




air pollution control district
SANTA BARBARA COUNTY

Agenda Item: D-9
Agenda Date: June 26, 2025
Agenda Placement: Admin
Estimated Time: N/A
Continued Item: No

Board Agenda Item

TO: Air Pollution Control District Board

FROM: Aeron Arlin Genet, Air Pollution Control Officer 

CONTACT: Lorena Saldana, Executive Assistant/Board Clerk, (805) 979-8282

SUBJECT: District Hearing Board Appointments

RECOMMENDATION:

Consider recommendations of the District Hearing Board Nominating Committee to reappoint Mr. Lee-Volker Cox as a public member representative and Dr. Steven Colome as the medical member representative on the District Hearing Board for a 3-year term.

DISCUSSION:

The District Hearing Board Nominating Committee met on May 15, 2025, to consider options for filling the expiring terms of Mr. Lee-Volker Cox, a public member representative, and Dr. Steven Colome, a medical member representative, on the District Hearing Board. Present were committee members Roy Lee, Joan Hartmann, Bob Nelson, Jennifer Smith (Alternate member for the City of Goleta), and Alice Patino.

Mr. Lee-Volker Cox has been serving as a public member representative on the Hearing Board since October 2016. His current term is set to expire October 2025. Should your Board wish to extend his term, Mr. Cox has expressed interest in continuing his position on the Hearing Board.

Dr. Steven Colome has been serving as the medical member representative on the Hearing Board since October 2019. His current term is set to expire October 2025. Should your Board wish to extend his term, Dr. Colome has expressed interest in continuing his position on the Hearing Board.

After consideration, the Hearing Board Nominating Committee members voted unanimously to recommend that the District Board of Directors reappoint Mr. Lee Volker-Cox to the public member position, and Dr. Steve Colome to the medical member position on the District Hearing Board for a 3-year term.

ATTACHMENTS:

- A. Lee-Volker Cox Application for Hearing Board
- B. Steven Colome Application for Hearing Board

ATTACHMENT A

Lee Volker-Cox Application for Hearing Board

June 26, 2025

Santa Barbara County Air Pollution Control District
Hearing Board Nominating Committee

260 San Antonio Road, Suite A
Santa Barbara, California 93110

APPLICATION FOR HEARING BOARDair pollution control district
SANTA BARBARA COUNTY**Clerk of the APCD Board**
260 San Antonio Road, Suite A
Santa Barbara, CA 93110-1315(805) 979-8050 www.ourair.org**Instructions:**

1. Read the public notice to determine if you meet the qualifications for the position.
2. An original application must be timely filed for each position.
3. Please type or print in blue or black ink.
4. Answer all questions accurately and completely. Incomplete applications may be disqualified. If additional space is needed, attach a sheet of paper.
5. Resumes are viewed as additional information and not in lieu of a completed application.
6. This application shall be maintained for a period of one year only.

Date Received:

Please indicate the Hearing Board category (or categories) for which you are applying:

☐ Attorney Member ☐ Medical Profession Member ☐ Engineer Member ☒ Public MemberNAME _____ COX _____ LEE-VOLKER _____
Last First MiddleADDRESS _____
Street City Zip Code

CELL PHONE _____ EMAIL _____

BUS. PHONE _____ HOME PHONE (805) 937-8770

Are you or have you been employed by the SBCAPCD? ☐ Yes ☒ No

Department: _____

Title: _____ Dates: _____

Are you related to any SBCAPCD employee? ☐ Yes ☒ No

Name of Relative: _____

Relationship: _____ Department: _____

The APCD Hearing Board hears and renders decisions on matters of a technical nature involving air quality. Please describe any technical experience, training, or education you have that directly relates to air quality and how it has prepared you to be an effective Hearing Board member.

After nine years serving as the chair, vice chair and board member, I have considerable experience with APCD hearing board issues. I have completed various training programs focusing on air pollution issues.

During my 27 years in the Air Force, I was responsible for the operations of several organizations required to meet environmental regulations both within the United States and internationally. I chaired meetings and was briefed regularly on operations from fuels storage to aircraft maintenance to fabrication facility emissions.

Please explain why you are interested in serving on the APCD Hearing Board.

I have enjoyed my time serving for about 8 years as the only North Santa Barbara County representative on the SBCAPCD Hearing Board. It is critical for the hearing board to have representatives and perspectives from across the county. I am interested in the issues we address and enjoy learning about the organizations, equipment, industries, and impact they have on the community. It is vital to ensure organizations operate within the laws and regulations while ensuring compassion for the possible impacts to workers, community members, and the environment. I believe my unique background, including APCD training, are ideal for continued representation on the hearing board.

Please describe any experience(s) you have as a member of a Board.

I am serving or served on the following Boards: Alan Hancock College Foundation (President and Finance Committee), CoastHills Credit Union (Board of Directors, Treasurer, Supervisory Board, and Auxiliary Committee), Leadership Santa Maria Valley (Chair and Vice Chair), PHYCO2 (Advisory Board), Pacific AgriTec (Advisory Board), Foxenwood Estates Homeowners' Association (President), Saint Mary of the Assumption Consultative School Board (President).

Additionally while in the Air Force, I chaired and was a member of numerous standing committees impacting budgets, global operations, personnel, international relations.

Do you have any commitments which would prevent you from meeting the attendance requirements of the Hearing Board? If yes, please explain.

I provide support to my 93-year old Mother. If she has a medical issue, it will take priority.

Do you work for or have a financial interest in any source regulated by the APCD? If yes, please discuss.

No

Please list professional, trade, or business associations held which relate to the Hearing Board category for which you are applying.

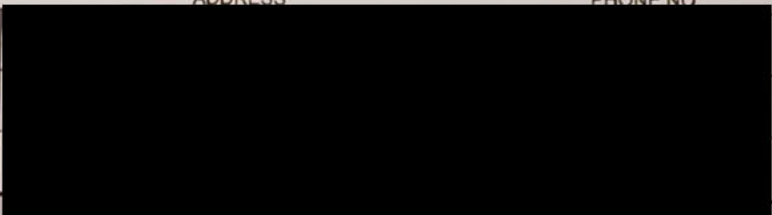
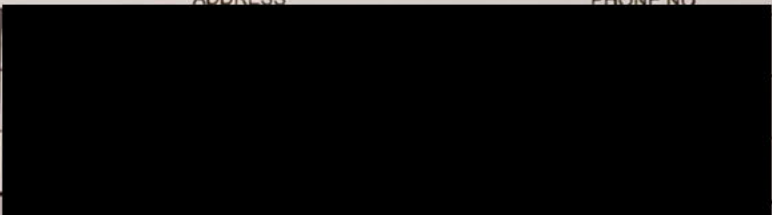
List any additional information explaining your qualifications, including relevant volunteer activities, community organization memberships, accomplishments, publications, or awards. Attach additional sheets if necessary.

As an 8-year hearing board member, including chair and vice chair, I have experience with a wide range of issues and challenges brought before the hearing board. I have also completed several training classes hosted by the state and county.

EDUCATION

College, Business or Trade Schools Attended	Major	Degree(s) Received
Brandman University	Organizational Leadership	Ed.D.
University of Southern California	Systems Management	MSSM
United States Army War College	Strategic Studies	MSS
Seattle University University of Washington	Mathematics Economics	BS BA

REFERENCES - Give names of three persons, not relatives, who have knowledge of your character, experience, community involvement, and abilities.

NAME	ADDRESS	PHONE NO.	OCCUPATION
Jim Fields			Retired
James MacKinley			Inspector General
Chuck Winkles			President and CEO New Life Companies

I HEREBY CERTIFY THAT ALL STATEMENTS MADE IN THIS APPLICATION ARE TRUE AND COMPLETE.

APPLICANT'S SIGNATURE

Lee-Valerie Cox

DATE

4/30/2025

ATTACHMENT B

Steven Colome Application for Hearing Board

June 26, 2025

Santa Barbara County Air Pollution Control District
Hearing Board Nominating Committee

260 San Antonio Road, Suite A
Santa Barbara, California 93110

APPLICATION FOR HEARING BOARD**air pollution control district**
SANTA BARBARA COUNTY**Clerk of the APCD Board**
260 San Antonio Road, Suite A
Santa Barbara, CA 93110-1315**(805) 961-8800** www.ourair.org**Instructions:**

1. Read the public notice to determine if you meet the qualifications for the position.
2. An original application must be timely filed for each position.
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5. Resumes are viewed as additional information and not in lieu of a completed application.
6. This application shall be maintained for a period of one year only.

Date Received:

RECEIVED
AUG - 2 2019
SBCAPCD

Please indicate the Hearing Board category (or categories) for which you are applying:

☐ Attorney Member ☒ Medical Profession Member ☐ Engineer Member ☐ Public Member

NAME Colome Steven
Last First Middle

ADDRESS [REDACTED] [REDACTED] [REDACTED]
Street City Zip Code

CELL PHONE [REDACTED] EMAIL [REDACTED]

BUS. PHONE [REDACTED] HOME PHONE [REDACTED]

Are you or have you been employed by the SBCAPCD? ☐ Yes ☒ No
Department: _____
Title: _____ Dates: _____

Are you related to any SBCAPCD employee? ☐ Yes ☒ No
Name of Relative: _____
Relationship: _____ Department: _____

The APCD Hearing Board hears and renders decisions on matters of a technical nature involving air quality. Please describe any technical experience, training, or education you have that directly relates to air quality and how it has prepared you to be an effective Hearing Board member.

I have a doctoral degree in Public Health/Air Pollution Control and have held faculty positions at UC Irvine and the UCLA School of Public Health doing research and teaching various aspects of air pollution effects and control. My research career and publications have focused on air pollution health effects and exposure pathways. I have been a member of several National Academy of Sciences Committees including winter oxygenated fuels (primarily MTBE) and carbon monoxide in cold climates. I also served as Deputy Director of the multi-center Particle Research Center and Supersite at UCLA.

Please explain why you are interested in serving on the APCD Hearing Board.

Having advised government agencies at the local, state, federal and international level I am well aware of the issues faced by hearing boards. I strive to take a balanced view and know the importance of a fair hearing. Participation in the SBCAPCD Hearing Board would be a way for me to give back to the community for my training and experience.

Please describe any experience(s) you have as a member of a Board.

For over 15 years I was an advisor to the SCAQMD as a member of the district's Technical Advisory Committee (TAC) during the 1980s into the 1990s. We advised APCOs including Drs. James M. Lentz, Barry Wallerstein and Technology Officer Dr. Alan Lloyd. During that period the TAC was involved in development and review of the REgional Clean Air Incentives Market (RECLAIM) program and the Multiple Air Toxic Exposure Study (MATES). I was also one of the developers of the REgional Human Exposure Study (REHES) produced under contract to the SCAQMD. I currently serve as a member of the Advisory Committee to the VCAPCD and am a technical advisor to the City of Ojai and a Ventura County 501c3: Citizens for Responsible Oil and Gas (CFROG). In the past I have served on committees of EPA, CPSC, the Congressional Office of Technology Assessment and NIEHS. During the mid-1970s I chaired the Greater Boston Group of the Sierra Club.

Do you have any commitments which would prevent you from meeting the attendance requirements of the Hearing Board? If yes, please explain.

No regular commitments that would interfere with attendance or service.

Do you work for or have a financial interest in any source regulated by the APCD? If yes, please discuss.

I am a founder of start-up EcoPAS, LLC -- a company that has developed a control system for VOC emissions from primary wine fermentation. Our system has been declared an achieved-in-practice BACT by the SBCAPCD and has been entered into the CARB BACT Clearinghouse.

Please list professional, trade, or business associations held which relate to the Hearing Board category for which you are applying. Current VCAPCD Advisory Committee member and technical advisor to City of Ojai and CFROG. Previously held membership and various committee positions with APCA/AWMA, ACS, and the International Society of Exposure Analysis and Environmental Epidemiology. Associate Editor for various professional journals related to air pollution and public health.

+

List any additional information explaining your qualifications, including relevant volunteer activities, community organization memberships, accomplishments, publications, or awards. Attach additional sheets if necessary.

Current technical advisor on CARB-funded AB617 grant to CFROG. Publication record (see attached) related to air pollution control and exposure. Previously served as advisor to CPSC (chaired committee on CO alarms), DoD (troop exposure during Desert Storm), NASA (scientific team to anticipate health risks and hazards in International Space Station) and EPA (various committees of the SAB for NAAQS for ozone, CO, SO₂ and PM).

EDUCATION

College, Business or Trade Schools Attended	Major	Degree(s) Received
Stanford University	Molecular Biology/Biological Sciences	SB
Harvard University School of Public Health	Environ. Health Sci./Air Pollution Control	Sc.D.

REFERENCES - Give names of three persons, not relatives, who have knowledge of your character, experience, community involvement, and abilities.

NAME	ADDRESS	PHONE NO.	OCCUPATION
David Harris			Division Supervisor
Robin Gerber			Author
Mike Villegas			APCO, VCAPCD

I HEREBY CERTIFY THAT ALL STATEMENTS MADE IN THIS APPLICATION ARE TRUE AND COMPLETE.

APPLICANT'S SIGNATURE

M. Colone

8/2/2019
DATE

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2.
Photocopy this page or follow this format for each person.

NAME Steven D. Colome		POSITION TITLE Chief Scientist/Principal, EcoPAS LLC	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Stanford University	S.B.	1972	Molecular biology
Harvard University	Sc.D.	1981	Environmental Health Sciences

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. If the list of publications in the last three years exceeds two pages, select the most pertinent publications. **DO NOT EXCEED TWO PAGES.**

Research Interests:

Human pollutant exposure assessment, environmental epidemiology, air pollution control, health effects assessment.

Professional Positions:

1972	Research Assistant, Stanford University Medical School
1973	Research Fellow, Harvard Medical School
1973 to 1974	Evaluator, Health Center, Columbia Point, Mass.
1975	Statistician, the Massachusetts Division of Air and Hazardous Materials
1977 to 1980	Affiliate, Energy and Environmental Policy Center, Harvard University
1981 to 1988	Assistant Professor, School of Ecology, UC Irvine
1988 to 2007	Principal, Integrated Environmental Sciences, Inc.
1997 to 2006	Adjunct Professor, UCLA School of Public Health
2006 to present	Partner, EcoPAS LLC

Awards:

Bird Corporation, R. W. Johnson Foundation and U.S. EPA Fellowships.
Nominee, Society of Fellows, Harvard University. Sealco Corporation,
Helms Foundation and California Scholastic Federation Scholarships.

Reviewed Publications Relevant to Current Application:

Meng QY, Spector D, Colome S, Turpin B (2009): Determinants of indoor and personal exposure to PM_{2.5} of indoor and outdoor origin during the RIOPA study. *Atmospheric Environment* 43(36):5750-5758.

Liu W, Zhang J, Korn LR, Zhang L, Weisel CP, Turpin B, Morandi M, Stock T, Colome S (2007): Predicting personal exposure to airborne carbonyls using residential measurements and time/activity data. *Atmospheric Environment* 41(25): 5280-5288.

Reff A, Turpin BJ, Offenberger, JH, Weisel CP, Zhang J, Morandi M, Stock T, Colome S, Winer A (2007): Mechanistic Analysis of FTIR Spectra from Outdoor, Indoor, and Personal PM_{2.5} Samples collected during RIOPA. *Atmospheric Environment* 41(22):4585-4598.

- Meng QY, Turpin BJ, Lee JH, Polidori A, Weisel CP, Morandi M, Colome S, Zhang J, Stock T, Winer A (2007) How does infiltration behavior modify the composition of ambient PM_{2.5} in indoor spaces? An analysis of RIOPA Data. *Environ. Sci. Technology.*, 41(21):7315-7321.
- Kwon J, Weisel CP, Turpin BJ, Zhang J, Korn LR, Morandi, MT, Stock TH, Colome S (2006) Source proximity and outdoor-residential VOC concentrations: Results from the RIOPA Study. *Environ. Sci. Technol.*, 40(13):4074-4082.
- Weili L, Zhang J, Kwon J, Weisel, C, Turpin B, Zhang L, Korn L, Morandi, M, Stock T, Colome S (2006) Concentrations and source characteristics of airborne carbonyl compounds measured outside urban residences. *J. Air & Waste Management Assoc.*, 56(8):1196-1204.
- Polidori A, Turpin B, Meng QY, Lee JH, Weisel C, Morandi M, Colome S, Stock T, Winer A, Zhang J, Kwon, J, Alimokhtari S, Shendell D, Jones J, Farrar C and Maberti S (2006) Fine organic particulate matter dominates indoor-generated PM_{2.5} in RIOPA homes. *J. Exposure Science & Environ. Epi.*, 16:321-331.
- Behrentz E, Sabin LD, Winer AM, Fitz DR, Pankratz DV, Colome SD, Fruin SA (2006) Reply to comment on “measuring self-pollution in school buses using a tracer gas technique.” *Atmos. Environ.* 40(27):5325-5327.
- Meng, Q Y, Turpin BJ, Korn L, Weisel CP, Morandi M, Colome S, Zhang, J, Stock T, Spektor D, Winer A, Zhang L, Lee JH, Giovanetti R, Cui W, Kwon J, Alimokhtari S, Shendell D, Jones J, Farrar C, Maberti, S (2005) Influence of Ambient (Outdoor) Sources on Residential Indoor and Personal PM_{2.5} Concentrations: Analysis of RIOPA Data. *J. Exposure Anal. Environ. Epi.*, 15:17-28.
- Reff, A., R. J. Porcja, Wenxuan Cui, R. Giovannetti, B. J. Turpin, C. P. Weisel, M. Morandi, T. Stock, S. Colome, A. Winer, D. Spektor, S. Alimokhtari, J. Kwon, S. Maberti, D. Shendell, J. Jones, (2005). Mechanistic Analysis of FTIR Spectra from Outdoor, Indoor, and Personal PM_{2.5} Samples collected during RIOPA *Indoor Air* 15:53-61.
- Meng QY, Turpin B J, Polidori A, Lee JH, Weisel C, Morandi M, Colome S, Stock T, Winer A, Zhang, J (2005) PM_{2.5} of Ambient Origin: Estimates and 3exposure errors relevant to epidemiology. *Environ. Sci. and Technol.* 39(14):5101-5112.
- Sabin, LD, Behrentz E, Winer AM, Jeong S, Fitz DR, Pankratz DV, Colome SD, Fruin S, (2005) Characterizing the Range of Children’s Air Pollution Exposure During School Bus Commutes. *J. of Exposure Analysis and Environmental Epidemiology*, 15, 377 – 387.
- Behrentz E, Sabin LD, Winer AM, Fitz DR, Pankratz DV, Colome SD, Fruin S, (2005) Relative importance of school bus-related microenvironments to children’s pollutant exposure . *J. of Air & Waste Management Assoc.*, 55(10): 1418 – 1430.
- Offenberg, JH, YY Naumova,, SJ Eisenreich, BJ Turpin, MT Morandi, TH Stock, SD, Colome, AM Winer,, CP Weisel (2004) “Chlordanes in the Indoor and Outdoor Air in Three U.S. Cities,” *Environ. Science and Technology*. 38: 2760-2768.
- Behrentz, E., D.R. Fitz, D. V. Pankratz, L.D. Sabin, S.D. Colome, S. Fruin, A.M. Winer, 2004. Measuring Self-Pollution in School Buses using a Tracer Gas Technique. *Atmospheric Environment*, 38: 3735-3746.
- Shendell, D.G., Winer, A., Weker R., Colome, S.D. (2004). “Evidence of Inadequate Ventilation in Portable Classrooms from a Pilot Study in Los Angeles County.” *Indoor Air*, 14:154-158.
- Behrentz, E., D.R. Fitz, D.V. Pankratz, L.D. Sabin,, S.D. Colome, S. Fruin, A.M. Winer, 2004. Relative Importance of School Bus Commute-Related Microenvironments to Children’s Air Pollutant Exposure. *J. Air and Waste Management Assoc.*, in press
- Weisel, C. P., Zhang, J., Turpin, B. J., Morandi, M. T., Colome, S., Stock, T. H., Spektor, D. M., Korn, L., Winer, A., Alimokhtari, S., Kwon, J., Mohan, K., Harrington, R., Giovanetti,** R., Cui, W., Afshar, M., Maberti, S., Shendell, D. (2004) “The Relationships of Indoor, Outdoor and Personal Air (RIOPA) Study: Study Design, Methods, and Quality

Assurance/Control Results" *J. Exposure Anal. Environ. Epi.*, advanced online publication 23 June
doi:10.1038/sj.jea.7500379.

Shendell, D.G., Winer, A.M., Stock, T.H., Zhang, L., Zhang, J.J., Maberti, S., Colome, S.D. (2004) "Air Concentrations of VOCs in Portable and Traditional Classrooms In Los Angeles County," *J. of Exposure Analysis and Environmental Epidemiology*, 14:44-59.

Naumova, Y. Y., Offenberg, J. H., Eisenreich, * S. J., Polidori, A., Meng, Q.Y., Turpin, B. J., Weisel, C. P., Morandi, M. T., Colome, S. D., Stock, T. H., Winer, A. M., Alimokhtari, S., Kwon, J., Maberti, S., Shendell, D., and Jones, J., Farrar, C. (2003) "Gas-Particle Distribution of Polycyclic Aromatic Hydrocarbons in Coupled Outdoor/Indoor Atmospheres," *Atmos. Environ.* 37:703-719.

Naumova, Y. Y., Eisenreich, S. J., Turpin, B. J., Colome, S.D., Toten, L. A., Morandi, M.T., Weisel, C.P., Stock, T.H., Winer, A.M., Alimokhtari, S., Kwon, J., Shendell, D., Jones, J., Maberti, S., and Wall, S.J. (2002) "Polycyclic Aromatic Hydrocarbons in the Indoor and Outdoor Air of Three Cities in the U.S. *Environ. Sci. Technol.* 36(12):2552-2559.

Fruin, S.A., St. Denis, M.J., Winer, A.M., Colome, S.D., Lurmann, F.W., 2001. Reductions in Human Benzene Exposure in the California South Coast Air Basin. *Atmospheric Environment*, 35 1069-1077.

Meneses, F., Romieu, I., Ramirez, M., Colome, S., Fung, K., Ashley, D., Hernandez, M.A. 1999. A Survey of Personal Exposures to Benzene in Mexico City. *Archives Environmental Health*, 54(5):359-363.

Romieu, I., Ramirez, M., Meneses, F., Ashley, D., Lemire, S., Colome, S., Fung, K., Hernandez, M.A., 1999. Environmental Exposure to Volatile Organic Compounds among Workers in Mexico City as Assessed by Personal Monitors and Blood Concentrations. *Environmental Health Perspectives*, 107(7): 511-515.

Avol, E.L., Navadi, W.C., Colome, S.D., 1998. Modeling Ozone Levels in and around Southern California Homes. *Environmental Science and Technology*, 32(4): 463-468.

Pandian, MD, JV Behar, WR Ott, LA Wallace, AL Wilson, SD Colome, M Koontz, 1998, Correcting Errors in the Nationwide Data Base of Residential Air Exchange Rates. *J. Exposure Analysis and Environmental Epidemiology*, 8:577-586.

Romieu, I., Cortes, M., Colome, S., Mercado, A., Hernandez, M., Geyh, A., Ruiz, S., Palazuelos, E., , 1998. Evaluation of Indoor Ozone Concentrations and Predictors of Indoor-Outdoor Ratios in Mexico City. *Journal of the Air and Waste Management Association*, 48:327-335.

Wilson, A.L., Colome, S.D., Tian, Y., Becker, E. W., Baker, P.E., Behrens, D.W., Billick, I.H., Garrison, C.A., 1996. California Residential Air Exchange Rates and Residence Volumes. *Journal of Exposure Analysis and Environmental Epidemiology*, 6(3):311-326

Kado, N.Y., Colome, S. D., Kleinman, M.T., Hsieh, D. P.H., Jaques, P., 1994: Indoor-Outdoor Concentrations and Correlations of PM10-Associated Mutagenic Activity in Non-Smokers' and Asthmatics' Homes. *Environmental Science and Technology*, 28(6):1073-1078.

Spengler, J.D., Schwab, M., Ryan, P. B., Colome, S. D., Wilson, A. L., Billick, I., and Becker, E. 1994: Personal exposure to nitrogen dioxide in the Los Angeles Basin. *Journal of the Air and Waste Management Association*, 44:39-47.

Abbey, D.E., Colome, S.D., Mills, P.K., Burchette, R. Lawrence Beeson, W., Tian, Y. 1993: Chronic Disease Associated with Long-Term Concentrations of Nitrogen Dioxide. *Journal of Exposure Analysis and Environmental Epidemiology*, 3(2):181-202.

Colome, S., Kado, N.Y., Jaques, P., Kleinman, M., 1992: Indoor-outdoor air pollution relations: particulate matter less than 10µm in aerodynamic diameter (PM10) in homes of asthmatics. *Atmospheric Environment*, 26A(12):2173-2178.

Hall, J.V., Winer, A.M., Kleinman, M.T., Lurmann, F.W., Brajer, V., Colome, S.D., 1992. Valuing the Health Benefits of Clean Air. *Science*, 255:812-817.

Burke, T., Anderson, H., Beach, N., Colome, S., Drew, R.T., Firestone, M., Hauchman, F., Miller, T., Wagener, D., Zeise, L., Tran, N., 1992: Role of Exposure Databases in Risk Management. *Archives of Environmental Health*, 47(6):421-429.

Schwab, M., Colome, S. D., Spengler, J. D., Ryan, P. B., and Billick I. H. 1990: Activity patterns applied to pollutant exposure assessment: data from a personal monitoring study in Los Angeles. *Journal of Toxicology and Industrial Health, Exposure Analysis Section*, 6(6):517-532.

Lebowitz, M. D., Quackenboss, J. J., Soczek, M. L., Kollander, M., and Colome, S. D. 1989: The new standard environmental inventory questionnaire for estimation of indoor concentrations. *JAPCA*, 39(11):1411-1419.

Drye, E., Ozkaynak, H., Burbank, B., Billick, I.H., Spengler, J.D., Ryan, P. B., Baker, P.E., Colome, S.D. 1989: Development of models for predicting the distribution of indoor nitrogen dioxide concentrations. *JAPCA*, 39(9):1169-77.

Lebowitz, M. D., Quackenboss, J. J., Soczek, M. L., Colome, S. D., and Liroy, P. J. 1989: Workshop development of questionnaires and survey instruments. In: *Design and Protocol for Monitoring Indoor Air Quality, ASTM STP 1002*, N. L. Nagda and J. P. Harper, Eds., American Society for Testing and Materials, Philadelphia, pp. 203-216.

Lambert, W. E., Colome, S. D., and Wojciechowski, S. L. 1988: Application of end-expired breath sampling to estimate carboxyhemoglobin levels in community air pollution exposure assessments. *Atmos. Environ.*, 22(10):2171-81.

Evans, G. W., Colome, S. D., and Shearer, D. 1988: Psychological reactions to air pollution. *Environ. Res.*, 45:1-15.

Colome, S. D., Fairshter, R. D., Castaneda, N., Pai, U., Brideshead, T., and Lowe, J. 1987: Accuracy of Miniwright peak flow meters, abstract supplement. *Am. Rev. Resp. Dis., supplement April 1987*, 135(4), part 2:A118.

Colome, S. D., Wilson, A. L., Becker, E. W., Cunningham, S. J., and Baker, P. E. 1987: Analysis of factors associated with indoor residential nitrogen dioxide: Multivariate regression results. In: *Indoor Air '87; Proceedings of the Fourth International Conference on Indoor Air Quality and Climate*, B. Seifert, H. Esdorn, M. Fischer, H. Ruden, J. Wegner, eds. Institute for Water, Soil and Air Hygiene, Berlin, FRG. 1:405-409.

Colome, S. D., Wilson, A. L., Becker, E. W., Cunningham, S. J., and Baker, P. E. 1987: Temporal Evaluation of nitrogen dioxide in thirty seven residences. In: *Indoor Air '87; Proceedings of the Fourth International Conference on Indoor Air Quality and Climate*, B. Seifert, H. Esdorn, M. Fischer, H. Ruden, J. Wegner, eds. Institute for Water, Soil and Air Hygiene, Berlin, FRG. 1:410-414.

Wilson, A. L., Colome, S. D., Baker, P. E., Cunningham, S. J., Baker, E. W., and Bope, W.G. 1987: Comparison of passive and chemiluminescence monitors for determining one-week average nitrogen dioxide concentrations. In: *Indoor Air '87; Proceedings of the Fourth International Conference on Indoor Air Quality and Climate*, B. Seifert, H. Esdorn, M. Fischer, H. Ruden, J. Wegner, eds. Institute for Water, Soil and Air Hygiene, Berlin, FRG. 1:456-460.

Colome, S. D., Lambert, W. E., and Castaneda, N. 1987: Determinants of carbon monoxide exposure in residences of ischemic heart disease patients. In: *Indoor Air '87; Proceedings of the Fourth International Conference on Indoor Air Quality and Climate*, B. Seifert, H. Esdorn, M. Fischer, H. Ruden, J. Wegner, eds. Institute for Water, Soil and Air Hygiene, Berlin, FRG. 1:283-287.

Baker, P. E., Cunningham, S. J., Becker, E. W., Colome, S. D., and Wilson, A. L. 1987: Evaluation of housing and appliance characteristics associated with elevated indoor levels of nitrogen dioxide. In: *Indoor Air '87; Proceedings of the Fourth International Conference on Indoor Air Quality and Climate*, B. Seifert, H. Esdorn, M. Fischer, H. Ruden, J. Wegner, eds. Institute for Water, Soil and Air Hygiene, Berlin, FRG. 1:390-394.

Baker, P. E., Cunningham, S. J., Becker, E. W., Colome, S. D., and Wilson, A. L. 1987: An overview of the residential indoor air quality characterization study of nitrogen dioxide. In: *Indoor Air '87; Proceedings of the Fourth International*

Conference on Indoor Air Quality and Climate, B. Seifert, H. Esdorn, M. Fischer, H. Ruden, J. Wegner, eds. Institute for Water, Soil and Air Hygiene, Berlin, FRG. 1:395-399.

Colome, S. D., Lambert, W. E., and Castaneda, N. 1987: Performance characteristics of Palmes diffusion tubes used for measurement of nitrogen dioxide outside residential sites. In: *Indoor Air '87; Proceedings of the Fourth International Conference on Indoor Air Quality and Climate*, B. Seifert, H. Esdorn, M. Fischer, H. Ruden, J. Wegner, eds. Institute for Water, Soil and Air Hygiene, Berlin, FRG. 1:400-404.

Lambert, W. E., and Colome, S. D. 1984: Effect of reduced building ventilation rates on occupant exposure and response to carbon monoxide, *Indoor Air*, 5:277-285. Swedish Council for Building Research, Stockholm, Sweden.

Lambert, W. E., Colome, S. D. and Davidson, D.M. 1984: Cardiac response to carbon monoxide in the natural environment, *Indoor Air*, 5:287-292. Swedish Council for Building Research, Stockholm, Sweden.

McCarthy, S. M., Colome, S. D., and Spengler, J. D. 1984: Indoor and outdoor aerosols: A multivariate approach to source identification, *Indoor Air*, 2:195-200. Swedish Council for Building Research, Stockholm, Sweden.

Colome, S. D., Spengler, J. D., and McCarthy, S. 1982: Comparison of elements and inorganic gases inside and outside of residences, *Environment International*, 8:197-212.

Spengler, J. D., and Colome, S. D. 1982: In's and outs of air pollution *Technology Review*, 85(6):33-44.

Ware, J. H., Thibodeau, L. A., Speizer, F. E., Colome, S., and Ferris, B. G., Jr. 1981: Assessment of the health effects of atmospheric sulfur oxides and particulate matter: Evidence from observational studies. *Environmental Health Perspectives*, 41, October.

Colome, S. D., and Spengler, J. D. 1982: Residential indoor and matched outdoor pollutant measurements with special consideration of wood-burning homes. In *Residential Solid Fuels: Environmental Impacts and Solutions*, J. A. Cooper and D. Malek, Eds., Oregon Graduate Center, Oregon; pp. 435-455.

Spengler, J. D., Colome, S. D., Dawson, S. V., Evans, J. S., Dockery, D. W., and Thibodeau, L.A. 1979: Prediction and review of health effects of direct coal combustion. In: *The Direct Use of Coal: Prospects and Problems of Production and Combustion*, Office of Technology Assessment, Washington; pp. 202-220.

Turner, W. A., Spengler, J. D., Dockery, D. W., and Colome, S. D. 1979: Design and performance of a reliable personal monitoring system for respirable particulates, *J. Air Poll. Control Assoc.*, 29(7):747-748.

Ferris, B. G., Jr., Speizer, F. E., Spengler, J. D., Dockery, D. W., Bishop, Y. M. M., Wolfson, J.M., and Colome, S. D. 1979: Relationship between outdoor and indoor air pollution and the implications on health. In: *Proceedings, First International Indoor Climate Symposium, Copenhagen, Aug. 30-Sept. 1, 1978*. Sponsored by WHO, published by the Danish Building Research Institute, SBI, Postbox 119, DK-2970 HORSBOLM, Copenhagen, Denmark.