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Index to FAA Office of Aviation Medicine Reports: 1961 Through 1999

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16. Abstract An index to Federal Aviation Administration Office of Aviation Medicine Reports (1964-1999) and Civil Aeromedical Institute Reports (1961-1963) is presented for those engaged in aviation medicine and related activities. The index lists all FAA aviation medicine reports published from 1961 through 1999: chronologically, alphabetically by author, and alphabetically by subject. A foreword describes aspects of the Civil Aeromedical Institute's 38 years of service, describes the index's sections, and explains how to obtain copies of published Office of Aviation Medicine technical reports.			
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Foreword

INDEX TO FAA OFFICE OF AVIATION MEDICINE REPORTS: 1961 THROUGH 1999

The Civil Aeromedical Institute in Oklahoma City is engaged in a variety of research activities. These scenes represent some of the research projects conducted by the Institute.



Evacuation Research Simulator. This retired Boeing 747 is now used for wide-body emergency evacuation studies.

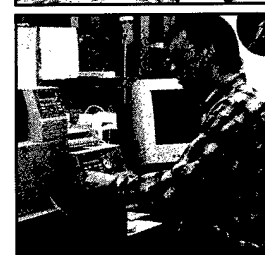
Testing head-mounted display in advanced general aviation research simulator.



Preparing an anthropomorphic dummy for an impact study.



Researchers attaching EEG electrodes to a performance and sleep-loss study participant.



Scientist analyzing fatal aircraft accident specimen using high-performance liquid chromatograph.

The FAA Office of Aviation Medicine's research program addresses operational aviation medicine and human performance issues within the national aerospace system. Our mission and purpose have remained the same over the years: to further aviation safety.

Most of our research activities are conducted at the Civil Aeromedical Institute (CAMI) in Oklahoma City, Oklahoma, with the majority (84%) of the work done by CAMI employees. The remainder is contracted to institutional entities such as colleges and universities.

CAMI is the medical certification, research, education, and occupational health wing of the Office of Aviation Medicine. We study the factors that influence human performance in the aviation environment, find ways to understand them, and communicate that understanding to the aviation community. The technical reports are the distillation of FAA aeromedical research efforts in aviation safety.

In most instances, research findings shown in this document have been reported at national and international scientific and professional meetings. The Office of Aviation Medicine technical reports are frequently published in newsletters, proceedings reports, and refereed journals of national and world-wide reputation.

The Office of Aviation Medicine has published technical reports since 1961. The number of these reports now total 869 and cover a wide range of subjects, from *Angular Acceleration* to *Workload Effects on Complex Performance*.

We provide this index as a reference for those engaged in aviation medicine and related disciplines. We do so because sharing significant findings contributes to the body of aeromedical knowledge leading, through the synergistic effects of others, to improved understanding and the application of appropriate solutions to aviation safety problems.

HOW TO USE THE INDEX

The Index is organized in three sections:

1. **Chronological Index:** A cumulative list of all research reports from 1961 through 1999.
2. **Author Index:** An index of authors, in alphabetical order.
3. **Subject Index:** An index of subjects, listed in alphabetical order.

Some examples are:

99-18 Heil, M.C: An investigation of the relationship between chronological age and indicators of job performance for incumbent Air Traffic Control Specialists. ADA364893

Above: This is an entry from the **Chronological Index** of research reports, shown in cumulative sequence.

Montgomery, R.W. 93-21, 94-15, 95-11, 96-12, 99-6.

Left: This is an entry from the **Author Index**, which lists all of the research reports prepared by an author or co-author.

Toxicology

... carbon monoxide, 89-4, 93-7, 94-7, 94-18, 98-21.
... combustion products of cabin materials, 77-9, 85-5, 86-1,
86-3, 86-5, 89-4, 90-15, 90-16, 91-17, 93-7, 93-8.
... DNA profiling, quality assurance in forensic, 98-18, 99-14.

Left: An example of entries in the **Subject Index**; refers to all reports that pertain to a specific topic.

REPORT NUMBERS

99-8 Milburn, N.J., and Mertens, H.W: Optimizing blink parameters for highlighting an air traffic control situation display. ADA36258

Above: The first numbers (99-8) refer to the year and chronological number of the report. This is an abbreviated portion of the official number given each report and is found in the upper left of the report's cover page. The full report number of "99-8" is DOT/FAA/AM-99/8. The "ADA36258" is the number appended to the report by the National Technical Information Service. Keep the number system in mind when ordering.

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- 73-23 Leeper, R. C., Hasbrook, A. H., and Purswell, J. L: Study of control force limits for female pilots. AD777839
- 1974
- 74-1 Dille, J. R., and Grimm, M. H: Index to FAA Office of Aviation Medicine Reports: 1961 through 1973. AD779553
- 74-2 Mathews, J. J., Collins, W. E., and Cobb, B. B: A sex comparison of reasons for attrition of nonjourneyman FAA air traffic controllers. AD780558
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- 74-8 Cobb, B. B., Jr., and Nelson, P. L: Aircraft-pilot and other pre-employment experience as factors in the selection of air traffic controller trainees. ADA001039
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- 74-10 Chiles, W. D., and West, G: Multiple-task performance as a predictor of the potential of air traffic controller trainees: A followup study. ADA002920
- 74-11 Melton, C. E., Jr., McKenzie, J. M., Saldivar, J. T., and Hoffmann, S. M: Comparison of Opa Locka Tower with other ATC facilities by means of a biochemical stress index. ADA008378
- 74-12 Smith, R. C: A realistic view of the people in air traffic control. ADA006789
- 1975
- 75-1 Jones, K. N., Steen, J. A., and Collins, W. E: Predictive validities of several clinical color vision tests for aviation signal light gun performance. ADA006792
- 75-2 Snow, C. C., Reynolds, H. M., and Allgood, M. A: Anthropometry of airline stewardesses. ADA012965
- 75-3 Mathews, J. J., Cobb, B. B., Jr., and Collins, W. E: Attitudes on en route air traffic control training and work: A comparison of recruits initially trained at the FAA Academy and recruits initially trained at assigned centers. ADA013343

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- 75-6 Lewis, M. F., Ferraro, D. P., Mertens, H. W., and Steen, J. A: Interaction between marihuana and altitude on a complex behavioral task in baboons. ADA020680/5GI
- 75-7 Melton, C. E., Jr., Smith, R. C., McKenzie, J. M., Saldivar, J. T., Hoffmann, S. M., and Fowler, P. R: Stress in air traffic controllers: Comparison of two air route traffic control centers on different shift rotation patterns. ADA020679/7GI
- 75-8 Thackray, R. I., Bailey, J. P., and Touchstone, R. M: Physiological, subjective, and performance correlates of reported boredom and monotony while performing a simulated radar control task. ADA025426/8GI
- 75-9 Smith, R. C., Rana, B., and Taylor, D. K: An evaluation of the effectiveness of the FAA Management Training School. ADA025254/4GI
- 75-10 Higgins, E. A., Chiles, W. D., McKenzie, J. M., Iampietro, P. F., Winget, C. M., Funkhouser, G. E., Burr, M. J., Vaughan, J. A., and Jennings, A. E: The effects of a 12-hour shift in the wake-sleep cycle on the physiological and biochemical responses and on multiple-task performance. ADA021518/GGI
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- 75-14 Higgins, E. A., Chiles, W. D., McKenzie, J. M., Iampietro, P. F., Vaughan, J. A., Funkhouser, G. E., Burr, M. J., Jennings, A. E., and West, G: The effects of dextroamphetamine on physiological responses and complex performance during sleep loss. ADA021520/2GI
- 1976
- 76-1 Jennings, A. E., and Chiles, W. D: An investigation of time-sharing ability as a factor in complex performance. ADA031881/GGA
- 76-2 Smith, R. C., and Melton, C. E: Effects of ground trainer use on the psychological and physiological states of students in private pilot training. ADA024704/9GI
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- 77-2 Welsh, K. W., Vaughan, J. A., and Rasmussen, P. G: Survey of cockpit visual problems of senior pilots. ADA037587/3GI
- 77-3 Lategola, M. T., Flux, M., and Lyne, P. J: Spirometric assessment of potential respiratory impairment in general aviation airmen. ADA038296/0
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- 77-9 Crane, C. R., Sanders, D. C., Endecott, B. R., Abbott, J. K., and Smith, P. W: Inhalation toxicology: I. Design of a small-animal test system. II. Determination of the relative toxic hazards of 75 aircraft cabin materials. ADA043646/9GI
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- 78-20 Lategola, M. T., Davis, A. W., Jr., Lyne, P. J., and Burr, M. J: Cardiorespiratory assessment of decongestant-antihistamine effects on altitude, +Gz, and fatigue tolerances. ADA055089/7GI
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- 78-24 Chandler, R. F., and Trout, E. M: Evaluation of seating and restraint systems and anthropomorphic dummies conducted during fiscal year 1977. ADA056905/3GI
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- 78-38 Eighth Bethesda Conference of the American College of Cardiology, Washington, D.C., April 25-26, 1975: Cardiovascular problems associated with aviation safety. ADA066184/3GA
- 78-39 Rose, R. M., Jenkins, C. D., and Hurst, M. W: Air traffic controller health change study. Boston University School of Medicine. ADA063709/0GA
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- 78-41 Vaughan, J. A., Welsh, K. W., and Rasmussen, P. G: The optical properties of smoke-protective devices. ADA064678/6GA

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- 79-19 Dille, J. R., and Booze, C. F: The 1976 accident experience of civilian pilots with static physical defects. ADA07718919

- 79-20 Higgins, E. A., Lategola, M. T., McKenzie, J. M., Melton, C. E., and Vaughan, J. A: Effects of ozone on exercising and sedentary adult men and women representative of the flight attendant population. ADA080045/8
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- 80-7 Collins, W. E., Boone, J. O., and VanDeventer, A. D. (Eds.): The selection of air traffic control specialists: I. History and review of contributions by the Civil Aeromedical Institute. ADA087655/7
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- 81-9 Booze, C. F., Jr: Prevalence of selected pathology among currently certified active airman. ADA103397/6
- 81-10 Kirkham, W. R: Improving the crashworthiness of general aviation aircraft by crash injury investigations. ADA103316/6
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- 81-12 Thackray, R. I., and Touchstone, R. M: Age-related differences in complex monitoring performance. ADA106225/6
- 81-13 Melton, C. E., McKenzie, J. M., Wicks, S. M., and Saldivar, J. T: Fatigue in flight inspection field office (FIFO) flight crews. ADA106791/7
- 81-14 Dille, J. R., and Booze, C. F., Jr: The prevalence of visual deficiencies among 1979 general aviation accident airmen. ADA106489/8
- 81-15 Collins, W. E., Mastrullo, A. R., Kirkham, W. R., Taylor, D. K., and Grape, P. M: An analysis of civil aviation propeller-to-person accidents: 1965-1979. ADA105365/1
- 81-16 Collins, W. E., Schroeder, D. J., and Elam, G. W: A comparison of some effects of three antinotion sickness drugs on nystagmic responses to angular accelerations and to optokinetic stimuli. ADA107947/4
- 1982
- 82-1 Thackray, R. I., and Touchstone, R. M: Performance of air traffic control specialists (ATCS's) on a laboratory radar monitoring task: An exploratory study of complacency and a comparison of ATCS and non-ATCS performance. ADA118239/3
- 82-2 Boone, J. O: A generic model for evaluation of the Federal Aviation Administration air traffic control specialist training programs. ADA106379/1
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- 83-1 Dille, J. R., and Haraway, A: Index to FAA Office of Aviation Medicine Reports: 1961 through 1982. ADA127463/8
- 83-2 McKenzie, J. M., Higgins, E. A., Fowler, P. R., Funkhouser, G. E., White, M. A., and Moser, E: Sensitivity of some tests for alcohol abuse: Findings in nonalcoholics recovering from intoxication. ADA126138/7
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- 83-13 Thackray, R. I., and Touchstone, R. M: Rate of initial recovery and subsequent radar monitoring performance following a simulated emergency involving startle. ADA133602/3
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- 83-15 Mertens, H. W., Higgins, E. A., and McKenzie, J. M: Age, altitude, and workload effects on complex performance. ADA133594/2
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- 84-1 Pollard, D. W., Steen, J. A., Biron, W. J., and Cremer, R. L: Cabin safety subject index. ADA140409
- 84-2 Sells, S. B., Dailey, J. T., and Pickrel, E. W: Selection of air traffic controllers. ADA147765
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- 84-7 Dille, J. R., and Harris, H. L: Efforts to improve aviation medical examiner performance through continuing medical education and annual performance reports. ADA148078
- 84-8 Booze, C. F., Jr: Health examination findings among active civil airmen. ADA148325
- 84-9 Dark, S. J: Medically disqualified airline pilots. ADA149454

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- 85-1 Pollard, D. W., Steen, J. A., and Penland, T: Federal Aviation Regulations Part 135 cabin safety subject index. ADA156946
- 85-2 Melton, C. E: Physiological responses to unvarying (steady) and 2-2-1 shifts: Miami International Flight Service Station. ADA155751
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- 1986
- 86-1 Sanders, D.C., Crane, C.R., and Endecott, B.R: Inhalation toxicology: V. Evaluation of relative toxicity to rats of thermal decomposition products from two aircraft seat fire-blocking materials. ADA165034
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- 86-6 Convey, J.J: The Flight Service Station Training Program: 1981-1985. ADA171485
- 86-7 Dark, S.J: Medically disqualified airline pilots. ADA173244
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- 87-1 Dille, J.R., and Grimm, M.H: Index to FAA Office of Aviation Medicine Reports: 1961 through 1986. ADA180281
- 87-2 Higgins, E.A., Saldivar, J.T., Lyne, P.J., and Funkhouser, G.E: A study of passenger workload as related to protective breathing requirements. ADA181089

- 87-3 Hanneman, G.D., and Sershon, J.L: Tolerance by unacclimated Beagle dogs to freezing and subfreezing temperatures. ADA181304
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- 87-8 Hanneman, G.D., and Sershon, J.L: A temperature/humidity tolerance index for transporting Beagle dogs in hot weather. ADA190948
- 1988**
- 88-1 Thackray, R. I. , and Touchstone, R. M: An evaluation of the effects of high visual taskload on the separate behaviors involved in complex monitoring performance. ADA190641
- 88-2 Collins, W. E., and Mertens, H. W: Age, alcohol, and simulated altitude: Effects on performance and breathalyzer scores. ADA190642
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- 1989**
- 89-1 Thackray, R. I., and Touchstone, R. M: A comparison of detection efficiency on an air traffic control monitoring task with and without computer aiding. ADA206422
- 89-2 Booze, C. F., Jr: Prevalence of disease among active civil airmen. ADA206050
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- 89-4 Crane, C. R., Sanders, D. C., and Endecott, B. R: Inhalation toxicology: IX. Times-to-incapacitation for rats exposed to carbon monoxide alone, to hydrogen cyanide alone, and to mixtures of carbon monoxide and hydrogen cyanide. ADA208195
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- 89-10 Schlegel, T. T., Higgins, E. A., McLean, G. A., Lyne, P. J., England, H. M., and Atocknie, P. A: Comparison of protective breathing equipment performance at ground level and 8,000 feet altitude using parameters prescribed by portions of FAA Action Notice A-8150.2. ADA212852
- 89-11 Higgins, E. A., McLean, G. A., Lyne, P. J., Funkhouser, G. E., and Young, J. W: Evaluation of the Scott Aviation portable protective breathing device for contaminant leakage as prescribed by FAA Action Notice A-8150.2. ADA216799
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- 1990
- 90-1 Collins, W.E., Wayda, M.E., and Baxter, N.E: Index of FAA Office of Aviation Medicine Reports: 1961 through 1989. AD-221414
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- 90-16 Sanders, D.C., and Endecott, B.R: Inhalation toxicology: XI. The effect of elevated temperature on carbon monoxide toxicity. ADA231185
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- 91-1 Nakagawara, V.B: The effect of simulated altitude on the visual fields of glaucoma patients and the elderly. ADA233167
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- 91-18 Broach, D: Air traffic control specialists in the Airway Science Curriculum Demonstration Project 1984-1990: Third summative evaluation. ADA244128
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- 1993
- 93-1 Rodgers, M.D., and Drechsler, G.K: Conversion of the CTA, Inc., en route operations concepts database into a formal sentence outline job task taxonomy. ADA261921
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- 93-8 Chaturvedi, A.K., Endecott, B.R., Ritter, R.M., and Sanders, D.C: Variations in time-to-incapacitation and blood cyanide values for rats exposed to two hydrogen cyanide gas concentrations. ADA265924
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-
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