

FILE NAME: National Safety Council (NSC)

DATE: 1951

DOC#: NSC252

DOCUMENT DESCRIPTION: General Sessions 1951 NSC - Index to Transactions of all Sessions

1951

GENERAL SESSIONS

1951 National Safety Congress

(Index to Transactions of all Sessions)

Officers, Trustees, and Board of Directors..... 5

Annual Council Meeting

Minutes 11

Sportsmanship in Safety 13

Address by Millard Caldwell..... 17

Six Steps Ahead 20

Banquet

Address by Robert Young 27

Safety Exposition Exhibitors 31

Index 37

Volume 1

Transactions

39th National Safety Congress



NATIONAL SAFETY COUNCIL

425 No. Michigan Avenue • Chicago 11, Ill.

National Safety Council

OFFICERS

Chairman, Board of Directors: CHARLES R. COX, President, Kennecott Copper Corp., New York, N. Y.

President: NED H. DEARBORN, President, National Safety Council, Chicago, Ill.

Vice-President for Forms: GUY L. NOBLE, Managing Director, National Committee on Boys and Girls Club Work, Chicago, Ill.

Vice-President for Finance, and Treasurer: O. GRESSENS, Financial Vice-President, Peabody Coal Company, Chicago, Ill.

Vice-President for Homes: TYLER S. ROGERS, Assistant to the Executive Vice-President, Owens-Corning Fiberglas Corp., Toledo, Ohio.

Vice-President for Industry: J. E. TRAINER, Vice-President and Production Manager, The Firestone Tire & Rubber Co., Akron, Ohio.

Vice-President for Local Safety Organizations: ROBERT R. SNOODGRASS, President, Atlas Auto Finance Co., Atlanta, Ga.

Vice-President for Membership: L. R. BOULWARE, Vice-President, Employee & Plant Community Relations, General Electric Co., New York, N. Y.

Vice-President for Public Information: BOYD LEWIS, Executive Editor, NEA-Acme, New York, N. Y.

Vice-President for Schools and Colleges: DR. HEROLD C. HUNT, General Superintendent of Schools, Chicago, Ill.

Vice-President for Traffic and Transportation: THOMAS H. MACDONALD, Commissioner of Public Roads, Bureau of Public Roads, Department of Commerce, Washington, D. C.

Vice-President for Women's Activities: MRS. GEORGE W. JAGUA, Safety Chairman, General Federation of Women's Clubs, Winchester, Ind.

Secretary: R. L. FORNEY, General Secretary, National Safety Council, Chicago, Ill.

Assistant Treasurers: B. B. MCCULLOCH, President, Bureau of Safety, Inc., Chicago, Ill.; H. H. GREENWALD, Director, Accounting Division, National Safety Council, Chicago, Ill.

National Safety Council

TRUSTEES

Chairman of the Trustees: LEE WARREN JAMES, Attorney, Old Brookville, Long Island, New York. (Note: Mr. James succeeded William A. Irvin as Chairman of the Trustees upon the latter's death January 2, 1952.)

Vice-Chairman of the Trustees: JOHN STILWELL, Yonkers, New York.

Secretary of the Trustees: NED H. DEARBORN, President, National Safety Council, Chicago, Ill.

Members

WINTHROP W. ALDRICH, Chairman, Board of Directors, The Chase National Bank, New York, N. Y.

MELVIN H. BAKER, President, National Gypsum Company, Buffalo, N. Y.

LAWRENCE D. BELL, President, Bell Aircraft Corporation, Buffalo, N. Y.

JAMES B. BLACK, President, Pacific Gas and Electric Company, San Francisco, Calif.

S. BRUCE BLACK, President, Liberty Mutual Insurance Company, Boston, Mass.

MORGAN B. BRAINARD, President, Aetna Life Insurance Company, Hartford, Conn.

CASON J. CALLAWAY, Blue Spring Farms, Hamilton, Ga.

JOHN W. CARPENTER, President, Texas Power and Light Company, Dallas, Texas.

WILLIAM G. CHANDLER, President, Scripps-Howard Supply Company, New York, N. Y.

KENNETH B. COLMAN, Seattle, Wash.

CHARLES R. COX, President, Kennecott Copper Corporation, New York, N. Y. (Ex-Officio.)

CLEO F. CRAIG, President, American Telephone & Telegraph Company, New York, N. Y.

FREDERICK C. CRAWFORD, President, Thompson Products, Inc., Cleveland, Ohio.

WALTER J. CUMMINGS, Chairman, Board of Directors, Continental Illinois National Bank and Trust Company, Chicago, Ill.

NED H. DEARBORN, President, National Safety Council, Chicago, Ill. (Ex-Officio.)

RICHARD R. DEUPREE, Chairman, Board of Directors, Procter and Gamble Company, Cincinnati, Ohio.

National Safety Council

BENJAMIN
Pittsburg

FRANCIS J.
Railway

WILLIAM
Houston, Tex.

E. ROLAND
New York

LEE WARREN
Pittsburg

GEORGE E.
Houston, Tex.

HORACE P.
Electric

GUSTAV M.
N. Y.

THOMAS
Corporation

PHILIP M.
Washington

BENJAMIN
Carbon

THOMAS
of the U.

W. S. S.
pany, Ne

WILLIAM
pany, Lo

HERBERT
Rubber

JOHN STIL
Arthur F.

DR. JOHN
Nickel

JUAN T.
York, N.

THOMAS
Corp. N.

C. E. WIL
Charles

ROBERT W.
Coca Cola

National Safety Council

BENJAMIN F. FAIRLESS, President, United States Steel Corporation, Pittsburgh, Pa.

FRANCIS J. GAVIN, Chairman, Board of Directors, Great Northern Railway Company, St. Paul, Minn.

WILLIAM GREEN, President, American Federation of Labor, Washington, D. C.

E. ROLAND HARRIMAN, Brown Brothers Harriman and Company, New York, N. Y.

LEE WARREN JAMES, Old Brookville, Long Island, N. Y.

GEORGE E. LEIGHTY, President, Railway Labor Executives' Association, Washington, D. C.

HERACE P. LIVERSIDGE, Chairman, Board of Directors, Philadelphia Electric Company, Philadelphia, Pa.

GUSTAV METEMAN, President, New York Central System, New York, N. Y.

THOMAS A. MORGAN, Chairman, Board of Directors, The Sperry Corporation, New York, N. Y.

PHILIP MURRAY, President, Congress of Industrial Organizations, Washington, D. C.

BENJAMIN O'SHEA, Member, Board of Directors, Union Carbide and Carbon Corp., New York, N. Y.

THOMAS I. PARKINSON, President, Equitable Life Assurance Society of the United States, New York, N. Y.

W. S. S. ROGERS, Chairman, Board of Directors, The Texas Company, New York, N. Y.

WILLIAM A. SIMPSON, President, William Simpson Construction Company, Los Angeles, Calif.

HERBERT E. SMITH, Member, Board of Directors, United States Rubber Company, New York, N. Y.

JOHN STILWELL, Yonkers, N. Y.

ARTHUR E. STODDARD, President, Union Pacific Railroad Co., Omaha, Nebr.

DR. JOHN F. THOMPSON, Chairman and President, International Nickel Company of Canada, Ltd., New York, N. Y.

JUAN T. TRIPPE, President, Pan-American Airways System, New York, N. Y.

THOMAS J. WATSON, President, International Business Machines Corp., New York, N. Y.

C. E. WILSON, President, General Motors Corporation, Detroit, Mich.

CHARLES DEERE WIMAN, President, Deere and Company, Moline, Ill.

ROBERT W. WOODRUFF, Chairman, Executive Committee, The Coca-Cola Company, Atlanta, Ga.

National Safety Council

BOARD OF DIRECTORS

Chairman of the Board of Directors: CHARLES R. COX, President, Kennecott Copper Corp., New York, N. Y.

Vice-Chairman of the Board of Directors: FRANKLIN M. KREML, Director, Traffic Division, International Association of Chiefs of Police, Evanston, Ill.

Members

A. F. ALLEN, President, Texas Employers' Insurance Association, Dallas, Tex.
J. I. BANASH, Consulting Engineer, West Los Angeles, Calif.
WILLIAM B. BARTON, Manager, Labor Relations Department, Chamber of Commerce of the United States, Washington, D. C.
MRS. OLIVE BEECH, President, Beech Aircraft Corp., Wichita, Kans.
C. W. BENQQUIST, Indianapolis, Ind.
R. A. L. BOGAM, Executive Vice-President, The Greyhound Corporation, Chicago, Ill.
NORMAN E. BONGERSON, Assistant Superintendent, State Department of Public Instruction, Lansing, Mich.
L. R. BOULWARE, Vice-President, Employee & Plant Community Relations, General Electric Company, New York, N. Y.
FRED W. BRAUN, Vice-President and Chief Engineer, The Employers Mutual Liability Insurance Company of Wisconsin, Wausau, Wis.
THEO BROWN, Director, Deere and Company, Moline, Ill.
E. J. BUHNER, Chairman of the Board, Silver Fleet Motor Express, Inc., Louisville, Ky.
ALFRED W. CANTWELL, Director, First Aid, Water Safety and Accident Prevention, American National Red Cross, Washington, D. C.
RAY CARR, Advertising Counsel, Portland, Ore.
E. J. CONDOM, Assistant to the President, Sears Roebuck and Co., Chicago, Ill.
WILLIAM L. CONNOLLY, Director, Bureau of Labor Standards, U. S. Department of Labor, Washington, D. C.
CHARLES R. COX, President, Kennecott Copper Corp., New York, N. Y.
R. S. DAMON, President, Trans World Airlines, Inc., Kansas City, Mo.
NED H. DEARBORN, President, National Safety Council, Chicago, Ill.
GEORGE P. DELANEY, International Representative, American Federation of Labor, Washington, D. C.
LAWRENCE E. DICKSON, President, Standard Safety Equipment Co., Chicago, Ill.
J. DEWEY DORSETT, General Manager, Association of Casualty and Surety Companies, New York, N. Y.
E. F. DU PONT, Director, Employee Relations Department, E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.
WALLACE FALVEY, President, Massachusetts Bonding and Insurance Company, Boston, Mass.

National Safety Council

CARRI
tions
O. G
Ill.
W. E.
City,
*Miss
born
De H
Ill.
George
Corp
Mrs.
Wor
E. W
Univ
Walt
Hamm
New
Presid
Chair
Walt
Ind.
Inver
Nat
Walt
N.
Boys
Thos
Pat
Mons
Sta
I. W
Hamm
W.
D. E
ton
Hall
R.
Hamm
De
Gey
Co
Hamm
pat
Club
Te
*Res

National Safety Council

R. Cox, President,

MELVIN M. KREML, President of Chiefs of

Insurance Association,

Los Angeles, Calif.

Department, Chamber of Commerce, D. C.

Corp., Wichita, Kans.

Greyhound Corporation,

State Department

& Plant Community, New York, N. Y.

Inspector, The Employers Association, Wausau, Wis.

lofting, Ill.

Fleet Motor Express,

National Safety and Accidents, Washington, D. C.

cars Roebuck and Co.,

Labor Standards, U. S.

per Corp., New York,

lines, Inc., Kansas City,

y Council, Chicago, Ill.

tative, American Federation

d Safety Equipment Co.,

ociation of Casualty and

ations Department, E. I.

ton, Del.

ts Bonding and Insurance

CARROLL E. FRENCH, Director, Industrial Relations Division, National Association of Manufacturers, New York, N. Y.

O. GROSSBERG, Financial Vice-President, Peabody Coal Co., Chicago, Ill.

W. EARL HALL, Managing Editor, Mason City Globe-Gazette, Mason City, Ia.

*MISS ELEANOR HOWE, Editor in Chief, "What's New in Home Economics," Chicago, Ill.

DR. HEROLD C. HUNT, General Superintendent of Schools, Chicago, Ill.

GEORGE A. JACOVY, Director of Personnel Services, General Motors Corporation, Detroit, Mich.

MRS. GEORGE W. JAGUA, Safety Chairman, General Federation of Women's Clubs, Winchester, Ind.

E. W. KEMPTON, Assistant Vice-President, Industrial Relations, United States Steel Company, Pittsburgh, Pa.

WALTER G. KING, New York, N. Y.

HAROLD K. KRAMER, Assistant Vice-President, The Borden Company, New York, N. Y.

FRANKLIN M. KREML, Director, Traffic Division, International Association of Chiefs of Police, Evanston, Ill.

WALTER D. LAMB, Manager, St. Joseph Safety Council, St. Joseph, Mo.

IVER C. LARSON, Executive Vice-President, San Francisco Chapter, National Safety Council, San Francisco, Cal.

WALTER G. LEGGE, President, Walter G. Legge Co., Inc., New York, N. Y.

BOYD LEWIS, Executive Editor, NEA-Acme, New York, N. Y.

THOMAS H. MACDONALD, Commissioner of Public Roads, Bureau of Public Roads, Department of Commerce, Washington, D. C.

MISS MARION E. MARTIN, Commissioner of Labor and Industry, State of Maine, Augusta, Me.

I. W. MILLARD, President, Industrial Gloves Company, Danville, Ill.

HARRY M. MOSES, President, Bituminous Coal Operators' Association, Washington, D. C.

D. E. MUMFORD, Superintendent of Safety, New York Central System, New York, N. Y.

HALLIE L. MYERS, Superintendent of Transportation, Indianapolis Railways, Inc., Indianapolis, Ind.

HARRY E. NEAL, Chief Engineer, Division of Traffic and Safety, Ohio Department of Highways, Columbus, Ohio.

GUY L. NOBLE, Managing Director, National Committee on Boys and Girls Club Work, Chicago, Ill.

HENRY E. NORTH, Vice-President, Metropolitan Life Insurance Company, San Francisco, Cal.

CLIFTON W. ORALEN, Vice-President, Personnel Relations, American Telephone and Telegraph Company, New York, N. Y.

*Resigned, October 9, 1951.

National Safety Council

WALLACE B. PHILLIPS, President, Pyrene Manufacturing Company, Newark, N. J.
 HARRY M. PONTIUS, Director of Safety, Farm Bureau Mutual Automobile Insurance Company, Columbus, Ohio.
 GWILYM A. PRICK, President, Westinghouse Electric Corporation, Pittsburgh, Pa.
 HARRY READ, Executive Assistant to the Secretary-Treasurer, Congress of Industrial Organizations, Washington, D. C.
 W. A. ROBERTS, President, Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
 TYLER S. ROGERS, Assistant to the Executive Vice-President, Owens-Corning Fiberglass Corporation, Toledo, Ohio.
 A. V. ROHWEDER, Superintendent of Safety & Welfare, Duluth, Missabe & Iron Range Railway Company, Duluth, Minn.
 ROBERT T. ROSS, Manager, Employee Services, Industrial Relations, Ford Motor Company, Dearborn, Mich.
 DR. K. FRANCES SCOTT, Associate Professor of Hygiene, Smith College, Northampton, Mass.
 CHARLES B. SHUMAN, President, Illinois Agricultural Association, Chicago, Ill.
 HONORABLE LEE E. SKEEL, Chief Justice, Court of Appeals of Ohio, Eighth Appellate District, Cleveland, Ohio.
 ROBERT R. SNOODGRASS, President, Atlas Auto Finance Company, Atlanta, Ga.
 R. T. SOLENSKY, Vice-President, Elliott Service Company, Mount Vernon, N. Y.
 LESLIE J. SORENSON, City Traffic Engineer, City of Chicago, Chicago, Ill.
 DR. H. J. STACK, Director, Center for Safety Education, New York, N. Y.
 W. A. STEWART, President, American Optical Company, Southbridge, Mass.
 PAUL F. STRICKER, Executive Vice-President, Greater New York Safety Council, New York, N. Y.
 DR. JOHN W. STUDEBAKER, Vice-President and Chairman of the Editorial Board, Scholastic Magazines, New York, N. Y.
 J. E. TRAINER, Vice-President and Production Manager, The Firestone Tire & Rubber Company, Akron, Ohio.
 MISS JUDITH WALLER, Director of Public Affairs and Education, National Broadcasting Company, Inc., Chicago, Ill.
 DR. GEORGE M. WHEATLEY, Third Vice-President, Metropolitan Life Insurance Company, New York, N. Y.
 W. O. WILSON, Manager of Safety, Standard Oil Co. (Ind.), Chicago, Ill.
 DWIGHT W. WINKELMAN, President, D. W. Winkelman Company, Inc., Syracuse, N. Y.
 DR. WILLIAM P. YANT, Director of Research & Development, Mine Safety Appliances Co., John T. Ryan Memorial Laboratory, Pittsburgh, Pa.
 HAROLD C. ZULAUF, Hastings-on-Hudson, N. Y.

Annua

The 1951 Annual Council National Safety Council Grand Ballroom of the S October 8, with Mr. Ne President, presiding.

Following the singing of them, the invocation was Reverend Kenneth N. Hill of the Central Church of

After appropriate opening dent Dearborn turned over ship of the meeting to Mr. President of the Kernecott tion, and Chairman of th rectors of the National S

After a brief but since his fundamental interest in the safety movement, Mr. with the business of the nouncing a quorum present proxy. It was voted to d calling of the role; also the reading of the minutes Annual Meeting, the min printed and circulated to tl

Mr. Cox called for th Nominating Committee, wi the following members: G Chairman; Lawrence E. G. Legye; Miss Marion E. Noble; Robert T. Ross; an

Mr. Jacoby reported in Nominating Committee, poi Constitution authorizes th name candidates for election to the Board of Directors, except the office of Execut dent. The selections of th Jacoby stated, were report ary of the Council more fore this meeting, and we all members of the Coun 1951.

Mr. Jacoby then presen for Trustees of the Coun

Industrial Hygiene

Industrial Dusts—What Every Supervisor Should Know

By L. E. HANLEY, M.D.

Medical Dir., American Book & Shoe Company, Chicago, Ill.

Most manufacturing procedures are capable of generating varying amounts of dust which may be visible, invisible, dangerous or inert. It is therefore important that these substances be properly classified in order to protect the health of employees and provide safe environments in which they may carry on their daily occupations.

Obviously the supervisor should have some knowledge of industrial dusts since the responsibility for enforcing measures instituted for their control usually falls upon his shoulders. Unless he has a good idea of the actual risks confronting him, he will be at a disadvantage in securing cooperation from those under his direction. Ability to answer questions concerning plant hazards in a convincing manner is a very important factor in any dust control program, and if the supervisor cannot explain the necessity of avoiding exposure to toxic materials the worker under his charge is very unlikely to pay attention to it.

On the other hand, a brief explanation that carries the ring of sincerity and truth can frequently correct unnecessary misunderstanding. For example, a capable young employee was worried about contracting silicosis because he worked in a plant where at times there appeared to be considerable dust in the atmosphere. He did not know that this dust was free from silica or other harmful ingredient, but his foreman did.

Knowledge of his own department enabled the supervisor to convince the workman that not only was the dust inert but also plans were under way for the installation of new ventilating equipment which would remove the particles that were already present. The man was satisfied and the company was able to retain the services of a good employee.

What then are some of the fundamental things a supervisor should know about in-

dustrial dusts? Dust is formed by reducing earthy materials to small size. Processes like grinding, crushing, blasting, and drilling produce dust particles of sizes from the sub-microscopic to the visible.

Fumes are formed from combustion, sublimation and condensation. Those from burning or melting lead or zinc are typical examples. The size of the particles is generally below one micron. (A micron is 1/25,000th of an inch.)

Smoke is usually of organic origin from such things as burning tobacco, wood, oil or coal. The particle size is usually below a half micron.

Mists or fogs are formed by condensation of water vapor and the particle or droplet size varies widely.

The most important item to the supervisor is the realization that he may be dealing with a dust which can produce bodily harm. His first consideration should be "How is the man himself affected? Is the dust present in sufficient amounts in the air to be a source of danger? Does it exist in the pure state or is it mixed with other dusts? What is the actual count of particles per cubic foot of air, and what percentage of these is of respirable size (below 10 microns and especially those below three microns? How long does it take to develop occupational disease of the lungs from exposure to dust?"

All this may appear to be outside the scope of the supervisor's activities since after all his job is concerned primarily with production. However, most industries place the responsibility for carrying out safety measures on the foreman and it is apparent that his department will suffer if these are not properly enforced. Safety therefore includes precautions against occupational disease as well as accidents so that some knowledge of methods for controlling exposure from dangerous dusts, toxic fumes or other

harmful materials is a proper part of the supervisor's assignment.

It is not advocated that his duties be so expanded as to encroach upon the field of the industrial hygienist but it is reasonable and logical to suggest that he equip himself with the essential details concerning occupational risks in the department he supervises. This information can be readily obtained from his company medical department or through other agencies such as the Division of Public Health of state and federal governments. These bureaus welcome inquiry of this type and their services are usually available without charge.

Much confusion and misunderstanding exists about the capacity of various dusts arising from occupational procedures to cause physical disability. Exaggerated reports and misrepresentation by individuals unfamiliar with their specific properties have incriminated certain materials known to be quite inactive and absorbed others proven to possess harmful qualities. Experience accumulated through years of intensive study and research indicates that the great majority of industrial dusts have little effect on health other than their nuisance value and contribution toward poor housekeeping.

However, the fact that they are unlikely to cause occupational disease should not be used as an excuse to do nothing about them. A good working environment demands that they be removed in spite of their innocuous characteristics and the smart supervisor will do all he can to accomplish their elimination.

The wide assortment of dusts met with in industry makes their classification into "harmful" and "inert" categories difficult. Those arising from organic sources such as animal and vegetable products as a rule do not cause serious harm but are capable of producing local irritation like dermatitis or skin rashes, dental conditions, and inflammation of the eyes and the mucous membrane lining of the upper air passages.

The majority of harmful dusts encountered in manufacturing processes are inorganic in character. The specific effect on health varies. Chromium, cadmium, arsenic, and their compounds produce local irritation as do the organic dusts but they can also cause general intoxication if present in sufficient amounts. The dusts or fumes derived from

the heavy metals like lead, mercury, and phosphorus are highly toxic and poisoning from their inhalation has been recognized for many years.

Silica dusts are still even fatal illness has been traced to acute toxic exposure to beryllium and most of its compounds while another occupational condition known as "Shaver's Disease" has produced severe damage to the lungs of workers exposed to fumes arising from the fusing of bauxite, the chief ore of aluminum, in the manufacture of artificial aluminum.

Generally speaking, the particle size which is most dangerous is in the range of one-half to three microns in diameter. Particles larger than these seldom reach the alveoli or terminal air sacs of the lungs since they are filtered out by the "cilia" or natural protective mechanism of the nose, throat, and large bronchi. There is also good evidence that particles below one-half micron in size may be retained in the lungs in sufficient quantities to result in disease. This means that the visible dust in a working place may not be as dangerous as the particles which are not seen by the naked eye.

Industrial hygienists emphasize this and also point out that although the amount of visible dust in the atmosphere in the vicinity of a certain job appears great, it does not necessarily mean that the workman is inhaling significant quantities of harmful particles. The exposure may be intermittent and of brief duration, or the air at the breathing level of the employee may be sufficiently clear that no undue risk is involved.

With the exception of beryllium and bauxite few of the aforementioned dusts cause damage to lung tissue and, as explained previously, not every person so exposed does develop occupational disease.

At the present time it is generally agreed that the most important sources of industrial disease of the lungs are free or uncombined silica and asbestos. Silica or silicon dioxide which makes up approximately 60 per cent of the rocks and minerals of the earth's crust, is the specific cause of the ailment affecting the lungs of workers in dusty trades, known as silicosis.

It is very important to recognize the fact that this widely known condition cannot be acquired from any material other than

free silica and when particles of this material are inhaled in large quantities over long periods of time, say to 25 years or more. The term "free" of which there are also others.

The scarification which results in silicosis starts in the chest. Frequent coughing is one of the symptoms in the early stages.

Other dusts which are difficult to remove and so settle in the chest after particles are inhaled. These dusts are often mistaken for this condition with the implication of a serious disease.

Unfamiliarity with the lungs by their proper cleaning means jobs and it has been found

Occupational

We have national medicine, that with national problems be checked. Through of control of chemicals will protect from the risks to modern

ery, and
is not passing
the required

in fact there
the exposure to
exposure while
the known as
the known as
the known as

which also which
lungs of one-half
unit. Particles
such the alveoli
lungs where they
the or natural
is more dense,
the good out-
one-half micron
in lungs is mil-
a distant. This
it is a working
room as the per-
the naked eye.
dies this and
the amount of
re in the vicinity
rest, it does not
workmen is in-
of harmful par-
be intermittent
the air at the
employee may be
side risk is in-

beryllium and
mentioned dusts
are and, as ex-
every person so
occupational disease.

generally agreed
sources of indus-
are free or ma-
teries. Silica or
has up approxi-
mately and minerals
specific cause of
lungs of workers
asthma.

recognize the fact
conditions cannot
total other than

from other and that there is a large body
of data which indicates that the exposure to
the of the various industrial dusts is a
long period of time and as such it is
to 15 years with an average of 10 years.
The term "low dose" usually means a dose
of which there are many examples. There
are also other forms of dusts.

The hearing or chronic of the lungs
which results from the action of accumulated
dusts is a characteristic nodular shadow
in the chest roentgenograms of those af-
fected. Properly this is the only way the
disease can be detected as it comes, no
symptoms in the early, uncomplicated stage.

Other dusts may produce x-ray patterns
which are difficult to differentiate from sil-
icosis and more medical diseases may re-
semble it closely. The x-ray picture ob-
served after the inhalation of iron oxide
particles among some welders and grinders
shows densities which are all the other
mistaken for them seen in silicosis. Since
the condition (silicosis) is harmful, the
implications of such misdiagnoses are ob-
vious.

Unfamiliarity with industrial diseases of
the lungs by those charged with evaluating
them properly has resulted in employees be-
coming needlessly alarmed, forsaking their
jobs and forfeiting seniority while industry
has lost good workmen and production. It

has also paid unjust claims for disability.
In a situation of this sort the supervisor
suffers along with the rest since his de-
partment is bound to be affected by these
conditions.

To attempt to tell the supervisor all he
should know about the extensive subject of
industrial dusts is an impossible assignment.
Suffice it to say that the more he learns
about them through his own volition, the
better his qualifications for his job will be.
Through such enterprise he will enter a new
field of endeavor and discover a fascinating
experience which will pay dividends both to
himself and his company.

The complexity of problems which con-
front the director of any department in
today's changing requirements presents a
formidable challenge to his resources, and
this, along with the working man's reason-
able insistence on a better place to work,
demonstrates that a knowledge of industrial
hygiene may well be a most important factor
in the efficient discharge of his duties.

The best treatment of any disease associ-
ated with industry is not to let it happen
in the first place. The problem is for engi-
neers rather than physicians, but, regardless
of the one on whom the burden falls, the
final outcome depends upon the interest and
efficiency of the man who manages a de-
partment.

Occupational Dermatitis: Teamwork in Engineering and Medical Control

By WALTER F. SCHOLTZ

Supvr., Industrial Hygiene, Allis-Chalmers Mfg. Co., West Allis, Wis.

We have accepted the challenge that occu-
pational dermatitis presents to industrial
medicine, and accordingly it can be stated
that with proper care and intensive educa-
tional programs, occupational dermatitis can
be checked and great savings effected.

Through the institution and maintenance
of control measures workmen can be pro-
tected against dermatitis producing oils,
chemicals, etc. The ideal control measures
will protect workmen all along the line—
from the manufacturing of the basic mate-
rials to the completed fabricated part.

Modern industry today is becoming so

cognizant of the benefits of good preventive
measures that they are not only relying on
the worker alone, but are seeking the team-
work of everyone concerned.

Since the proof of the pudding is in the
eating, I would like to state what has been
done through a concentrated program of
occupational dermatitis control and preven-
tion which started in 1943 at the West Allis
works of our company. This concentrated
program has resulted in a 74 per cent de-
crease and a reduction from 10.3 to 2.7 in
the number of cases per million manhours
of exposure.

1951

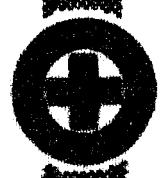
Current Safety Topics in the MARITIME INDUSTRIES

As presented in the
Sessions of the Marine Section
at the 1951 National Safety Congress

Cargo Ship Operation—Accidents to Crew and Preventive Measures Taken	3
Safe Operation of Cargo Ships, Accidents to Crew and Safe Practices Developed	6
Tanker Safety Program	9
An Investigation of the Effects of Freezing of Manila Rope	11
Accident Prevention Program of the Interlake Steamship Co.	13
Diesel Engine Garbasse Explosion Investigation	15
Marine Safety Progress Report	17
The Federal Government and Maritime Safety	18
The Federal Maritime Board and Safety	20
The Evolution of Safety	24

Volume 16
Transactions
39th National Safety Congress

NATIONAL SAFETY COUNCIL
425 No. Michigan Avenue • Chicago 11, Ill.



Contents

Volume 16 is the 39th
National Safety Congress

.....	1
.....	2
.....	3
.....	4
.....	5
.....	6
.....	7
.....	8
.....	9
.....	10
.....	11
.....	12
.....	13
.....	14
.....	15
.....	16
.....	17
.....	18
.....	19
.....	20
.....	21
.....	22
.....	23
.....	24
.....	25
.....	26
.....	27
.....	28
.....	29
.....	30
.....	31
.....	32
.....	33
.....	34

PLANS TO MEMBERS

to 999 copies	1000 or more
Each	Each
\$8.17	\$8.17
.23	.23
.35	.35
.58	.58

ies), 6.30 (10 to 99 copies),
volumes 10, 13, 29 and 31.
AVE. • CHICAGO 11, ILL.

MARINE SECTION NATIONAL SAFETY COUNCIL 1957-58

General Chairman—**WILLIAM E. PRATT**, Gen. Mgr., Marine Branch Dept., Society-Vacuum Oil Co., New York, N. Y.

Executive General Chairman—**CAPT. GEORGE BAKERDINE**, Exec. Vice-Pres., Farrell Lines, New York, N. Y.

Vice General Chairman (Shipbuilding and Ship Repairing)—**JOHN G. PEW, JR.**, Vice-Pres., East Shipbuilding & Repair Co., Boston, Pa.

Vice General Chairman (Merchant Marine)—**WALTER M. WELLS**, Exec. Vice-Pres., Inland S.S. Co., New York, N. Y.; **F. M. ROYER**, Gen. Mgr., Citicorp, New York, N. Y.

Vice General Chairman (Ship Agents)—**R. A. JENNISON**, Vice-Pres., Lakes Bros. Steamship Co., Inc., New Orleans, La.

Vice General Chairman (Pacific Area)—**RANDOLPH HENDER**, Pres., Modern Navigation Co., San Francisco, Cal.; **A. E. WHEAT**, Mgr., Marine Dept., Standard Oil Co. of Cal., San Francisco, Cal.

Vice General Chairman (Great Lakes Area)—**WILLIAM McDONALD**, Gen. Mgr., Hamilton & Co., Cleveland, Ohio; **DAVID S. NICHOLAN**, Int. S.A. Mgr., Pittsburgh S.S. Co., Cleveland, Ohio.

Vice General Chairman (Passenger & Cargo Services)—**HARRY K. KELLY**, Exec. Vice-Pres., Mississippi Shipping Co., New Orleans, La.; **CAPT. JONES F. DEVLIN, JR.**, Gen. Mgr., United States Lines, New York, N. Y.

Vice General Chairman (Tugboats)—**ERVEN O. PERKINS**, Asst. Gen. Manager, Marine Dept., The Texas Co., New York, N. Y.; **CHRISTOPHER STORY**, Vice-Pres., Citicorp, New York, N. Y.

Vice General Chairman (Coastal Regions and International Safety Conventions)—**VICE-ADM. MERLIN O'NEILL**, USCG, Comdt., U. S. Coast Guard, Washington, D. C.

Vice General Chairman (Coordination—Government and Marine Industry)—**VICE-ADM. EDWARD L. COCHRANE**, USN (Ret.), Maritime Administrator, U. S. Dept. of Commerce, Washington, D. C.

Advisory Committee (Past General Chairmen)—**LEIGH R. SANFORD**, President, Shipbuilders Council of America, New York, N. Y.; **LOUIS B. PATE**, Vice-Pres., Sams Shipping Co. (Robin Line), New York, N. Y.; **COM. ROBERT C. LEE**, Exec. Vice-Pres., Moore-McCormack Lines, New York, N. Y.; **WILLARD F. JONES**, Vice-Pres., Gulf Oil Corp., New York, N. Y.; **CARTER KENDALL**, Chief Safety Eng., Bethlehem Steel Co., Bethlehem, Pa.; **CARL E. HOLMES**, Mgr., Claims Dept., Marsh & McLennan, Inc., New York, N. Y.; **CAPT. EDWARD C. HOLDEN, JR.**, Vice-President, United States P. & I. Agency, New York, N. Y.; **CAPT. E. W. FISKE, JR.**, Mgr., Operating Div., Marine Transp. Dept., Society-Vacuum Oil Co., New York, N. Y.; **CAPT. FRANK H. COGAN**, Supt., Marine Dept., The Delaware, Lacka-

Vice President R. R. Co., Hoboken, N. J.; ARTHUR M. JONES, General Mgr., New York, N. Y.

Chairman, Shipping Committee—WILLARD E. JONES, Vice Pres., Gulf Oil Corp., New York, N. Y.

Secretary (Administration and Maritime Committee)—HENRY C. KEDENBACH, Hagen, Sussel & Hildesheim, New York, N. Y.

Assistant General Chairman (Program, Conventions & Meetings)—H. M. WICK, Asst. to the Pres., American Bureau of Shipping, New York, N. Y.

Assistant General Chairman (Membership)—CAPT. E. W. PIERCE, JR., Mgr., Operating Div., Marine Trans. Dept., Secor-Vacuum Oil Co., New York, N. Y.

Assistant General Chairman (Cargo Vessels)—L. E. QUACKENBUSH, Mgr., Warehousing Dept., States Marine Corp. of Del., New York, N. Y.

Assistant General Chairman (Petroleum and Tank Vessels)—FRANK W. MURPHY, Asst. Mgr., Operations Div., East Shipping Co., New York, N. Y.

Assistant General Chairman (Stevedoring)—JOHN W. McGRATH, Pres., National Assn. of Stevedores, and Pres., John W. McGrath Corp., New York, N. Y.

Director, Public Relations and Publicity—FRANK BRAYNARD, Dir., Bureau of Information, American Merchant Marine Inst., New York, N. Y.

Director, Maritime Associations—Safety Conferences and Attachments—R. J. BAKER, Secretary-Treas., American Merchant Marine Inst., New York, N. Y.

Directors, Safety Information and Posters—CAPT. R. E. MACKAY, Asst. Mgr., Operations Div., Marine Dept., The Texas Co., New York, N. Y.; HAROLD J. SGRAVE, District Manager, Mine Safety Appliances Co., Long Island City, N. Y.

Editor, Marine News Letter—S. B. PARSELL, Marine Dept., Secor-Vacuum Oil Co., New York, N. Y.

Regional Activities and Committees

Assistant to Vice General Chairman (Coastal Regions and International Safety Conventions—Coordination)—REAR ADM. J. A. HIRSHFIELD, USCG, Dir. of Personnel, U. S. Coast Guard, Washington, D. C.

Assistant Chairman, Atlantic Region—Tanker Operations—CAPT. WILLIAM G. ANDERSON, Mgr. of Operations, Marine Div., The Atlantic Refining Co., Philadelphia, Pa.

Assistant Chairman, Gulf Region—Ships and Stevedoring—CAPT. RALPH L. MOCK, Supvr., Accident Prevention, Lykes Bros. S.S. Co., New Orleans, La.; EARLE SMITH, Safety Div., Waterman S.S. Co., Mobile, Ala.

Assistant Chairman, Pacific Region—Ships and Stevedoring—JOSEPH H. TRAVERS, Mgr., Acc. Pre. Bureau, Pacific Maritime Assn., San Francisco, Cal.; HARRY E. AVERY, Safety Engineer, Matson Navigation Co., San Francisco, Calif.

Assistant Chairman, Southern California Region—Ports and Terminals—REAR ADM. FRANK D. HIGBEE, USCG (Ret.), Warden of the Port of Los Angeles, San Pedro, Cal.

Assistant Chairman, Great Lakes Region—Bulk Carriers—WM. ECKERT, Mgr., Safety Dept., Interlake S.S. Co., Cleveland, Ohio.

Assistant Chairman, Great Lakes Tow

Director, Inland Waterways, The American

Special Service Co

Chairman, Council
FRANK J. TA
N. Y.

Chairman, Ship Co
of American Shi

Chairman, Statistic
Safety and Car

Assistant Chairman
Chief Safety
STROM, Safety
Va.; I. C. YAT

Chairman, Engine
USCG, Chief, I

Special Maritime
Yale University

Special Government

Chairman, Safety
C. SHEPHEA
Merchant Mari

Chairman, Safety
HERGES, Sa
Standards, U. S.

Chairman, Naval
HARRY W.
Dept., Washing

Chairman, U. S.
Head, Safety
Washington, D.

Staff Representative

Assistant Chairman, Great Lakes Region—Fishing—J. R. GIBBERTY, Mgr., Ice Dept., Great Lakes Towing Co., Cleveland, Ohio.

Director, Inland Waterways, Operations and Shipbuilding—CHESTER C. THOMPSON, Pres., The American Waterways Operators, Inc., Washington, D. C.

Special Service Committees

Chairman, Committee for the Advancement of Safety in the American Merchant Marine—FRANK J. TAYLOR, Pres., American Merchant Marine Institute, Inc., New York, N. Y.

Chairman, Ship Owners Associations Committee—GEORGE W. MORGAN, Pres., Assn. of American Ship Owners, New York, N. Y.

Chairman, Statistics and Contacts Committee—CAPT. H. R. ROSENGRIEN, Dir. of Safety and Cargo Damage Prevention, Moore-McCormack Lines, New York, N. Y.

Assistant Chairman, Shipbuilding and Ship Repair Committee—CARTER KENDALL, Chief Safety Eng., Bethlehem Steel Co., Bethlehem, Pa.; HERMAN J. NORDSTROM, Safety Eng., Newport News Shipbuilding and Dry Dock Co., Newport News, Va.; I. C. YATES, Dir. of Safety, Alabama Drydock & Shipbuilding Co., Mobile, Ala.

Chairman, Engineering and Minimum Standards Committee—CAPT. R. A. SMYTH, USCG, Chief, Merchant Marine Technical Div., U. S. Coast Guard, Washington, D. C.

Special Maritime Advisor (Marine Engineering)—H. L. SEWARD, Professor Emeritus, Yale University, School of Engineering, New Haven, Conn.

Special Government Committees for Safety in National Defense

Chairman, Safety Policies for Regulations and Ship Inspections—REAR ADM. HALERT C. SHEPHEARD, USCG, Chairman, Merchant Marine Council, and Chief, Office of Merchant Marine Safety, U. S. Coast Guard, Washington, D. C.

Chairman, Safety Committee for Accident Causes and Cost Experience—EDWARD P. HERGES, Safety Supvr., Federal and Maritime Safety Section, Bureau of Labor Standards, U. S. Dept. of Labor, Washington, D. C.

Chairman, Naval Committee for Safety in National Defense Organizations—CAPT. HARRY W. BAUMER (CEC), USN, Dir., Safety Div., Office of Ind. Rel., Navy Dept., Washington, D. C.

Chairman, U. S. Navy Yards Safety Committee—LT. COMDR. G. D. McCAULEY, Head, Safety Section, (Code 785), Ind. Rel. Branch, Bureau of Ships, Navy Dept., Washington, D. C.

Staff Representative—L. W. DUTTON, National Safety Council, Chicago, Ill.

1951

Current Safety Topics in the RAILROAD INDUSTRY

As presented in the
Sessions of the Railroad Section of the
1951 National Safety Congress

Annual Message of the General Chairman	3
Managerial Responsibility for Safety	4
Report of Contest Committee	6
Report of the Association Union Committee	6
Mechanized Equipment Can be Handled Safely in Freight Houses and Stations	7
Report of the Membership Committee	8
Color Harmony	9
Report of the Film and Sound Committee	14
Report of the Committee on Trespassing	15
Management's Views on Safety	16
The Highway-Rail Intersection Program	18
Off the Job Safety	21
Report of the Statistics Committee	22
Safety—An Everyday Challenge	24
Report of the Poster Committee	26
Report of the Committee on Safe Practices	27
The Causes and Prevention of Occupational Dermatitis	27
Safety and Morale	31
Report of the Safety Devices Committee	35
Report of the Safety Instruction Card Committee	36
Remarks of the New General Chairman	36
Resolutions	37

Volume 27
Transactions
39th National Safety Congress

NATIONAL SAFETY COUNCIL
425 N. Michigan Avenue • Chicago 11, Ill.



In the list:

See No.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25
- 26
- 27
- 28
- 29
- 30
- 31
- 32
- 33
- a)..... 34

MINIMUM:

1000 or more

Each

\$8.17

23

35

58

99 copies),

19 and 21.

10 11, N.L.

8-352-0127

Officers of the RAILROAD SECTION NATIONAL SAFETY COUNCIL 1951-52

General Chairman—L. E. HOFFMAN, St. Louis Southwestern Railway Lines, Tyler, Tex.

Vice-Chairman—R. C. SABENS, The New York, Chicago and St. Louis Railroad Company, Cleveland, Ohio.

Secretary and News Letter Editor—R. S. JAMES, Denver and Rio Grande Western Railroad Company, Denver, Colo.

Association Liaison Committee—*A. V. ROHWEDER (Chairman), Duluth, Missabe and Iron Range Railway Company, Duluth, Minn.; *D. E. MUMFORD (Vice-Chairman), New York Central System, New York, N. Y.; C. M. KIMBALL, Southern Railway System, Washington, D. C.

Contest Committee—*C. L. LAFONTAINE (Chairman), The Great Northern Railway Company, St. Paul, Minn.; *G. W. ELSTE (Vice-Chairman), The Baltimore and Ohio Railroad Company, Baltimore, Md.; C. M. KIMBALL, Southern Railway System, Washington, D. C.; F. R. CALLAHAN, The Pullman Company, Chicago, Ill.; D. W. NAFF, Norfolk and Western Railway Company, Roanoke, Va.

Film and Sound Committee—R. I. GREENFIELD (Chairman), The Canadian Pacific Railway, Montreal, Quebec; E. H. BLEWER (Vice-Chairman), New York Central System, New York, N. Y.; R. S. JAMES, Denver and Rio Grande Western Railroad Company, Denver, Colo.; M. A. NUGENT, The Southern Pacific Company, San Francisco, Cal.; E. J. FLAHERTY, Lehigh Valley Railroad, New York, N. Y.; J. E. SLAVEN, Chicago, Burlington and Quincy Railroad, Chicago, Ill.

Highway-Railway Crossing Committee—C. M. KIMBALL (Chairman), Southern Railway System, Washington, D. C.; *G. W. ELSTE (Vice-Chairman), The Baltimore and Ohio Railroad Company, Baltimore, Md.; C. T. DeWITT, Northern Pacific Railway Company, St. Paul, Minn.; E. L. DUGGAN, The Atchison, Topeka and Santa Fe Railway Company, Chicago, Ill.; *R. P. HAMILTON, St. Louis-San Francisco Railway Company, St. Louis, Mo.; D. E. MUMFORD, New York Central System, New York, N. Y.; J. E. SLAVEN, Chicago, Burlington and Quincy Railroad, Chicago, Ill.; J. P. WADSWORTH, Canadian National Railways, Montreal, Quebec; J. T. WILLIAMS, The Pennsylvania Railroad, Philadelphia, Pa.

Health Committee—C. H. O'DONNELL, M.D. (Chairman), New York Central System, Detroit, Mich.

Membership Committee—*W. H. ROBERTS (Chairman), Chicago and North Western Railway System, Chicago, Ill.; L. H. PICKRYL (Vice-Chairman), The River Terminal Railway Company, Cleveland, Ohio; L. J. BENSON, The Chicago, Milwaukee, St. Paul and Pacific Railroad Company, Chicago, Ill.; FRANK L. WINEGAR, The Chicago, South Shore and South Bend Railroad Company, Michigan City, Ind.; F. R. CALLAHAN, The Pullman Company, Chicago, Ill.; D. P. BROWDER, Richmond, Fredericksburg and Potomac Railroad Company, Richmond, Va.; W. C. LARAWAY, The Delaware and Hudson Railroad Corporation, Albany, N. Y.

Nominations and Elections Committee—*J. R. THEXTON (Chairman), The Delaware, Lackawanna and Western Railroad Company, Hoboken, N. J.; *D. E. MUMFORD (Vice-Chairman), New York Central System, New York, N. Y.; *ROBERT SCOTT, Atlantic Coast Line Railroad, Wilmington, N. C.; *W. H. ROBERTS, Chicago and North Western Railway System, Chicago, Ill.; *R. P. HAMILTON, St. Louis-San Francisco Railway Company, St. Louis, Mo.

Program Com
Western
Elgin, Ill.
Pullman
Company,
Neb.; E.
Chicago, Ill.;
Ill.; *R.

Poster Com
San Francisco
Railroad
Pacific R
Chicago,
port, La.

Safe Practic
tional Ra
Milwaukee
The Che
Chicago
Wabash I

Safety Dev
Western
Atlantic Co
Chesapeake
ville, Ch
FORD,
WILLIA

Safety Instr
York, N
DeWITT
I. A. FL
Ontario;
H. A. L.

Statistics C
Company
Railroad,
Roanoke,
Company

Transporting
Railway
and Indi
ern Rail
Cincinnati
Baltimore
Louisville

Staff Repre

*Past Gener

ION

1951-52

son, Tyler, Tex.

Railroad Com-

rande Western

th, Missabe and
Vice-Chairman).
Southern Railway

orthern Railway
: Baltimore and
n Railway Sys-
y, Chicago, Ill.;

Canadian Pacific
w York Central
Western Railroad
pany, San Fran-
k, N. Y.; J. E.

Southern Rail-
The Baltimore
ern Pacific Rail-
ka and Santa Fe
Francisco Rail-
ral System, New
ad, Chicago, Ill.;
ec; J. T. WIL-

Central System,

North Western
The River Ter-
cago, Milwaukee.
WINEGAR, The
City, Ind.; F. R.
DER, Richmond,
C. LARAWAY,

), The Delaware,
E. MUMFORD
OBERT SCOTT,
TS, Chicago and
N, St. Louis-San

Program Committee—*J. R. THEXTON (Chairman), The Delaware, Lackawanna and Western Railroad Company, Hoboken, N. J.; L. C. HAHNEY (Vice-Chairman), Elgin, Joliet and Eastern Railway Company, Joliet, Ill.; F. R. CALLAHAN, The Pullman Company, Chicago, Ill.; *J. R. TENNEY, The Western Maryland Railway Company, Hagerstown, Md.; F. B. LEWIS, Union Pacific Railroad Company, Omaha, Neb.; E. E. SEYFARTH, Belt Railway-Chicago & Western Indiana Railroad, Chicago, Ill.; *W. H. ROBERTS, Chicago and North Western Railway System, Chicago, Ill.; *R. P. HAMILTON, St. Louis-San Francisco Railway Company, St. Louis, Mo.

Poster Committee—M. A. NUGENT (Chairman), The Southern Pacific Company, San Francisco, Cal.; R. S. JAMES (Vice-Chairman), Denver and Rio Grande Western Railroad Company, Denver, Colo.; G. R. HUNTOON, Chicago, Rock Island and Pacific Railroad Company, Chicago, Ill.; L. B. HARPER, Illinois Central Railroad, Chicago, Ill.; O. R. DIAMOND, Kansas City Southern Railway Company, Shreveport, La.; B. A. McDONALD, Missouri-Pacific-Texas Lines, Dallas, Tex.

Safe Practices Pamphlets Committee—J. P. WADSWORTH (Chairman), Canadian National Railways, Montreal, Quebec; G. M. DEMPSEY (Vice-Chairman), Chicago, Milwaukee, St. Paul and Pacific Railroad Company, Chicago, Ill.; A. E. DUNCAN, The Chesapeake and Ohio Railway Company, Grand Rapids, Mich.; C. D. BLUE, Chicago and Eastern Illinois Railroad Company, Danville, Ill.; W. G. LANDRAM, Wabash Railroad Company, St. Louis, Mo.

Safety Devices Committee—E. E. SEYFARTH (Chairman), Belt Railway-Chicago & Western Indiana Railroad, Chicago, Ill.; G. C. STROMSOE (Vice-Chairman), Atlantic Coast Line Railroad Company, Wilmington, N. C.; G. A. ROBINSON, The Chesapeake and Ohio Railway Company, Richmond, Va.; R. H. SHORT, The Nashville, Chattanooga and St. Louis Railway Company, Nashville, Tenn.; S. S. SANDFORD, The Central Railroad Company of New Jersey, Jersey City, N. J.; J. T. WILLIAMS, The Pennsylvania Railroad, Philadelphia, Pa.

Safety Instruction Card and Safetygraph Committee—J. E. TOOHEY (Chairman), New York, New Haven and Hartford Railroad Company, New Haven, Conn.; C. T. DeWITT (Vice-Chairman), Northern Pacific Railway Company, St. Paul, Minn.; J. A. FLETCHER, The Toronto, Hamilton and Buffalo Railway Company, Hamilton, Ontario; A. J. BENSALA, Boston and Maine Railroad Company, Boston, Mass.; H. A. LINDERER, St. Louis-San Francisco Railway Company, St. Louis, Mo.

Statistics Committee—*J. R. TENNEY (Chairman), The Western Maryland Railway Company, Hagerstown, Md.; D. C. IRVING (Vice-Chairman), The Pennsylvania Railroad, Philadelphia, Pa.; B. A. GRUBBS, Norfolk and Western Railway Company, Roanoke, Va.; S. D. COULTON, The New York, Chicago and St. Louis Railroad Company, Cleveland, Ohio.

Trespassing Committee—*W. H. ROBERTS (Chairman), Chicago and North Western Railway System, Chicago, Ill.; CAPT. J. R. NUTTER (Vice-Chairman), Kentucky and Indiana Terminal Railroad Company, Louisville, Ky.; C. M. KIMBALL, Southern Railway System, Washington, D. C.; M. BRACY, Southern Railway System, Cincinnati, Ohio; HOMER CONNOR, The Baltimore and Ohio Railroad Company, Baltimore, Md.; H. C. DAULTON, The Louisville and Nashville Railroad Company, Louisville, Ky.

Staff Representative—L. W. DUTTON, National Safety Council, Chicago, Ill.

*Past General Chairman