Lilly and Company, Indianapolis, IN, 31p.
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28. Jacko, R. B. (1996). "Aerodynamic Crosstalk Analysis Between the Positron Emission Tomography Exhaust Stack on the Roof of the IU Hospital and Two Fresh Air Intakes on the Future Lilly Clinic Above the Outpatient Center." Indiana University Architects Office, Indianapolis, IN, 75p.
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**7. INVITED PRESENTATIONS**

1. Jacko, R.B. and Smith, D. (2005), "Transportation Engineering Aspects of Accessible Pedestrian Signals", Seminar to INDOT Traffic Signal Engineers, Conference Room 5, Indiana Government Center South, Indianapolis, IN, 9am to noon, 12/2/05
2. Jacko, R.B. (2005), "How the Blind Can Navigate Pedestrian Intersections", American Council of the Blind State Conference, Ball State University, Muncie, IN, 11/05/05

**7. INVITED PRESENTATIONS, CONT'D.**

3. Jacko, R.B. (2005), "Orientation & Mobility Instruction at Intersections Equipped With Accessible Pedestrian Signals", Association for the Education and Rehabilitation of the Blind and Visually Impaired, Annual State Conference, Turkey Run State Park, Indiana, 10/07/05
4. Jacko, R.B. (2005), "Intersection Accessibility for the Blind and Visually Impaired In The Urban Environment", Family Services of Indiana, Program for the Visually Impaired, Indianapolis, IN, 8/10/05
5. Jacko, R.B. (2005), "Pedestrian Intersection Navigation for Blind Employees Enroute to Work", Bosma Industries, Indianapolis, IN, 8/10/05
6. Jacko, R.B. (2005), "Technology Survey of Accessible Pedestrian Signals", Lakota Chapter of the American Council of the Blind – Indiana, Columbia City, IN, 8/04/05
7. Jacko, R.B. (2005), "Installation Difficulties With Accessible Pedestrian Signals In Large Metropolitan Areas", National Federation of the Blind, Miami Dade County Chapter, Miami, FL, 7/21/05
8. Jacko, R.B. (2005) "Intersection Navigation Tools for the Blind and Visually Impaired", American Council of the Blind, Indiana Chapter, Indianapolis, IN, 5/21/05
9. Jacko, R.B. (2005) "Accessible Pedestrian Signals on the Purdue University Campus", State Board Officers Meeting, American Council for the Blind-Indiana, Columbia Club, Indianapolis, IN 4/23/05
10. Jacko, R.B., Soliman, A. and Thomas, S. (2004). "Time Series Analysis of Air Quality and Transportation Parameters Adjacent to the Borman Expressway", Chicago Area Transportation Study, Chicago, IL., July 20, 2004.
11. Soliman, A., Thomas, S. and Jacko, R. B. (2004). "Transportation Air Quality and the Relationship to ITS Expressway Systems", Gary – Chicago – Milwaukee (GCM) Corridor Committee, June 8, 2004, Olympia Fields, IL.
12. Yang, K. and Jacko, R.B. (2004). "Regional Climate-Chemistry Model Simulations of Tropospheric Ozone Using Airborne Measurements", Lake Michigan Air Directors Consortium Seminar, DesPlaines, IL June 11, 2004.
13. Schneider, W.H., Soliman, A. and Jacko, R.B. (2003). "Impact of Intelligent Transportation Systems on Local Air Quality Adjacent to the Borman Expressway", Northern Indiana Regional Planning Commission Environmental Management Policy Committee, November 6, 2003.
14. Schneider, W.H. and Jacko, R.B. (2003). "Air Quality and Transportation on the Borman Expressway", Gary – Chicago – Milwaukee (GCM) Corridor Committee, March 27, 2003.
15. Schneider, W.H. and Jacko, R. B. (2003). "Transportation Air Quality on the Borman Expressway", presented to the Purdue President's Council, Purdue Univ., March 8, 2003.
16. Stack Testing Prerequisites, Air and Waste Management Workshop: Compliance Testing and Monitoring, What You Need To Know To Get The Job Done, Radisson, Inn, Indianapolis Airport, August 22, 2002
17. Schneider, W.H. and Jacko, R. B. (2002). "Air Quality Flux Correlation with Occupancy on the Borman Expressway", presented to the Purdue President's Council, Purdue Univ., March 10, 2002.
18. Jacko, R.B. (2001). Cassopolis Michigan Ozone Episode and Midwest Regional Airborne Ozone Measurements, University of Miami Rosenstiel School of Marine and Atmospheric Science, Marine and Atmospheric Chemistry Division, seminar, February 28, 2001.

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19. Jacko, R.B. (1999). Analysis of Airborne Ozone Measurements, Hazardous Materials Managers Association, Indianapolis, IN, September, 1999.
20. Jacko, R.B. (1999). Anatomy of a Tropospheric Ozone Event in Southern Michigan, (Environmental Seminar), School of Civil Engineering , Purdue University, February 2, 1999.
21. Jacko, R.B. (1996). AWMA-East Central Section Air and Waste Management Association, Presentation on Ozone, in Indianapolis, IN, January 11, 1996.
22. Jacko, R.B. (1996). Association of Environmental Geologists, Presentation on Industrial Air Pollution, Department of Earth and Atmospheric Science, Purdue University, 1996.
23. Jacko, R.B. (1996). Ozone Culpability Analysis at the Cassopolis, Michigan Monitoring Station. Presentation to Governmental and Industrial Leaders, Michiana Council of Government, South Bend, IN, 1996.
24. Jacko, R.B. (1995). Interregional Transport of Tropospheric Ozone Seminar, Purdue University, Civil Engineering.
25. Jacko, R.B. (1992, 1994) Lafayette Leadership Program. Invited to speak on air quality.
26. Jacko, R.B. (1992). Performed Noise Measurements at a local asphalt field batch plant to determine Environmental Impact at Measurements and adjacent new housing division at the request of a local builder, 1992.
27. Jacko, R.B. (1991,1994). TV interview, New Clean Air Act.
28. Jacko, R.B. (2001). TV interview, Transportation Effects on Air Pollution, 1990.
29. Jacko, R.B. (1990). Presentation to Lafayette Chamber of Commerce Speaker Environmental Workshop on Air Quality in Lafayette area.
30. Jacko, R.B. (1990). Presentation to ISPE AA Potter Chapter on Health Effects of Air Pollution and Current Levels in Lafayette Area.
31. Jacko, R.B. (1990). Purdue University, Technical Assistance Program (TAP), Seminar on Environmental Issues.