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Guide to the Albert R. Behnke, Jr. collection, 1919 - 1990

Physician; captain in the United States Navy; pioneered the development of body composition assessment through the study of elite athletes; member of the Undersea and Hyperbaric Medical Society.

### Descriptive Summary

**Collection Title:** Albert R. Behnke, Jr. collection, 1919 - 1990

**Creator:** Behnke, Albert R.

**Extent:** 44 boxes, 20,000 items, 66 linear feet

**Processed By:**

**Date Completed:**

**Encoded By:**

### Biographical Note

In 1942, Behnke stated the first clear concept of saturation diving with excursions. He wrote and researched extensively on body weight, body mass, muscular strength and their analysis using hyperbaric methods.

### Collection Overview

Organized into the following series: Papers, 1919-1990.

#### Online Catalog Headings

Behnke, Albert R.

Undersea and Hyperbaric Medical Society.

Diving

Diving physiology

Decompression

Body Composition

Container List

**Papers, 1919-1990**

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Box of Lantern Slides, undated  
Skin and SCUBA Diving Fatalities Involving U.S. Citizens, 1970  
Diving Accident Survey, Including 503 Known Fatalities, 1946-1970  
Mortality Rates for Skin and SCUBA Divers, undated  
Non-Fatal, Pressure-Related SCUBA Accidents, undated  
2400 Hours of Saturation Diving, undated  
The Contribution of Animal Experimentation Toward..., undated  
Residual Effects of High Pressure Exposures - Do they Exist, undated  
Procedural Guidelines for Decompression Research and Dev., undated  
Species Differences in Decompression, undated  
Inert Gas Narcosis, undated  
Lecture Notes - Emphasis on Saturation Diving Performance, 1980  
Bradycardia in Human Divers, 1962  
Craig Williams thesis, 1978  
Hyperbaric Oxygenation, 1968  
Psychologic and Psychiatric Reactions in Diving and in Sub..., 1945  
Decompression Sickness Incident to Deep Sea Diving and..., 1945  
Judy Stern, undated  
Underwater Experiments, undated  
Naval Diving Research, undated  
Aeromedical Reviews - Hemostasis and Coagulation, 1966  
Travel Materials, undated  
Effects of Immersion With the Head Above Water on Nitrogen., undated  
Hemodynamic Changes in Man During Immersion With Head, undated  
Regional Lung Function in Man during Immersion With Head..., undated  
Decompression Sickness In Man: the Influence of Denitrogen., undated

Effects of Ambient Temperature and Body Position on Tissue, undated  
Sweden Now, 1975  
The Swedish Warship Wasa, undated  
Publications on Sharks, undated  
Underwater Physiology Symposium, 1970  
Tunnel Operations, undated  
Coronary Thrombus, Intramural Hemorrhage and Conversion, 1966  
Cabin Pressurization Characteristics of USAF and Commercial 1967  
Assessment of Nutritional Status LAIR, 1981  
Study of Physiological and Psychological Aging, undated  
Effects of Pressure On Ventilation and Gas Exchange In Man, 1970  
Glossary of Scientific Terms, undated  
Correspondence, 1973  
The AIBS Shark Research Panel, undated  
The Stingray, undated  
Aendringer i tensionen af blodets luftarter ved dykning og..., 1965  
Bulletin - Medsubhyp, undated  
Acute Alcohol Ataxia in Relation to Vestibular Function, 1966  
An Ataxia Test Battery Not Requiring Rails, 1968  
Residual Effects of Storm Conditions At Sea Upon The Post, 1965  
National Plan for the Safety and Health of Divers in their Quest, undated  
Proceedings of the Third Annual Conf. On Biological Sonar..., 1966  
NMRI - the Role of the Vestibular Apparatus Under Water..., 1973  
Studies on Air-Ion-Enhanced Iron Chlorosis, 1964  
The Biological Mechanism of Air Ion Action, 1963  
Development and Test of Heliox Dives in Excess of 100 m, 1975  
Summary Statistics: U.S. Navy Diving Accidents, 1966  
Constitutional Factors in Decompression Sickness, 1963  
Limitations in the Treatment of Diving and Aviation Bends..., 1968  
A Review of Blood Changes Associated with Compression, 1974

Inert Gas Content Manual, undated  
Correspondence, 1959  
Resistance to Breathing, 1956  
Submarine and Diving Medicine Research Program, 1973  
Other Medical Problems Associated with Exposure to Press., 1964  
Principles of Safe Diving Practice, 1972  
Decompression Studies Using Ultrasonic Imaging of Bubbles, undated  
Statometer Results on U.S. Navy 1600 foot Dive, 1974,  
Effect of Total Immersion at Various Temperatures on Oxygen, 1956  
Patterns of Interaction of the Effects of the Light Metabolically, undated  
Correspondence with Arthur Ullrich, Jr., 1973  
Commercial Operations with Submersibles, 1973  
Theory and Development of Sub-Saturation Decompression Pro, undated  
Hyperbaric Oxygenation: Potentialities and Problems, 1963

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Decompression Cases, 1962-1965  
Professional Correspondence, undated  
Research and Writings, undated  
Fourth Symposium Underwater Physiology, 1968  
Lectures, undated

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Fifth International Hyperbaric Congress, 1973  
Manuscript Reviews, undated  
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Professional Correspondence, undated  
York Equipment Co., undated

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Hyperbaric Procedures, undated  
Project Interspeak, undated  
Piano Music For the One-handed With Remarks on the Role, 1974  
Sportwissenschaft, 1973-1974

Effect of Sports and Athletics on the Cardiovascular System, 1961  
Motor Functions of the Human Brain, 1971  
Sport and Culture, 1964  
The Physical Structure of Mind, 1973  
The Acquisition of Skill, 1968  
Report of the Twelfth Session of the International Olympic Acad., 1972  
Olympic Review, 1973  
Sports Medicine, 1949  
American Ass'n. for the Advancement of Science, 124th Mtg., 1968  
Korperliches Training und Altern, 1972  
Coronary-Prone Individuals (Type 1 Behavior Pattern), 1971  
Sudden Cardiac Death of Pilots in Flight, 1971  
Correspondence, 1973-1975  
Forschungen Und Fortschritte, 1967  
Athletic Injuries, 1973  
Physiology of Fitness and Exercise, 1971  
The American Journal of Cardiology Correspondence, 1972  
Space-Cabin Atmospheres, 1967  
Armed Forces Medical Journal, 1959  
First Aid, 1953  
Calories Don't Count, 1961  
Man's Health and the Environment - Some Research Needs, 1970  
Proceedings of the California Academy of Medicine, 1961-1968  
Biomedical Results of Apollo, 1975  
The Control of Communicable Diseases in Man, 1950  
Proceedings of the Borden Centennial Symposium on Nutrition, 1958  
Space Biology, 1960  
Contributions to Aviation Otolaryngology, 1947  
Respiration, 1966  
International Security - the Military Aspect, 1958

4th Int. Symposium on Bioastronautics and the Exploration of, 1968  
Biomedicine Problems of High Terrestrial Elevations, 1957  
Perspectives in Physiology, 1954  
Case Histories of Diving and Hyperbaric Accidents, 1988  
Standards of Safety for Compressed Air Work and Sub. Diving, undated  
U.S. Armed Forces Medical Journal, 1959  
Mechanisms of Lung Microvascular Injury, 1982

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Annals of the NY Acad. Of Sciences - Evoked Potentials, 1982  
Natural History of Infectious Disease, 1972  
Exercise and Sport Sciences Reviews, Vol. 18, 1990  
Dietary Prevention and Treatment of Heart Disease, 1958  
Annual Review of Medicine, Vol. 2, 1951  
Studies in Human Ecology, Vol. 1, 1973  
Anesthesiology, 1966  
Bioenergetics and Growth, 1945  
Body Water in Man, 1957  
Nutrition, Exercise and Body Composition, 1964  
International Encyclopedia of Unified Science, Vol. 1 Part 2, 1955  
Exercise and Sport Sciences Reviews, Vol. 17, 1989  
Amer. Rocket Soc. Space Flight Report to the Nation, 1962  
International Encyclopedia of Unified Science, Vol. 1 Part 1, 1955  
19th Ann. Report of the Surgeon Gen. Of the USN Medical Sta..., 1954  
Bone Structure and Metabolism, 1956  
Chemical Anthropology - A New Approach to Growth in Children, 1957  
Methods for Evaluation of Nutritional Adequacy and Status, 1954  
Human Aging - A Biological and Behavioral Study, undated

**Box 6**

Prevention of Dysbaric Osteonecrosis in Compressed-Air Work, 1978  
Problems of Recompression therapy, undated  
Medical Aspects of Pressurized Tunnel Operations, undated

Work Under Compressed Air, 1973

Final Report on Training Services Agency Contract, 1978

A Medical Code of Practice for Work in Compressed Air, 1973

Air Force Missile Development Center Technical Report, 1959

Human Factors and the Hyperbaric Chamber, 1975

Weekly Update Hyperbaric and Undersea Medicine, Vol. 1, undated

U.S. Navy Diving Manual, 1975

U.S. Navy Diving Manual, 1973

**Box 7**

Physical Examinations of Men Employed in Compressed Air, undated

Deep Sea Diving School Student Medical Officers Study Mat., 1961

Research Report 4-56 - Calculation of Air Decompression Tabl, 1955

British Med. Soc. - Report of the Working Party on, 1975

Physiological Evaluation of Sealab II: Effects of Two Weeks..., 1966

Decompression Sickness and its Prevention Among Compress, undated

Marching Proposal for Participation in Diving Data System, 1980

Individual Differences in Dual-Task Performance, 1980

Task Dependent Differences and Individual Differences in Dual..., 1980

Stabilization and Task Definition in a Performance Test Battery, 1980

The NOAA Diving Manual - Diving for Science and Technology, 1975

Decompression Schedule Development for Repetitive Saturation..., 1970

Work Capability and Physiological Effects in He-O<sub>2</sub> Excursion, 1978

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Blood and Other Body Fluids, 1961

Calculation of Decompression Tables, 1955

Calculation of Repetitive Diving Decompression Tables, 1956

Experimental Spinal Cord Injury, 1977

Neuropathology of Experimental Decompression Sickness in, 1975

Effects of Hyperbaric Oxygenation and Tissue Oxygen Studies, 1972

Computation Methods for Decompression from Deep Dives, 1966

Navy Experimental Diving Unit - Report Index, undated

Recompression Treatment Tables used Throughout the World, undated  
Heart Rate During Muscular Work in Man Exposed to Prolong., 1958  
Decompression theory, 1978  
Treatment of Serious Decompression Sickness and Arterial Ga, 1979  
Plan for a Series of Manned Undersea Laboratories., 1964  
History of the Research Division, Bureau of Medicine and Surg, undated  
Recent Advances in Aerospace Medicine, 1970  
Decompression Sickness - Caisson Sickness, Divers and Flie, 1951  
The Somatotypes of Athletes - A Review, 1970  
Radio-Activity in Man, 1965  
Swedish Journal of Defense Medicine - Forsvarsmedicin, 1973  
Diving Medicine, 1981  
Documenta Geigy - Scientific Tables, undated  
Underwater Ear and Nose Care, 1981  
Australian Standard - SAA Compressed Air Code, 1970  
U.S. Armed Forces Medical Journal, 1959  
Physiological Reviews, 1966  
Secretion of Gases Against High Pressures in the Swimbladder, 1954  
Military Medicine, 1955

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Physical Working Capacity in Conscripts During Military Service, 1957  
Experimental Studies of Physical Working Capacity in Relat., 1952  
Human Biology - A Record of Research, 1957  
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XV International Congress of Military Medicine and Pharmacy, 1957  
Medical and Clinical Aspects of Aging, 1962

Biological Aspects of Aging, 1962  
5th International Hyperbaric Conference, 1974  
Human Standard and Maximal Metabolic Rate in Relation to, 1956  
Nutrition, Weight Control, and Exercise, 1977  
Human Biology, 1960  
Human Biology, 1963  
Human Biology, 1964  
A thermodynamic and Kinetic Approach to Decompression Sickness, 1966  
Carbon Dioxide and Metabolic Regulations, 1974  
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A Bibliographical Sourcebook of Compressed Air, Diving and S, 1948  
Decompression Sickness, Vol. 1, 1977

**Box 10**

Lantern Slides, undated  
Soviet Space Technology, 1961  
Food and Civilization, 1966  
Pulmonary Reactions to Organic Materials, 1974  
Drug-Protein Binding, 1973  
Environment and Society in Transition, 1970  
Decorations, Medals and Ribbons, 1943  
Diabetes Mellitus and Obesity: Phenformin Hydrochloride as a, 1968  
Patterns of Integration from Biochemical to Behavioral Processes, 1972  
Hyperbaric Oxygenation - the Uncertain Miracle, 1974  
Exercise and Altitude, 1968

**Box 11**

Lantern Slides, undated  
Diving Control Board, Articles, Correspondence, Meetings, 1981  
Correspondence and Article, 1974  
Case History, 1961-1980  
Schaefer Memorial Lecture, 1983  
International Research Monograph Series in PE (Hard Cover), 1974

Physique and Performance, 1974  
Basal Metabolic and Cardiovascular Function of Women ..., 1973  
Relationship of Muscle Protein to Other Components of the ..., 1966  
Effects of High-Altitude Exposure on Rate of Ingestion ..., 1972  
Alterations in Serum and Extracellular Electrolytes During..., 1971  
Alterations in the Serum Electrolyte Levels of Women During, 1970  
High Altitude and Protein Metabolism in the Rat, 1970  
Effects of Diet and Altitude on the Body Composition of Rats, 1970  
Anthropometric Changes Associated with High Altitude Acc, 1969  
Symptomatology, Pathophysiology, and Treatment of Acute..., 1969  
Effects of Acute High-Altitude Exposure on Body Fluids, 1969  
Efficiency of Food Utilization at High Altitude, 1969  
Effects of Altitude Acclimatization on Body Composition in Women, 1969  
Effects of High Altitude on Lipid Components of Human Serum, 1968  
Effects of Altitude Acclimatization on Pulmonary Function in Women, 1968  
Effect of High Altitude (14,000 ft.) on Nitrogenous Components, undated  
Electrocardiographic and Radiographic Heart Changes in Women, 1966  
Acute Altitude Sickness in Females, 1966  
U.S. Navy WWII Photographs, 1942-1945

**Box 12**

Lane Medical Lectures - the Lymphatic System, 1942  
The Harvey Lectures - Series 73, 1977-1978  
The Harvey Lectures - Series 72, 1976-1977  
The Harvey Lectures - Series 71, 1975-1976  
Biological Effects of Carbon Monoxide, 1970  
Drug Metabolism in Man, 1971  
Medicina Dello Sport - What is Sports Medicine?, 1963  
Aviation Medicine, 1942-1943  
Chlorpropamide and Diabetes Mellitus, 1959  
Protein Nutrition, 1958

Recent Advances in the Study of the Structure, Composition,..., 1955  
Basic Odor Research Correlation, 1954  
Thyroid Function as Disclosed by Newer Methods of Study, 1949  
Recent Advances in Odor: theory, Measurement, and Control, 1964  
Cardiac Pacemakers, 1964  
Comparative Biology of Calcified Tissue, 1963  
Research Methodology and Potential in Community Health..., 1963  
The Biology of Human Variation, 1966  
Civilian and Military Uses of Aerospace, 1965  
Adipose Tissue Metabolism and Obesity, 1965  
The Formation of Noble Gas Compounds, 1965  
The Planetary Food Potential, 1965  
Early Treatment of Severe Burns, 1968  
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Atherosclerosis: Recent Advances, 1968  
Growth Hormone, 1968  
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Mathematical Tables from the Handbook of Chemistry and Phys., 1941  
The Harvey Lectures - Series 74, 1978-1979  
Sports Medicine, 1966  
Congenital Anomaly of Left Coronary Artery in Young Athletes, 1966  
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Five Monographs, 1975  
Medical Consequences of Alcoholism, 1975  
Third Conference on the Laser, 1976

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Minimal Brain Dysfunction, 1973  
Second Conference on Vitamin C, 1975  
Prostalandins, 1971  
Myasthenia Gravis, 1971  
Membrane Structure and its Biological Applications, 1972  
Medicine and Sport, 1968-1980  
Alter und Leistung, 1954  
Sports in the Cultural Pattern of the World, 1952  
Wine and Your Well-Being, undated  
Ten Little People and their Teeth, undated  
The Noon Meal, undated  
Emergency Clothing in Civil Defense, undated  
Canadian Restaurateurs, undated  
Patient Monitoring in the Hospital, 1964  
Alcohol and Food in Health and Disease, 1966  
Alcoholism and the Central Nervous System, 1973  
Sudden Death of Athletes, 1985  
Pulmonary Edema and Inflammation, 1945  
La Typologie et ses Applications therapeutiques, 1949  
Dental Caries and Nutrition during Wartime in Norway, 1959  
Recommended Dietary Allowances, 1968  
Exercise and Cardiac Death, 1971  
The Clinical Physiology of Physical Fitness and Rehabilitation, 1971

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Articles and Professional Correspondence, undated

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Aircrew and Passenger Protective Breathing Equipment Studies, 1978  
The Effects of Strategic Bombing on the German War Economy, 1945  
Dem Deutschen Arzt und dem Deutschen Konsumenten, 1958  
An Introduction to Germany For Occupation Families, undated

Deutscher Altar, undated

Correspondence, undated

Research data sheets and papers, undated

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Papers on Tobacco, 1965-1978

Papers on Football Injury, 1980

Sea Grant College Program, 1984-1985

A Conceptual Design Analysis of a Completely Submersible, 1965

Yankee Diver, 1972

Hope Resuscitators, Ohil Medical Products, undated

3 Sub Sea International, Inc. Booklets, undated

NAUI News, 1973

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The New Galeazzi Hyperbaric Bed System for Reanimation Th., undated

Ocean Soundings, 1972

United States Armed Forces Medical Journal, 1959

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Diving World - Writer's and Photographer's Guide, 1973

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Papers on Clams, 1982

Themes and Variations in Experimental Toxicology, 1960

Papers on Aging, 1958

XVIII International Congress of Aerospace Medicine, 1969

Laboratory Sciences, undated

California Living Magazine, 1984

Supersaturation and 'Preformed Nuclei' in the Etiology of Dec., 1972

Heater and Humidifier for Breathing Apparatus, undated

Multidisciplinary Studies of Oceanic Science, undated

Permeation of Neon, Nitrogen and Sulfur Hexafluoride Through, 1967

Alcohol and Disorientation-Related Responses: V. Influence of, 1971  
The Effects of Altitude on Physical Performance, undated  
Decompression Limits for Compressed Air Determined bny UI, 1976  
Decompression Sickness During Saturation Dives, 1976  
Hyperbaric Oxygen therapy, 1977  
Amplitude/Frequency Differences in a Supine Resting Single, 1974  
Characteristics of Medically Disqualified Airmen Applicants D, 1974  
Studies on dysbarism II. Influence of Bradykinin and Brady..., 1964  
Quantitative Modeling of the Physiological Factors in Radiation, 1967  
Reprints on Pain, Acupuncture and Related Subjects, undated  
North Pacific Chapter, Undersea Medical Society Proceedings, 1979  
Contribution to the Physiology of High Atmospheric Pressure, 1934  
Effects of Compression on Composition and Absorption of Tissue, 1965  
Saturation and Desaturation with N<sub>2</sub> and He at 4 atm, 1967  
Death of Two SCUBA Divers, 1969  
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Shallow Water Blackout, 1968  
Effects of Temperature Manipulation and Alternation of Inert, 1969  
Bubbles, 1968  
Psychomotor Functioning While Breathing Varying Partial Pre., 1962  
Susceptibility to Seasickness: Influence of Hull Design and St., 1979  
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The Present Status of Chemical Research in Atmosphere Pur., 1963  
Stress, Fatigue, and Work-Rest Cycles Associated with Deep, undated  
Mechanisms in Development of Interstitial Emphysema and, 1958  
Improved Methods for Cyanide and Thiocyanate Measurement, 1982  
Drugs Exposed to Extreme Cold: the Military Perspective, 1981  
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Refinements of Formulas for Receptor Sensitivity, 1982  
Cold Weather Goggles:, 1982

Operability Evaluation of the ISPE Control Structure, 1981  
Personal Habits and Diet in Relation to Periodontal Health and, 1968  
Carbon Dioxide Effects Under Conditions of Raised Environment, 1974  
Influence of Physical Training, Aortic Constriction and..., 1970  
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Development of Performance Evaluation Tests for Environment, 1980  
Dual-Task Interference as a Function of Cognitive Processing..., 1978  
Effects of Low Levels of Carbon Monoxide on Vision of Smoker, 1979  
Attempts to Correct Swimming Errors, 1979  
Swimming Accuracy and Consistency of SCUBA Divers Under, 1979  
Improvement of Visual Detection During Whiteout, 1982  
The Effect of Prolonged Exposure to Low Carbon Dioxide Con..., 1959  
Effect of Chronic Hypercapnia on Body Temperature Regulation, 1974  
Diffusional and Metabolic Components of Nitrogen Elimination, 1973  
The Effectiveness of Yellow Goggles, 1980  
Target Size and Corrections for Empty-Field Myopia, 1980  
The Vision of Submariners and National Guardsmen: A Long, 1980  
The X-Chrom Lens for Correction of Color Deficiency, 1980  
On the Use of a Three-Words-Per-Item Format in Tests For the, 1980  
Interhemispheric Asymmetries in Visual Evoked Potential Amp, 1980  
Dietary Habits and related Factors in FBM Crew Members, 1968  
Perceptual Capabilities Required to Operate Visual Sonar Disp..., 1980  
Use of a Computer-Aided Diagnosis System Aboard Patrolling, 1981  
Effects of Astigmatism on Visual Performance Through Perisc..., 1980  
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Pulmonary Function During Shallow Habitat Air Dives, 1979  
Co2 Retention and ECG Changes in Exercise During Prolonged, 1982  
Eardrum Displacement Following Stapedius Muscle Contraction, 1972  
Biochemical Studies of Saturation and Saturation/Excursion Di..., 1979

Project Polar Bear: Testing of Diver thermal Protection in a Sim..., 1980

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Four Notebooks, undated

Correspondence with Searle Consultants, 1974

Abstract of Introductory Address and Statement of General Ob, 1953

Oxygen Poisoning in Man, Effect of Exercise on Time of Onset, 1946

Writings, undated

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Medical Department - Physical Standards and Physical Profili, 1948

Photo - 2nd Annual Hyperbaric Medicine Program, 1965, undated

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Overhead Lamp Exposures of Sweden's Preparations for A War, undated

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Forty Years of Medical Research, undated

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Theoretical Considerations of the Use of the Air-Filled Submar, 1952

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Experimental Altitude Chamber at the Naval Medical Center, 1971

the Rock, 1980

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Vitamin C Status of Submariners, 1980

The 1960 Willcome Prize Essay - the Medical Aspects or Clo..., 1960

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The Physiology of Whales, 1949  
Certain Problems of Medical Research, 1947  
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New Approaches to Medical Aspects of Work in Compressed, 1969  
Loose Papers on Decompression Sickness, undated  
Decompression Treatments, undated  
Material for Hal Ross and Catalina Programs, 1964  
Concepts Derived from Investigations Pertaining to High Alt..., 1954  
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Comments on Responses to Heat and Cold, 1954  
David Miller Correspondence, 1977  
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UCMC Lecture - Accidents, 1962  
Raborn Committee, 1967-1970  
Nutrition Letters, undated  
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Man in Sea Project Test Series Report No. 1, undated  
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Environmental physiology, 1968-1970

Why Inhabit the Sea?, 1967

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Otto Warburg by Ernst Jokl, M.D., undated

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Cash Log - A.R. Behnke, undated

Ill-Equipped, Undermanned U.S. Army is Decimated in Nifty..., 1979

Space Program Material, undated

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The Physiological Effects of Helium, Argon and the Rare Cases, 1962

Printed Matter - Articles, undated

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Dept. of Medicine and Surgery Medical Bulletin, 1957

Human Biometeorology, 1963

Mass Fires Following Nuclear Attack, 1960

Effects of Mass Fires on Personnel in Shelters, 1960

A Photosynthetic Gas Exchanger Capable of Providing for Res., 1959

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Role of Gas Embolism in Decompression Sickness - a New, 1968

Other Vital Issues, 1976

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Relevant Phase Conditions for Predicting Occurrence of Decompression, 1968

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Studies on the Eighth Cranial Nerve of Biological Subjects, 1960  
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Evaluation of Oral Problems in Divers Performing Electrical W., 1984  
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The Pressure Reversal of General Anesthesia and the Critical, 1973  
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Betting Preferences and Personality Characteristics of Navy D, 1970  
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Computation of Helium-Oxygen Decompression Tables, 1950  
Physiological Systems in Semiarid Environments, undated  
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Acute Coronary Insufficiency, 1956  
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Alan Purdy, undated  
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Determination of Sex through Genes in a Major Sex Locus, 1957  
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