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McIntyre-Saranac Conference
on
Occupational Chest Disease

TOWN HALL
SARANAC LAKE, NEW YORK
FEBRUARY 7, 8, and 9, 1955

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**MCINTYRE-SARANAC CONFERENCE
PROGRAM COMMITTEE**

A. J. LANZA, M.D., Chairman
*Emeritus Professor of Industrial Medicine
Institute of Industrial Medicine
New York University-Bellevue Medical Center
New York City*

D. A. IRWIN, M.D.
*Medical Director
Aluminum Company of America
Pittsburgh, Pennsylvania*

J. W. H. HANNON, M.D.
*Medical Director
McIntyre Research Foundation
Washington, Pennsylvania*

REGISTRATION

SUNDAY: February 6

10:00 a.m. — 8:00 p.m. Registration at the Hotel
Saranac

G. M. MEADE, M.D.
*Executive Director
Trudeau-Saranac Institute
Trudeau, New York*

MONDAY: February 7

8:30 a.m. — 10:30 a.m. Registration at the Town
Hall

G. W. H. SCHEPERS, M.D., D.Sc.
*Director
The Saranac Laboratory
Saranac Lake, New York*

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PROGRAM SUMMARY

MONDAY: February 7

8:30 a.m. — 10:30 a.m.
Registration at the Town Hall
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Aluminum in the Control of Silicosis 7

TUESDAY: February 8

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Epidemiology of Silicosis and Occupational
Chest Disease 9
2:30 p.m. — 6:00 p.m.
The Evaluation of Experimental Research
on Dust Disease 11
8:30 p.m. — 10:00 p.m.
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Occupational Chest Diseases 17

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MORNING SESSION February 7, MONDAY

Conference Chairman
ANTHONY J. LANZA, M.D.
*Emeritus Professor of Industrial Medicine
New York University-Bellevue Medical Center
New York City*

8:30 a.m. Final Registration at the Town Hall

10:30 a.m. Prologue
ANTHONY J. LANZA, M.D.
Conference Chairman

10:45 a.m. The Objectives and Achievements of
the McIntyre Research Foundation
FRANCIS B. TALDEAU, M.D.
Saranac Lake, N.Y.

11:00 a.m. The Contribution of The Saranac
Laboratory to Research On Chest
Diseases
E. D. FOX, President
*McIntyre Research Foundation
Toronto, Ontario*

11:15 a.m. Annual Report of the McIntyre Research
Foundation
ANGUS D. CAMPBELL, Manager
*McIntyre Research Foundation
Schumacher, Ontario*

11:30 a.m. The Comparative Vascular Pathology
of the Occupational Chest Diseases ✓
G. W. H. SCHEPERS, M.D., D.Sc.
*Director, The Saranac Laboratory
Saranac Lake, N.Y.*

12:10 p.m. The Value of Lung Biopsy in the Diagnosis
of Occupational Pulmonary Diseases ✓
H. S. VAN ORDSTRAND, M.D.
*Department of Pulmonary Diseases
Cleveland Clinic
Cleveland, Ohio*

Discussion

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AFTERNOON SESSION February 7, MONDAY

Aluminum in the Control of Silicosis

Moderator

G. W. H. SCHEPERS, M.D., D.Sc.
*Director, The Saranac Laboratory
Saranac Lake, New York*

2:30 p.m. Studies on the Prophylaxis of Experimental Silicosis by Means of Aluminum
MORRIS DWORSKI, M.P.H.
*Director of Research
Variety Clubs-will Rogers Hospital
and
Research Associate
The Saranac Laboratory
Saranac Lake, N.Y.*

3:30 p.m. The Demonstration of Aluminum in Animal Tissues
DUDLEY A. IRWIN, M.D.
*Medical Director
Aluminum Company of America
Pittsburgh, Pa.*

3:50 p.m. — 10 MINUTE RECESS —

4:00 p.m. Experiences with the Control of Silicosis in Foundries
L. M. D. OSMOND, M.D.
*Mesta Machine Co.
Homestead, Pa.*

4:30 p.m. Experiences with the Control of Silicosis in Gold Mining
J. K. GODIN, Manager
*Belle Terre Mines
Belle Terre, Quebec*

5:00 p.m. Experiences with the Control of Silicosis in the Ceramic Industry
D. L. PERRY, M.D.
*Universal Rundle Corporation
Newcastle, Pa.*

5:30 p.m. Discussion, Initiated by
PAUL G. BOVARD, M.D.
*Consulting Roentgenologist
Tarentum, Pa.*

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MORNING SESSION

February 8, TUESDAY

**Epidemiology of Silicosis and
Occupational Chest Disease**

Moderator

GORDON M. MEADE, M.D.

*Executive Director, Trudeau-Saranac Institute
Trudeau, New York*

**9:30 a.m. The Global Epidemiology of Occupational
Chest Diseases**

ANTHONY J. LANZA, M.D.

*Emeritus Professor of Industrial Medicine
N.Y. University-Bellevue Medical Center
New York City*

**10:00 a.m. Accomplishments in the Epidemiological
Study of Silicosis in the United States**

SEWARD E. MILLER, M.D.

*Chief, Division of Industrial Hygiene
U.S. Public Health Service
Washington, D.C.*

10:30 a.m. -- 10 MINUTE RECESS --

10:40 a.m. The Silicosis Problem in Canada

N. F. PARKINSON, Executive Director
*Ontario Mining Association
Toronto, Ontario*

and
A. R. RIDDELL, M.B., D.P.H.
*Senior Medical Specialist
Division of Industrial Hygiene
Ontario Department of Health
Toronto, Ontario*

**11:10 a.m. The Conquest of Occupational Chest
Disease in South Africa**

G. W. H. SCHEPERS, M.D., D.Sc.
*Director, The Saranac Laboratory
Saranac Lake, N.Y.*

**11:40 a.m. Pneumokoniosis in the Kolar Gold
Fields of South India**

GEOFFREY E. FRENCH, M.D.
*Senior Assistant Medical Officer
Kolar Gold Fields, South India*

**12:10 p.m. A Study of Certain Dust Diseases
in England**

A. I. G. McLAUGHLIN, M.D.
*H. M. Medical Inspector of Factories
London, England*

12:30 p.m. Discussion, initiated by

PHILIP DRINKER, Sc.D.
*Professor of Industrial Hygiene
Harvard University School of Public
Health
Boston, Mass*

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AFTERNOON SESSION February 8, TUESDAY

**The Evaluation of Experimental
Research on Dust Diseases**

Moderator

J. W. G. HANNON, M.D.

*Medical Director, McIntyre Research Foundation
Washington, Pennsylvania*

2:30 p.m. **The Clearance of Radioactive Dust
from the Human Lung**

ROY ALBERT, M.D.

*Assistant Chief, Medical Branch
Division of Biology and Medicine
U.S. Atomic Energy Commission
Washington, D.C.*

2:50 p.m. **Statistical Studies on Experimental
Aerosols**

STANISLAW KASZEB, M.E., E.E.

*Biostatistician
The Saranac Laboratory
Saranac Lake, N.Y.*

3:10 p.m. **A Correlation of Tissue Reaction and the
Mineral Content of the Lungs of
Experimental Animals**

PHILIP C. PRATT, M.D.

*Assistant Director, Biological Division
and*

THOMAS M. DUREAN, M.E.

*Assistant Director, Engineering Division
The Saranac Laboratory
Saranac Lake, N.Y.*

3:30 p.m. **A Critique of Experimental
Tuberculosis**

EMANUEL WOLINSKY, M.D.

*Assistant Director
Trudeau Laboratory
Trudeau, N.Y.*

3:50 p.m. — 10 MINUTE RECESS —

4:00 p.m. **The Value of Gough Section Preparations
in Dust Disease Diagnosis**

A. J. BLANCHARD, M.D.

*Pathologist, Sunnybrook Hospital
Toronto, Ontario*

and

A. R. RIDDELL, M.B., D.P.H.

*Senior Medical Specialist
Division of Industrial Hygiene
Ontario Department of Health
Toronto, Ontario*

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AFTERNOON (Continued) February 8, TUESDAY

4:15 p.m. The Reaction of Chromium Compounds with
Body Tissues and Their Constituents
ANNA M. BAETJER, D.Sc.
Associate Professor, Environmental
Medicine
Johns Hopkins University
Baltimore, Md.

4:40 p.m. The Question of Differential Experimental
Susceptibility of Animals to Dust
W. R. FRANKS, M.D.
Professor of Medical Research
The Banning and Best Department of
Medical Research
Toronto University
Toronto, Ontario

5:05 p.m. The Biochemistry of Surface Reactions /
In Relation to Particle Size of Dust
LESTER D. SCHEEL, Ph.D.
Head, Biochemistry Laboratory
Trudeau, N.Y.

5:30 p.m. Discussion, initiated by
NORTON NELSON, Ph.D.
Chairman, Institute of Industrial Medicine
N.Y. University-Bellevue Medical Center
New York City

EVENING SESSION

8:00 p.m. Conference Banquet — Hotel Saranac
Master of Ceremonies
MANFRED BOWDITCH
Director of Health & Safety
Lead Industries Association
New York City

9:00 p.m. LeRoy U. Gardner Memorial Address
PAUL S. RICHARDS, M.D.
Senior Consultant
Memorial Medical Center
Salt Lake City, Utah

9:30 p.m. Historical Sketches on Dr. Edward
L. Trudeau and Dr. E. R. Baldwin
HUGH M. KINGHORN, M.D.
Saranac Lake, N.Y.

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MORNING SESSION February 9, WEDNESDAY

**Medico-Legal and Clinical Aspects of
Pulmonary Disability**

Moderator

DUDLEY A. IRWIN, M.D.,

Medical Director, Aluminum Company of America
Pittsburgh, Pennsylvania

- 9:30 a.m. Legal Aspects of the Evaluation of Disability in Compensation for Pneumokoniosis ✓
THEODORE C. WATERS
Industrial Counsel
Baltimore, Md.
- 10:00 a.m. The Pulmonary Disability Legislation of South Africa ✓
G. W. H. SCHEPERS, M.D., D.Sc.
Director, The Sarnac Laboratory
Sarnac Lake, N.Y.
- 10:20 a.m. Criteria for the Assessment of Disability in Occupational Disease ✓
GILES F. FILLEY, M.D.
Head, Physiology Laboratory
Trudeau, N.Y.
- 10:50 a.m. — 10 MINUTE RECESS —
- 11:00 a.m. Talc Pneumokoniosis
M. KLEINFELD, M.D.
J. MESSITZ, M.D.
I. R. TABERSHAW, M.D.
Division of Industrial Hygiene
State of New York, Department of Labor
New York City
- 11:25 a.m. The Pulmonary Disability Associated with Coal Mining
J. W. G. HANNON, M.D.
Medical Director
McIntyre Research Foundation
Washington, D.C.
- 11:45 a.m. The Disability Found in Persons Exposed to Certain Beryllium Compounds
HARRIET L. HARDY, M.D.
Associate Physician
Occupational Medical Clinic
Massachusetts General Hospital
Boston, Massachusetts
- 12:10 p.m. The Pulmonary Disability Attendant on Asbestosis ✓
KENNETH W. SMITH, M.D.
Medical Director, Johns-Manville Corp.
New York City
- 12:30 p.m. Discussion, initiated by
WARREN A. COOK, B.A.
Associate Professor
Industrial Health and Hygiene
Univ. of Michigan School of Public Health
Ann Arbor, Michigan

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AFTERNOON SESSION February 9, WEDNESDAY

**Experimental and Engineering Aspects of
Occupational Chest Diseases**

Moderator

ANGUS D. CAMPBELL

*Manager, McIntyre Research Foundation
Schumacher, Ontario*

**2:30 p.m. The Experimental and Clinical Study of the
Effects of Inhaled Hydrous Calcium Silicate,
of Calcined Gypsum, and of Talc Dusts on
Animal Tissues and Human Lungs**

G. W. H. SCHEPERS, M.D., D.Sc.
Director, The Saranac Laboratory

and

THOMAS M. DURKAN, M.E.
*Assistant Director, Engineering Division
The Saranac Laboratory
Saranac Lake, N.Y.*

**3:00 p.m. The Experimental Study of the Biological
Action of Rare Earth Oxides, Fluorides,
Tungsten Carbide, and Glass Wool**

G. W. H. SCHEPERS, M.D., D.Sc.
Director, The Saranac Laboratory

and

ANTHONY B. DELAHANT
*Research Associate
The Saranac Laboratory
Saranac Lake, N.Y.*

3:30 p.m. The Radon Problem in Deep Level Mining

DUNCAN A. HOLADAY
*Sanitary Engineering Director,
Occupational Health Field Station
U.S.P.H.S. Special Health Services
Salt Lake City, Utah*

4:00 p.m. — 10 MINUTE RECESS —

**4:10 p.m. Weight and Size-Distribution versus
Particle or Fiber Counts in Estimating
Atmospheric Dustiness**

MALCOLM L. ROBERTS, M.S., M.E.
*Industrial Hygiene Engineer
The Saranac Laboratory
Saranac Lake, N.Y.*

**4:35 p.m. Current Problems in Dust Control in
Metal Mines**

CLIFFORD S. GIBSON
*Chief Engineer and Secretary,
Committee on Silica
Mines Accident Prevention Association
of Ontario
Timmins, Ontario*

5:00 p.m. Epilogue

ANTHONY J. LANZA, M.D.
Conference Chairman

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TECHNICAL DISPLAYS

- I. Large Lung Sections for Displaying Lung Lesions
- II. Representative Radiographs of Occupational Chest Diseases
- III. Gross Pathological Specimens of the Pneumokonioses
- IV. Experimental Pneumokoniosis
- V. Experimental Tuberculosis
- VI. Experimental Lung Cancer
- VII. Physiological Methods of Disability Evaluation
- VIII. The Petrography of Biotoxic Dusts
- IX. Practical Dust Sampling Methods
- X. Techniques of Aluminum Administration

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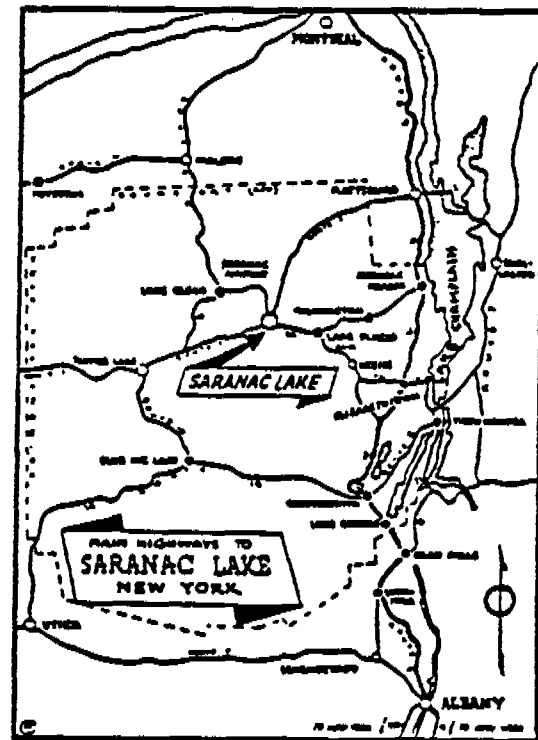
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SARANAC LAKE IS EASILY REACHED . . .

Excellent highways lead to Saranac Lake, the focal point of the scenic Adirondack Mountain Region, famous for its invigorating climate and unsurpassed recreational facilities.



TRANSPORTATION

Colonial Airlines

New York Central Railroad

Delaware and Hudson Railroad

Adirondack Trailways

Greyhound Bus Lines

Fitzgerald Bus Lines

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McINTYRE-SARANAC CONFERENCE
FEBRUARY 7, 8 and 9, 1955
SARANAC LAKE, NEW YORK

General Information

Transportation

By Automobile: Those wishing to drive to Saranac Lake will find all roads open and well-sanded during the winter months. The greater part of the New York Thruway is already in use.

By Air: Colonial Airlines has daily plane service from LaGuardia Field, New York to Saranac Lake Airport and from Montreal to Saranac Lake Airport.

By New York Central R.R.: There are through sleepers from New York City to Saranac Lake. The New York Central R.R. has notified us that if a sufficient number of reservations are made far enough in advance they will arrange a through sleeper from Chicago to Saranac Lake and from Pittsburgh to Saranac Lake, picking up passengers at the principal cities en route. Simply contact the general passenger agent in any large city for this purpose at least two weeks before the Conference.

By Delaware and Hudson R.R.: There is no direct connection on the Delaware and Hudson to Saranac Lake but there is a daily train from New York and one from Montreal to Westport, about 45 miles from Saranac Lake. Taxi service will be arranged for those choosing this route provided we are notified in advance.

By Bus: Adirondack Transit Lines: There are three buses daily from New York to Saranac Lake via Albany, New York. Connections can be made at Albany with New York Central trains.

Grayhound: There are two buses daily from New York and from Montreal to Saranac Lake.

Fitzgerald Bus Lines: There is one bus daily from Watertown to Saranac Lake.

Recreation

The Saranac Lake area provides many forms of recreational winter activities including skating (outdoors and indoors), skiing, bobsledding on the Olympic Bob Run, and skeet shooting. Over the weekend of February 11, 12 and 13, the Winter Carnival will be held in Saranac Lake and there will be skating races, ski races, dog-sled races, a parade of decorated floats, a Carnival Ball, crowning of King and Queen, and a fireworks display.

In Lake Placid the following events are scheduled:

Saturday, February 5 — National Senior A.A.U. 2-Man Bobsled race for Buco Monahan Trophy.

Hockey at Arena.

Sunday, February 6 — National Senior A.A.U. 4-Man Bobsled race for Billy Flake Trophy.

Hockey at Arena.

U.S. Eastern American Ski Association — Jr. Downhill and Slalom Championships.

Monday, February 7 — U.S. Eastern American Ski Association — Jr. Downhill and Slalom Championships.

Friday, February 11 — Lake Placid High School Winter Carnival at High School grounds, Olympic Arena, and Scotts Cobble. (Includes figure skating, hockey, ski-jumping, cross-country, downhill, slalom and snow sculpturing.)

Saturday, February 12 — U.S. Olympic 2-Man Bobsled Try-outs.

19th Annual Kate Smith Ski Races, "Icele Hop" Ball and crowning of High School King and Queen of Winter — Lake Placid High School Winter Carnival.

Sunday, February 13 — U.S. Olympic 2-Man Bobsled Try-outs.

19th Annual Kate Smith Ski Races.

International Pee Wee Bobsled Races on baby bob-run adjacent to the Arena.

Accommodations

Hotel Saranac, which is the headquarters for the Conference, several smaller hotels, and a number of first-class motels and tourist homes will comfortably accommodate those attending the sessions. If you plan to attend, please fill in the attached registration form and mail it to:

**Executive Secretary
The Saranac Laboratory
Box 331**

Saranac Lake, New York

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McINTYRE-SARANAC CONFERENCE

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Papers Read at the McIntyre-Saranac Conference
on Occupational Chest Disease
February 7, 8, and 9, 1955

The July, August, and September 1955 issues of the A.M.A. ARCHIVES OF INDUSTRIAL HEALTH will be devoted to the papers given at the McIntyre-Saranac Conference. The attached index shows the issue in which each particular paper will appear.

Copies of the journals as they are ordered can be obtained from the Saranac Laboratory at a cost of \$2.25 per copy, including postage. The July issue of the A.M.A. ARCHIVES OF INDUSTRIAL HEALTH has just been issued and copies are now available for distribution. The August and September numbers will follow on the usual publication dates.

There will be a limited number of bound volumes of the entire proceedings which may also be obtained from the Saranac Laboratory at a cost of approximately \$1.25, including postage. It is noted that the bound volumes will be available for distribution within one or two weeks following the completion of the 10 volume issue of the ARCHIVES OF INDUSTRIAL HEALTH.

Please send your orders for the single copies of the journals or for the bound volumes to:

Executive Secretary
The Saranac Laboratory
7 Church Street
Saranac Lake, New York

as promptly as possible, as only a limited number of the journals and the bound volumes will be available.

The McINTYRE-SARANAC FOUNDATION will handle the distribution of the journals and bound volumes to its members and licensees.

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William R. T. Allen
William R. Allen (Mrs. A.E.)
Secretary, McIntyre-Saranac Conference
Executive Secretary, The Saranac Laboratory

Inclosures

August 1, 1955

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A.M.A. ARCHIVES OF INDUSTRIAL HEALTH
July 1955 - Volume 12 - Number 1

Papers Read at the McIntyre-Saranac Conference
on Occupational Chest Disease
Saranac Lake, N.Y., Feb. 7, 8, and 9, 1955

(First Set of Papers)

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Prologue. Carey F. McFady, M.D., San Arbor, Calif.

The Objectives and Achievements of the McIntyre-Saranac Foundation.
Thomas E. Trueman, M.D., Saranac Lake, N.Y.

The Contribution of the Saranac Laboratory to Research on Chest Dis-
eases. H.D. Fox, M.D., Toronto, Canada.

Comparative Vascular Pathology of Occupational Chest Diseases.
G.H.M. Schepers, M.D., D.Sc., Saranac Lake, N.Y.

The Value of Lung Biopsy in the Diagnosis of Occupational Pulmonary
Diseases. E.S. Van Orstrand, M.D.; Donald E. McEwen, M.D.;
Lawrence J. McCusker, M.D., and John E. Harned, M.D., Cleveland.

Occupational Chest Diseases in Gold Mines. G.H.M. Schepers, M.D., D.Sc.,
Saranac Lake, N.Y.

Accomplishments in the Epidemiologic Study of Silicosis in the United
States. E.M. Ryle, D.Sc.; Victoria H. Franko, M.D.; Bill R. Fisher, D.Sc.,
and S.D. Miller, M.D., Washington, D.C.

Silicosis in Canada. R.F. Parkinson, M.D., Toronto, Canada.

Commentary on References by R.F. Parkinson Concerning the Silicosis
Problem in Ontario. Andrew R. Riddell, M.B., D.P.H., Toronto, Canada.

Talc Pneumoconiosis. Morris Kleinfeld, M.D.; Jacqueline Merritt, M.D.,
and Irving R. Taborshaw, M.D., New York.

Pneumoconiosis on the Kalar Gold Field, South India.
Geoffrey E. French, M.A., M.D., F.R.C.P. (C), Calcutta, Cal., Canada.

The Dust Diseases in Great Britain. A.I.G. McLaughlin, M.D., F.R.C.P.,
London.

Clearance of Radioactive Dust from the Human Lung. Roy E. Albert, M.D.,
Washington, D.C., and Lawrence C. Arnett, M.D., Brooklyn.

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Saranac Lake, N.Y., Feb. 7, 8, and 9, 1955

To Be Published in the August 1955 Issue
of the
A.M.A. ARCHIVES OF INDUSTRIAL HEALTH

The Pulmonary Disability Legislation of South Africa. The Rationale for
Its Enactment. G.W.H. Schepers, M.D., D.Sc., Saranac Lake, N.Y.

Evaluating Disability in Compensation for Pneumoconiosis: Legal Aspects.
Theodore C. Waters, Baltimore, Md.

The Radon Problem in Deep Level Mining. Duncan A. Holaday, Salt Lake
City, Utah.

Current Problems in Dust Control in Metal Mines. Clifford S. Gibson,
Timmins, Ont., Canada.

The Disability Found in Persons Exposed to Certain Barbitium Compounds.
Harriet L. Hardy, M.D., Boston, Mass.

The Effects of Inhaled Falc-Mining Dust on the Human Lung. G.W.H. Schep-
ers, M.D., D.Sc., and T.M. Durkan, M.D., Saranac Lake, N.Y.

The Pulmonary Disability in Asbestos Workers. Kenneth W. Smith, M.D.,
New York, N.Y.

The Antagonistic Biological Action of Quartz and Potassium Carbonate: An
Experimental Study on Guinea Pigs. G.W.H. Schepers, M.D., D.Sc., and
A.B. Delahant, Saranac Lake, N.Y.

An Experimental Study of the Effects of Rare Metals on Animal Lungs.
A.B. Delahant, Saranac Lake, N.Y.

The Biological Action of Tantalum Oxide: Studies on Experimental Pul-
monary Histopathology. G.W.H. Schepers, M.D., D.Sc., Saranac Lake, N.Y.

The Biological Action of Cobaltic Oxide: Studies on Experimental Pul-
monary Histopathology. G.W.H. Schepers, M.D., D.Sc., Saranac Lake, N.Y.

The Biological Action of Particulate Cobalt Metal: Studies on Experimental
Pulmonary Histopathology. G.W.H. Schepers, M.D., D.Sc., Saranac Lake,
N.Y.

The Biological Action of Particulate Tungsten Metal: Studies on Experi-
mental Pulmonary Histopathology. G.W.H. Schepers, M.D., D.Sc.,
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