

State of California

AIR RESOURCES BOARD

Resolution 90-13  
April 13, 1990

WHEREAS, the Air Resources Board has been directed to carry out an effective research program in conjunction with its efforts to combat air pollution, pursuant to Health and Safety Code Sections 39700 through 39705; and

WHEREAS, a solicited research proposal, Number 1773-156 entitled "Characterization of Driving Patterns and Emissions from Light-Duty Vehicles in California," has been submitted by Sierra Research, Inc.; and

WHEREAS, the Research Division staff has reviewed and recommended this proposal for approval; and

WHEREAS, the Research Screening Committee has reviewed and recommends for funding:

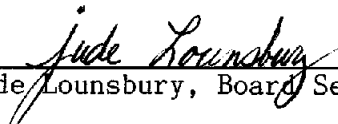
Proposal Number 1773-156 entitled "Characterization of Driving Patterns and Emissions from Light-Duty Vehicles in California," submitted by Sierra Research, Inc., for a total amount not to exceed \$249,923.

NOW, THEREFORE, BE IT RESOLVED, that the Air Resources Board, pursuant to the authority granted by Health and Safety Code Section 39703, hereby accepts the recommendation of the Research Screening Committee and approves the following:

Proposal Number 1773-156, entitled "Characterization of Driving Patterns and Emissions from Light-Duty Vehicles in California," submitted by Sierra Research, Inc., for a total amount not to exceed \$249,923.

BE IT FURTHER RESOLVED, that the Executive Officer is hereby authorized to initiate administrative procedures and execute all necessary documents and contracts for the research effort proposed herein in an amount not to exceed \$249,923.

I hereby certify that the above is a true and correct copy of Resolution #90-13, as adopted by the Air Resources Board.

  
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Jude Lounsbury, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 90-14  
April 13, 1990

WHEREAS, the Air Resources Board has been directed to carry out an effective research program in conjunction with its efforts to combat air pollution, pursuant to Health and Safety Code Sections 39700 through 39705; and

WHEREAS, a solicited research proposal, Number 1765-155 entitled "Effects of Use of Low-Oxygenate Gasoline Blends Upon Emissions from California Vehicles," has been submitted by Automotive Testing Laboratories, Inc.; and

WHEREAS, the Research Division staff has reviewed and recommended this proposal for approval; and

WHEREAS, the Research Screening Committee has reviewed and recommends for funding:

Proposal Number 1765-155, entitled "Effects of Use of Low-Oxygenate Gasoline Blends Upon Emissions from California Vehicles," submitted by Automotive Testing Laboratories, Inc., for a total amount not to exceed \$740,000.

NOW, THEREFORE, BE IT RESOLVED, that the Air Resources Board, pursuant to the authority granted by Health and Safety Code Section 39703, hereby accepts the recommendation of the Research Screening Committee and approves the following:

Proposal Number 1765-155, entitled "Effects of Use of Low-Oxygenate Gasoline Blends Upon Emissions from California Vehicles," submitted by Automotive Testing Laboratories, Inc., for a total amount not to exceed \$740,000.

BE IT FURTHER RESOLVED, that the Executive Officer is hereby authorized to initiate administrative procedures and execute all necessary documents and contracts for the research effort proposed herein in an amount not to exceed \$740,000.

I hereby certify that the above is a true and correct copy of Resolution #90-14, as adopted by the Air Resources Board.

  
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Jude Lounsbury, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 90-15  
April 13, 1990

WHEREAS, the Air Resources Board has been directed to carry out an effective research program in conjunction with its efforts to combat air pollution, pursuant to Health and Safety Code Sections 39700 through 39705; and

WHEREAS, a solicited research proposal, Number 1781-156 entitled "A Survey and Analysis of Employee Responses to Employer-Sponsored Trip Reduction Incentive Programs", has been submitted by COMSIS Corporation; and

WHEREAS, the Research Division staff has reviewed and recommended this proposal for approval; and

WHEREAS, the Research Screening Committee has reviewed and recommends for funding:

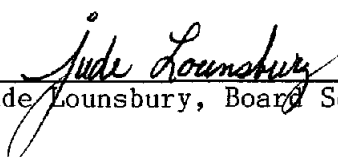
Proposal Number 1781-156, entitled "A Survey and Analysis of Employee Responses to Employer-Sponsored Trip Reduction Incentive Programs," submitted by COMSIS Corporation, for a total amount not to exceed \$195,417.

NOW, THEREFORE, BE IT RESOLVED, that the Air Resources Board, pursuant to the authority granted by Health and Safety Code Section 39703, hereby accepts the recommendation of the Research Screening Committee and approves the following:

Proposal Number 1781-156, entitled "A Survey and Analysis of Employee Responses to Employer-Sponsored Trip Reduction Incentive Programs," submitted by COMSIS Corporation, for a total amount not to exceed \$195,417.

BE IT FURTHER RESOLVED, that the Executive Officer is hereby authorized to initiate administrative procedures and execute all necessary documents and contracts for the research effort proposed herein in an amount not to exceed \$195,417.

I hereby certify that the above is a true and correct copy of Resolution #90-15, as adopted by the Air Resources Board.

  
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Jude Lounsbury, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 90-16  
April 13, 1990

WHEREAS, the Air Resources Board has been directed to carry out an effective research program in conjunction with its efforts to combat air pollution, pursuant to Health and Safety Code Sections 39700 through 39705; and

WHEREAS, an unsolicited research proposal, Number 1761-155 entitled "Determination of Emissions from Open Burning of Agricultural and Forestry Wastes-Phase II: Flame Characterization," has been submitted by the University of California, Davis; and

WHEREAS, the Research Division staff has reviewed and recommended this proposal for approval; and

WHEREAS, the Research Screening Committee has reviewed and recommends for funding:

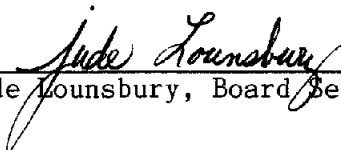
Proposal Number 1761-155, entitled "Determination of Emissions from Open Burning of Agricultural and Forestry Wastes-Phase II: Flame Characterization," submitted by the University of California, Davis, for a total amount not to exceed \$54,044.

NOW, THEREFORE, BE IT RESOLVED, that the Air Resources Board, pursuant to the authority granted by Health and Safety Code Section 39703, hereby accepts the recommendation of the Research Screening Committee and approves the following:

Proposal Number 1761-155, entitled "Determination of Emissions from Open Burning of Agricultural and Forestry Wastes-Phase II: Flame Characterization," submitted by the University of California, Davis, for a total amount not to exceed \$54,044.

BE IT FURTHER RESOLVED, that the Executive Officer is hereby authorized to initiate administrative procedures and execute all necessary documents and contracts for the research effort proposed herein in an amount not to exceed \$54,044.

I hereby certify that the above is a true and correct copy of Resolution #90-16, as adopted by the Air Resources Board.

  
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Jude Lounsbury, Board Secretary

**State of California**

**AIR RESOURCES BOARD**

Resolution 90-17  
April 13, 1990

**WHEREAS**, the Air Resources Board has been directed to carry out an effective research program in conjunction with its efforts to combat air pollution, pursuant to Health and Safety Code Sections 39700 through 39705; and

**WHEREAS**, an unsolicited research proposal, Number 1790-156 entitled "Analysis of On-Road CO Emissions," has been submitted by the University of Denver; and

**WHEREAS**, the Research Division staff has reviewed and recommended this proposal for approval; and

**WHEREAS**, the Research Screening Committee has reviewed and recommends for funding:

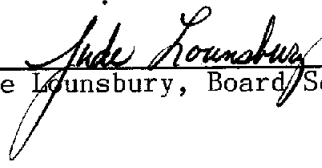
Proposal Number 1790-156, entitled "Analysis of On-Road CO Emissions," submitted by the University of Denver, for a total amount not to exceed \$24,990.

**NOW, THEREFORE, BE IT RESOLVED**, that the Air Resources Board, pursuant to the authority granted by Health and Safety Code Section 39703, hereby accepts the recommendation of the Research Screening Committee and approves the following:

Proposal Number 1790-156, entitled "Analysis of On-Road CO Emissions," submitted by the University of Denver, for a total amount not to exceed \$24,990.

**BE IT FURTHER RESOLVED**, that the Executive Officer is hereby authorized to initiate administrative procedures and execute all necessary documents and contracts for the research effort proposed herein in an amount not to exceed \$24,990.

I hereby certify that that above is a true and correct copy of Resolution #90-17, as adopted by the Air Resources Board.

  
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Jude Lounsbury, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 90-18  
April 13, 1990

WHEREAS, the Air Resources Board has been directed to carry out an effective research program in conjunction with its efforts to combat air pollution, pursuant to Health and Safety Code Sections 39700 through 39705; and

WHEREAS, a solicited research proposal, Number 1779-156 entitled "Methods Development for Quantification of Ozone Transport for California," has been submitted by Sonoma Technology, Inc.; and

WHEREAS, the Research Division staff has reviewed and recommended this proposal for approval; and

WHEREAS, the Research Screening Committee has reviewed and recommends for funding:

Proposal Number 1779-156 entitled "Methods Development for Quantification of Ozone Transport for California," submitted by Sonoma Technology, Inc., for a total amount not to exceed \$423,430.

NOW, THEREFORE, BE IT RESOLVED, that the Air Resources Board, pursuant to the authority granted by Health and Safety Code Section 39703, hereby accepts the recommendation of the Research Screening Committee and approves the following:

Proposal Number 1779-156, entitled "Methods Development for Quantification of Ozone Transport for California," submitted by Sonoma Technology, Inc., for a total amount not to exceed \$423,430.

BE IT FURTHER RESOLVED, that the Executive Officer is hereby authorized to initiate administrative procedures and execute all necessary documents and contracts for the research effort proposed herein in an amount not to exceed \$423,430.

I hereby certify that the above is a true and correct copy of Resolution #90-18, as adopted by the Air Resources Board.

  
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Jude Lounsbury, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 90-19  
April 13, 1990

WHEREAS, the Air Resources Board has been directed to carry out an effective research program in conjunction with its efforts to combat air pollution, pursuant to Health and Safety Code Sections 39700 through 39705; and

WHEREAS, an unsolicited research proposal, Number 1769-156, entitled "Dermal Absorption of Methanol and Gasoline/Methanol Mixtures," has been submitted by the University of California, Davis; and

WHEREAS, the Research Division staff has reviewed and recommended this proposal for approval; and

WHEREAS, the Research Screening Committee has reviewed and recommends for funding:

Proposal Number 1769-156, entitled "Dermal Absorption of Methanol and Gasoline/Methanol Mixtures," submitted by the University of California, Davis, for a total amount not to exceed \$84,373.

NOW, THEREFORE, BE IT RESOLVED, that the Air Resources Board, pursuant to the authority granted by Health and Safety Code Section 39703, hereby accepts the recommendation of the Research Screening Committee and approves the following:

Proposal Number 1769-156, entitled "Dermal Absorption of Methanol and Gasoline/Methanol Mixtures," submitted by the University of California, Davis, for a total amount not to exceed \$84,373.

BE IT FURTHER RESOLVED, that the Executive Officer is hereby authorized to initiate administrative procedures and execute all necessary documents and contracts for the research effort proposed herein in an amount not to exceed \$84,373.

I hereby certify that the above is a true and correct copy of Resolution #90-19, as adopted by the Air Resources Board.

  
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Jude Lounsbury, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 90-20  
April 13, 1990

WHEREAS, the Air Resources Board has been directed to carry out an effective research program in conjunction with its efforts to combat air pollution, pursuant to Health and Safety Code Sections 39700 through 39705; and

WHEREAS, a solicited research proposal, Number 1759-155 entitled "The Toxicities of Chemical Constituents of PM<sub>10</sub> in the South Coast Air Basin of California," has been submitted by the University of California, Irvine; and

WHEREAS, the Research Division staff has reviewed and recommended this proposal for approval; and

WHEREAS, the Research Screening Committee has reviewed and recommends for funding:

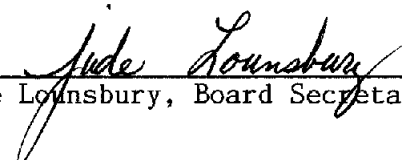
Proposal Number 1759-155, entitled "The Toxicities of Chemical Constituents of PM<sub>10</sub> in the South Coast Air Basin of California," submitted by the University of California, Irvine, for a total amount not to exceed \$449,261.

NOW, THEREFORE, BE IT RESOLVED, that the Air Resources Board, pursuant to the authority granted by Health and Safety Code Section 39703, hereby accepts the recommendation of the Research Screening Committee and approves the following:

Proposal Number 1759-155, entitled "The Toxicities of Chemical Constituents of PM<sub>10</sub> in the South Coast Air Basin of California," submitted by the University of California, Irvine, for a total amount not to exceed \$449,261.

BE IT FURTHER RESOLVED, that the Executive Officer is hereby authorized to initiate administrative procedures and execute all necessary documents and contracts for the research effort proposed herein in an amount not to exceed \$449,261.

I hereby certify that the above is a true and correct copy of Resolution #90-20, as adopted by the Air Resources Board.

  
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Jude Lounsbury, Board Secretary



State of California

AIR RESOURCES BOARD

Resolution 90-21

April 13, 1990

WHEREAS, the Air Resources Board has been directed to carry out an effective research program in conjunction with its efforts to combat air pollution, pursuant to Health and Safety Code Sections 39700 through 39705; and

WHEREAS, an unsolicited research proposal, Number 1768-155, entitled "Incidence of Respiratory Symptoms and Chronic Diseases in a Non-Smoking Population as a Function of Long-Term Cumulative Exposure to NO<sub>2</sub>, PM<sub>2.5</sub>, and PM<sub>10</sub>," has been submitted by the Loma Linda University Preventive Medicine Medical Group, Inc.; and

WHEREAS, the Research Division staff has reviewed and recommended this proposal for approval; and

WHEREAS, the Research Screening Committee has reviewed and recommends for funding:

Proposal Number 1768-155, entitled "Incidence of Respiratory Symptoms and Chronic Diseases in a Non-Smoking Population as a Function of Long-Term Cumulative Exposure to NO<sub>2</sub>, PM<sub>2.5</sub>, and PM<sub>10</sub>," submitted by the Loma Linda University Preventive Medicine Medical Group, Inc., for a total amount not to exceed \$218,335.

NOW, THEREFORE, BE IT RESOLVED, that the Air Resources Board, pursuant to the authority granted by Health and Safety Code Section 39703, hereby accepts the recommendation of the Research Screening Committee and approves the following:

Proposal Number 1768-155, entitled "Incidence of Respiratory Symptoms and Chronic Diseases in a Non-Smoking Population as a Function of Long-Term Cumulative Exposure to NO<sub>2</sub>, PM<sub>2.5</sub>, and PM<sub>10</sub>," submitted by the Loma Linda University Preventive Medicine Medical Group, Inc., for a total amount not to exceed \$218,335.

BE IT FURTHER RESOLVED, that the Executive Officer is hereby authorized to initiate administrative procedures and execute all necessary documents and contracts for the research effort proposed herein in an amount not to exceed \$218,335.

I hereby certify that the above is a true and correct copy of Resolution #90-21, as adopted by the Air Resources Board.

  
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Jude Lounsbury, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 90-22  
April 13, 1990

WHEREAS, the Air Resources Board has been directed to carry out an effective research program in conjunction with its efforts to combat air pollution, pursuant to Health and Safety Code Sections 39700 through 39705; and

WHEREAS, a solicited research proposal, Number 1752-155, entitled "Development of a Model for Assessing Indoor Exposure to Air Pollutants", has been submitted by GEOMET Technologies, Inc.; and

WHEREAS, the Research Division staff has reviewed and recommended this proposal for approval; and

WHEREAS, the Research Screening Committee has reviewed and recommends for funding:

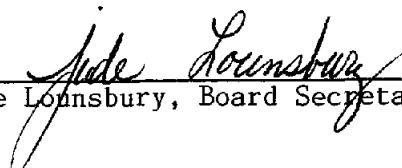
Proposal Number 1752-155, entitled "Development of a Model for Assessing Indoor Exposure to Air Pollutants", submitted by GEOMET Technologies, Inc., for a total amount not to exceed \$223,200.

NOW, THEREFORE, BE IT RESOLVED, that the Air Resources Board, pursuant to the authority granted by Health and Safety Code Section 39703, hereby accepts the recommendation of the Research Screening Committee and approves the following:

Proposal Number 1752-155, entitled "Development of a Model for Assessing Indoor Exposure to Air Pollutants", submitted by GEOMET Technologies, Inc., for a total amount not to exceed \$223,200.

BE IT FURTHER RESOLVED, that the Executive Officer is hereby authorized to initiate administrative procedures and execute all necessary documents and contracts for the research effort proposed herein in an amount not to exceed \$223,200.

I hereby certify that the above is a true and correct copy of Resolution #90-22, as adopted by the Air Resources Board.

  
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Jude Lounsbury, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 90-23  
April 13, 1990

WHEREAS, the Air Resources Board has been directed to carry out an effective research program in conjunction with its efforts to combat air pollution, pursuant to Health and Safety Code Sections 39700 through 39705; and

WHEREAS, an unsolicited research proposal, Number 1789-156 entitled "A Demonstration of the Effects of Smog on Ornamental and Home Garden Plants", has been submitted by the California Arboretum Foundation, Inc., Department of Arboreta and Botanic Gardens; and

WHEREAS, the Research Division staff has reviewed and recommended this proposal for approval; and

WHEREAS, the Research Screening Committee has reviewed and recommends for funding:

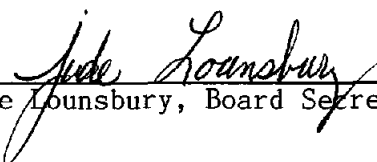
Proposal Number 1789-156, entitled "A Demonstration of the Effects of Smog on Ornamental and Home Garden Plants," submitted by the California Arboretum Foundation, Inc., Department of Arboreta and Botanic Gardens, for a total amount not to exceed \$65,727.

NOW, THEREFORE, BE IT RESOLVED, that the Air Resources Board, pursuant to the authority granted by Health and Safety Code Section 39703, hereby accepts the recommendation of the Research Screening Committee and approves the following:

Proposal Number 1789-156, entitled "A Demonstration of the Effects of Smog on Ornamental and Home Garden Plants," submitted by the California Arboretum Foundation, Inc., Department of Arboreta and Botanic Gardens, for a total amount not to exceed \$65,727.

BE IT FURTHER RESOLVED, that the Executive Officer is hereby authorized to initiate administrative procedures and execute all necessary documents and contracts for the research effort proposed herein in an amount not to exceed \$65,727.

I hereby certify that the above is a true and correct copy of Resolution #90-23, as adopted by the Air Resources Board.

  
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Jude Lounsbury, Board Secretary

State of California

AIR RESOURCES BOARD

Resolution 90-24  
April 13, 1990

WHEREAS, the Air Resources Board has been directed to carry out an effective research program in conjunction with its efforts to combat air pollution, pursuant to Health and Safety Code Sections 39700 through 39705; and

WHEREAS, an unsolicited research proposal, Number 1788-156 entitled "Crop and Forest Losses From Air Pollutants - An Assessment Program", has been submitted by the University of California, Riverside; and

WHEREAS, the Research Division staff has reviewed and recommended this proposal for approval; and

WHEREAS, the Research Screening Committee has reviewed and recommends for funding:

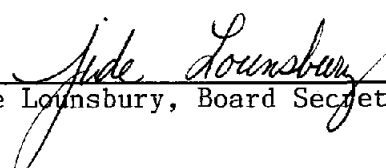
Proposal Number 1788-156, entitled "Crop and Forest Losses From Air Pollutants - An Assessment Program," submitted by the University of California, Riverside, for a total amount not to exceed \$97,519.

NOW, THEREFORE, BE IT RESOLVED, that the Air Resources Board, pursuant to the authority granted by Health and Safety Code Section 39703, hereby accepts the recommendation of the Research Screening Committee and approves the following:

Proposal Number 1788-156, entitled "Crop and Forest Losses From Air Pollutants - An Assessment Program," submitted by the University of California, Riverside, for a total amount not to exceed \$97,519.

BE IT FURTHER RESOLVED, that the Executive Officer is hereby authorized to initiate administrative procedures and execute all necessary documents and contracts for the research effort proposed herein in an amount not to exceed \$97,519.

I hereby certify that the above is a true and correct copy of Resolution #90-24, as adopted by the Air Resources Board.

  
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Jude Lounsbury, Board Secretary