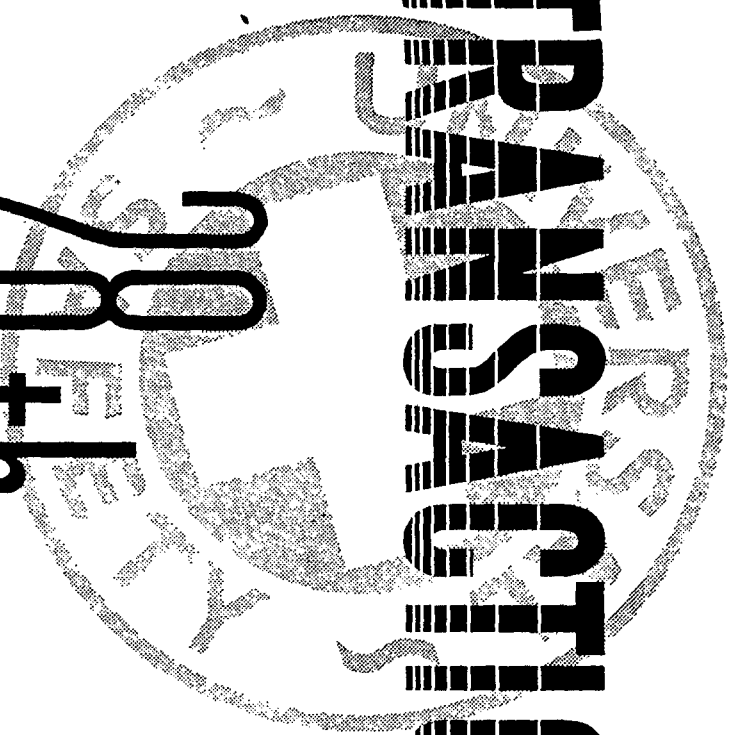


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TRANSACTIONS

28th

NATIONAL SAFETY CONGRESS

ATLANTIC CITY
OCTOBER 16-20, 1939

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Aeronautical Section

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(For the period 1939-1940, the officers named above were again selected to serve the Aeronautical Section.)

WEDNESDAY MORNING SESSION

October 18, 1939

The first session of the Aeronautical Section program was called to order by Mr. Gill Robb Wilson, Consultant, Aircraft Owners and Pilots Association, Trenton, N. J., who presided. With a few brief

words of welcome, he sketched some of the problems of "Private Flying," to which this session was devoted, and then introduced the speakers as scheduled in the program of sessions.

Maintenance of Airplanes for Student Training

By G. M. DOWNS

Ann Arbor Air Service Inc., Ann Arbor, Mich.

We believe the problem of maintenance of training planes to be a difficult one. The combination of inexperienced pilots and the great number of takeoffs and landings involved in training a student adds up to an unusual amount of wear and tear on the plane and motor. At the same time 100 per cent performance is very important from the standpoint of safety. Our methods have been developed from suggestions of every member of our organization. We have even stolen some ideas from the Insurance Underwriters and manufacturers.

Our system hinges around two main points:- (1) Monday morning, and as much of the afternoon as is necessary, is definitely set aside each week for inspection of planes and motors. (2) The extensive use of inspection forms as a guide and reminder to the mechanic.

There are periods during the year when a ship is not flown enough to warrant an inspection from the air-time standpoint, but it is inspected just the same. There are other periods when a ship will accumulate enough air-time in three to four days to warrant inspection and service, in which case it gets the inspection whether it is Monday or not. We keep a master log from which all flying time—pilot and ship—is posted to individual cards. In the case of the ships, this is posted every day so that a record of inspection, service and oil drains is always available.

In addition, an inspection form is at hand when the mechanic is doing the work and is filled out and signed by him. This form is then filed in the office for future reference, and as a guard against some one slipping up on a recommended repair

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 *Past General Chairman

WEDNESDAY LUNCHEON SESSION

October 18, 1939

The Annual Meeting of the A.S.S.E.—Engineering Section of the National Safety Council followed a luncheon held in the Renaissance Room of the Ambassa-

dor Hotel. General Chairman R. E. Donovan, Chief Safety Engineer, Standard Oil Company of California, San Francisco, Calif., presided. Mimeographed copies of

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*W. A. BECHILL, Chrysler Corp., De Soto Div., Detroit, Mich.

*M. A. CLARK, U. S. Rubber Co., Detroit, Mich.

*HOYT L. FRACHER, Detroit Steel Products, Detroit, Mich.

*G. A. KUECHENMEISTER, Dominion Forge & Stamping Co., Walkerville, Ont., Canada.

*M. J. MCCARTHY, Fisher Body Detroit Div., General Motors Corp., Detroit, Mich.

*H. L. SAIN, Industrial Commission of Ohio, Columbus, Ohio.

*CARL L. STORCK, Delco Products Div., General Motors Corp., Dayton, Ohio.

*R. F. THALNER, Buick Motor Div., General Motors Corp., Flint, Mich.

*C. T. WINEGAR, Chrysler Corp., Detroit, Mich.

*Past General Chairman

TUESDAY AFTERNOON SESSION

October 17, 1939

The first session of the Automotive and Machine Shop Section was called to order by Vice-Chairman John C. Bower, Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., who presided.

After proceeding with the formal election of officers for the current year, a list of these being given above, the Chairman introduced the first speaker on the scheduled program.

General Machine Shop Hazards and Their Correction

By HARRY L. SAIN

Special Representative, Division of Safety and Hygiene, Industrial Commission of Ohio, Columbus, Ohio

Suppose I were to tell you that a fearful catastrophe has befallen Asbury Park, that beautiful little city on the coast of New Jersey. Suppose I were to tell you that of the 14,891 inhabitants of this community, only 887 came through the calamity unscathed. Suppose I were to tell you that

one of the unbridled forces of nature had caused death to 11 people, permanently disabled 50 others, put 1,168 in the hospitals and slightly injured 8,390 of the remaining inhabitants.

It is needless to say you would be interested. Yet at the risk of being deemed

heartless and unsympathetic, why should we be concerned for the aftermath of 9,619 casualties, including 11 lives sacrificed and life? Are we really things?

It certainly should concern machine shop owners because the figures represent the toll of shop employees of the and if anybody has no one has brought attention. As a matter has given more than this casualty list than own ranks within the

The point is just prone to be imprudent surmounting rather than by the and the tremendous exert upon production standards and the our industrial work

Our statistical record of shop accidents, in year have the same are like fashions; after year. What a shop accidents in O

1. Machinery
2. Handling Objects
3. Hand Tools
4. Flying Particles
5. Stepping upon or falling against Objects
6. Falls of Persons
Total number of days lost
Per cent of days lost due to six major causes

These causes are chief causes, namely Faulty Human causes can be further mechanical and personal

(a) Improper guarding
(b) Defective tools and equipment
(c) Hazardous conditions
(d) Improper and unsafe methods
(e) Improper clothing
(f) Improper handling

Cement and Quarry Section

Officers 1938-1939

- General Chairman*—FRED B. HUNT, Dewey Portland Cement Co., Davenport, Iowa.
Vice-Chairman—P. N. BUSHNELL, Missouri Portland Cement Co., St. Louis, Mo.
Vice-Chairman—TH. AVNSOE, Lone Star Cement Corp., New York, N. Y.
Secretary—A. J. R. CURTIS, Portland Cement Assn., Chicago, Ill.
News Letter Editor—JACK DEMPSTER, Canada Cement Co., Ltd., Montreal, P. Q., Canada
Engineering Committee Chairman—WM. MOELLER, Lone Star Cement Corp., Dallas, Texas
Highway Committee Chairman—M. A. KOFFMAN, Southwestern Portland Cement Co., Los Angeles, Calif.
Membership Committee Chairman—*H. A. RENINGER, Lehigh Portland Cement Co., Allentown, Pa.
Poster Committee Chairman—H. F. YOTTER, The General Crushed Stone Co., Easton, Pa.
Program Committee Chairman—W. M. POWELL, Medusa Portland Cement Co., Cleveland, Ohio.
Publicity Committee Chairman—M. P. GREER, Marquette Cement Manufacturing Co., Cape Girardeau, Mo.
Statistics Committee Chairman—W. W. ADAMS, U. S. Bureau of Mines, Washington, D. C.
Members at Large—
V. P. AHEARN, National Sand & Gravel Assn., Washington, D. C.
*WM. H. BAKER, J. E. Baker Co., York, Pa.
E. D. BARRY, Universal Atlas Cement Co., Chicago, Ill.
J. R. BOYD, National Crushed Stone Assn., Inc., Washington, D. C.
*R. B. FORTUIN, Pennsylvania-Dixie Cement Corp., Nazareth, Pa.
*ALEXANDER FOSTER, JR., Warner Co., Philadelphia, Pa.
*O. M. GRAVES, The General Crushed Stone Co., Easton, Pa.
E. POSSELT, Lone Star Cement Corp., New York, N. Y.
S. W. STAUFFER, National Lime Assn., Washington, D. C.
*F. E. TOWN, Medusa Portland Cement Co., Manitowoc, Wis.
*A. L. WORTHEN, The New Haven Trap Rock Co., New Haven, Conn.
*J. B. ZOOK, Great Lakes Portland Cement Corp., Buffalo, N. Y.
*Past General Chairman

Officers 1939-1940

- General Chairman*—P. N. BUSHNELL, Missouri Portland Cement Co., St. Louis, Mo.
Vice-Chairman—R. A. DITTMAR, Universal Atlas Cement Co., Hudson, N. Y.
Vice-Chairman—*O. M. GRAVES, The General Crushed Stone Co., Easton, Pa.
Secretary—A. J. R. CURTIS, Portland Cement Assn., Chicago, Ill.
News Letter Editor—JACK DEMPSTER, Canada Cement Co., Ltd., Montreal, P. Q., Canada.
Engineering Committee Chairman—*J. B. ZOOK, Great Lakes Portland Cement Corp., Buffalo, N. Y.
Membership Committee Chairman—*HENRY A. RENINGER, Lehigh Portland Cement Co., Allentown, Pa.
Program Committee Chairman—H. F. YOTTER, The General Crushed Stone Co., Easton, Pa.
Publicity Committee Chairman—DAVID ADAM, Lawrence Portland Cement Co., Northampton, Pa.
Statistics Committee Chairman—W. W. ADAMS, U. S. Bureau of Mines, Washington, D. C.

Members at Large—

- TH. AVNSOE, Lone Star Cement Corp., New York, N. Y.
 *W. H. BAKER, J. E. Baker Co., York, Pa.
 E. D. BARRY, Universal Atlas Cement Co., New York, N. Y.
 J. R. BOYD, National Crushed Stone Assn., Inc., Washington, D. C.
 *R. B. FORTUIN, Pennsylvania-Dixie Cement Corp., Nazareth, Pa.
 *ALEXANDER FOSTER JR., Warner Co., Philadelphia, Pa.
 *F. B. HUNT, Dewey Portland Cement Co., Davenport, Iowa.
 S. W. STAUFFER, National Lime Assn., Washington, D. C.
 *F. E. TOWN, Medusa Portland Cement Co., Manitowoc, Wis.
 *A. L. WORTHEN, The New Haven Trap Rock Co., New Haven, Conn.
 *Past General Chairman

TUESDAY AFTERNOON SESSION

October 17, 1939

The opening session of the Cement and Quarry Section was called to order by P. N. Bushnell, Missouri Portland Cement Company, St. Louis, Mo., and Vice-Chairman of the Section, who presided. Mr. Bushnell

made a brief report upon activities of the Section during the year, and then proceeded with the election of officers, a list of which is given above. The Chairman then introduced the first speaker.

Analysis of Cement and Quarry Accident Experience

By I. F. LEGORE

Safety Engineer, Portland Cement Association, Chicago

There seems to be no question that 1939 will be the safest year in cement industry history. And there is reason to believe that the new low accident frequency rate will keep Cement in the position it has held for the past two years as the second safest among 30 industries reporting to the National Safety Council.

The cement industry "put on the pressure" during the first half with gratifying results, and saw the accident trend continue the downward course which has been uninterrupted since late in 1936. The accident frequency rate, or score, for the first half of 1939 was 4.00 per million man hours; the severity rate was at the unprecedented low level of 1.42. This frequency rate was 13 per cent lower than the rate of 4.61 for the year 1938; the severity rate was 42 per cent lower than last year's rate of 2.44.

At the end of the third quarter the industry had slipped a bit. A new high for the year of 18 accidents was reported during August, and 19 injuries were reported in September.

With operations continuing about 18 per cent above last year, the average of accidents reported for 8 months had advanced to 14, exactly the same as the average for the first 8 months last year. This was for 130 plants, however, compared with 119 plants previously.

Greater mill activity appears not to have been responsible for the rising tide during the past two months, for August activity was only 3.5 per cent above production for the Campaign month of June, according to data from the U. S. Bureau of Mines. And yet there were 80 per cent more accidents in August and September than there were in June.

"Pressure" Was Applied

Most of you are familiar with the annual June No-Accident Campaign sponsored by the Portland Cement Association, which has contributed so much to our industry's safety progress. The 1939 Campaign covered the 3-month period, April, May and June, and was in a large measure responsible for

safety progress

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Chemical Section

Officers 1938-1939

- General Chairman*—RALPH L. ROGERS, JR., Tennessee Eastman Corp., Kingsport, Tenn.
Vice-Chairman in Charge of Program—RALPH O. KEEFER, Aluminum Co. of America, Pittsburgh, Pa.
Secretary—F. W. DENNIS, Hooker Electrochemical Co., Niagara Falls, N. Y.
News Letter Editor—R. S. MACKIE, General Electric Co., Nela Park, Cleveland, Ohio.
Data Sheet Committee Chairman—S. WARZALA, The Calco Chemical Co., Inc., Bound Brook, N. J.
Engineering Committee Chairman—D. S. MCEACHERN, American Cyanamid Co., New York, N. Y.
Health Committee Chairman—*DR. LEONARD GREENBURG, New York State Dept. of Labor, New York, N. Y.
Membership Committee Chairman—C. E. SEVRENS, Monsanto Chemical Co., Merrimac Div., Everett, Mass.
Poster Committee Chairman—H. R. BIXLER, Union Carbide Co., New York, N. Y.
Publicity Committee Chairman—S. D. KIRKPATRICK, Chemical & Metallurgical Engineering, New York, N. Y.
Safety Instruction Card Committee Chairman—E. F. KING, Lever Brothers Co., Cambridge, Mass.
Statistics & Contest Committee Chairman—R. C. STRATTON, The Travelers Insurance Co., Hartford, Conn.
Members at Large—
*A. L. ARMSTRONG, Eastman Kodak Co., Rochester, N. Y.
O. C. CALLENDAR, Hiram Walker & Sons, Inc., Peoria, Ill.
JOHN CLEMENTS, Michigan Alkali Co., Wyandotte, Mich.
S. W. GURNEY, Liberty Mutual Insurance Co., Boston, Mass.
W. L. HAMMERSLEY, Electric Storage Battery Co., Philadelphia, Pa.
H. P. HEUBNER, The Flintkote Co., New York, N. Y.
F. W. JURICK, The Westvaco Chlorine Products Corp., Carteret, N. J.
*H. L. MINER, E. I. du Pont de Nemours & Co., Wilmington, Del.
*JOHN ROACH, Deputy Commissioner of Labor, Jersey City, N. J.
K. E. ROOF, Willard Storage Battery Co., Cleveland, Ohio.
*J. S. SHAW, Hercules Powder Co., Wilmington, Del.
*A. L. WATSON, Koppers United Co., Pittsburgh, Pa.
PLUMER WHEELER, American Cyanamid Co., Linden, N. J.
*S. E. WHITING, Liberty Mutual Insurance Co., Boston, Mass.
CLARENCE WIGLE, Niagara Alkali Co., Niagara Falls, N. Y.
*Past General Chairman

Officers 1939-1940

- General Chairman*—RALPH O. KEEFER, Aluminum Co. of America, Pittsburgh, Pa.
Vice-Chairman in Charge of Program—STANLEY WARZALA, The Calco Chemical Co., Inc., Bound Brook, N. J.
Secretary—F. W. DENNIS, Hooker Electrochemical Co., Niagara Falls, N. Y.
News Letter Committee—S. W. GURNEY (*Chairman*), Liberty Mutual Insurance Co., Boston, Mass.

- *A. L. ARMSTRONG, Eastman Kodak Co., Rochester, N. Y.
 R. S. MACKIE, General Electric Co., Nela Park, Cleveland, Ohio
 P. V. TILDEN, E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.
Engineering Committee—D. S. MCEACHERN (*Chairman*), American Cyanamid Co., New York, N. Y.
 F. W. JURICK, The Westvaco Chlorine Products Corp., Carteret, N. J.
 *S. E. WHITING, Liberty Mutual Insurance Co., Boston, Mass.
Data Sheet Committee—PLUMER WHEELER (*Chairman*), American Cyanamid Co., Linden, N. J.
 S. M. MACCUTCHEON, The Dow Chemical Co., Midland, Mich.
Health Committee—DR. LEONARD GREENBURG (*Chairman*), New York State Department of Labor, New York, N. Y.
 *J. S. SHAW, Hercules Powder Co., Wilmington, Del.
Membership Committee—C. E. SEVRENS (*Chairman*), Monsanto Chemical Co., Merrimack Div., Everett, Mass.
 W. L. HAMMERSLEY, Electric Storage Battery Co., Philadelphia, Pa.
Poster Committee—H. R. BIXLER (*Chairman*), Union Carbide Co., New York, N. Y.
 JOHN CLEMENTS, Michigan Alkali Co., Wyandotte, Mich.
 *RALPH L. ROGERS, JR., Tennessee Eastman Corp., Kingsport, Tenn.
Publicity Committee—S. D. KIRKPATRICK (*Chairman*), Chemical & Metallurgical Engineering, New York, N. Y.
 *A. L. WATSON, Koppers Co., Pittsburgh, Pa.
 CLARENCE WIGLE, Niagara Alkali Co., Niagara Falls, N. Y.
Safety Instruction Card Committee—E. F. KING (*Chairman*), Lever Brothers Co., Cambridge, Mass.
 *JOHN ROACH, Deputy Commissioner of Labor, Jersey City, N. J.
 K. E. ROOF, Willard Storage Battery Co., Cleveland, Ohio
Statistics and Contest Committee—R. C. STRATTON (*Chairman*), The Travelers Insurance Co., Hartford, Conn.
 *H. L. MINER, E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.
 *Past General Chairman

TUESDAY LUNCHEON SESSION

October 17, 1939

The opening session of the Chemical Section was a luncheon feature, presided over by General Chairman Ralph L. Rogers, Jr., Safety Director of the Tennessee Eastman

Corporation, Kingsport, Tenn. Chairman Rogers briefly introduced the speaker of the occasion, a celebrated hunter of African game.

Safety to Life in Africa

By M. NORMAN POWELL

Kenya Colony, British East Africa

(*Editorial Note:* Mr. Powell was born in Africa, from early boyhood has lived in the heart of the big game country. The natives were his playmates and his friends. He has learned their folklore, customs, and beliefs. He was initiated as a warrior into the Suk Tribe and has made many exten-

sive trips into the more primitive parts of Africa. He will tell of the protective methods and safeguards adopted not only by the white people, but also by the natives and animals to safeguard life and prevent injury to themselves and others. The following is a summary of his talk.)

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Construction Section

Officers 1938-1939

- General Chairman*—W. A. SNOW, Associated General Contractors of America, Inc., Washington, D. C.
Vice-Chairman for Heavy Construction—R. J. REIGELUTH, C. W. Blakeslee & Sons, New Haven, Conn.
Vice-Chairman for Highway Construction—S. E. ANDERSON, Harrison Construction Co., Pittsburgh, Pa.
Vice-Chairman for U. S. Engineer Department—MAJOR H. B. VAUGHAN, JR., Corps of Engineers, War Dept., Washington, D. C.
Vice-Chairman for Building Construction—C. H. BLACK, Stone & Webster Engineering Corp., Boston, Mass.
Secretary—ROBERT MCKINLEY, General Accident Fire & Life Assurance Corp., Detroit, Mich.
News Letter Editor—*EDGAR N. GOLDSTINE, 232-30th Ave., San Francisco, Calif.
Engineering Committee Chairman—JAMES A. BURBANK, The Travelers Insurance Co., Hartford, Conn.
Membership Committee Chairman—F. J. CRANDELL, Liberty Mutual Insurance Co., Boston, Mass.
Program Committee Chairman—*JOHN RUSSELL, Public Service Electric & Gas Co., Newark, N. J.
Statistics Committee Chairman—THOMAS SOULE, Industrial Indemnity Exchange, San Francisco, Calif.
Visual Education Committee Chairman—S. M. LAUDERDALE, Civilian Conservation Corps, Washington, D. C.
*Past General Chairman

Officers 1939-1940

- General Chairman*—R. J. REIGELUTH, C. W. Blakeslee & Sons, New Haven, Conn.
Vice-Chairman for Heavy Construction—W. A. HAZARD, Bethlehem Steel Co., Bethlehem, Pa.
Vice-Chairman for Highway Construction—S. E. ANDERSON, Harrison Construction Co., Pittsburgh, Pa.
Vice-Chairman for U. S. Engineer Department—MAJOR H. B. VAUGHAN, JR., Corps of Engineers, War Dept., Washington, D. C.
Vice-Chairman for Building Construction—E. PITOU, Chesebro, Whitman Co., Inc., Long Island City, N. Y.
Secretary—*W. A. SNOW, Associated General Contractors of America, Inc., Washington, D. C.
News Letter Editor—*EDGAR N. GOLDSTINE, 232-30th Ave., San Francisco, Calif.
Membership Committee Chairman—SAMUEL E. EDGE, New Haven Gas Light Co., New Haven, Conn.
Program Committee Chairman—*JOHN RUSSELL, Public Service Electric & Gas Co., Newark, N. J.
Statistics Committee Chairman—E. C. RIPLINGER, Koppers Co., Seaboard Div, Kearny, N. J.

Visual Education Committee Chairman—S. M. LAUDERDALE, Civilian Conservation Corps, Washington, D. C.

Engineering Committee—C. H. BLACK (*Chairman*), Stone & Webster Engineering Corp., Boston, Mass.

JAMES A. BURBANK, The Travelers Insurance Co., Hartford, Conn.

F. J. CRANDELL, Liberty Mutual Insurance Co., Boston, Mass.

ROBERT MCKINLEY, General Accident Fire & Life Assurance Corp., Detroit, Mich.

THOMAS SOULE, Industrial Indemnity Exchange, San Francisco, Calif.

*Past General Chairman

TUESDAY AFTERNOON SESSION

October 17, 1939

The opening session of the Construction Section was called to order by R. J. Reigeluth, Vice-President, C. W. Blakeslee & Sons, New Haven, Conn., Vice-Chairman

of the Section, who presided. Chairman Reigeluth welcomed the assembled delegates and then introduced the speakers, as follows:

What Are Our Accident Statistics for 1938?

By THOMAS SOULE

Chief Engineer, Industrial Indemnity Exchange, San Francisco, Cal.

These facts and figures appear of interest in examining the 1938 accident rates in the Construction Industry as reported by members of the National Safety Council:

The Construction Industry Frequency Rate is.....24.93
The Construction Industry Severity Rate is 3.24

These rates are about twice the average for National Safety Council members in 30 major industries reporting their experience.

Since 1926, the Construction Industry frequency rate was reduced 75 per cent; the Construction Industry severity rate was reduced 71 per cent; while the all industries frequency rate was reduced 68 per cent, and the all industries severity rate was reduced 44 per cent.

The respective reductions for the Construction Industry from 1937 to 1938 were 31 per cent and 6 per cent, as against 16 per cent and 5 per cent for all industries.

Credit for improvement in the Construction Industry's 1938 accident experience is due largely to the favorable experience in large organizations. They reduced both frequency and severity rates substantially,

whereas severity rates rose 35 per cent in small organizations.

The average frequency rate for large companies was 17.96, while that for small units was 49.80, the small unit being defined as having less than 100 employees. The smaller organizations had an average severity rate of 12.31 as against 2.64 for the large companies.

The best all time no injury records and the Honor Roll for 1938 in the National Safety Council Publication "Accident Rates in the Construction Industry 1938" contain the names of the construction departments of an oil company, several industrial plants, a public utility, as well as several districts of the U. S. Engineer Department engaged in river and harbor work and the Tennessee Valley Authority. Construction companies, for the most part, are conspicuous by their absence. The honored organization provided about one-third of the man hours worked and very materially lowered the accident rate figures developed for the entire group. In one classification, as an illustration, the removal of the construction department figures for an industrial organization would double the average accident frequency rate for the balance of the group.

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Food Section

Officers 1938-1939

- General Chairman**—S. B. HOKKELL, Carey Salt Co, Hutchinson, Kansas.
- Vice-Chairmen for Promotion**—*C. W. DEMPSEY, The Liquid Carbonic Corp., Chicago, Ill.
*F. A. HASSE, Corn Products Refining Co., Argo, Ill.
*W. A. SULLIVAN, Loose-Wiles Biscuit Co., Kansas City, Mo.
- Secretary**—D. M. CLARK, Society of Grain Elevator Superintendents of North America, Chicago, Ill.
- Engineering Committee**—E. E. DREWS (*Chairman*), Libby, McNeill & Libby, Chicago, Ill.
C. S. BUTLER, Junge Baking Co., Joplin, Mo.
WM. F. CRAWFORD, Bayuk Cigars, Inc., Philadelphia, Pa.
PAUL GOODNOUGH, The Quaker Oats Co., Chicago, Ill.
- Health Committee**—DR. WILMER H. SCHULZE (*Chairman*), Bureau of Environmental Hygiene, Health Dept., Baltimore, Md.
W. J. MAZE, Hawaiian Sugar Planters' Assn., Honolulu, Hawaii.
G. H. SIBLEY, Jewel Tea Co., Inc., Barrington, Ill.
W. W. SMITH, Smith Brothers, Inc., Poughkeepsie, N. Y.
- Membership Committee**—J. J. LYONS (*Chairman*), John F. Jelke Co., Chicago, Ill.
D. R. GRANT, Beech Nut Packing Co., Canajoharie, N. Y.
GEORGE T. PECKHAM, JR., Clinton Co., Clinton, Iowa.
E. G. QUESNEL, The Borden Co., New York, N. Y.
THEO. J. VAN DE KAMP, Van de Kamp's Holland Dutch Bakers, Inc., Los Angeles, Calif.
- News Letter Committee**—C. C. RUDDICK (*Chairman*), H. J. Heinz Co., Pittsburgh, Pa.
H. J. ALDRICH, Spencer Kellogg & Sons, Inc., Buffalo, N. Y.
A. L. BROWN, Post Products Div. of General Foods Corp., Battle Creek, Mich.
HUGO A. KLEMM, Industrial Commission of Wisconsin, Madison, Wis.
C. A. LINDER, Booth Fisheries Corp., Chicago, Ill.
- Poster Committee**—G. L. GORE (*Chairman*), Bruce Dodson & Co., Kansas City, Mo.
ADAM METZ, Baker's Mutual Insurance Co. of New York, New York, N. Y.
D. B. MULLIGAN, Biltmore Hotel, New York, N. Y.
A. B. SNAVELY, Hershey Chocolate Corp., Hershey, Pa.
GEO. H. STEEL, Ralston Purina Co., St. Louis, Mo.
- Program Committee**—FRED A. WEBB (*Chairman*), Borden-Wieland Div., The Borden Co., Chicago, Ill.
CHARLES F. FRANCKE, The Axton-Fisher Tobacco Co., Inc., Louisville, Ky.
R. C. HAVEN, Continental Baking Co., New York, N. Y.
HARRY KOLBOHN, Standard Brands, Kansas City, Mo.
RAY M. SEEKER, Anheuser-Busch, Inc., St. Louis, Mo.
H. B. TAYLOR, Northwestern Yeast Co., Chicago, Ill.
- Publicity Committee**—L. O. GREEN (*Chairman*), Wilson & Co., Inc., Chicago, Ill.
E. L. ANDERSON, Penn Fruit Co., Inc., Philadelphia, Pa.
C. G. BENDER, Kellogg Co., Battle Creek, Mich.
CLYDE T. STEPHENS, Interstate Cotton Oil Refining Co., Sherman, Texas.
- Statistics Committee**—H. D. LEMAR (*Chairman*), P. F. Petersen Baking Co., Omaha, Nebr.
R. W. MASTERS, Jos. S. Finch Co., Schenley, Pa.
LEON TUJAGUE, National Food Products Co., New Orleans, La.
- Visual Education Committee**—DOUGLAS PEARN (*Chairman*), Walgreen Drug Stores, Chicago, Ill.

RUTH E. CADE, A. E. Staley Manufacturing Co., Decatur, Ill.
 H. E. WHEELER, JR., Henry Heide, Inc., New York, N. Y.
 *Past General Chairman

Officers 1939-1940

General Chairman—FRED A. WEBB, Borden-Wieland Div., The Borden Co., Chicago, Ill.
Vice-Chairman for Program—H. J. ALDRICH, Spencer Kellogg & Sons, Inc., Buffalo, N. Y.
Vice-Chairman (Confections)—D. R. GRANT, Beech-Nut Packing Co., Canajoharie, N. Y.
Secretary—D. M. CLARK, Society of Grain Elevator Superintendents of North America, Chicago, Ill.

News Letter Committee—ROY L. ROLLINS (*Chairman*), A. E. Staley Manufacturing Co., Decatur, Ill.

E. L. ANDERSON, Penn Fruit Co., Inc., Philadelphia, Pa.

HUGO A. KLEMM, Industrial Commission of Wisconsin, Madison, Wis.

ROBERT B. MCDADE, Atlantic Sugar Refineries, Ltd., St. John, N. B., Canada

C. F. MOBERG, Kraft Cheese Co., Chicago, Ill.

Program Committee—H. J. ALDRICH (*Chairman*), Spencer Kellogg & Sons, Inc., Buffalo, N. Y.

C. G. BENDER, Kellogg Co., Battle Creek, Mich.

*S. B. HORRELL, Carey Salt Co., Hutchinson, Kansas

ROGER A. GRANT, Asheville Baking Co., Inc., Asheville, N. C.

D. E. PRICE, Midwest Dairies, Inc., El Paso, Texas

A. E. SINCLAIR, Kingan & Co., Indianapolis, Ind.

Membership Committee—D. R. GRANT (*Chairman*), Beech-Nut Packing Co., Canajoharie, N. Y.

*C. W. DEMPSEY, The Liquid Carbonic Corp., Chicago, Ill.

JOHN H. REICH, C. D. Kenny Co., Baltimore, Md.

H. G. SCHAFFNER, Schaffner Bros. Co., Erie Pa.

CLYDE T. STEPHENS, Interstate Cotton Oil Refining Co., Inc., Sherman, Texas

D. H. THOMAS, Utah-Idaho Sugar Co., Salt Lake City, Utah

Publicity Committee—H. B. TAYLOR (*Chairman*), Northwestern Yeast Co., Chicago, Ill.

M. O. ANDERSON, King's Packing Co., Nampa, Idaho

C. MEDINA, Bamby Bakers, Tampa, Florida

Statistics Committee—C. A. LINDER (*Chairman*), Booth Fisheries Corp., Chicago, Ill.

IRVING BEALL, Channel Pie Shops, Sacramento, Calif.

F. W. BRUCE, Southern Grocery Stores, Inc., Atlanta, Ga.

*W. A. SULLIVAN, Loose-Wiles Biscuit Co., Kansas City, Mo.

Health Committee—DR. WILMAR H. SCHULZE (*Chairman*), Bureau of Environmental Hygiene, Health Dept., Baltimore, Md.

A. L. BROWN, Post Products Div. of General Foods Corp., Battle Creek, Mich.

L. E. STEINER, Pabst Brewing Co., Milwaukee, Wis.

Poster Committee—WM. F. CRAWFORD (*Chairman*), Bayuk Cigars, Inc., Philadelphia, Pa.

RUTH E. CADE, A. E. Staley Manufacturing Co., Decatur, Ill.

E. W. CARROLL, Dr. Pepper Bottling Co., Memphis, Tenn.

ARMAND HECHT, Hecht Bakery, Bristol, Tenn.

B. NOVO, American Molasses Co., Brooklyn, N. Y.

Safe Practices Pamphlet Committee—GEO. H. STEEL (*Chairman*), Ralston Purina Co., St. Louis, Mo.

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DOUGLAS PEARN, Walgreen Drug Stores, Chicago, Ill.

H. C. PHILLIPS, Schenley Products Co., New York, N. Y.

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Dairy Products Committee Chairman—E. G. QUESNEL, The Borden Co., New York, N. Y.
Milling Committee Chairman—GEO. T. PECKHAM, JR., Clinton Co., Clinton, Iowa
Beverage Bottlers, Brewers & Distillers Committee Chairman—RAY M. SEEKER, Anheuser-Busch, Inc., St. Louis, Mo.
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Past General Chairman

TUESDAY AFTERNOON SESSION

October 17, 1939

The first session of the Food Section was called to order by General Chairman S. B. Horrell, Superintendent, Carey Salt Company, Hutchinson, Kan., who presided. After making a comprehensive report of the ac-

tivities of the Section during the past year, Chairman Horrell proceeded with the election of officers for the Section, a list of whom is given above. He then introduced the program of speakers.

Syphilis Control and Its Relation to the Food Industry

By ALBERT E. RUSSELL, M.D., F.A.C.P.

Surgeon in Charge, Office of Syphilis Control in Industry, U. S. Public Health Service, Chicago

The industries concerned with food production, distribution and dispensing function under certain laws and regulations in each state which will assure the delivery of wholesome food to the consumers. Special precautions are taken in the case of certain diseases which could be transmitted by foodstuffs such as tuberculosis, trichinosis, typhoid, dysentery, etc. Since the advent of the national campaign against venereal diseases there has been much concern over the possibility of the spread of these diseases through foods. In considering this subject, I will discuss first some of the general facts about the disease syphilis and its mode of transmission, and then its particular relationship to the food industry.

What Is Syphilis?

Syphilis is a disease which may be contracted through infection or heredity. Dr. Parran, Surgeon General of the U. S. Public Health Service, describes it in his book *Shadow on the Land*, as follows:

"Syphilis is a contagious disease. It is one of the most important which afflicts

man, because if untreated or poorly treated it disables and kills many people. There is reason to believe that if all conditions due to syphilis were reported as such it would be found to be the leading cause of death in the United States.

"Syphilis is caused by a delicate spiral organism called the spirochete. Except when acquired before birth, the infection enters the body through the skin or mucous surfaces by direct contact with open lesions (sores) or with articles recently soiled by spirochete-laden secretions. The spirochete does not pass through the unbroken skin; but any break or scratch, no matter how microscopic, gives it prompt entry. A mucous surface, such as the lining of the mouth or the genital tract, offers less resistance than skin. Even though the mucous membrane may be intact, the spirochete may wriggle through it in an hour or two. During this time the organism is in a vulnerable position, however; soap and water, drying and mild chemicals will kill it. But if there is a break in skin or mucous membrane, the spirochete dives under surface almost immediately.

Marine Section

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Advisory Committee (Active Past General Chairmen)—E. C. HOLDEN, JR. (*Chairman*), United States P. & I. Agency, Inc., New York, N. Y.

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 J. A. RUMSEY, Standard Oil Co. of Calif., Richmond, Calif.
 A. O. WOLL, General Petroleum Corp. of Calif., Terminal Island, Calif.
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 H. L. SEWARD, Yale University, New Haven, Conn.
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 The Jarka Corp., New York, N. Y.
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 L. R. SORENSON, Newport News Shipbuilding & Dry Dock Co., Newport News, Va.
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 L. RELYEA, New York Central Lines, New York, N. Y.
Ship Classification Society—J. L. LUCKENBACH, American Bureau of Shipping, New York, N. Y.
Employers' Associations—F. C. GREGORY, Waterfront Employers' Assn., San Francisco, Calif.
U. S. Employees' Compensation Commission—E. P. HERGES, U. S. Employees' Compensation Commission, Washington, D. C.
U. S. Engineers—MAJOR H. B. VAUGHAN, JR., Corps of Engineers, War Dept., Washington, D. C.
Legal—CARL F. VANDER CLUTE, Admiralty Attorney, New York, N. Y.

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Vice-General Chairman (Coastal Regions)—Rear Admiral R. H. WAESCHE, United States Coast Guard, Washington, D. C.

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- Editor, "Marine Safety" News Letter**—HENRY BLACKSTONE, United States P. & I. Agency, Inc., San Francisco, Calif.
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- Vice-Chairman, Gulf District**—L. B. PATE, Mississippi Shipping Co., Inc., New Orleans, La.
- Chairman, Great Lakes District**—W. C. GARBUTT, Pittsburgh Steamship Co., Cleveland, Ohio.
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- Chairman, Committee on Maritime Associations**—C. H. CALLAGHAN, The Maritime Association of the Port of New York, New York, N. Y.
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- Chairman, Stevedoring Committee**—R. P. HERGES, U. S. Employees' Compensation Commission, Washington, D. C.

MONDAY AFTERNOON SESSION

October 16, 1939

The first session of the Marine Section was called to order by General Chairman Byron O. Pickard, Chief Safety Engineer, Waterfront Employers Association of the Pacific Coast, San Francisco. Chairman Pickard made a lengthy report of the activities of the Section during the past year, reviewing the advances of the Section, and

especially emphasizing the good work of various committee chairmen and other groups. Each of the sub-committee chairmen had provided a special report. After receiving the report of the Nominating Committee and formal election of officers for the current year, the Chairman introduced the first speaker.

Meat Packing, Tanning and Leather Industries Section

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News Letter Editor—JOHN R. BYERLY, Armour & Co., Omaha, Nebr.
Engineering Committee Chairman—C. W. SLOAN, Swift & Co., Chicago, Ill.
Poster Committee Chairman—JOHN MCARDLE, Armour & Co., Kansas City, Kansas.
Program Committee Chairman—CHARLES E. BARRY, Swift & Co., Chicago, Ill.
Publicity Committee Chairman—*HENRY D. TEFFT, Institute of American Meat Packers, Chicago, Ill.

Statistics Committee Chairman—WALTER WEBB, Armour & Co., Chicago, Ill.

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*E. E. DREWS, Libby, McNeill & Libby, Chicago, Ill.
MAURY HOPKINS, Wilson & Co., Inc., Chicago, Ill.
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*W. F. McCLELLAN, Armour & Co., Chicago, Ill.
*WILSON PALMER, United Shoe Machinery Corp., Beverly, Mass.
R. R. ROACH, Geo. A. Hormel & Co., Austin, Minn.
*A. E. SINCLAIR, Kingan & Co., Indianapolis, Ind.
*Past General Chairman

Officers 1939-1940

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Vice-Chairman in Charge of Membership—GLENN U. BONSER, Elk Tanning Co., Ridgway, Pa.
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*E. E. DREWS, Libby, McNeill & Libby, Chicago, Ill.
H. V. E. HUNTER, Hunter Packing Co., East St. Louis, Ill.
C. B. MAGRUDER, The Wm. Schluderberg-T. J. Kurdle Co., Baltimore, Md.
C. M. MENSE, Lehigh Safety Shoe Co., Allentown, Pa.

*WILSON PALMER, United Shoe Machinery Corp., Beverly, Mass.

R. R. ROACH, Geo. A. Hormel & Co., Austin, Minn.

*Philip G. RHOADS, J. E. Rhoads & Sons, Wilmington, Del.

*A. E. SINCLAIR, Kingan & Co., Indianapolis, Ind.

*Past General Chairman

TUESDAY AFTERNOON SESSION

October 17, 1939

The Meat Packing, Tanning and Leather Industries sessions opened with General Chairman Phillip G. Rhoads, Plant Manager, J. E. Rhoads & Sons, Wilmington,

Del., presiding. After welcoming the delegates and commenting briefly on the activities of the Section during the past year, he introduced the scheduled speakers.

Safety from the Viewpoint of the State Department of Labor

By JAMES L. GERON

Director, Division of Inspection,
New York State Department of Labor, New York City

The importance of the Tanning and Leather Industry, relative to its commercial and industrial positions, compared to other leading industries in the United States, may be realized by an examination of the United States Department of Commerce Census of Manufactures of 1937. (Release May 11th, 1939.)

their pamphlet "Accident Rates in the Tanning and Leather Industry 1938" a clear and concise report of the accident experience of the industry. As this is the latest tabulation and information available, I will quote and comment on such parts as are important to my subject:

All United States Industries in 1937

	All Industries	Leather Industry
Number of establishments.....	116,794	3,361
Number of wage earners.....	8,569,231	331,955
Wages	\$10,112,882,711	\$ 311,292,645
Values of products.....	60,712,871,737	1,491,512,631
Value added by manufacturing.....	25,173,538,913	592,043,471

In the manufacturing processes of this industry there are industrial hazards that are peculiar to the industry. There are machinery, equipment and processes that are especially adapted to the industry. There are also machinery, equipment and processes that are the same as are used in many other industries. The problem of eliminating industrial injuries is no more difficult than it is in many other industries. But to accomplish satisfactory results, means the application of constant vigilance, as well as intelligent application of safeguarding and safe practices.

The National Safety Council has given in

"1938 injury rates for the industry averaged 17.38 for frequency and 0.59 for severity. The frequency rate is well above the average for all industries but the severity rate is below the average for industry as a whole."

"In comparison with 1937, frequency is down 13 percent and severity 56 percent. The improvement in frequency is less than the average decrease for all industries improvement."

"Since 1926 the industry has reduced frequency 58 percent and severity 34 percent. The improvement in each rate is

less than the whole."

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Metals Section

Officers 1938-1939

- General Chairman**—MELL E. TRAMMELL, Republic Steel Corp., Alabama City, Ala.
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 - B. T. DYE, Republic Steel Corp., Warren, Ohio.
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Statistics Committee—JOHN P. O'ROURK (*Chairman*), Bethlehem Steel Co., Sparrows Point, Md.
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 *E. F. BLANK, Jones & Laughlin Steel Corp., Pittsburgh, Pa.
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 R. H. FERGUSON, Republic Steel Corp., Cleveland, Ohio.
 *GEORGE T. FONDA, Weirton Steel Co., Weirton, W. Va.
 S. E. HAWKES, Macwhyte Co., Kenosha, Wis.
 *H. G. HENSEL, The Youngstown Sheet & Tube Co., Chicago, Ill.
 *F. A. LAUERMAN, Republic Steel Corp., Chicago, Ill.

P. R. McMAHON, Superior Steel Corp., Carnegie, Pa.

*J. A. NORTHWOOD, Bethlehem Steel Co., Sparrows Point, Md.

*J. A. OARTEL, Carnegie-Illinois Steel Corp., Pittsburgh, Pa.

H. L. REBRASSIER, Wheeling Steel Corp., Wheeling, W. Va.

JACOB L. RIDINGER, Inland Steel Co., East Chicago, Ind.

*ROBERT L. SCHMITT, Louisville Car Wheel & Railway Supply Co., Louisville, Ky.

*MELL E. TRAMMELL, Republic Steel Corp., Alabama City, Ala.

*J. A. VOSS, Republic Steel Corp., Cleveland, Ohio.

FRED E. WARR, Carnegie-Illinois Steel Corp., Pittsburgh, Pa.

*Past General Chairman

MONDAY AFTERNOON SESSION

October 16, 1939

The first session of the Metals Section was called to order by General Chairman Mell E. Trammell, Safety Supervisor, Republic Steel Corporation, Alabama City, Alabama, who presided. Chairman Tram-

mell made a report of Sectional activities during the past year, especially mentioning the work of the various committees, and then proceeded with the schedule of formal papers, as follows:

Coordination of Engineering and Safety

By J. M. HASSLER

District Chief Engineer, Republic Steel Corporation, Birmingham, Ala.

Engineering fundamentally is based on strengths of materials. Engineers have learned that a square inch cross-section of a certain analysis steel will support a definite load of certain fixed spans. As the span increases, the load that the member will carry decreases.

Engineering today, other than research, is an exact science. There is no guess-work in it whatsoever. Facts are known and if used with discretion will keep one out of trouble.

After strengths of materials were thoroughly proved and the exact load that a member would support was known, it was found, by bitter experience, that this was not enough. Thoughtless persons would exceed the load. Moving loads were substituted for a designed dead load and the design failed. This was not because of faulty engineering, but because of thoughtlessness of an individual that was unfamiliar with the basic laws of engineering.

This condition developed in the engineering profession the origination of the now

famous "Factor of Five." This simply means that if a load is 1,000 pounds, and for the span needed will require a 10 pound section steel member, then it should be built five times as strong or as big, to take care of the fools that will come along and place five times the load limit on it.

You have seen bridges that have signs on them "Safe Load Limit Five Tons." Stand by that same bridge for a while and watch. Soon a thoughtless, don't care, ignorant individual comes along with a load of probably 15 tons and runs over the bridge. As a rule he gets safely across. The "Factor of Five" has saved his hide.

Basically engineering is correlated with safety. The very foundation and breadth of engineering success is based on safety. Engineers guard against failure with their knowledge—not by guess-work. They know positively what loads will be supported, what wind loads will develop at certain velocities, what shocks of moving or live loads will do. They know what to do to make their structure safe.

Mining Section

Officers 1938-1939

General Chairman—L. C. CAMPBELL, The Koppers Coal Co., Pittsburgh, Pa.
Vice-Chairman—ANGUS D. CAMPBELL, McIntyre Porcupine Mines, Ltd., Schumacher, Ont., Canada.
Vice-Chairman—W. D. HASELTON, Pickands Mather & Co., Duluth, Minn.
Secretary and News Letter Editor—DANIEL HARRINGTON, U. S. Bureau of Mines, Washington, D. C.
Poster and Slide Committee Chairman—J. J. FORBES, U. S. Bureau of Mines, Pittsburgh, Pa.
Publicity Committee Chairman—M. R. BUDD, The Explosives Engineer, Wilmington, Del.
Statistics Committee Chairman—W. W. ADAMS, U. S. Bureau of Mines, Washington, D. C.

Members at Large—

*G. J. BARRETT, Oliver Iron Mining Co., Duluth, Minn.
 THOMAS ALLEN, State Inspector of Coal Mines, Denver, Colo.
 *J. W. ALT, Calumet & Hecla Consolidated Copper Co., Calumet, Mich.
 *P. M. ARTHUR, American Zinc Co. of Tenn., Mascot, Tenn.
 FRED E. BEDALE, Consolidated Coal Co., Inc., Fairmont, W. V.
 JOHN L. BOARDMAN, Anaconda Copper Mining Co., Butte, Mont.
 *W. H. COMINS, National Lead Co., Potosi, Mo.
 M. L. COULTER, Clearfield Bituminous Coal Corp., Indiana, Pa.
 *C. M. FELLMAN, Montreal Mining Co., Montreal, Wis.
 *C. W. GIBBS, Harwick Coal & Coke Co., Pittsburgh, Pa.
 *R. DAWSON HALL, "Coal Age," McGraw-Hill Publishing Co., Inc., New York, N. Y.
 H. T. HARPER, Tennessee Copper Co., Copperhill, Tenn.
 *H. C. HENRIE, Phelps Dodge Corp., Bisbee, Ariz.
 *RUSH N. HOSLER, Pennsylvania Compensation Insurance Rating & Inspection Bureau, Harrisburg, Pa.
 *C. F. KECK, Jamison Coal & Coke Co., Latrobe, Pa.
 *THOMAS E. LIGHTFOOT, The Koppers Coal Co., Pittsburgh, Pa.
 *GEO. MARTINSON, Pickands Mather & Co., Cleveland, Ohio.
 *WILLIAM G. METZGER, Hudson Coal Co., Scranton, Pa.
 D. D. MOFFAT, Utah Copper Co., Salt Lake City, Utah.
 V. O. MURRAY, The Union Pacific Coal Co., Rock Springs, Wyo.
 JOHN T. RYAN, Mine Safety Appliances Co., Pittsburgh, Pa.
 N. P. RHINEHART, West Virginia State Dept. of Mines, Charleston, W. Va.
 R. H. SEIP, The New Jersey Zinc Co., Franklin, N. J.
 L. T. SICKA, St. Joseph Lead Co., Bonne Terre, Mo.
 O. V. SIMPSON, Alabama By-Products Corp., Flat Creek, Ala.
 JOHN TREWEEK, Homestake Mining Co., Lead, S. D.
 *HOWARD I. YOUNG, American Zinc Lead & Smelting Co., St. Louis, Mo.
 *Past General Chairman

Officers 1939-1940

General Chairman—ANGUS D. CAMPBELL, McIntyre Porcupine Mines, Ltd., Schumacher, Ont., Canada.
Vice-Chairman—CADWALLADER EVANS, JR., The Hudson Coal Co., Scranton, Pa.
Vice-Chairman—W. D. HASELTON, Pickands Mather & Co., Duluth, Minn.

Vice-Chairman—*N. P. RHINEHART, West Virginia State Dept. of Mines, Charleston, W. Va.

Secretary and News Letter Editor—DANIEL HARRINGTON, U. S. Bureau of Mines, Washington, D. C.

Engineering Committee Chairman—JOHN TREWEEK, Homestake Mining Co., Lead, S. D.

Health Committee Chairman—P. M. ARTHUR, American Zinc Company of Tennessee, Mascot, Tenn.

Membership Committee Chairman—HEATH CLARK, Rochester & Pittsburgh Coal Co., Indiana, Pa.

Poster and Slide Committee Chairman—J. J. FORBES, U. S. Bureau of Mines, Pittsburgh, Pa.

Statistics Committee Chairman—W. W. ADAMS, U. S. Bureau of Mines, Washington, D. C.

Entertainment Committee Chairman—J. T. RYAN, Mine Safety Appliances Company, Pittsburgh, Pa.

Members at Large—

THOMAS ALLEN, State Inspector of Coal Mines, Denver, Colo.

*J. W. ALT, Calumet & Hecla Consolidated Copper Co., Calumet, Mich.

*G. J. BARRETT, Oliver Iron Mining Co., Duluth, Minn.

FRED E. BEDALE, Consolidation Coal Co., Inc., Fairmont, W. Va.

JOHN L. BOARDMAN, Anaconda Copper Mining Co., Butte, Mont.

*L. C. CAMPBELL, The Koppers Coal Co., Pittsburgh, Pa.

*W. H. COMINS, National Lead Co., Potosi, Mo.

M. L. COULTER, Clearfield Bituminous Coal Corp., Indiana, Pa.

C. M. FELLMAN, Montreal Mining Co., Montreal, Wis.

*C. W. GIBBS, Harwick Coal & Coke Co., Pittsburgh, Pa.

*R. DAWSON HALL, "Coal Age," McGraw-Hill Publishing Co., Inc., New York, N. Y.

H. T. HARPER, Tennessee Copper Co., Copperhill, Tenn.

*H. C. HENRIE, Phelps Dodge Corp., Bisbee, Ariz.

C. F. KECK, Jamison Coal & Coke Co., Latrobe, Pa.

*THOMAS E. LIGHTFOOT, The Koppers Coal Co., Pittsburgh, Pa.

*GEO. MARTINSON, Pickands Mather & Co., Cleveland, Ohio.

C. E. MCKNIGHT, Lake Shore Gold Mines, Ltd., Kirkland Lake, Ont., Canada.

*WILLIAM G. METZGER, Hudson Coal Co., Scranton, Pa.

D. D. MOFFAT, Utah Copper Co., Salt Lake City, Utah.

V. O. MURRAY, The Union Pacific Coal Co., Rock Springs, Wyoming.

R. H. SEIP, The New Jersey Zinc Co., Franklin, N. J.

L. T. SICKA, St. Joseph Lead Co., Bonne Terre, Mo.

O. V. SIMPSON, Koppers Coal Co., Pittsburgh, Pa.

*HOWARD I. YOUNG, American Zinc Lead & Smelting Co., St. Louis, Mo.

*Past General Chairman

MONDAY AFTERNOON SESSION

October 16, 1939

The first session of the Mining Section was called to order by General Chairman L. C. Campbell, Assistant to the Vice-President, The Koppers Coal Company, Pittsburgh, Pa., who presided. Chairman Campbell, in his opening remarks, briefly re-

viewed some of the activities of the Section and its committees during the past year and then introduced the scheduled speakers as listed in the program. The general topic for discussion in the various papers presented was, "The Executive Viewpoint."

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Paper and Pulp Section

Officers 1938-1939

- General Chairman**—F. A. ROBINSON, Kimberly-Clark Corp., Neenah, Wis.
Vice-Chairman in Charge of Membership—D. B. CHANT, Ontario Pulp & Paper Makers' Safety Assn., Toronto, Ont., Canada.
Secretary & Program Committee Chairman—CLAYTON O. BRAATZ, Marathon Paper Mills Co., Rothschild, Wis.
News Letter Editor—L. R. SIMPSON, The Brown Paper Mill Co., Inc., Monroe, La.
Contest Committee—A. SCOTT DOWD (*Chairman*), The Paper Industry & Paper World, Chicago, Ill.
B. D. ROGERS, Bird & Son, Inc., East Walpole, Mass.
F. H. ROSEBUSH, Nekoosa-Edwards Paper Co., Port Edwards, Wis.
Data Sheet Committee—R. G. MCGIVNEY (*Chairman*), Oswego Falls Corp., Fulton, N. Y.
J. J. HASTINGS, Port Huron Sulphite & Paper Co., Port Huron, Mich.
H. P. HEUBNER, The Flintkote Co., New York, N. Y.
JAMES W. TOWSON, West Virginia Pulp & Paper Co., New York, N. Y.
Engineering-Safe Practice Committee—ARTHUR MURRAY (*Chairman*), Container Corp. of America, Chicago, Ill.
FRANCIS T. ROONEY, George Banta Publishing Co., Menasha, Wis.
M. W. DUNDORE, Beloit Iron Works, Beloit, Wis.
G. R. VAUGHAN EVANS, Anglo-Newfoundland Development Co., Ltd., Grand Falls, Newfoundland.
Health Committee Chairman—DR. LOUIS H. FRECHTLING, Champion Paper & Fibre Co., Hamilton, Ohio.
Statistics Committee Chairman—FRED W. BRAUN, Employers Mutuals, Wausau, Wis.
Publicity Committee—E. W. PATTON (*Chairman*), The Lawrence Paper Co., Lawrence, Kansas.
C. O. HOLMER, Minnesota & Ontario Paper Co., Minneapolis, Minn.
D. A. McALARY, Fraser Companies, Ltd., Edmundston, N. B., Canada.
ROLAND W. RICHARDSON, The Gardner-Richardson Co., Lockland, Ohio.
Safety Instruction Card Committee—ERNEST AUGUSTUS (*Chairman*), The Mead Corp., Chillicothe, Ohio.
G. J. BIENVENU, Gaylord Container Corp., Bogalusa, La.
S. H. BROWN, Union Bag & Paper Corp., New York, N. Y.
ARTHUR E. WINSLOW, Hollingsworth & Whitney Co., Waterville, Maine.
Visual Education Committee—D. T. MEANY (*Chairman*), New Brunswick International Paper Co., Dalhousie, N. B., Canada.
DON E. McDOWELL, Kalamazoo Vegetable Parchment Co., Parchment, Kalamazoo Co., Mich.
WALTER E. STRONG, Marathon Paper Mills Co., Menasha, Wis.
K. G. URFER, Hawley Pulp & Paper Co., Oregon City, Oregon.
Past General Chairmen—
GEORGE J. ADAMS, International Paper Co., Glens Falls, N. Y.
ROBERT M. ALTMAN, Marathon Paper Mills Co., Rothschild, Wis.
KENNETH L. FAIST, The Champion Paper & Fibre Co., Hamilton, Ohio.
WALTER A. GLEASON, Hammermill Paper Co., Erie, Pa.
E. E. GRANT, The Crystal Tissue Co., Middletown, Ohio.
M. G. HOYMAN, Kimberly-Clark Corp., Neenah, Wis.
G. W. PHILLIPS, The Champion Paper & Fibre Co., Canton, N. C.
J. J. PLZAK, Consolidated Water Power & Paper Co., Wisconsin Rapids, Wis.

SAMUEL PRUYN, Finch, Pruyn & Co., Inc., Glens Falls, N. Y.
 S. F. SHATTUCK, Kimberly-Clark Corp., Neenah, Wis.
 GEO. E. WILLIAMSON, Strathmore Paper Co., West Springfield, Mass.

Officers 1939-1940

General Chairman—D. B. CHANT, Ontario Pulp & Paper Makers' Safety Assn., Toronto, Ont., Canada.
Vice-Chairman in Charge of Membership—CLAYTON O. BRAATZ, Marathon Paper Co., Rothschild, Wis.
Secretary and Program Committee Chairman—C. O. HOLMER, Minnesota & Ontario Paper Co., Minneapolis, Minn.
News Letter Editor—D. A. McALARY, Fraser Companies, Ltd., Madawaska, Maine.
Contest Committee—A. SCOTT DOWD (*Chairman*), Fritz Publications, Inc., Chicago, Ill.
 B. D. ROGERS, Bird & Son, Inc., East Walpole, Mass.
 F. H. ROSEBUSH, Nekoosa-Edwards Paper Co., Port Edwards, Wis.
Data Sheet Committee—R. G. McGIVNEY (*Chairman*), Oswego Falls Corp., Fulton, N. Y.
 J. J. HASTINGS, Port Huron Sulphite & Paper Co., Port Huron, Mich.
 D. T. MEANY, New Brunswick International Paper Co., Dalhousie, N. B., Canada.
 JAMES W. TOWSEN, West Virginia Pulp & Paper Co., New York, N. Y.
Engineering-Safe Practices Committee—ARTHUR MURRAY (*Chairman*), Container Corporation of America, Chicago, Ill.
 M. W. DUNDORE, Beloit Iron Works, Beloit, Wis.
 FRANCIS T. ROONEY, George Banta Publishing Co., Menasha, Wis.
 G. R. VAUGHAN-EVANS, Anglo-Newfoundland Development Co., Ltd., Grand Falls, Newfoundland.
Health Committee Chairman—DR. LOUIS H. FRECHTLING, Champion Paper & Fibre Co., Hamilton, Ohio.
Statistics Committee Chairman—FRED W. BRAUN, Employers Mutuals, Wausau, Wis.
Publicity Committee—WALTER E. STRONG (*Chairman*), Menasha Products Div., Marathon Paper Mills Co., Menasha, Wis.
 A. S. COOK, Quebec Pulp & Paper Safety Assn., Quebec, Canada.
 M. L. MAMMEN, Zellerbach Corp. & Rayonier, Inc., Portland, Ore.
 ROLAND W. RICHARDSON, The Gardner-Richardson Co., Lockland, Ohio.
Safety Instruction Card Committee—R. W. CROUCHER (*Chairman*), Minnesota & Ontario Paper Co., International Falls, Minn.
 ERNEST AUGUSTUS, The Mead Corp., Chillicothe, Ohio.
 G. J. BIENVENU, Gaylord Container Corp., Bogalusa, La.
 S. H. BROWN, Union Bag & Paper Corp., New York, N. Y.
 H. P. HEUBNER, The Flintkote Co., New York, N. Y.
 ARTHUR E. WINSLOW, Hollingsworth & Whitney Co., Waterville, Me.
Visual Education Committee—JULIUS A. DRAPER (*Chairman*), Consolidated Paper Co., Ltd., Grand'Mere, P. Q. Canada.
 DON E. McDOWELL, Kalamazoo Vegetable Parchment Co., Parchment, Kalamazoo County, Mich.
 D. S. GARBER, Hummel & Downing Co., Milwaukee, Wis.
 J. R. LATTER, Anglo-Canadian Pulp & Paper Mills, Ltd., Quebec, Canada.
 L. R. SIMPSON, The Brown Paper Mill Co., Inc., Monroe, La.
 K. G. URFER, Hawley Pulp & Paper Co., Oregon City, Ore.
Past General Chairman—
 GEORGE J. ADAMS, International Paper Co., Glens Falls, N. Y.
 ROBERT M. ALTMAN, Marathon Paper Mills Co., Rothschild, Wis.
 KENNETH L. FAIST, The Champion Paper & Fibre Co., Hamilton, Ohio.

WALTER A. GLFASON, Hammermill Paper Co., Erie, Pa
 E. E. GRANT, The Crystal Tissue Co., Middletown, Ohio
 M. G. HOYMAN, Kimberly-Clark Corp., Neenah, Wis
 G. W. PHILLIPS, The Champion Paper & Fibre Co., Canton, N. C.
 J. J. PLZAK, Consolidated Water Power & Paper Co., Wisconsin Rapids, Wis
 SAMUEL PRUYN, Finch, Pruyne & Co., Inc., Glens Falls, N. Y.
 S. F. SHATTUCK, Kimberly-Clark Corp., Neenah, Wis.
 GEORGE E. WILLIAMSON, Strathmore Paper Co., West Springfield, Mass.

MONDAY AFTERNOON SESSION

October 16, 1939

The opening session of the Paper and Pulp Section convened with Vice-Chairman D. B. Chant, Ontario Paper and Pulp Makers' Safety Association, Toronto, Canada, presiding.

CHAIRMAN CHANT: At this, our first session of the Congress, let us follow the practice, which I think is now two or three years old, of introducing ourselves to each other. This will help to make us all feel we are members together in this great organization, with a common

interest in our common safety problems

(Each member present arose and stated his name and company affiliation.)

CHAIRMAN CHANT: We are happy to note a number of visitors with us this afternoon. I hope they will feel welcome, and will obtain something of interest and value from the discussion.

The first item on the program will be a report on the past year's progress and activities of the section.

Progress and Activities of the Section

By D. B. CHANT

Acting General Chairman, Paper and Pulp Section, N.S.C.

In attempting to review for you the various activities of our Section I shall try to tell the story briefly, and I ask you to remember that this duty has very recently devolved upon me.

In Memoriam—During the year our Section has suffered the loss of three of its staunchest supporters in the persons of Edward B. Fritz, Fred A. Robinson and Walter J. Brennan. The late Mr. Fritz had much to do with the inauguration several years ago of the Annual Safety Contests among mills of the Section. He always took a keen interest in our work and was a familiar figure at the Section luncheons where he derived deep satisfaction from personally awarding the major trophy to the successful company.

Fred Robinson's contribution to the progress of this Section was invaluable. His sincerity of purpose, sound judgment, great

ability and willingness to devote his time and energy in the service of his fellow-men marked him as a natural leader, while his splendid personality and sterling character won him a host of friends to whom his recent and unexpected death came as a terrible shock. As General Chairman for the current year he worked hard to promote the best interests of the Section and gave constant encouragement and wise counsel to all its committees and officers.

Walter J. Brennan's death occurred unexpectedly on October 4th, 1939, at Augusta, Maine. Formerly connected with the St. Croix Paper Company, Walter took an active part in the work of this Section until a few years ago and served as its General Chairman for 1930-31. Latterly, he has been Executive Secretary for the Associated Industries of Maine. His capacity for work, his wide experience and the conscientious

ingress

great as our on-the-job accidents. A gentleman says this morning that a director for a large corporation has twenty-three employees. The proportion was 36 fatalities in a period among some 90,000 employees on-the-job accidents, whereas on-the-job accidents they had 203

those 203 fatalities cost the company a great deal of money.

A speaker at the same session gave an instance where a man was injured in an off-the-job accident. He had no money to pay his hospital bill, and his company took care of him. Many of the representatives have done the same thing. I think our Section might well discuss this between this meeting and the next.

The proper committee for this might try to collect data on what our off-time accidents are and what we can do to put on a program of education on those lines, so that our members not only practice safety on the job but off the job as well. It allows have records, check them and see what those accidents cost.

IAN CHANT: That is a good idea. One of my own group has been hit by the off-the-job accidents. I have back tenders, a third hand mechanic. They were coming down the road fifty miles down the road driving through a fog. Not only had a fatality in the morning, but you can figure out that that accident cost the company a great deal of money. It certainly cost plenty to train him and it cost plenty to replace him.

PER: Before we adjourn, I think it would be in order for this Section to have a vote of thanks to express appreciation of the fine way in which our Chairman, has taken the sessions on such very short notice.

It was numerously seconded and carried unanimously.

Petroleum Section

Officers 1938-1939

- General Chairman*—J. H. BROWN, Tide Water Associated Oil Co., New York, N. Y.
News Letter Editor—R. S. HUFFMAN, Oklahoma Natural Gas Company, Tulsa, Okla.
Engineering Committee Chairman—G. E. CARPENTER, Humble Oil & Refining Co., Houston, Texas.
Health Committee Chairman—DR. JAMES W. LONG, Gulf Oil Corp., Port Arthur, Texas.
Industrial Data Sheet Committee Chairman—H. E. DISCHINGER, Shell Oil Co., Inc., St. Louis, Mo.
Program Committee Chairman—H. W. BOGGESE, Sinclair Prairie Oil Co., Tulsa, Okla.
Publications Committee Chairman—J. C. YOUNG, Tide Water Associated Oil Co., Tulsa, Okla.
Statistics Committee Chairman—HADLEY H. MYERS, Sinclair Prairie Oil Co., Tulsa, Okla.
Visual Education Committee Chairman—E. D. MURPHEY, Mid-Continent Petroleum Corp., Tulsa, Okla.
Atlantic Division Chairman—A. M. MCKEAN, Pan American Petroleum & Transport Co., New York, N. Y.
Great Lakes Division Chairman—J. C. BERND, Sinclair Refining Co., East Chicago, Ind.
Gulf Division Chairman—T. S. MAFFITT, JR., Houston Oil Co. of Texas, Houston, Texas.
Mid-Continent Division Chairman—H. T. MARKEE, Phillips Petroleum Co., Bartlesville, Okla.
Pacific Coast Division Chairman—A. L. ANDERSON, Standard Oil Co. of Calif., San Francisco, Calif.
Rocky Mountain Division Chairman—BOYD V. OSBORN, Standard Oil Co. (Ind.), Casper, Wyoming.
Past General Chairmen—
R. W. BLACK, Standard Oil Co. of N. J., Elizabeth, N. J.
H. W. BOGGESE, Sinclair Prairie Oil Co., Tulsa, Okla.
R. S. BONSB, Standard Oil Co. of N. J., New York, N. Y.
A. W. BREELAND, Lone Star Gas Co., Dallas, Texas.
V. R. CURRIE, The Texas Co., Houston, Texas.
R. E. DONOVAN, Standard Oil Co. of Calif., San Francisco, Calif.
C. L. HIGHTOWER, United Gas Pipe Line Co., Houston, Texas.
G. O. LOCKWOOD, Continental Casualty Co., Tulsa, Okla.
GEO. F. PRUSSING, Union Oil Co. of Calif., Los Angeles, Calif.
R. B. ROAPER, Humble Oil & Refining Co., Houston, Texas.
E. J. SENNE, Socony-Vacuum Oil Co., Inc., New York, N. Y.
C. W. SMITH, Standard Oil Co. (Ind.), Chicago, Ill.
D. J. WALLACE, Sinclair Prairie Oil Co., Tulsa, Okla.
Secretary—H. N. BLAKESLEE, American Petroleum Institute, New York, N. Y.

Officers 1939-1940

- General Chairman*—C. J. NOBMAN, Shell Oil Co., Inc., San Francisco, Calif.
Vice-Chairman for Production—H. T. MARKEE, Phillips Petroleum Co., Bartlesville, Okla.
Vice-Chairman for Pipelines—C. A. MILLER, The Texas Co., Houston, Texas
Vice-Chairman for Manufacturing—J. HOWARD MYERS, The Atlantic Refining Co., Philadelphia, Pa.

Vice-Chairman for Marketing—F. R. McLEAN, White Star Div., Socony-Vacuum Inc., Detroit, Mich.

News Letter Editor—H. B. WILLIAMS, Pan-American Refining Corp., Texas City, Tex.

Engineering Committee Chairman—J. P. SUTTON, Ohio Oil Co., Findlay, Ohio.

Health Committee Chairman—Dr. J. W. LONG, Gulf Oil Corp., Port Arthur, Tex.

Industrial Data Sheet Committee Chairman—H. E. DISCHINGER, Shell Oil Co., St. Louis, Mo.

Program Committee Chairman—J. H. BROWN, Tide Water Associated Oil Co., New York, N. Y.

Publication Committee Chairman—J. C. YOUNG, Tide Water Associated Oil Co., Tulsa, Okla.

Statistics Committee Chairman—HADLEY H. MYERS, Sinclair Prairie Oil Co., Tulsa, Okla.

Visual Education Committee Chairman—T. S. MAFFITT, JR., Houston Oil Co., Houston, Texas.

Atlantic Division Chairman—J. W. LORD, The Atlantic Refining Co., Philadelphia, Pa.

Great Lakes Division Chairman—FRANK HARRISON, Pure Oil Co., Chicago, Ill.

Gulf Division Chairman—W. I. KENT, Magnolia Petroleum Co., Dallas, Texas.

Mid-Continent Division Chairman—F. K. DALRYMPLE, Tide Water Associated Oil Co., Tulsa, Okla.

New England Division Chairman—JOHN W. WELCH, Cities Service Oil Co., Boston, Mass.

Pacific Coast Division Chairman—A. J. MARTINSON, California Petroleum Sales Co., Los Angeles, Calif.

Past General Chairmen—

R. W. BLACK, Standard Oil Co. of N. J., Elizabeth, N. J.

H. W. BOGGS, Sinclair Prairie Oil Co., Tulsa, Okla.

R. S. BOSSIE, Standard Oil Co. of N. J., New York, N. Y.

A. W. BRELAND, Lone Star Gas Co., Dallas, Texas.

J. H. BROWN, Tide Water Associated Oil Co., New York, N. Y.

V. R. CURRIE, 1622 California Ave., Houston, Texas.

R. E. DONOVAN, Standard Oil Co. of Calif., San Francisco, Calif.

C. L. HIGHTOWER, United Gas Pipe Line Co., Houston, Texas.

G. O. LOCKWOOD, Continental Casualty Co., Tulsa, Okla.

GEO. F. PRUSSING, Union Oil Co. of Calif., Los Angeles, Calif.

R. B. ROOPER, Humble Oil & Refining Co., Houston, Texas.

E. J. SENNE, Socony-Vacuum Oil Co., Inc., New York, N. Y.

C. W. SMITH, Standard Oil Co. (Ind.), Chicago, Ill.

D. J. WALLACE, Sinclair Prairie Oil Co., Tulsa, Okla.

Secretary—H. N. BLAKESLEE, American Petroleum Institute, New York, N. Y.

TUESDAY AFTERNOON SESSION

October 17, 1939

The opening session of the Petroleum Section was called to order by General Chairman J. H. Brown, Fire Protection Engineer, Tide Water Associated Oil Company, New York City, who presided. The first feature was a series of brief reports of sectional committee chairmen, as follows:

Sectional Activities, by General Chairman J. H. Brown.

For Pipelines, Chas. A. Miller, Chairman, Petroleum Section, and to Manager, The Texas Company, Houston, Texas.

For Production, C. J. Nobman, Chairman, Petroleum Section, and to Safety Department, Shell Oil Co., Inc., San Francisco.

Power Press Section

Officers 1938-1939

- General Chairman**—B. E. ROCKHOFF, Detroit Steel Products Co., Detroit, Mich.
Vice-Chairman for Exhibit—M. R. ZELDER, Edison General Electric Appliance Co., Inc., Chicago, Ill.
Vice-Chairman and Secretary—G. H. BERRY, Western Electric Co., Chicago, Ill.
News Letter Editor—L. W. LITRELL, Agfa Ansco Corp., Binghamton, N. Y.
Engineering Committee—LOUIS BORAKS (*Chairman*), Liberty Mutual Insurance Co., Boston, Mass.
 O. C. BOILEAU, RCA Manufacturing Co., Inc., Camden, N. J.
 F. W. FISKE, The Brewer-Titchener Corp., Cortland, N. Y.
Health Committee—DR. R. J. DEMOTTE (*Chairman*), Pullman-Standard Car Mfg. Co., Pullman, Chicago, Ill.
 E. E. GREENE, Timken Roller Bearing Co., Canton, Ohio.
Industrial Data Sheet Committee—*W. J. GRAVES (*Chairman*), Michigan Mutual Liability Co., Detroit, Mich.
 W. C. BAKER, Whiting Corp., Harvey, Ill.
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- P. G. HUNTER, Motor Wheel Corp., Lansing, Mich.
- G. A. KUECHENMEISTER, Dominion Forge & Stamping Co., Walkerville, Ont., Canada
- T. O. MEISNER, American Can Co., Chicago, Ill.
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- E. J. WALLMAN, Great Lakes Forge Co., Chicago, Ill.
- Past General Chairman

WEDNESDAY AFTERNOON SESSION

October 18, 1939

Joint Meeting with the Automotive and Machine Shop Section

(The Report of this Session will be found on Page 252 of this Volume)

THURSDAY AFTERNOON SESSION

October 19, 1939

Power Press Safety—Panel Discussion

The session was called to order by General Chairman B. E. Rockhoff, Development Department, Detroit Steel Products Company, who presided while the report of the Nominating Committee of the Section was presented and officers elected for the coming year. A list of these, with addresses, is given elsewhere in this report.

Chairman Rockhoff also made a brief report of activities of the Section and of the Committee Chairman during the past year. He then turned the meeting over to Mr. D. Berman, Director of Safety and Health of the Western Electric Company, Hawthorne Works, Chicago, who presided during the Panel Discussion, to which the remainder of the session was devoted.

Chairman Berman introduced the members of the Panel, as follows:

- T. O. Meisner, American Can Company, Chicago.
- G. B. Tybring, International Business Machines Corporation, Endicott, N. Y.

F. J. Riegel, Western Electric Company, Chicago.

Louis Boraks, Liberty Mutual Insurance Company, Boston.

N. V. B. Ziegler, Aluminum Company of America, New Kensington, Pa.

J. C. Bower, Westinghouse Electric & Manufacturing, East Pittsburgh, Pa.

CHAIRMAN BERMAN: The first first question on the lineup is: "Should Goggles Be Worn by Punch Press Operators?" We are going to ask Mr. G. B. Tybring to discuss this question. After which, anyone else on the panel may enter the discussion, and the question will also be open for members from the floor.

MR. TYBRING: It occurs to me that the answer is found within the question itself, by transposing the words to read, "Goggles should be worn by press operators." We all agree that goggles should be worn and the eyes should be protected in any circumstance where the eyes are exposed to flying particles. There is no argument against that.

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 JOHN P. MCCANN, New England Power Service Co., Boston, Mass.
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 J. L. WEEKS, South Carolina Electric & Gas Co., Columbia, S. C.
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 J. D. ELLIS, Northwestern Electric Co., Portland, Oregon.
 D. F. McMURCHY, Tennessee Valley Authority, Chattanooga, Tenn.
Members at Large—
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 C. H. DAVIS, Commonwealth Edison Co., Chicago, Ill.
 C. H. DINSMORE, Wisconsin Power & Light Co., Madison, Wis.
 E. P. DURFEE, Consolidated Edison Co. of New York, Inc., New York, N. Y.
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 JAMES B. DOUGLAS, The Philadelphia Gas Works Co., Philadelphia, Pa.
 W. P. ELSTON, American Telephone & Telegraph Co., New York, N. Y.
 ROY M. GODWIN, Philadelphia Electric Co., Philadelphia, Pa.
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 B. B. McCULLOCH, Bureau of Safety, Chicago, Ill.
 GEORGE OPP, Detroit Edison Co., Detroit, Mich.
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 C. B. SCOTT, Bureau of Safety, Chicago, Ill.
 H. F. WEBB, West Penn System, Pittsburgh, Pa.
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 Chicago, Ill.
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- Health Committee*—DR. HART E. FISHER (*Chairman*), Chicago Rapid Transit Co., Chicago, Ill.
- Membership Committee*—W. M. L. CONI (*Chairman*), Utah Power & Light Co., Salt Lake City, Utah
L. P. HOFFMAN, Florida Power & Light Co., Miami, Florida
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J. B. PORCHER, Ohio Edison Co., Akron, Ohio
J. O. SPEED, Alabama Power Co., Birmingham, Ala.
J. E. STOTT, Georgia Power Co., Atlanta, Georgia
- Poster and Safety Kinks Committee*—W. H. KUSSMAUL (*Chairman*), Northern Indiana Public Service Co., Hammond, Ind.
W. L. SMITH, Los Angeles Department of Water & Power, Los Angeles, Calif.
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J. L. WEEKS, South Carolina Electric & Gas Co., Columbus, S. C.
- Publicity Committee*—J. C. MARTIN (*Chairman*), Bureau of Safety, Chicago, Ill.
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E. P. DUFFEE, Consolidated Edison Co. of N. Y., Inc., New York, N. Y.
H. W. LUECK, Commonwealth Edison Co., Chicago, Ill.
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B. B. MCCULLOCH, Bureau of Safety, Chicago, Ill.
R. S. METZGER, Toledo Edison Co., Toledo, Ohio
GEORGE OPP, Detroit Edison Co., Detroit, Mich.
F. M. PEPPER, Illinois Bell Telephone Co., Chicago, Ill.
C. J. RUTLAND, Texas Power & Light Co., Dallas, Texas
C. B. SCOTT, Bureau of Safety, Chicago, Ill.
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Health Committee Chairman—D. E. WOODS, Central Power & Light Co., Corpus Christi, Texas.
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Publicity Committee Chairman—J. H. BOGGS, Missouri Gas & Electric Service Co., Lexington, Mo.
Statistics Committee Chairman—G. E. OLMSTED, City Ice Co., Kansas City, Mo.
Visual Education Committee Chairman—R. B. OAKLEY, Chicago Ice Producers Mutual Liability Co., Chicago, Ill.
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V. HARRISON, Gulf Oil Corp., Port Arthur Refinery, Port Arthur, Texas.
A. G. HENRIKSEN, California Consumers Corp., Los Angeles, Calif.
S. R. KALLINS, C. Hoffberger Co., Baltimore, Md.
C. H. MEYER, Public Service Co. of Oklahoma, Tulsa, Okla.
J. F. NICKERSON, American Institute of Refrigeration, Chicago, Ill.
JAY ALAN REID, Southwestern Gas & Electric Co., Texarkana, Ark-Tex.
T. W. RODES, Carbide & Carbon Chemical Corp., Whiting, Ind.
H. D. SANFORD, Peoples Ice Company of Syracuse, Syracuse, N. Y.
W. H. SENYARD, Louisiana Power & Light Co., Algiers, La.
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H. M. TOOMBS, Armour & Co., Chicago, Ill.

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Secretary—EMERSON A. BRANDT, National Association of Ice Industries, Chicago, Ill.
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J. F. NICKERSON, American Institute of Refrigeration, Chicago, Ill.
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L. W. DAWLEY, Southern United Ice Co., Jackson, Miss.

C. H. HARPER, Southern United Ice Co., Jackson, Miss.

MONDAY AFTERNOON SESSION

October 16, 1939

The first session of the Refrigeration Section was called to order by General Chairman C. H. Harper, Treasurer, Southern United Ice Company, Jackson, Miss.,

who presided. Chairman Harper welcomed the delegates, made a brief report on the activities of the Section during the year, and then introduced the speaker.

Safety from the Executive's Viewpoint

By FRANK B. OSTERMUELLER

Virginia Public Service Co., Alexandria, Va.

Feeling that any one man's views or opinions could not give this gathering a national picture, I endeavored to impose on the executives of ice and refrigeration plants in all parts of the United States, in an effort to get first hand data as to their personal feelings on Safety.

A somewhat lengthy questionnaire brought back more than fifty replies, all of them filled with information. However, I began thinking that my letter was addressed only to executives of organizations with well organized safety departments and 100 per cent safety-minded personnel.

In order to check further, I addressed a letter to more than a dozen men on the sidelines who watched not only one team

but many play the serious game of accident prevention. No doubt a true analysis can be reported by presenting a combination of opinions.

It might be well to take each of eight questions separately and in this way develop the subject somewhat systematically.

Question No. 1. Is the "top" executive in your company interested in safety?

The answers are unanimously "Yes." From outside sources the impression seems to prevail that in smaller organizations very little interest is shown in effort to promote safety.

Question No. 2. Does the top executive show an actual personal interest in his Company's safety program?

Rubber Section

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W. H. MACKAY, Dunlop Tire & Rubber Corp., Buffalo, N. Y.
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DR. P. A. DAVIS, The Goodyear Tire & Rubber Co., Akron, Ohio.
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Statistics Committee Chairman—G. E. TEAL, U. S. Rubber Co., Naugatuck, Conn.
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J. J. LOGE, General Tire & Rubber Co., Akron, Ohio.
J. E. LOVAS, U. S. Rubber Co., Passaic, N. J.

W. H. MacKay, Dunlop Tire & Rubber Corp., Buffalo, N. Y.
 URBAN L. MOLER, Inland Div., General Motor Corp., Dayton, Ohio.
 C. PRITCHARD, Ball-Band Plant, U. S. Rubber Co., Mishawaka, Ind.
 WM. SPANTON, American Hard Rubber Co., Akron, Ohio.
 PAUL VAN CLEEF, Van Cleef Bros., Chicago, Ill.

Past General Chairmen—

E. W. BECK, U. S. Rubber Co., New York, N. Y.
 R. A. BULLOCK, Corduroy Rubber Co., Grand Rapids, Mich.
 A. M. DIETZ, Pennsylvania Rubber Co., Jeannette, Pa.
 C. F. HORAN, Hood Rubber Co., Watertown, Mass.
 J. T. KIDNEY, The Goodyear Tire & Rubber Co., Akron, Ohio.

TUESDAY AFTERNOON SESSION

October 17, 1939

The opening session of the Rubber Section was called to order by General Chairman R. A. Bullock, Personnel Director, The Corduroy Rubber Company, Grand Rapids, Mich., who presided. Chairman Bullock first made a brief report of the activities of sectional committees during the past year, and then introduced the scheduled speakers.

Unfortunately the formal paper to be presented on the subject of "Carbon Tetrachloride in the Rubber Industry" was not available, and in the absence of the scheduled speaker a short discussion ensued. Led by C. W. Ufford, Personnel Manager, The Ohio Rubber Company, Willoughby, Ohio, this discussion has been summarized by Mr. Ufford for these Transactions as follows:

Carbon Tetrachloride Problems

It was pointed out that many of the small companies, in particular, have used carbon tetrachloride in washes and solvents in order to reduce the fire and explosion hazards to the people handling these materials. There is no question but that these same companies have experienced a wave of carbon tetrachloride sickness as a result and that there is room for considerable discussion as to a solution to the problem.

Ventilation on fixed installations can reduce the fume hazard materially, but the problem of local and oftentimes unauthorized use of carbon tetrachloride for isolated jobs still presents a real problem. The

question is, can a suitable, suitable substitute be found for carbon tetrachloride?

The discussion showed that companies have definitely experienced from the use of carbon tetrachloride such an extent that many of the representatives have prohibited its use and have substituted a cleaning solvent known as Stoddard's Solvent No. 5, which is used in large quantities with complete success in the cleaning industry.

Substitutes Dry Slowly

This point brought up the fact that many of the substitutes for carbon tetrachloride are very slow in drying and that this has kept their use out of many places. Several representatives said, however, that the difference was so slight as to be negligible and the advantage so great as to warrant a change in the expected drying time.

No definite conclusion was reached, though the majority of representatives said that carbon tetrachloride had been removed from their use, and that by comparison the various substitutes under consideration were able to their peculiarities, very satisfactory results had been obtained. Another representative said that they had had satisfactory results from the use of the same and that they were still faced with the hazard of carbon tetrachloride, particularly in washes, though not so much in

Steam Railroad Section

Officers 1939-1940

General Chairman—E. L. HENRY, Chicago & North Western Railway Co., Chicago, Ill.
Vice-Chairman—D. G. PHILLIPS, Wabash Railway Co., St. Louis, Mo.
Secretary and News Letter Editor—P. F. BUCKLE, Chicago, Burlington & Quincy Railroad Co., Chicago, Ill.
Program Chairman, J. R. TENNEY, Western Maryland Railway Co., Hagerstown, Md.
Membership Chairman, ROBERT SCOTT, Atlantic Coast Line Railroad Co., Wilmington, N. C.
Statistics Chairman, T. H. CARROW, Pennsylvania Railroad, Philadelphia, Pa.
Contest Chairman, C. L. LAFONTAINE, Great Northern Railway, St. Paul, Minn.
Paper Chairman, L. J. BENSON, Chicago, Milwaukee, St. Paul & Pacific Railroad Co., Chicago.
Safety Practices Pamphlet Chairman, W. J. WEIL, Delaware, Lackawanna & Hudson Railroad, Scranton, Pa.
Nominations & Elections Chairman, W. C. SHELVER, Union Pacific Railroad Co., Omaha, Neb.
Health Chairman, DR. IRVING S. CUTTER, Chicago & North Western Railway Co., Chicago.

TUESDAY AFTERNOON SESSION

October 17, 1939

The opening session of Steam Railroad delegates was called to order by E. L. Henry, Assistant to the General Manager, Chicago & North Western Railway Company, Chicago, who presided. Chairman Henry welcomed the delegates, sketched the program of sessions briefly, and then introduced the first speaker.

Safety Today and Tomorrow on American Railroads

By CARL R. GRAY, JR.

Executive Vice President, Chicago, St. Paul, Minneapolis & Omaha Railway Company, St. Paul, Minn.

There is one thing in which I will not take a back seat for anyone, and that is the interest I have in "Safety." Perhaps it is partly from inheritance that I gather my interest in this work—perhaps from the environment and association I have had with men who believe in safety, who preach it, and who practice it constantly. Perhaps it is from the standpoint of realization that it is one of the greatest factors in the solution of the transportation problem. But whether it is one or the other, or a part of both, I know that I am definitely, completely and wholeheartedly devoting a considerable portion of my life to the improvement—by

safety—of the lives of all of our people.

Naturally I should be most interested in the safety performance of the Omaha Railroad; but one cannot be safety-minded and fail to recognize and be interested in and a part of safety as it is understood in the business world today. One has but to look at the program of this Congress to realize what a tremendous place safety has taken in the lives of the American people, for it permeates the very souls of so many of us. It is, and has been, a complete success.

I read all I can concerning early American railroading. Here is a clipping from an English newspaper of March 6, 1869, quot-

Textile Section

Officers 1938-1939

General Chairman—E. A. ROBERTS, American Mutual Liability Insurance Co., Atlanta, Ga.

Vice-Chairman—E. M. SALLEY, American Enka Corp., Enka, N. C.

Secretary and News Letter Editor—FRAZER PATTERSON, W. C. Bradley Interests, Columbus, Ga.

Engineering Committee Chairman—NORMAN F. HINES, Ludlow Manufacturing & Sales Co., Ludlow, Mass.

Health Committee Chairman—FRED W. SEHL, Aetna Life Insurance Co., Hartford, Conn.

Membership and Publicity Committee Chairman—JETT M. POTTS, West Point Manufacturing Co., West Point, Ga.

Program Committee Chairman—W. R. MCCALLUM, South Carolina Industrial Commission, Columbia, S. C.

Statistics Committee Chairman—W. L. POWELL, North Carolina Industrial Commission, Raleigh, N. C.

Visual Education Committee Chairman—C. C. CAMPBELL, Marshall Field & Co., Spray, N. C.

Members at Large—

J. E. BERGERT, Johns-Manville Corp., Manville, N. J.

B. R. BROWN, Columbia Mills, Inc., Chicago, Ill.

H. R. CORY, Beacon Manufacturing Co., Swannanoa, N. C.

*CHARLES H. EAMES, Lowell Textile Institute, Lowell, Mass.

RUSSELL T. FISHER, National Assn. of Cotton Manufacturers, Boston, Mass.

A. S. JOHNSON, American Mutual Liability Insurance Co., Boston, Mass.

H. MCKELVIE, Merrimack Manufacturing Co., Huntsville, Ala.

GILBERT R. MERRILL, Lowell Textile Institute, Lowell, Mass.

*FRANK E. MORRIS, Liberty Mutual Insurance Co., Boston, Mass.

B. G. STUMBERG, Tallassee Mills, Tallassee, Ala.

J. T. TROLINGER, North American Rayon Corp., Elizabethton, Tenn.

R. B. WICKHAM, West Point Manufacturing Co., West Point, Ga.

*T. A. WILSON, North Carolina Industrial Commission, Raleigh, N. C.

*Past General Chairman

Officers 1939-1940

General Chairman—E. A. ROBERTS, American Mutual Liability Insurance Co., Atlanta, Ga.

Vice-Chairman—E. M. SALLEY, American Enka Corp., Enka, N. C.

Secretary and News Letter Editor—FRANCES BETHUNE, R. N., Firestone Cotton Mills, Gastonia, N. C.

Engineering Committee Chairman—R. B. WICKHAM, West Point Manufacturing Co., West Point, Ga.

Health Committee Chairman—M. F. TRICE, North Carolina Board of Health, Raleigh, N. C.

Membership and Publicity Committee Chairman—W. R. MCCALLUM, South Carolina Industrial Commission, Columbia, S. C.

Program Committee Chairman—W. L. POWELL, North Carolina Industrial Commission, Raleigh, N. C.

Safe Practices Pamphlet Committee Chairman—NORMAN F. HINES, Ludlow Manufacturing & Sales Co., Ludlow, Mass.

Committee on Cooperation with Trade Associations, Chairman—I. H. SHUFORD, N. C. Carolina Department of Labor, Raleigh, N. C.

Visual Education Committee Chairman—W. D. WEAVER, Marshall Field & Co., Springfield, N. C.

Members at Large—

J. E. BIRGER, Johns-Manville, Corp., Manville, N. J.

B. R. BROWN, Columbia Mills, Inc., Roseland, Chicago, Ill.

J. T. BROWN, E. I. du Pont de Nemours & Co., Old Hickory, Tenn.

JOHN J. BURGER, W. J. Dickey & Sons, Inc., Oella, Baltimore Co., Md.

H. R. CORY, Beacon Manufacturing Co., Swannanoa, N. C.

CHARLES H. EAMES, Lowell Textile Institute, Lowell, Mass.

ARTHUR S. JOHNSON, American Mutual Liability Insurance Co., Boston, Mass.

H. McKELVIE, Merrimack Manufacturing Co., Huntsville, Ala.

FRANK E. MORRIS, Liberty Mutual Insurance Co., Boston, Mass.

T. A. WILSON, North Carolina Industrial Commission, Raleigh, N. C.
Past General Chairman

TUESDAY AFTERNOON SESSION

October 17, 1939

The opening session of the Textile Section was called to order by General Chairman E. A. Roberts, District Engineering Manager, American Mutual Liability Insurance Company, Atlanta, Ga., who pre-

sided. Chairman Roberts presented in his annual report a brief résumé of Section and Committee activities, and then introduced the first speaker as listed in the scheduled program.

How Far Can We Go Without Management in Developing and Maintaining a Satisfactory Safety Program?

By HUGH L. BRYAN

Personnel Manager, Sonoco Products Co., Hartsville, S. C.

There can be only one answer. The interest taken in the safety program by foremen and other employees is in direct proportion to the interest, enthusiasm and support shown it by management. I say this unservedly and emphatically.

Who of us has not heard an associate, referring to the boss, say, "You can do almost anything else and get away with it, but you had better not fail to turn in the 'old man's' daily departmental reports," or something similar to that? Many an "old man" has a pet hobby or theory which he is very enthusiastic about and which is strictly observed by his employees, sometimes through fear but usually through respect. Now if this pet hobby or theory happens to be the safety program its success is largely assured.

This is a very ambitious subject, for we may well ask ourselves, how far can we go without the cooperation of our employees? The initial steps, however, must always be taken by management.

Often we find top men, whether presidents, superintendents, or department heads, who have been on their jobs for almost half a century—men of the old school who have done an excellent job of managing, but who have always accepted as a matter of course that a certain number of accidents were bound to happen and that not a great deal could be done about it. Since they really believed this it is only natural that their younger subordinates should share the same opinion.

The entire safety movement throughout our country is still very much in its infancy

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Wood Products Section

Officers 1938-1939

General Chairman—J. H. LEE, Liberty Mutual Insurance Co., Rockford, Ill.
Treasurer—S. T. DIBSDALE, The J. G. Brill Co., Philadelphia, Pa.
Secretary—*M. C. GOODSPEED, General Electric Co., Erie, Pa.
News Letter Editor—KARL N. SEARLES, American Car & Foundry Co., New York, N. Y.
Engineering Committee Chairman—J. A. CROUSE, Southern Lumber Co., Warren, Ark.
Membership Committee Chairman—LOUIS GLAZER, Dierks Lumber & Coal Co., Kansas City, Mo.
Poster Committee Chairman—O. M. SWANSON, Joslyn Manufacturing & Supply Co., Chicago, Ill.
Program Committee Chairman—O. C. BOILEAU, RCA Manufacturing Co., Inc., Camden, N. J.
Publicity Committee Chairman—F. A. POLLOCK, Lumbermens Mutual Casualty Co., Chicago, Ill.
Safety Instruction Card Committee Chairman—THOMAS SHERRY, Potlatch Forests, Inc., Lewiston, Idaho.
Statistics Committee Chairman—WILL D. JENKINS, British Columbia Lumber & Shingle Manufacturers Assn., Vancouver, B. C., Canada.
Members at Large—
*R. C. BARR, Lumbermens Mutual Casualty Co., San Francisco, Calif.
*F. W. BRAUN, Employers Mutuals, Wausau, Wis.
R. F. CALDWELL, Moore & Merklein, Inc., Shreveport, La.
*E. ROSS FARRA, Grand Rapids Safety Council, Grand Rapids, Mich.
*HARRY GUILBERT, The Pullman Co., Chicago, Ill.
*ROLAND JONES, The Surty Manufacturing Co., Chicago, Ill.
*HARRY J. KELLEY, American Seating Co., Grand Rapids, Mich.
*WALTER S. PAINE, Aetna Casualty & Surety Co., Hartford, Conn.
*J. A. PURDY, Michigan Mutual Liability Co., Detroit, Mich.
*G. E. SANFORD, General Electric Co., Schenectady, N. Y.
*H. E. SEELY, The Brunswick-Balke-Collender Co., Chicago, Ill.
*Past General Chairman

Officers 1939-1940

General Chairman—J. C. WILSON, Lumbermens Mutual Casualty Co., Chicago, Ill.
Secretary—*M. C. GOODSPEED, General Electric Co., Erie, Pa.
News Letter Editor—CHARLES H. JONES, Bituminous Casualty Corp., Chicago, Ill.
Engineering Committee Chairman—JAMES G. ALDRICH, Berst-Forster-Dixfield Co., Plattsburgh, N. Y.
Health Committee Chairman—A. D. HUBBARD, Employers Mutuals, Wausau, Wis.
Membership Committee Chairman—LOUIS GLAZER, Dierks Lumber & Coal Co., Kansas City, Mo.
Poster Committee Chairman—O. M. SWANSON, Joslyn Manufacturing & Supply Co., Chicago, Ill.
Program Committee Chairman—O. C. BOILEAU, RCA Manufacturing Co., Inc., Camden, N. J.

Publicity Committee Chairman—F. A. POLLOCK, Lumbermens Mutual Casualty Co., Chicago, Ill.

Safety Instruction Card Committee Chairman—THOMAS SHERRY, Potlatch Forests, Lewiston, Idaho.

Statistics Committee Chairman—WILL D. JENKINS, British Columbia Lumber & Ship Manufacturers Assn., Vancouver, B. C., Canada.

Trade Association Cooperation Committee Chairman—D. J. MURRAY, The Huber Manufacturing Co., Marion, Ohio.

Members at Large—

*R. C. BARR, Lumbermens Mutual Casualty Co., San Francisco, Calif.

*F. W. BRAUN, Employers Mutuals, Wausau, Wis.

*R. F. CALDWELL, Moore & Merklein, Inc., Shreveport, La.

*E. ROSS FARRA, Grand Rapids Safety Council, Grand Rapids, Mich.

*HARRY GUILBERT, The Pullman Co., Chicago, Ill.

*ROLAND JONES, The Surty Manufacturing Co., Chicago, Ill.

*HARRY J. KELLEY, American Seating Co., Grand Rapids, Mich.

*J. H. LEE, Liberty Mutual Insurance Co., Rockford, Ill.

*WALTER S. PAINE, Actna Casualty & Surety Co., Hartford, Conn.

*J. A. PURDY, Michigan Mutual Liability Co., Detroit, Mich.

*G. E. SANFORD, General Electric Co., Schenectady, N. Y.

*H. E. SEELY, The Brunswick-Balke-Collender Co., Chicago, Ill.

*Past General Chairman

MONDAY AFTERNOON SESSION

October 16, 1939

The first session of the Wood Products Section was called to order by General Chairman J. H. Lee, Safety Engineer, Liberty Mutual Insurance Company, Rockford, Ill., who presided. In his opening remarks,

Chairman Lee sketched some of the activities of the Section during the past year, paid tribute to the Sectional Committees for their work, and then introduced the speaker.

Health Hazards in the Woodworking Industry

By R. R. SAYERS

Senior Surgeon, Division of Industrial Hygiene, National Institute of Health, U. S. Public Health Service, Washington, D. C.

In 1935 there were 579,012 workers in the United States employed in industries in which wood in some form is the principal material. Of this number 283,309 were employed in the basic industries and 133,772 in the furniture and related industries. The remainder were in wood-reworking industries, wooden-container industries, and other allied industries.

Only limited data as to absenteeism due to all illness or to occupational diseases are available. However, in a survey of 1,487,224 workers employed in 16 indus-

try groups in 16 states the data given in the accompanying table showing exposures were obtained for the lumber and furniture industry.

The table shows that dusts and chemicals involved in finishing and preserving wood constitute the major exposures which may cause illness or toward symptoms.

Dust

Many processes in the wood industry (sawing, planing, boring, drilling, etc.)

Street and Highway Traffic Section

Officers 1938-1939

- General Chairman*—PROF. ROGER L. MORRISON, Department of Highway Engineering and Highway Transport, University of Michigan, Ann Arbor, Mich.
- First Vice-Chairman*—HON. HARRY H. PORTER, Chief Justice, Municipal Court, Evanston, Ill.
- Second Vice-Chairman*—COL. JOHN A. CUTCHINS, Director of Public Safety, Richmond, Va.
- Third Vice-Chairman*—CARL J. RUTLAND (*Chairman*), Citizens' Traffic Commission, Dallas, Texas.
- Fourth Vice-Chairman*—W. GRAHAM COLE, Director of Safety, Metropolitan Life Insurance Company, New York, N. Y.
- Fifth Vice-Chairman*—LESLIE J. SORENSON, City Traffic Engineer, Chicago, Ill.
- Chairman, Accident Records Committee*—WILBUR S. SMITH, State Traffic Engineer, State Highway Department, Columbia, S. C.
- Chairman, Annual Congress Program Committee*—HARRY H. HARRISON, State Traffic Engineer, State Department of Public Works, Springfield, Ill.
- Members at Large*—
- M. T. CASTER, Plant Superintendent, Lincoln Telephone and Telegraph Company, Lincoln, Nebr.
 - D. GRANT MICKLE, Manager, Traffic and Transportation Department—Jensen, Bowen and Farrell, Ann Arbor, Mich.
 - W. E. GUTHNER, Manager of Safety and Excise, Denver, Colo.
 - HARRY BARSANTEE, Supervisor, News Bureau, Travelers Insurance Company, Hartford, Conn.
 - LIEUT. FRANKLIN M. KREML, Director, Traffic Safety Institute, Northwestern University, Evanston, Ill.
- Ex-Officio, Former General Chairmen*
- HON. HAROLD G. HOFFMAN, Ex-Governor of New Jersey, Trenton, N. J.
 - WILLIAM C. KNOELK, Chairman, Milwaukee Safety Commission, Milwaukee, Wis.
- Secretary*—EARL J. REEDER, Chief Traffic Engineer, National Safety Council, Chicago, Ill.

Officers 1939-1940

- General Chairman*—JUDGE HARRY H. PORTER, Chief Justice, Municipal Court, Evanston, Ill.
- First Vice-Chairman*—COLONEL JOHN A. CUTCHINS, Director of Public Safety, Richmond, Va.
- Second Vice-Chairman*—CARL J. RUTLAND, President, Texas Safety Association, Inc., Dallas, Texas.
- Third Vice-Chairman*—W. GRAHAM COLE, Director of Safety, Metropolitan Life Insurance Company, New York City.
- Fourth Vice-Chairman*—LESLIE J. SORENSON, City Traffic Engineer, Chicago, Ill.
- Fifth Vice-Chairman*—FRANK C. LYNCH, Secretary-Manager, Greater Los Angeles Safety Council, Los Angeles, Calif.
- Chairman, Committee on Accident Records*—WILBUR S. SMITH, State Traffic Engineer, State Highway Department, Columbia, S. C.

Chairman, Annual Congress Program Committee—WALTER B. MARTIN, Secretary, Peoria Association of Commerce Safety Council, Peoria, Ill.

Members at Large—

LEON ARONOWITZ, Deputy Commissioner of Motor Vehicles, Albany, New York.	1929
HARRY BARSANTEE, Supervisor, News Bureau, Travelers Insurance Company, Hartford, Conn.	1930
R. WHITNEY GROO, Superintendent, Utah Highway Patrol, Salt Lake City, Utah.	1931
HOWARD F. ILGNER, City Traffic Engineer, Milwaukee, Wis.	1932
CAPTAIN FRED C. MILLS, Director of Health and Safety, Boy Scouts of America, New York City.	1933
	1934

Ex-Officio, Former General Chairmen—

WILLIAM C. KNOELK, Chairman, Milwaukee Safety Commission, Milwaukee, Wis.	Pop. rate is de
PROFESSOR ROGER L. MORRISON, Department of Highway Engineering and Highway Transport, University of Michigan, Ann Arbor, Mich.	Veh. reg. rate
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	Accident Facts.

Secretary—EARL J. REEDER, Chief Traffic Engineer, National Safety Council, Chicago, Ill.

MONDAY AFTERNOON SESSION

October 16, 1939

Joint Session with Institute of Traffic Engineers

Presiding, LESLIE J. SORENSON, City Traffic Engineer, Chicago; President, Institute of Traffic Engineers; and Vice-Chairman, Street and Highway Traffic Section, National Safety Council.

Where Are We Going in Traffic Safety?

By ROGER L. MORRISON

Professor of Highway Engineering and Highway Transport, University of Michigan, Ann Arbor, Mich.

Perhaps before we undertake to say where we are going in traffic safety we should consider briefly where we have come from, why and how we have arrived, and why we have not gone farther. Of course if we go too far back we shall get lost, so let us consider only the past 10 years.

In the first half of this period the war with traffic deaths was a losing one. The tide of battle ebbed and flowed but at the end of the five years Death had made a net gain. The accompanying table on page 5 shows the scores.

Obviously neither the number of deaths nor the deaths per 100,000 population tells how the battle is going as long as the number of vehicles is increasing faster than the population, which was true up to 1929. But in 1934 there were fewer vehicles

registered than in 1929. With a decrease of six per cent in vehicles there was an increase of nearly 16 per cent in fatalities. A car standing in a garage causes no traffic deaths so that the most accurate measure of gain or loss is fatalities per 100,000,000 miles of travel. This showed an increase in 1930, decreases in 1931 and 1932, and increases in 1933 and 1934, with a net increase of more than six per cent from 1929 to 1934. There is no evidence of progress in those figures.

The forces fighting traffic accidents had an unexpected, ugly and undesired ally during this period: Old Man Depression. People who have lost their jobs or their fortunes or are in imminent danger of losing them are in no mood to make whoopee. Therefore, they are not apt to wind their cars

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Commercial Vehicle Section

Officers 1938-1939

General Chairman—T. B. JOHNSON, Manager, Delivery Division, Marshall Field & Company, Chicago.

Vice-Chairman—J. W. LORD, Safety Engineer, Atlantic Refining Co., Philadelphia.

Vice-Chairman—DWIGHT M. McCracken, Assistant Chief Engineer, Liberty Mutual Insurance Co., Boston.

Vice-Chairman—H. H. KELLY, Section of Safety, Bureau of Motor Carriers, Interstate Commerce Commission, Washington, D. C.

Secretary—H. J. JONES, Director of Safety, Automobile Shippers, Inc., Detroit, Mich.

Membership Committee Chairman—A. W. MEINKE, Engineer, Marsh & McLennan, New York City.

Program Committee Chairman—EARL D. PORTER, Director of Safety and Personnel, Hayes Freight Lines, Inc., Mattoon, Ill.

Executive Committee-at-Large—

R. C. HAVEN, Safety Engineer, Continental Baking Co., New York City.

J. R. STEELE, Superintendent of Safety, Oklahoma Gas & Electric Co., Oklahoma City, Okla.

A. E. LUNDSTEADT, Claim Adjuster, Bowman Dairy Co., Chicago.

CHARLES G. MORGAN, JR., Manager, Division of Operations, American Trucking Associations, Inc., Washington, D. C.

H. D. SCHEFFER, Safety Director, Auto-Owners Insurance Co., Lansing, Mich.

H. B. VAUGHAN, JR., Major, Corps of Engineers, Washington, D. C.

H. S. COLE, Ass't Superintendent, The Evening Star, Washington, D. C.

BRYANT C. SKEEN, Director of Safety & Personnel, Pacific Freight Lines, Los Angeles.

HILLIS A. KINDT, Freight Operations Manager, Consolidated Freight Lines, Portland, Ore.

W. F. BROWN, Safety Engineer, Consolidated Edison of New York, New York City.

D. F. McMURCHY, Director of Safety, Tennessee Valley Authority, Chattanooga, Tenn.

Officers 1939-1940

General Chairman—T. B. JOHNSON, Manager, Delivery Division, Marshall Field and Co., Chicago, Ill.

Vice-Chairmen—J. W. LORD, Safety Engineer, Atlantic Refining Co., 3144 Passyunk Avenue, Philadelphia, Pa.

D. M. McCracken, Assistant Chief Engineer, in charge Automotive Safety Div., Liberty Mutual Insurance Company, Boston, Mass.

H. H. KELLY, Chief, Section of Safety, Bureau of Motor Carriers, Interstate Commerce Commission, Washington, D. C.

Secretary—H. S. COLE, Assistant Superintendent, The Evening Star Newspaper Company, Washington, D. C.

Membership Committee Chairman—H. J. JONES, Director of Safety and Personnel, Automobile Shippers, Inc., Detroit, Mich.

Program Committee Chairman—W. F. BROWN, Safety Engineer, Consolidated Edison Company of New York, New York City.

Executive Committee-at-Large—

- JOHN N. BARKER, Purchasing Agent & Director of Fleet Operations, Washburn-Crosby Co. of Central Division, General Mills, Inc., Chicago, Ill.
 R. C. HAVEN, Safety Engineer, Continental Baking Co., New York City.
 H. A. KINDT, Freight Operations Manager, Consolidated Freightways, Inc., Portland, Oregon.
 A. E. LUNDSTADT, Claim Agent, Bowman Dairy Co., Chicago, Ill.
 D. F. McMURCHY, Chief, Safety Division, Tennessee Valley Authority, Chattanooga, Tenn.
 A. W. MEINKE, Superintendent, Audit-Engineering Department, Indemnity Insurance Company of North America, Philadelphia, Pa.
 C. G. MORGAN, Jr., Manager, Division of Operations, American Trucking Associations, Inc., Washington, D. C.
 E. D. PORTER, Director of Safety & Personnel, Hayes Freight Lines, Inc., Mattoon, Ill.
 H. D. SCHEFFER, Safety Director, Auto-Owners Insurance Co., Lansing, Mich.
 B. C. SKEEN, Director of Safety & Personnel, Pacific Freight Lines, Los Angeles, Calif.
 J. R. STEELE, Superintendent of Safety, Oklahoma Gas & Electric Company, Oklahoma City, Okla.
 H. B. VAUGHAN, JR., Major, Corps of Engineers, Office, Chief of Engineers, War Department, Washington, D. C.

TUESDAY MORNING SESSION

October 17, 1939

Fleet Safety Contests

Presiding, T. B. JOHNSON, Manager Delivery Division, Marshall Field & Company, Chicago.

Why We Believe in Contests

By GEORGE E. WILLIAMS

Traffic Manager, Mistletoe Express Service, Oklahoma City, Okla.

Contests begin almost as soon as our lives begin. In the nursery babies soon learn that the one who can make the most noise gets the most attention. Since somebody has said that men are just little boys grown tall, that same desire to be singled out, to be noticed, stays with us to the grave. Today our whole lives are devoted to contests of one sort or another—in attempting to better our conditions, earn more for our families, sell more goods than our competitor, to render a better and more efficient service and thereby create more good will for our various products. Finally, we have come to realize that

this contest principle must be applied to practically all forms of human endeavor in an effort to gain superiority.

Despite the millions of words which have been published on accident prevention, any large-scale truck or bus operator knows the cause of practically every accident was sitting behind the wheel of at least one of the vehicles involved. We know that we can not make a good driver out of unsuitable material. We know that even competent drivers vary in ability. We know from experience that the *human element* is the thing

Transit Section

Officers 1938-1939

General Chairman—ROBERT A. McARTHUR, Supt. of Employment Instruction, Public Service Coordinated Transport, Newark, N. J.

First Vice-Chairman—E. E. GROVER, Columbus & Southern Ohio Electric Company, Columbus, Ohio.

Second Vice-Chairman—P. D. SHINGLETON, Director of Safety & Personnel, Atlantic Greyhound Lines, Charleston, W. Va.

Third Vice-Chairman—H. R. HORTON, St. Louis Public Service Co., St. Louis, Mo.

Secretary—JOHN M. ORTS, Director of Safety Education, Public Service Corp., of New J., Newark, N. J.

Program Committee Chairman—H. W. WHITCOMB, Chief, Bur. of Accident Prevention, Philadelphia Rapid Transit Co., Philadelphia, Pa.

Engineering Committee Chairman—S. P. ANDREWS, Safety Supr., York Railways Co., York, Pa.

Membership Committee Chairman—C. HOWARD SHANER, Safety Supervisor, Youngstown Municipal Ry Co., Youngstown, Ohio.

Statistics Committee Chairman—MERWYN A. KRAFT, Accident Prevention Engineer, American Transit Assn., New York, N. Y.

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Publicity Committee Chairman and News Letter Editor—ERNEST G. COX, Safety Engineer, Chicago North Shore & Milwaukee R. R., Highwood, Ill.

Health Committee Chairman—GEORGE R. TRUE, General Claim Agent, Chicago Rapid Transit Co., Chicago, Ill.

Members at Large—

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W. A. BROWN, Tennessee Electric Power Company, Nashville, Tenn.

MARCUS A. DOW, Greyhound Management Company, Cleveland, Ohio.

H. C. FOSS, Savannah Electric & Power Company, Savannah, Ga.

G. T. HELLMUTH, Chicago, North Shore & Milwaukee Railroad Co., Chicago, Ill.

E. J. KREH, Philadelphia Company, Pittsburgh, Pa.

A. E. PARKER, Winnipeg Electric Co., Winnipeg, Canada.

SAMUEL H. REID, The L. E. Myers Company, Chicago, Ill.

HAROLD F. WEBB, West Penn System, Pittsburgh, Pa.

GEORGE R. WHITMORE, Illinois-Iowa Power Company, Peoria, Ill.

D. GRANT MICKLE, Traffic Engineer, Jensen, Bowen & Farrell, Ann Arbor, Mich.

HARRY E. NEAL, Traffic Engineer, Department of Highways, Columbus, Ohio.

FRANK C. BERRY, Manager, Safety Division, Minneapolis Automobile Club, Minneapolis, Minn.

Ex-Officio, Former General Chairmen—

HON. HAROLD G. HOFFMAN, Ex-Governor of New Jersey, Trenton, N. J.

WILLIAM C. KNOELK, Chairman, Milwaukee Safety Commission, Milwaukee, Wis.

Officers 1939-1940

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Vice-Chairman—P. D. SHINGLETON, Atlantic Greyhound Lines, Charleston, W. Va.

Vice-Chairman—H. R. HORTON, St. Louis Public Service Co., St. Louis, Mo.

Vice-Chairman—J. M. ORTS, Public Service Corp. of N. J., Newark, N. J.

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Health Committee Chairman—J. B. PORCHER, Ohio Edison Co., Akron, Ohio.

Membership Committee Chairman—M. F. BYRNS, Yellow Cab Co., New Orleans, La.

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Publicity and News Letter Committee Chairman—R. A. FINCH, U. S. Fidelity & Guaranty Co., Baltimore, Md.

Statistics Committee Chairman—M. A. KRAFT, American Transit Assn., New York, N. Y.

Taxicab Committee Chairman—J. A. LOWRY, Mission Taxi Co., San Jose, Calif.

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*W. A. BROWN, Tennessee Electric Power Co., Nashville, Tenn.

M. A. DOW, Greyhound Management Co., Cleveland, Ohio.

E. J. KREH, Philadelphia Co., Pittsburgh, Pa.

*G. T. HELLMUTH, Chicago North Shore & Milwaukee Railroad Co., Chicago, Ill.

*R. A. McARTHUR, Public Service Coordinated Transport, Newark, N. J.

*A. E. PARKER, Winnipeg Electric Co., Winnipeg, Canada.

*S. H. REID, The L. E. Myers Co., Chicago, Ill.

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*H. V. SCHREIBER, Capital Transit Co., Washington, D. C.

H. F. WEBB, West Penn System, Pittsburgh, Pa.

G. R. WHITMORE, Illinois-Iowa Power Co., Peoria, Ill.

*Past General Chairman

MONDAY AFTERNOON SESSION

October 16, 1939

Presiding, GENERAL CHAIRMAN R. A. McARTHUR, Director of Personnel, Public Service Coordinated Transport, Newark, N. J.

How Can Accidents Be Controlled in Shops, Car Houses and Garages?—The Taxicab Man's Answer

By M. F. BYRNS

Director, Yellow Cab Co., New Orleans, La.

Taxicab business is a personal service relying on public good-will more than an organization selling brands of merchandise which the public must patronize to indulge a special appetite or demand. Therefore, safety, in the taxicab field, is the one quality which may distinguish its service. All transportation concerns have learned the great value of accident prevention because of their wide exposure.

After the years of experience and study with which industry has treated accidents in shops, garages and carhouses, it would seem that accidents would have long since been reduced to a minimum. However, even in plants having safety programs, accidents still take their toll of pain, suffering, compensation costs, and managerial headaches. However, crushed skulls and broken bones are not the by-products of programs

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Child Education Section

Officers 1938-1939

General Chairman, MILLARD C. LEFLER, Superintendent of Schools, Lincoln, Neb.
Vice-Chairman, J. ANDREW HOLLEY, State Department of Public Instruction, Oklahoma City, Okla.
Secretary, MARIAN TELFORD, National Safety Council, Inc., Chicago.

Officers 1939-1940

General Chairman, J. ANDREW HOLLEY, State Department of Public Instruction, Oklahoma City, Okla.
Vice-Chairman, NED H. DEARBORN, Dean, School of General Education, New York University, New York City.
Secretary, MARIAN TELFORD, National Safety Council, Inc., Chicago.

WEDNESDAY MORNING SESSION

October 18, 1939

Presiding, CHARLES H. ELLIOTT, Commissioner of Education, State of New Jersey, Trenton, N. J.

Safety Education in the Modern Curriculum—a Statement of Issues

By WILLIAM H. BRISTOW

Dean, State Teachers College, Shippensburg, Pa.

1. Shall safety education in its broadest aspects be made an essential part of the program of the schools, or shall it be assigned to the home and the community?
2. Shall safety education be organized on an incidental basis, or shall it occupy a place of importance in determining curriculum objectives, method, materials, and evaluation?
3. Shall safety education be a subject, or shall opportunities and situations offered by the daily school program be utilized for acquiring safety attitudes, safety knowledge, safety appreciations, and safety habits?
4. Shall the curriculum be confined to safety as it relates to the school day, or shall it utilize community studies in the various aspects of safety such as traffic, home, occupations, public, and recreation?
5. Shall the school consider safety an as-