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TRANSACTIONS

25th National Safety Congress

NATIONAL SAFETY COUNCIL, INC.

ATLANTIC CITY, NEW JERSEY
OCTOBER 5 to OCTOBER 9, 1936

Ambassador, Chelsea, Ritz-Carlton Hotels
and Atlantic City Auditorium

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Aeronautical Section

Officers Elected for 1936-37

(Re-elected)

Chairman—CAPTAIN E. V. RICKENBACKER, Eastern Air Lines, New York City.
Vice-Chairman—D. B. COLYER, Vice-President, United Air Lines Transport Corp., Chicago.
Secretary—JEROME F. LEDERER, Aero Insurance Underwriters, New York City.

N. S. C. ADVISORY COMMITTEE FOR AERONAUTICS

Chairman—P. WARNER (Chairman), Consulting Engineer, New York City.
Vice-Chairman—EDGAR S. GORRELL (Vice-Chairman), President, Air Transport Association of America, Chicago.
Members—CLARENCE M. YOUNG, Division Manager, Pan American Airways, Inc., San Francisco, Calif.
W. PATTERSON, President, United Air Lines Transport Corporation, Chicago.
JACK FRYE, President, Transcontinental & Western Air, Inc., New York City.
L. MARTIN, President, Institute of Aeronautical Sciences, Baltimore, Md.
GEORGE W. LEWIS, Director of Aeronautical Research, National Advisory Committee for Aeronautics, Washington, D. C.
WILLIAM F. DURAND, Leland Stanford University, Palo Alto, Calif.
ADMIRAL ARTHUR B. COOK, Chief, Bureau of Aeronautics, Navy Department, Washington, D. C.
GENERAL OSCAR WESTOVER, Chief of the Air Corps, War Department, Washington, D. C.
L. VIDAL, Director of Air Commerce, Bureau of Air Commerce, U. S. Department of Commerce, Washington, D. C.
GILL ROBB WILSON, President, National Ass'n of State Aviation Officials, Trenton, N. J.
JESSE F. HORNER, President, The National Aeronautic Association, Dupont Circle, Washington, D. C.
H. WATSON, President National Safety Council, New York City.
R. PALMER (Secretary), Conservation Engineer, The Equitable Life Assurance Society of the United States, New York City.

WEDNESDAY AFTERNOON SESSION

October 7, 1936

The Aeronautical Section meeting was called to order by Gill Robb Wilson, President, National Association of State Aviation Officials, who presided in the absence of Captain E. V. Rickenbacker, Chairman of the Section, the latter having found it impossible to be present because of a conflicting obligation. Wilson expressed appreciation of the cooperation extended to the aviation

industry by the National Safety Council and said that this cooperation had resulted in the stimulation of greater safety activity among all transport organizations.

He referred to a resolution passed at the sixth annual meeting of the National Association of State Aviation Officials at Hartford, Conn., which read as follows:

American Society of Safety Engineers—Engineering Section

Officers 1935-36

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

Vice-Chairmen—

C. B. BOULET, Wisconsin Public Service Corp., Milwaukee, Wis.

D. L. ROYER, Ocean Accident and Guaranty Corp., New York, N. Y.

Secretary—W. DEAN KEEFER, National Safety Council, Chicago, Ill.

Members at Large—

CYRIL AINSWORTH, American Standards Association, New York, N. Y.

C. B. AUER, Westinghouse Electric and Manufacturing Co., East Pittsburgh, Pa.

J. I. BANASH, Consulting Engineer, Chicago, Ill.

E. W. BECK, United States Rubber Products, Inc., New York, N. Y.

H. R. BIXLER, Union Carbide and Carbon Corp., New York, N. Y. (Metropolitan Chapter.)

*W. F. BOEHNER, J. B. Stetson Co., Philadelphia, Pa. (Philadelphia Chapter.)

E. W. BULLARD, E. D. Bullard Co., San Francisco, Calif. (San Francisco Chapter.)

R. E. DONOVAN, Standard Oil Company of California, San Francisco, Calif.

ROY M. GODWIN, Philadelphia Electric Company, Philadelphia, Pa. (Philadelphia Chapter.)

W. M. GRAFF, National Bureau of Casualty & Surety Underwriters, New York, N. Y.

R. MCA. KEOWN, Industrial Commission of Wisconsin, Madison, Wis.

EVERETT F. KING, Lever Brothers Co., Cambridge, Mass. (Boston Chapter.)

E. J. KREH, Philadelphia Co., Pittsburgh, Pa. (Western Pennsylvania Safety Council Chapter.)

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

M. G. LLOYD, National Bureau of Standards, Washington, D. C.

W. S. PAINE, Aetna Casualty & Insurance Co., Hartford, Conn.

GEO. F. PRUSSING, Union Oil Company of California, Los Angeles, Calif.

C. E. RALSTON, Pittsburgh Plate Glass Co., Pittsburgh, Pa.

A. S. REGULA, Industrial Relations Counselors, Inc., New York, N. Y.

JOHN RUSSELL, JR., Public Service Electric & Gas Co., Newark, N. J. (Northern New Jersey Chapter.)

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

H. S. SMITH, Union Carbide and Carbon Corp., New York, N. Y.

R. C. STRATTON, The Travelers Insurance Co., Hartford, Conn.

R. F. THALNER, Buick Motor Company, Flint, Mich.

S. E. WHITING, Liberty Mutual Insurance Co., Boston, Mass.

WILLIAM P. YANT, U. S. Bureau of Mines, Pittsburgh, Pa.

Officers Elected for 1936-37

General Chairman—D. L. ROYER, Ocean Accident and Guarantee Corp., New York, N. Y.

Vice-Chairman—C. B. BOULET, Wisconsin Public Service Corp., Milwaukee, Wis.

Vice-Chairman—R. E. DONOVAN, Standard Oil Company of California, San Francisco, Calif.

Secretary—W. DEAN KEEFER, National Safety Council, Chicago, Ill.

* Deceased.

Members at Large—

CYRIL AINSWORTH, American Standards Association, New York, N. Y.
 C. B. AUDEL, Westinghouse Electric and Manufacturing Co., East Pittsburgh, Pa.
 J. I. BANASH, Consulting Engineer, Chicago, Ill.
 E. W. BECK, United States Rubber Products, Inc., New York, N. Y.
 H. R. BIXLER, Union Carbide and Carbon Corp., New York, N. Y. (Metropolitan Chapter)
 E. W. BULLARD, E. D. Bullard Co., San Francisco, Calif. (San Francisco Chapter)
 H. F. GILBERT, American Cyanamid Co., Linden, N. J. (New Jersey Chapter)
 ROY M. GODWIN, Philadelphia Electric Co., Philadelphia, Pa. (Philadelphia Chapter)
 W. M. GRAFF, National Bureau of Casualty & Surety Underwriters, New York, N. Y.
 H. J. GRIFFITH, Jones & Laughlin Steel Corp., Pittsburgh, Pa. (Western Pennsylvania Safety Council Chapter)
 R. MCA. KEOWN, Industrial Commission of Wisconsin, Madison, Wis.
 J. M. KERRIGAN, United States Rubber Reclaiming Co., Inc., Buffalo, N. Y. (Niagara Frontier Chapter)
 EVERETT F. KING, Lever Brothers Co., Cambridge, Mass. (Boston Chapter)
 THOMAS E. LIGHTFOOT, The Koppers Coal Co., Pittsburgh, Pa.
 M. G. LLOYD, National Bureau of Standards, Washington, D. C.
 H. L. MINER, E. I. du Pont de Nemours & Co., Wilmington, Del.
 W. S. PAINE, Aetna Casualty & Insurance Co., Hartford, Conn.
 GEO. F. PRUSSING, Union Oil Company of California, Los Angeles, Calif.
 C. E. RALSTON, Pittsburgh Plate Glass Co., Pittsburgh, Pa.
 A. S. REGULA, Industrial Relations Counselors, Inc., New York, N. Y.
 G. E. SANFORD, General Electric Co., Schenectady, N. Y.
 C. W. SMITH, Standard Oil Co. (Ind.), Chicago, Ill.
 H. S. SMITH, Union Carbide and Carbon Corp., New York, N. Y.
 R. C. STRATTON, The Travelers Insurance Co., Hartford, Conn.
 R. F. THALNER, Buick Motor Company, Flint, Mich.
 S. E. WHITING, Liberty Mutual Insurance Co., Boston, Mass.
 WILLIAM P. YANT, Mine Safety Appliances Co., Pittsburgh, Pa.

WEDNESDAY NOON SESSION

October 7, 1936

The annual meeting of the ASSE-Engineering Section of the National Safety Council followed a luncheon and convened with C. W. Smith, Standard Oil Co. (Ind.), Chicago, general chairman, presiding. All reports had been mimeographed, and copies were distributed at the luncheon.

Dr. Francis F. Lucas, Member, Technical Staff, Bell Telephone Laboratories, New York City, and international authority on microscopy and photomicrography, spoke on "Late Developments in High Power and Ultra Violet Microscopy."

The report of the nominating committee was presented by A. S. Regula, chairman. Other members of the committee were S. E. Whiting, R. F. Thalner, C. B. Auel, and Dr. M. G. Lloyd. The committee's list of officers, as elected, will be found elsewhere in this sectional record.

Other sessions sponsored by the ASSE-Engineering Section included those on "Safety Belts," "Safety Training," "Exhaust Systems," "Safety Exchange Round Table," and "Occupational Diseases." Reports of these sessions will be found elsewhere in the Transactions.

Automotive and Machine Shop Section

Officers 1935-36

General Chairman—C. T. WINEGAR, Chrysler Corporation, Detroit, Mich.
Vice-Chairman—MARVIN HEIDT, Budd Wheel Co., Detroit, Mich.
Secretary—M. A. CLARK, U. S. Rubber Products, Inc., Detroit, Mich.
News Letter Editor—W. H. FRATER, Cadillac Motor Car Co., Detroit, Mich.
Engineering Committee Chairman—G. E. SANFORD, General Electric Co., Schenectady, N. Y.
Health Committee Chairman—DR. A. L. BROOKS, Fisher Body Detroit Div., General Motors Corp., Detroit, Mich.
Membership Committee Chairman—L. R. JUDSON, Timken Detroit Axle Co., Detroit, Mich.
Publicity Committee Chairman—C. W. BISHOP, Lycoming Manufacturing Co., Williamsport, Pa.
Program Committee Chairman—H. W. BOULTON, Murray Corp. of America, Detroit, Mich.
Statistics Committee Chairman—NELSON H. KYSER, The Studebaker Corp., South Bend, Ind.
Statistics Committee Chairman—W. W. JANZER, Seaman Body Co., Milwaukee, Wis.

Members at Large—

L. E. AVERILL, Chicago Eye Shield Co., Detroit, Mich.
C. M. DOTTERER, Revere Copper and Brass, Inc., Detroit, Mich.
HOYT L. FRACHER, Detroit Steel Products Co., Detroit, Mich.
MERLE C. HALE, General Motors Corp., Detroit, Mich.
M. J. MCCARTHY, Fisher Body Corp., Detroit, Mich.
R. A. SHAW, Murray Corp. of America, Detroit, Mich.
CARL L. STORCK, Delco Products Corp., Dayton, Ohio.
R. F. THALNER, Buick Motor Co., Flint, Mich.

Officers Elected for 1936-37

General Chairman—M. A. CLARK, U. S. Rubber Products, Inc., Detroit, Mich.
Vice-Chairman—H. W. BOULTON, Murray Corp. of America, Detroit, Mich.
Secretary—W. H. FRATER, Cadillac Motor Car Co., Detroit, Mich.
News Letter Editor—W. W. JANZER, Seaman Body Corp., Milwaukee, Wis.
Engineering Committee Chairman—L. B. LOOMIS, Ternstedt Manufacturing Div., General Motors Corp., Detroit, Mich.
Health Committee Chairman—DR. A. L. BROOKS, Fisher Body Detroit Div., General Motors Corp., Detroit, Mich.
Membership Committee Chairman—C. W. BISHOP, Lycoming Manufacturing Co., Williamsport, Pa.
Publicity Committee Chairman—E. MARENTATE, Motor Products Corp., Detroit, Mich.
Program Committee Chairman—W. A. BECHILL, Chrysler Corp., Detroit, Mich.
Statistics Committee Chairman—PAUL A. DENZIG, Kelsey-Hayes Wheel Co., Detroit, Mich.
Statistics Committee Chairman—G. E. SANFORD, General Electric Co., Schenectady, N. Y.

Members at Large—

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 HOYT L. FRACHER, Detroit Steel Products Co., Detroit, Mich.
 MERLE C. HALE, General Motors Corp., Detroit, Mich.
 M. J. MCCARTHY, Fisher Body Corp., Detroit, Mich.
 R. A. SHAW, Murray Corp. of America, Detroit, Mich.
 CARL L. STORCK, Delco Products Corp., Dayton, Ohio.
 R. F. THALNER, Buick Motor Co., Flint, Mich.
 C. T. WINEGAR, Chrysler Corp., Detroit, Mich.

MONDAY AFTERNOON SESSION

October 5, 1936

The Session was called to order by General Chairman C. T. Winegar, Chrysler Corporation, Detroit, Mich., introducing the

What Makes a Safety Program Effective

By J. F. KOLB

Director, Department of Industrial Relations, National Metal Trades Association, Chicago

An adequate program of industrial safety cannot be established and successfully maintained without a comprehensive study of company policies, practices, equipment, and personnel, and a subsequent adjustment of such factors to conform to desirable standards.

In many cases safety programs have failed to function effectively because company policies (1) were so limited in scope as to be quite inadequate and too often have been treated as matters of expediency, (2) were confusing to line or staff officers because delegated authority and responsibility were not definitely defined and allocated, and (3) were seldom properly transmitted to all employees in well written, easily understood language.

Too often a subordinate officer who was interested in enlarging his sphere of activities, hoping to attract the attention of his superiors, has been permitted to work unassisted in the development of safety programs. In many such cases lack of special preparation for the job

prevented this officer from understanding the ramifications of his actions. Further, the uncertainty of his position because of management's incomplete cooperation seriously retarded such progress.

The effectiveness of a safety program is directly proportional to the interest, support, and cooperation of plant management. The manager in cooperation with his subordinates develop policies and operations that conform to standard practice and delegate the administrative responsibilities to the personnel. The policies should indicate the extent of the responsibility for execution of the program and each employee should be made aware of the importance of safety service and each employee should be permitted to make some adjustments in his work to assure accomplishment of the program.

In developing safety a

Cement Section

Officers 1935-36

- General Chairman*—D. B. COLEMAN, Missouri Portland Cement Co., St. Louis, Mo.
Vice-Chairman—FREDERICK B. HUNT, Nazareth Portland Cement Co., Nazareth, Pa.
Secretary—A. J. R. CURTIS, Portland Cement Assn., Chicago, Ill.
News Letter Editor—JACK DEMPSTER, Canada Cement Co., Ltd., Port Colborne, Ont., Canada.
Engineering Committee Chairman—WILLIAM MOELLER, Lone Star Cement Co., Dallas, Texas.
Highway Safety Committee Chairman—M. A. KOFFMAN, Southwestern Portland Cement Co., Los Angeles, Calif.
Membership Committee Chairman—HENRY A. RENINGER, Lehigh Portland Cement Co., Allentown, Pa.
Poster Committee Chairman—M. P. GREER, Marquette Cement Manufacturing Co., Cape Girardeau, Mo.
Program Committee Chairman—W. J. WORTHY, Medusa Portland Cement Co., Toledo, Ohio.
Members at Large—
R. B. FORTUIN, Pennsylvania-Dixie Cement Corp., Nazareth, Pa.
E. POSSELT, International Cement Corp., New York, N. Y.
C. E. RALSTON, Pittsburgh Plate Glass Co., Pittsburgh, Pa.
F. E. TOWN, Manitowoc Portland Cement Co., Manitowoc, Wis.
H. VANDERWERP, Medusa Portland Cement Co., Cleveland, Ohio.
J. B. ZOOK, Great Lakes Portland Cement Corp., Buffalo, N. Y.
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Officers Elected for 1936-37

- General Chairman*—FRED B. HUNT, Nazareth Portland Cement Co., Nazareth, Pa.
Vice-Chairman—W. J. WORTHY, Medusa Portland Cement Co., Toledo, Ohio.
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Membership Committee Chairman—HENRY A. RENINGER, Lehigh Portland Cement Co., Allentown, Pa.
Poster Committee Chairman—J. W. KENNEDY, Huron Portland Cement Co., Detroit, Mich.
Program Committee Chairman—A. B. SUNDERLAND, Ash Grove Lime & Portland Cement Co., Kansas City, Mo.
Members at Large—
D. B. COLEMAN, Missouri Portland Cement Co., St. Louis, Mo.
R. B. FORTUIN, Pennsylvania-Dixie Cement Corp., Nazareth, Pa.
GORDON C. HUTH, Universal Atlas Cement Co., Chicago, Ill.
E. POSSELT, Lone Star Cement Corporation, New York, N. Y.
J. B. ZOOK, Great Lakes Portland Cement Corp., Buffalo, N. Y.

Chemical Section

Officers 1935-36

- General Chairman*—A. L. ARMSTRONG, Eastman Kodak Co., Rochester, N. Y.
Vice-Chairman in Charge of Program—H. L. MINER, E. I. duPont de Nemours & Co., Wilmington, Del.
Vice-Chairman in Charge of Engineering—RALPH L. ROGERS, JR., Tennessee Eastman Corp., Kingsport, Tenn.
Secretary—RALPH O. KEEFER, Aluminum Company of America, Pittsburgh, Pa.
News Letter Editor—E. L. ROOT, Celluloid Corporation, Newark, N. J.
Membership and Publicity Committee Chairman—S. D. KIRKPATRICK, Chemical and Metallurgical Engineering, New York, N. Y.
Occupational Disease Committee Chairman—DR. LEONARD GREENBURG, New York State Department of Labor, New York, N. Y.
Statistics Committee Chairman—R. C. STRATTON, The Travelers Insurance Co., Hartford, Conn.

Members at Large—

- F. E. CLANCY, JR., Mathieson Alkali Works, Inc., Niagara Falls, N. Y.
F. W. DENNIS, Hooker Electrochemical Co., Niagara Falls, N. Y.
*IRA V. KEPNER, Pennsylvania Salt Manufacturing Co., Menominee, Mich.
E. F. KING, Lever Brothers Co., Cambridge, Mass.
H. P. LEWIS, E. I. duPont de Nemours & Co., Wilmington, Del.
JOHN ROACH, Deputy Commissioner of Labor, Trenton, N. J.
C. E. SEVRENS, Merrimac Chemical Co., Inc., Boston, Mass.
JOHN S. SHAW, Hercules Powder Co., Wilmington, Del.
PLUMMER WHEELER, American Cyanamid Co., Linden, N. J.
S. E. WHITING, Liberty Mutual Insurance Co., Boston, Mass.

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Vice-Chairman in Charge of Engineering—J. J. B. FULENWIDER, Hercules Powder Co., Parlin, N. J.
Secretary—RALPH O. KEEFER, Aluminum Company of America, Pittsburgh, Pa.
News Letter Editor—F. W. DENNIS, Hooker Electrochemical Co., Niagara Falls, N. Y.
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Poster Committee Chairman—E. L. ROOT, Celluloid Corporation, Newark, N. J.
Statistics Committee Chairman—R. C. STRATTON, The Travelers Insurance Co., Hartford, Conn.

* Deceased

Members at Large—

A. L. ARMSTRONG, Eastman Kodak Co., Rochester, N. Y.
 E. F. KING, Lever Brothers Co., Cambridge, Mass.
 S. D. KIRKPATRICK, Chemical & Metallurgical Engineering, New York, N. Y.
 JOHN ROACH, Deputy Commissioner of Labor, Trenton, N. J.
 JOHN S. SHAW, Hercules Powder Co., Wilmington, Del.
 PLUMMER WHEELER, American Cyanamid Co., Linden, N. J.
 S. E. WHITING, Liberty Mutual Insurance Co., Boston, Mass.
 PETER M. WILSON, Mathieson Alkali Works (Inc.), Niagara Falls, N. Y.

TUESDAY MORNING SESSION

October 6, 1936

The opening session was called to order by General Chairman A. L. Armstrong, Eastman Kodak Co., Rochester, N. Y., who presided, introducing the speakers.

Fundamentals of Safety That Every Chemical Worker Should Know

By JOHN S. SHAW

Manager, Safety and Service Department, Hercules Powder Co., Wilmington, Del.

It is difficult to separate the fundamentals of safety that every chemical worker should know from those that every industrial worker should know. At times, the dividing line is thin. Therefore, in discussing those things that the chemical worker should know in order to work safely, we shall have to include general as well as specific safety measures.

The chemical worker should appreciate that we must breathe a certain mixture of nitrogen and oxygen in the form of pure air. That is what our organs are equipped for, and when we introduce anything into the atmosphere to change its composition, we affect life's process more or less. It is true that the human body has an immense amount of adaptability and that immunity can be relied upon in some instances to a remarkable extent; however, we should stick to the simple fundamental that nature provided for us in a normal way and we should be normal in our living.

The "rules of the game" given the chemical worker are very complete in anticipating all possible hazards, thereby

giving him the maximum possible protection. Every chemical worker should observe these rules religiously to avoid poisoning, burns, suffocation, or injury in an explosion.

This brings us to another point: When selecting chemical workers we should choose men not only of good health, but of good common sense; if possible they should have at least the equivalent of a high school training so that they will understand their instructions and the reasons therefor.

Here are safety items that every industrial and chemical worker should know:

1. A chemical worker should be thoroughly familiar with the location and use of water hydrants, safety shower baths, fire blankets, exits, and fire fighting equipment. He should be shown through the medical or first aid department and understand the importance of reporting promptly for first aid treatment for injury resulting from contact with any chemical, as well as for physical injuries. He should be trained in first aid and his training reviewed at least every three years. Com-

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Construction Section

Officers 1935-36

General Chairman—W. A. SNOW, Associated General Contractors of America, Inc., 1329 "E" Street, N. W., Washington, D. C.

Vice-Chairman for Heavy Construction and Railroad Contractors—R. J. REIGELUTH, C. W. Blakeslee & Sons, 58 Waverly St., New Haven, Conn.

Vice-Chairman for Highway Construction—F. I. ROWE, W. L. Johnson Construction Co., Hicksville, Ohio.

Vice-Chairman for U. S. Engineer Department—MAJOR ELLIOTT VANDEVANTER, C. of E., Office of the Chief of Engineers, Washington, D. C.

Vice-Chairman for Building Construction—CHESTER W. WRIGHT, Wright & Kremers, Inc., Niagara Falls, N. Y.

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

News Letter Editor—G. O. GRIFFIN, Dravo Corp., Neville Island, Pittsburgh, Pa.

Engineering Committee Chairman—E. N. GOLDSTINE, San Francisco, Calif.

Membership Committee Chairman—THOMAS BENTLEY, The A. Bentley & Sons Co., Toledo, Ohio.

Poster Committee Chairman—R. A. SNOW, Carolina Power & Light Co., Raleigh, N. C.

Program Committee Chairman—V. P. AHEARN, National Sand & Gravel Assn., Munsey Bldg., Washington, D. C.

Publicity Committee Chairman—W. P. CONN, Editor, "The Constructor," Washington, D. C.

Statistics Committee Chairman—C. H. BLACK, Stone & Webster Engineering Corp., Boston, Mass.

Past General Chairmen—

W. F. AUSTIN, Detroit, Mich.

E. N. GOLDSTINE, San Francisco, Calif.

JOHN RUSSELL, JR., Public Service Electric & Gas Co., Newark, N. J.

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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—F. I. ROWE, W. L. Johnson Construction Co., Hicksville, Ohio.

Vice-Chairman for U. S. Engineer Department—MAJOR ELLIOTT VANDEVANTER, C. of E., Office of the Chief of Engineers, Washington, D. C.

Vice-Chairman for Building Construction—CHESTER W. WRIGHT, Wright & Kremers, Inc., Niagara Falls, N. Y.

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

News Letter Editor—G. O. GRIFFIN, Dravo Corp., Neville Island, Pittsburgh, Pa.

Engineering Committee Chairman—THOMAS SOULE, Industrial Indemnity Exchange, San Francisco, Calif.

Membership Committee Chairman—F. J. CRANDELL, Liberty Mutual Insurance Co., Boston, Mass.

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

Program Committee Chairman—V. P. AHEARN, National Sand & Gravel Assn., Washington, D. C.

Publicity Committee Chairman—W. P. CONN, "The Constructor," Washington, D. C.

Statistics Committee Chairman—C. H. BLACK, Stone & Webster Engineering Corp., Boston, Mass.

Past General Chairmen—

W. F. AUSTIN, W. E. Wood Co., Detroit, Mich.

EDGAR N. GOLDSTINE, Consulting Safety Engineer, San Francisco, Calif.

JOHN RUSSELL, JR., Public Service Electric & Gas Co., Newark, N. J.

The first session was called to order by General Chairman Welton A. Snow, Associated General Contractors of America, Inc., Washington, D. C., who presided,

outlining the activities of the past year and commending the work of the various committee chairmen. Addresses were given as follows:

Construction Safety Ain't Different

By G. O. GRIFFIN

Safety Director, Dravo Corporation, Pittsburgh, Pa.

The construction industry in 1935, out of 30 major industries, ranked twenty-seventh in accident frequency and twenty-ninth in severity; and the only excuse that was ever given is, "Well, we're different." We aren't different! It's just

an alibi. The cement, quarry and public utilities industries contain many hazards similar to those of the construction industry, yet each has a superior accident rate.

The following table gives a percentage

Type of Accident	Per cent in Construction Industry	Per cent in All Industries
All types	100.0	100.0
Handling objects	25.9	26.8
Falls to the same level	9.5	9.6
Falls to a different level	8.7	14.9
Machinery	12.0	7.5
Vehicles	10.9	6.0
Falling objects	8.7	11.1
Using hand tools	7.6	7.9
Stepping on or striking against objects	5.6	6.5
Electricity, explosives, heat	3.6	2.7
Harmful substances	2.1	2.6
Other	5.4	4.4

Food Section

Officers 1935-36

General Chairman—C. W. DEMPSEY, Liquid Carbonic Corp., Chicago, Ill.
Vice-Chairman in Charge of Program—S. B. HORRELL, The Carey Salt Co., Hutchinson, Kan.
Secretary and Publicity Committee Chairman—D. M. CLARK, Society of Grain Elevator Superintendents of North America, Chicago, Ill.
News Letter Editor—C. W. TURNING, Goddard and Heinselman, Minneapolis, Minn.
Engineering Committee Chairman—FRANK A. HASSE, Corn Products Refining Co., Chicago, Ill.
Health Committee Chairman—G. H. SIBLEY, Jewel Tea Co., Inc., Barrington, Ill.
Membership Committee Chairman—FRED A. WEBB, Borden-Wieland, Inc., Chicago, Ill.
Order Committee Chairman—G. L. GORE, Bruce Dodson and Co., Kansas City, Mo.
Stales and Safety Kinks Committee Chairman—ROBERT FLEMING, Battle Creek, Mich.
Statistics Committee Chairman—G. L. RHYS, John Morrell & Co., Ottumwa, Iowa.

Directors—

H. J. ALDRICH, Spencer Kellogg and Sons, Inc., Buffalo, N. Y.
RUTH E. CADE, A. E. Staley Manufacturing Co., Decatur, Ill.
R. R. CHANEY, Coffee Products of America, Inc., Ltd., Los Angeles, Calif.
RAY J. CULKIN, Rockwood & Co., Brooklyn, N. Y.
A. B. DEAN, Commander-Larabee Corp., Minneapolis, Minn.
ALEXANDER DIENST, The National Sugar Refining Co., Long Island City, N. Y.
E. E. DREWS, Libby, McNeill & Libby, Chicago, Ill.
A. D. FERRARI, Bohemian Distributing Co., Ltd., Los Angeles, Calif.
PAUL C. GOODNOUGH, The Quaker Oats Co., Chicago, Ill.
D. R. GRANT, Beechnut Packing Co., Canajoharie, N. Y.
L. O. GREEN, Wilson & Co., Inc., Chicago, Ill.
E. C. GREYER, The American Sugar Refining Co., New York, N. Y.
THEODORE KRUEGER, Pennsylvania Hotel, New York, N. Y.
HENRY J. MINEUR, The Borden Co., New York, N. Y.
T. A. SCHENDEL, West Disinfecting Co., Chicago, Ill.
A. C. SCHROEDER, Church & Dwight Co., Syracuse, N. Y.
DR. WILMER H. SCHULZE, Director, Bureau of Environmental Hygiene, Health Dept., City of Baltimore, Md.
R. M. SEEKER, Anheuser-Busch, Inc., St. Louis, Mo.
W. W. SMITH, Smith Brothers, Inc., Poughkeepsie, N. Y.
W. E. STENVIG, General Mills, Inc., Minneapolis, Minn.
W. A. SULLIVAN, Loose-Wiles Biscuit Co., Kansas City, Mo.
VERN D. SUTTON, Postum Company, Inc., Battle Creek, Mich.
WILBUR THOMAS, Hage's, Limited, San Diego, Calif.

Officers Elected for 1936-37

General Chairman—C. W. DEMPSEY, Liquid Carbonic Corp., Chicago, Ill.
Vice-Chairman in Charge of Program—S. B. HORRELL, The Carey Salt Co., Hutchinson, Kansas.

Vice-Chairman in Charge of Membership—FRED A. WEBB, Borden-Wieland, Inc., Chicago, Ill.
Secretary—D. M. CLARK, Society of Grain Elevator Superintendents of North America, Chicago, Ill.
News Letter Editor—C. W. TURNING, Goddard & Heinselman, Minneapolis, Minn.
Engineering Committee Chairman—G. L. GORE, Bruce Dodson and Co., Kansas City, Mo.
Health Committee Chairman—DR. WILMER H. SCHULZE, Director, Bureau of Environmental Hygiene, Health Dept., City of Baltimore, Md.
Poster Committee Chairman—F. A. HASSE, Corn Products Refining Co., Chicago, Ill.
Publicity Committee Chairman—WILBUR THOMAS, Hage's, Limited, San Diego, Calif.
Slides and Safety Kinks Committee Chairman—H. J. ALDRICH, Spencer Kellogg and Co., Buffalo, N. Y.
Statistics Committee Chairman—RAY M. SEEKER, Anheuser-Busch, Inc., St. Louis, Mo.

Directors—

FRED ANDERSON, Ady & Crowe Mercantile Co., Denver, Colo.
H. A. BARKER, Hotel New Yorker, National Hotel Management, Inc., New York, N. Y.
A. L. BROWN, Post Products Div., General Foods Corp., Battle Creek, Mich.
RUTH E. CADE, A. E. Staley Manufacturing Co., Decatur, Ill.
R. R. CHANEY, Coffee Products of America, Inc., Ltd., Los Angeles, Calif.
RAY J. CULKIN, Rockwood & Co., Brooklyn, N. Y.
A. B. DEAN, Commander-Larabee Corp., Minneapolis, Minn.
E. E. DREWS, Libby, McNeill & Libby, Chicago, Ill.
J. T. FARRELL, Waldorf System, Inc., Boston, Mass.
A. D. FERRARI, Bohemian Distributing Co., Ltd., Los Angeles, Calif.
PAUL C. GOODNOUGH, The Quaker Oats Co., Chicago, Ill.
D. R. GRANT, Beechnut Packing Co., Canajoharie, N. Y.
L. O. GREEN, Wilson & Co., Inc., Chicago, Ill.
R. C. HAVEN, Continental Baking Co., New York, N. Y.
C. W. KNOWLES, El Dorado Oil Mills & Fertilizer Co., El Dorado, Ark.
L. R. MCCASH, Hemrich Brewing Co., Seattle, Wash.
W. J. MAZE, Hawaiian Sugar Planters' Association, Honolulu, Hawaii.
HENRY J. MINEUR, The Borden Co., New York, N. Y.
I. H. MORGAN, Morgan Packing Co., Austin, Ind.
JAMES L. OLIVER, American Bottlers of Carbonated Beverages, Washington, D. C.
DOUGLAS PEARN, Walgreen Drug Stores, Chicago, Ill.
GEORGE T. PECKHAM, JR., Clinton Co., Clinton, Iowa.
G. F. PFEIFFER, Moorman Manufacturing Co., Quincy, Ill.
C. L. RHYS, John Morrell & Co., Ottumwa, Iowa.
A. C. SCHROEDER, Church & Dwight Co., Syracuse, N. Y.
JOHN R. SELLERS, Joseph S. Finch & Co., Schenley, Pa.
G. H. SIBLEY, Jewel Tea Co., Inc., Barrington, Ill.
W. W. SMITH, Smith Brothers, Inc., Poughkeepsie, N. Y.
W. A. SULLIVAN, Loose-Wiles Biscuit Co., Kansas City, Mo.
LEON G. TUGAUE, National Food Products Co., New Orleans, La.
LIONEL W. UDELL, United Fruit Co., Boston, Mass.
H. E. WHEELER, JR., Henry Heide, Inc., New York, N. Y.

TUESDAY MORNING SESSION

October 6, 1936

The first session of the Food Section was called to order by General Chairman C. W. Dempsey, Liquid Carbonic Corp.,

Chicago, who presided. Chairman Dempsey welcomed the delegates and introduced the speakers.

Marine Section

Officers 1935-36

- General Chairman*—E. W. FISKE, JR., Socony-Vacuum Oil Co., Inc., New York, N. Y.
Vice-Chairman (In Charge of Posters and Slides)—ROBERT F. HAND, Standard Shipping Co., New York, N. Y.
Vice-Chairman (In Charge of Publicity)—ARTHUR M. TODE, Consulting Marine Engineer, New York, N. Y.
Vice-Chairman (For the Pacific Coast)—A. D. WOLL, General Petroleum Corp. of Calif., Terminal Island, Calif.
Secretary—CARL F. VANDER CLUTE, Admiralty Attorney, New York, N. Y.
News Letter Editor—HENRY BLACKSTONE, United States P. & I. Agency, Inc., 340 Pine St., San Francisco, Calif.
Engineering Committee Chairman—B. C. EDWARDS, Consulting Engineer, New York, N. Y.
Membership Committee Chairman—E. C. HOLDEN, JR., United States P. & I. Agency, Inc., New York, N. Y.
Program Committee Chairman—H. L. SEWARD, Yale University, New Haven, Conn.
Statistics Committee Chairman—BENJAMIN H. SELF, Travelers Insurance Company, New York, N. Y.
Stevedoring Committee Chairman—F. C. GREGORY, Waterfront Employers Association, San Francisco, Calif.

Members at Large—

- FRANK E. AMES, Lykes Bros.-Ripley Steamship Co., New Orleans, La.
W. P. BIGGS, Navy Department Safety Engineer, Washington, D. C.
C. F. BLACKTON, Erie Railroad Co., Jersey City, N. J.
FRANK H. COGAN, The Delaware, Lackawanna and Western Railroad Co., New York, N. Y.
J. M. GRISER, Alabama Dry Dock and Shipbuilding Co., Mobile, Ala.
WM. GROUNDWATER, Union Oil Co. of Calif., Los Angeles, Calif.
HENRY J. HEIDORN, Standard Shipping Co., New York, N. Y.
JOHN S. HUNTER, The Atlantic Refining Co., Philadelphia, Pa.
WILLARD F. JONES, Gulf Refining Co., New York, N. Y.
T. F. KAVANAGH, Grace Line, Inc., New York, N. Y.
R. K. KELLY, Tide Water Oil Co., New York, N. Y.
STEWART LEE, JR., New York Shipbuilding Corp., Camden, N. J.
J. L. LUCKENBACH, American Bureau of Shipping, New York, N. Y.
J. H. McEACHERN, Standard Oil Co. of Calif., San Francisco, Calif.
DANIEL J. MURPHY, Murphy, Cook & Co., Philadelphia, Pa.
CARL E. PETERSEN, Newport News Shipbuilding & Dry Dock Co., New York, N. Y.
BYRON O. PICKARD, Pacific Coast Marine Associations, San Francisco, Calif.
J. K. ROBISON, Sinclair Navigation Co., New York, N. Y.
A. J. SMITH, Marine Office of America, New York, N. Y.
W. E. STEWARDSON, Colombian Steamship Co., New York, N. Y.
J. H. TOMB, Capt. USN Rtd., New York State Merchant Marine Academy, New York, N. Y.
E. STORM TROSDAL, JR., South Atlantic S.S. Line, Savannah, Ga.
ELLIOTT VANDEVANTER, Major, Office of the Chief of Engineers, Munitions Bldg., Washington, D. C.
L. H. WESTDAHL, Dollar Steamship Lines, San Francisco, Calif.
JOHN WRIGHT, American Export Line, New York City.
G. D. ZEH, Associated Oil Co., San Francisco, Calif.

Officers Elected for 1936-37

General Chairman—E. C. HOLDEN, JR., United States P. & I. Agency, Inc., New York, N. Y.
Vice-Chairman (In Charge of Posters and Slides)—ROBERT F. HAND, Standard Oil Co. of N. J., Marine Dept., New York, N. Y.
Vice-Chairman (In Charge of Publicity)—W. E. STEWARDSON, Colombian Steamship Co., New York, N. Y.
Vice-Chairman (For the Pacific Coast)—ALBERT O. PEGG, Union Oil Company of Calif., Los Angeles, Calif.
Secretary—CARL F. VANDER CLUTE, Admiralty Attorney, New York, N. Y.
News Letter Editor—HENRY BLACKSTONE, United States P. & I. Agency, Inc., San Francisco, Calif.
Engineering Committee Chairman—B. C. EDWARDS, Atlantic Gulf and West Indies Steamship Co., New York, N. Y.
Membership Committee Chairman—E. W. FISKE, JR., Socony-Vacuum Oil Co., Inc., New York, N. Y.
Program Committee Chairman—BYRON O. PICKARD, Pacific Coast Marine Association, San Francisco, Calif.
Statistics Committee Chairman—BENJAMIN H. SELF, Travelers Insurance Company, New York, N. Y.
Stevedoring Committee Chairman—F. C. GREGORY, Waterfront Employers Association, San Francisco, Calif.

Members at Large—

FRANK E. AMES, Lykes Bros.-Ripley Steamship Co., New Orleans, La.
 W. P. BIGGS, Navy Department Safety Engineer, Washington, D. C.
 C. F. BLACKTON, Erie Railroad Co., Jersey City, N. J.
 FRANK H. COGAN, The Delaware, Lackawanna and Western Railroad Co., New York, N. Y.
 J. M. GRISER, Alabama Dry Dock and Shipbuilding Co., Mobile, Ala.
 HENRY J. HEIDORN, Standard Oil Co. of N. J., Marine Department, New York, N. Y.
 JOHN S. HUNTER, The Atlantic Refining Co., Philadelphia, Pa.
 WILLARD F. JONES, Gulf Oil Corp., New York, N. Y.
 T. F. KAVANAGH, Grace Line, Inc., New York, N. Y.
 FRANK C. LAURIE, Lago Petroleum Corp., Maracaibo, Venezuela.
 STEWART LEE, JR., New York Shipbuilding Corp., Camden, N. J.
 J. L. LUCKENBACH, American Bureau of Shipping, New York, N. Y.
 JOHN MCGRATH, John W. McGrath Corp., New York, N. Y.
 CARL E. PETERSEN, Newport News Shipbuilding & Dry Dock Co., New York, N. Y.
 H. W. PROOM, 1 Broadway, New York, N. Y.
 J. K. ROBISON, Sinclair Navigation Co., New York, N. Y.
 J. A. RUMSEY, Standard Oil Co. of Calif., Richmond, Calif.
 S. A. SCHRAMM, Black Diamond Steamship Co., Pier K, Weehawken, N. J.
 H. L. SEWARD, Yale University, New Haven, Conn.
 A. J. SMITH, Marine Office of America, New York, N. Y.
 ARTHUR M. TODE, Consulting Marine Engineer, New York, N. Y.
 G. E. TAYLOR, Federal Barge Lines, New Orleans, La.
 J. H. TOMB, New York State Merchant Marine Academy, New York, N. Y.
 ELLIOTT VANDEVANTER, Office of the Chief of Engineers, Munitions Bldg., Washington, D. C.
 L. H. WESTDAHL, Dollar Steamship Lines, San Francisco, Calif.
 A. O. WOLL, General Petroleum Corp. of Calif., Terminal Island, Calif.
 JOHN WRIGHT, American Export Lines, New York, N. Y.

TUESDAY MORNING SESSION

October 6, 1936

The opening session was called to order by Arthur M. Tode, consulting marine engineer, New York City, who presided in the absence of E. W. Fiske, Jr., So-

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Meat Packing, Tanning and Leather Industries Section

Officers 1935-36

General Chairman—E. J. McCANN, Jacob E. Decker & Sons, Mason City, Iowa.

Vice-Chairmen—

WILSON PALMER, United Shoe Machinery Corp., Beverly, Mass.
C. B. MAGRUDER, The Wm. Schludenburg-T. J. Kurdle Co., Baltimore, Md.

Secretary—PHILIP G. RHOADS, J. E. Rhoads & Sons, Wilmington, Del.

News Letter Editor—L. O. GREEN, Wilson & Company, Chicago, Ill.

Engineering Committee Chairman—HAROLD M. TOOMBS, Armour and Company, Chicago, Ill.

Membership Committee Chairman—A. A. SIERVELD, The E. Kahn's Sons Co., Cincinnati, Ohio.

Poster Committee Chairman—H. G. SCHAFFNER, Schaffner Brothers Co., Erie, Pa.

Program Committee Chairman—HENRY D. TEFFT, Institute of American Meat Packers, Chicago, Ill.

Publicity Committee Chairman—H. F. WILLHITE, Brown Shoe Co., St. Louis, Mo.

Statistics Committee Chairman—HOWARD V. E. HUNTER, Hunter Packing Co., East St. Louis, Ill.

Members at Large—

N. L. BRAINARD, Swift & Company, Chicago, Ill.
H. L. CLOVER, International Shoe Co., St. Louis, Mo.
E. E. DREWS, Libby, McNeill & Libby, Chicago, Ill.
A. E. HOLSTEDT, Wilson & Company, Chicago, Ill.
T. H. JONES, American Hair and Felt Co., Chicago, Ill.
JOHN LAUERMAN, Armour and Company, National Stock Yards, Ill.
W. F. MCCLELLAN, Armour and Company, Chicago, Ill.
A. C. MICHENER, John Morrell and Co., Ottumwa, Iowa.
DEAN MONEYMAKER, International Shoe Co., St. Louis, Mo.
R. R. ROACH, Geo. A. Hormel & Co., Austin, Minn.
A. E. SINCLAIR, Kingan & Company, Indianapolis, Ind.

Officers Elected for 1936-37

General Chairman—WILSON PALMER, United Shoe Machinery Corp., Beverly, Mass.

Vice-Chairman—PHILIP G. RHOADS, J. E. Rhoads & Sons, Wilmington, Del.

Secretary—A. A. SIERVELD, The E. Kahn's Sons Co., Cincinnati, Ohio.

News Letter Editor—L. O. GREEN, Wilson & Company, Chicago, Ill.

Engineering Committee Chairman—HAROLD M. TOOMBS, Armour and Company, Chicago, Ill.

Membership Committee Chairman—H. G. SCHAFFNER, Schaffner Brothers Co., Erie, Pa.

Poster Committee Chairman—A. E. SINCLAIR, Kingan & Company, Indianapolis, Ind.

Program Committee Chairman—HENRY D. TEFFT, Institute of American Meat Packers, Chicago, Ill.

Publicity Committee Chairman—H. F. WILLHITE, Brown Shoe Co., St. Louis, Mo.

Statistics Committee Chairman—HOWARD V. E. HUNTER, Hunter Packing Co., East St. Louis, Ill.

Members at Large—

GLENN U. BONSER, Elk Tanning Co., Ridgway, Pa.
 N. L. BRAINARD, Swift & Company, Chicago, Ill.
 H. L. CLOVER, International Shoe Co., St. Louis, Mo.
 E. E. DREWS, Libby, McNeill & Libby, Chicago, Ill.
 MAURY HOPKINS, Wilson & Company, Chicago, Ill.
 T. H. JONES, American Hair and Felt Co., Chicago, Ill.
 JOHN LAUERMAN, Armour and Company, National Stock Yards, Ill.
 E. J. McCANN, Jacob E. Decker & Sons, Mason City, Iowa.
 W. F. McCLELLAN, Armour and Company, Chicago, Ill.
 A. C. MICHENER, John Morrell and Co., Ottumwa, Iowa.
 DEAN MONEYMAKER, International Shoe Co., St. Louis, Mo.
 R. R. ROACH, Geo. A. Hormel & Co., Austin, Minn.
 EDGAR K. RUTH, The American Oak Leather Co., Cincinnati, Ohio.

MONDAY AFTERNOON SESSION

October 5, 1936

The first session was called to order by General Chairman E. J. McCann, Jacob E. Decker & Sons, Mason City, Iowa,

who summarized the progress made by the Section during the year and introduced the speakers.

Our Accident Record—What and How

By A. E. SINCLAIR

Plant Superintendent, Kingan & Co., Indianapolis, Ind.

When I talked to you last year, most of our safety program was in its infancy. Now we have definite proof that our Five Point Program has shown results. It can be summarized as follows:

1. Making every effort to provide mechanical guards and safety equipment so that our plant is as safe a working place as humanly possible.
2. Making a careful selection of employees for the job.
3. Taking the story of safety to our employees through our Employee Representation Plan.

4. Taking the story of safety to our employees through our supervisory forces.

5. And finally, coordinating all by close cooperation of management in the interests of safety.

The mechanical guards, safety shoes, arm guards, wire mesh gloves are now so much a part of the job that old-timers forget to complain and accept them as standard equipment. Our safety director is always looking for those who do not use the guards provided and also looking for hazards that have escaped notice. A monthly safety inspection by the Mechan-

Department, and specify that it be made to make for increased safety. Employees are urged to either to the safety director.

The next step is the problem on the job. We are expressing "Accidents," in his "Industrial Accidents," it as "the susceptible individual to become involved in accidents that either an inherent predisposition toward accidents or a temporary change in which increases the risk involved in an accident. Recognized the truth and exercised great care in employees. Not only has the accident rate but it has following as close commendations of the placement of workers.

binding rules as to do have certain specifications. Our specifications, for instance, are for you 30, weighing 175 to 200 pounds, 5 feet 10 inches tall, competitor's plants a man about 5 feet 10 pounds who is as fit as you would want.

We also pay a great deal for the new employee. The employment physical director explains the function of the Department and to gain the confidence of the employee. After the physical the new employee goes to the Plant Office where the safety director tells him about his job and our organization and general information, and general information.

Our Employee Representation Plan Council, through the safety director, has played a vital role in the Employee Educational Program.

The safety committee investigates each accident and each near-lost-time accident. A full analysis is made of each accident through fault of management.

Metals Section

Officers 1935-36

- General Chairman**—H. W. DARR, Bethlehem Steel Co., Johnstown, Pa.
- Vice-Chairman**—A. BERQUIST, The Youngstown Sheet and Tube Co., East Chicago, Ind.
- Vice-Chairman**—C. M. ALLEN, The American Rolling Mill Co., Middletown, Ohio.
- Vice-Chairman (In Charge of Health)**—DR. R. C. ENGEL, Corrigan-McKinney Div., Republic Steel Corp., Cleveland, Ohio.
- Secretary and News Letter Editor**—R. A. CHAFFIN, Continental Steel Corp., Kokomo, Ind.
- Contest Committee Chairman**—ROBERT L. SCHMITT, Louisville Car Wheel and Railway Supply Co., Louisville, Ky.
- Engineering Committee Chairman**—J. E. CULLINEY, Bethlehem Steel Co., Bethlehem, Pa.
- Foundry Committee Chairman**—IRWIN A. BRINKMAN, Mackintosh, Hemphill Co., Pittsburgh, Pa.
- Membership Committee Chairman**—MELL E. TRAMMELL, Gulf States Steel Co., Alabama City, Ala.
- Paster Committee Chairman**—R. H. FERGUSON, Republic Steel Corp., Cleveland, Ohio.
- Program Committee Chairman**—H. M. CROGHAN, Inland Steel Co., East Chicago, Ind.
- Publicity Committee Chairman**—C. W. HANKO, Pittsburgh Steel Co., Monessen, Pa.
- Railway Car Builders Committee Chairman**—P. J. BRAND, Pullman Standard Car Manufacturing Corp., Pullman, Chicago, Ill.
- Slides and Safety Kinks Committee Chairman**—J. A. OARTEL, Carnegie-Illinois Steel Corp., Pittsburgh, Pa.
- Statistics Committee Chairman**—W. J. IRELAND, Kohler Co., Kohler, Wis.
- Members at Large**—
- F. G. BENNETT, The Buckeye Steel Castings Co., Columbus, Ohio.
 - E. F. BLANK, Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 - J. A. COLTRIN, National Radiator Corp., Johnstown, Pa.
 - G. A. DAVIS, Carnegie-Illinois Steel Corp., Chicago, Ill.
 - M. W. DUNDORE, Beloit Iron Works Co., Beloit, Wis.
 - JOHN P. EIB, Carnegie-Illinois Steel Corp., Joliet, Ill.
 - W. T. FILMER, The Youngstown Sheet and Tube Co., Youngstown, Ohio.
 - A. C. GIBSON, Spang, Chalfant & Co., Inc., Pittsburgh, Pa.
 - O. F. HARVEY, American Car and Foundry Co., New York, N. Y.
 - S. E. HAWKES, MacWhyte Co., Kenosha, Wis.
 - H. H. HENRY, Otis Steel Co., Cleveland, Ohio.
 - H. G. HENSEL, The Youngstown Sheet and Tube Co., Chicago, Ill.
 - W. A. JARVIS, The Chase Companies, Waterbury, Conn.
 - E. A. LAUERMAN, Republic Steel Corp., South Chicago, Ill.
 - T. H. MCKENNEY, Chicago, Ill.
 - D. V. MEDALIE, Interlake Iron Corp., Chicago, Ill.
 - JOHN O'ROURK, Bethlehem Steel Co., Sparrows Point, Md.
 - C. E. RALSTON, Pittsburgh Plate Glass Co., Pittsburgh, Pa.
 - FRANK ROWE, Wheeling Steel Corp., Portsmouth, Ohio.
 - HERMAN SPOERER, The Youngstown Sheet and Tube Co., Evanston, Ill.
 - J. K. STAFFORD, Mississippi Valley Structural Steel Co., Decatur, Ill.
 - J. A. VOSS, Republic Steel Corp., Cleveland, Ohio.

* Deceased.

Officers Elected for 1936-37

General Chairman—C. M. ALLEN, The American Rolling Mill Co., Middletown, O.
Vice-Chairman—R. A. CHAFFIN, Continental Steel Corp., Kokomo, Ind.
Secretary and News Letter Editor—MELL E. TRAMMELL, Gulf States Steel Co., Alabama City, Ala.
Contest Committee Chairman—ROBERT L. SCHMITT, Louisville Car Wheel and Railway Supply Co., Louisville, Ky.
Engineering Committee Chairman—R. H. FERGUSON, Republic Steel Corp., Cleveland, O.
Foundry Committee Chairman—IRVIN A. BRINKMAN, Mackintosh-Hemphill Co., Pittsburgh, Pa.
Health Committee Chairman—DR. R. C. ENGEL, Republic Steel Corp., Cleveland, O.
Membership Committee Chairman—H. J. GRIFFITH, Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Poster Committee Chairman—H. H. HENRY, Otis Steel Co., Cleveland.
Program Committee Chairman—C. W. HANKO, Pittsburgh Steel Co., Monessen, Pa.
Publicity Committee Chairman—C. E. RALSTON, Pittsburgh Plate Glass Co., Pittsburgh, Pa.
Railway Car Builders Committee Chairman—P. J. BRAND, Pullman Standard Car Manufacturing Corp., Pullman, Chicago.
Slides and Safety Kinks Committee Chairman—J. A. OARTEL, Carnegie-Illinois Steel Co., Pittsburgh, Pa.
Statistics Committee Chairman—W. T. FILMER, The Youngstown Sheet and Tube Co., Youngstown, Ohio.

Members at Large—

F. G. BENNETT, The Buckeye Steel Castings Co., Columbus, O.
 R. A. BEYER, Central Tube Co., Ambridge, Pa.
 C. A. BIANCHI, H. H. Robertson Co., Ambridge, Pa.
 E. F. BLANK, Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 J. A. COLTRIN, National Radiator Corp., Johnstown, Pa.
 C. S. CRAIGMILE, Belden Manufacturing Co., Chicago, Ill.
 H. M. CROGHAN, Inland Steel Co., East Chicago, Ind.
 J. E. CULLINEY, Bethlehem Steel Co., Bethlehem, Pa.
 H. W. DARR, Bethlehem Steel Co., Johnstown, Pa.
 M. W. DUNDORE, Beloit Iron Works Co., Beloit, Wis.
 B. T. DYE, Republic Steel Corp., Warren, O.
 JOHN P. EIB, Carnegie-Illinois Steel Corp., Joliet, Ill.
 E. A. ELLIS, Wheeling Steel Corp., Wheeling, W. Va.
 J. P. GATHERUM, Great Lakes Steel Corp., Ecorse, Mich.
 A. C. GIBSON, Spang Chalfant Co., Inc., Pittsburgh, Pa.
 O. F. HARVEY, American Car and Foundry Co., New York, N. Y.
 S. E. HAWKES, Macwhyte Company, Kenosha, Wis.
 H. G. HENSEL, The Youngstown Sheet and Tube Co., Chicago, Ill.
 W. A. JARVIS, Chase Brass & Copper Co., Waterbury, Conn.
 F. A. LAUERMAN, Republic Steel Corp., Chicago, Ill.
 T. H. MCKENNEY (retired), Carnegie-Illinois Steel Co., Chicago, Ill.
 D. V. MEDALIE, Interlake Iron Corp., Chicago, Ill.
 JOHN O'ROURK, Bethlehem Steel Co., Sparrows Point, Md.
 C. S. PHILLIPS, Revere Copper & Brass, Inc., Rome, N. Y.
 FRANK ROWE, Wheeling Steel Corp., Portsmouth, O.
 A. C. SCHULTZ, Bucyrus-Erie Co., So. Milwaukee, Wis.
 H. J. SPOERER, The Youngstown Sheet and Tube Co., East Chicago, Ind.
 E. J. STERNER, Bethlehem Steel Co., Bethlehem, Pa.
 J. A. VOSS, Republic Steel Corp., Cleveland, O.

MONDAY AFTERNOON SESSION

October 5, 1936

The opening session was called to order by General Chairman H. W. Darr, Bethlehem Steel Co., Johnstown, Pa., who presided. Chairman Darr welcomed

Mining Section

Officers 1935-36

- General Chairman*—J. W. ALT, Calumet & Hecla Consolidated Copper Co., Calumet, Mich.
Vice-Chairman in Charge of Membership—C. W. GIBBS, Harwick Coal and Coke Co., Pittsburgh, Pa.
Vice-Chairman in Charge of Engineering—C. J. BARRETT, Oliver Iron Mining Co., Duluth, Minn.
Vice-Chairman in Charge of Health—LEE LONG, Clinchfield Coal Corp., Dante, Va.
Secretary—DANIEL HARRINGTON, United States Bureau of Mines, Washington, D. C.
Entertainment Committee Chairman—WM. G. METZGER, Hudson Coal Co., Scranton, Pa.
Program Committee Chairman—R. N. HOSLER, Coal Mine Section, Pennsylvania Compensation Rating and Inspection Bureau, Harrisburg, Pa.
Poster and Slide Committee Chairman—J. J. FORBES, United States Bureau of Mines, Pittsburgh, Pa.
Publicity Committee Chairman—M. R. BUDD, The Explosives Engineer, Wilmington, Del.
Statistics Committee Chairman—W. W. ADAMS, United States Bureau of Mines, Washington, D. C.

Members at Large--

- P. M. ARTHUR, American Zinc Co. of Tennessee, Mascot, Tenn.
 JOHN L. BOARDMAN, Anaconda Copper Mining Co., Butte, Mont.
 ANGUS D. CAMPBELL, McIntyre Porcupine Mines, Ltd., Schumacher, Ont., Canada.
 W. H. COMINS, National Pigments and Chemical Co., Potosi, Mo.
 THOMAS E. LIGHTFOOT, Koppers Coal Co., Pittsburgh, Pa.
 GEORGE MARTINSON, Pickands Mather & Co., Cleveland, Ohio.
 D. D. MOFFAT, Utah Copper Co., Salt Lake City, Utah.
 V. O. MURRAY, The Union Pacific Coal Co., Rock Springs, Wyo.
 R. B. PAUL, New Jersey Zinc Co., New York, N. Y.
 L. T. SICKA, St. Joseph Lead Co., Bonne Terre, Mo.

Officers Elected for 1936-37

- General Chairman*—C. W. GIBBS, Harwick Coal and Coke Co., Pittsburgh, Pa.
Vice-Chairman in Charge of Engineering—G. J. BARRETT, U. S. Steel Corporation Subsidiaries, Duluth, Minn.
Vice-Chairman in Charge of Health—LEE LONG, Clinchfield Coal Corp., Dante, Va.
Vice-Chairman in Charge of Membership—ANGUS D. CAMPBELL, McIntyre Porcupine Mines, Ltd., Schumacher, Ont., Canada.
Secretary and News Letter Editor—DANIEL HARRINGTON, United States Bureau of Mines, Washington, D. C.
Poster and Slide Committee Chairman—J. J. FORBES, United States Bureau of Mines, Pittsburgh, Pa.

Program Committee Chairman—L. C. CAMPBELL, The Koppers Coal Co., Pittsburgh, Pa.

Publicity Committee Chairman—M. R. BUDD, The Explosives Engineer, Wilmington, D. C.

Statistics Committee Chairman—W. W. ADAMS, United States Bureau of Mines, Washington, D. C.

Members at Large—

THOMAS ALLEN, Chief Coal Mine Inspector, State of Colorado, Denver, Colo.

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

P. M. ARTHUR, American Zinc Co. of Tennessee, Mascot, Tenn.

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

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

C. W. CONNER, Nellis Coal Corp., Nellis, Boone County, W. Va.

MAURICE COULTER, Clearfield Bituminous Coal Corp., Indiana, Pa.

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

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

RUSH N. HOSLER, Coal Mine Section, Pennsylvania Compensation Rating & Insurance Bureau, Harrisburg, Pa.

C. F. KECK, Jamison Coal Corp., Greensburg, Pa.

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

WM. 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.

R. B. PAUL, New Jersey Zinc Co., New York, N. Y.

JOHN T. RYAN, Mine Safety Appliances Co., Pittsburgh, Pa.

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

JOHN TREWEEK, Homestake Mining Co., Lead, S. D.

TUESDAY MORNING SESSION

October 6, 1936

The first session was called to order by General Chairman J. W. Alt, Calumet & Hecla Consolidated Copper Co., Calumet, Mich., who summarized the progress of the Section during the year and introduced the speakers.

Coordinating Health Conservation With Safety in the Mining Industry

By FRED A. KRAFFT

Director of Employees' Service, Consolidation Coal Company, Inc., Fairmont, W. Va.

The average industrial worker is only about 75 per cent physically efficient. The principal reason for the missing 25 per cent is largely due to ignorance on the part of the worker of such important subjects affecting his mental and physical

condition as dietetics, nutrition, the prudent purchase, the efficient preparation and the chemistry of foods, personal hygiene, control and cure of communicable diseases, treatment of diseases affecting the functional organs of the body and

Paper and Pulp Section

Officers 1935-36

- General Chairman*—E. E. GRANT, The Crystal Tissue Co., Middletown, Ohio.
Vice-Chairman in Charge of Membership—F. L. IRVIN, St. Croix Paper Co., Woodland, Maine.
Secretary and Program Committee Chairman—GEORGE J. ADAMS, International Paper Co., Glen Falls, N. Y.
News Letter Editor and Publicity Committee Chairman—FRED W. BRAUN, Employers Mutuals, Wausau, Wis.
Contest Committee Chairman—A. SCOTT DOWD, The Paper Industry, Chicago, Ill.
Engineering Committee Chairman—J. H. TURNER, Consolidated Paper Corp., Ltd., Montreal, P. Q., Canada.
Health Committee Chairman—DR. E. W. PAINE, Hollingsworth & Whitney Co., Waterville, Maine.
Poster Committee Chairman—CLAYTON BRAATZ, Marathon Paper Mills, Rothschild, Wis.
Statistics Committee Chairman—A. E. WINSLOW, Hollingsworth & Whitney Co., Waterville, Maine.

Members at Large—

- ERNEST AUGUSTUS, Mead Paper Corp., Chillicothe, Ohio.
W. J. BRENNAN, Maine Dept. of Labor and Industry, Augusta, Maine.
D. B. CHANT, Ontario Pulp & Paper Maker's Safety Assn., Toronto, Ont., Canada.
T. L. CHRISTENSEN, Continental Paper & Bag Corp., Marinette, Wis.
KENNETH L. FAIST, The Champion Paper and Fibre Company, Hamilton, Ohio.
W. A. GLEASON, Hammermill Paper Co., Erie, Pa.
J. J. HASTINGS, Port Huron Sulphite & Paper Co., Port Huron, Mich.
DON E. McDOWELL, Kalamazoo, Vegetable Parchment Co., Kalamazoo, Mich.
ARTHUR MURRAY, Container Corp. of America, Chicago, Ill.
W. J. PEACOCK, Northern Paper Mills, Green Bay, Wis.
J. J. PLZAK, Consolidated Water Power & Paper Co., Wisconsin Rapids, Wis.
SAMUEL PRUYN, Finch-Pruyn and Co., Inc., Glens Falls, N. Y.
F. A. ROBINSON, Kimberly-Clark Corp., Neenah, Wis.
B. D. ROGERS, Bird & Son, Inc., East Walpole, Mass.
F. H. ROSEBUSH, Nekoosa-Edwards Paper Co., Port Edwards, Wis.

Officers Elected for 1936-37

- General Chairman*—GEORGE J. ADAMS, International Paper Co., Glens Falls, N. Y.
Vice-Chairman in Charge of Membership—ARTHUR E. WINSLOW, Hollingsworth & Whitney Co., Waterville, Me.
Secretary and Program Committee Chairman—F. A. ROBINSON, Kimberly-Clark Corp., Neenah, Wis.
News Letter Editor and Publicity Committee Chairman—CLAYTON BRAATZ, Marathon Paper Mills, Rothschild, Wis.

Contest Committee Chairman—A. SCOTT DOWD, The Paper Industry, Chicago, Ill.

Engineering Committee Chairman—D. B. CHANT, The Ontario Pulp & Paper Manufacturing Safety Assn., Toronto, Ont., Canada.

Health Committee Chairman—DR. EDWARD W. PAINE, Hollingsworth & Whitney Co., Waterville, Me.

Poster Committee Chairman—J. H. TURNER, Consolidated Paper Corp., Ltd., Grand Marais, P. Q., Canada.

Statistics Committee Chairman—FRED W. BRAUN, Employers Mutuals, Wausau, Wis.

Members at Large—

ERNEST AUGUSTUS, The Mead Corporation, Chillicothe, O.

W. J. BRENNAN, Maine Department of Labor and Industry, Augusta, Me.

M. W. DUNDORE, Beloit Iron Works, Beloit, Wis.

K. L. FAIST, The Champion Paper and Fibre Co., Hamilton, O.

W. A. GLEASON, Hammermill Paper Co., Erie, Pa.

E. E. GRANT, The Crystal Tissue Co., Middletown, O.

J. J. HASTINGS, Port Huron Sulphite & Paper Co., Port Huron, Mich.

C. O. HOLMER, Minnesota and Ontario Paper Co., Minneapolis, Minn.

F. L. IRVIN, St. Croix Paper Co., Woodland, Me.

D. A. McALARY, Fraser Companies, Ltd., Edmundston, N. B., Canada.

DON E. McDOWELL, Kalamazoo Vegetable Parchment Co., Kalamazoo, Mich.

ARTHUR MURRAY, Container Corporation of America, Chicago, Ill.

H. G. NOYES, Oxford Paper Company, Rumford, Me.

J. J. PLZAK, Consolidated Water Power & Paper Co., Wisconsin Rapids, Wis.

SAMUEL PRUYN, Finch-Pruyn Co., Inc., Glens Falls, N. Y.

B. D. ROGERS, Bird & Son, Inc., East Walpole, Mass.

F. H. ROSEBUSH, Nekoosa-Edwards Paper Co., Port Edwards, Wis.

S. F. SHATTUCK, Kimberly-Clark Corp., Neenah, Wis., Representative, The American Paper and Pulp Association.

L. R. SIMPSON, The Brown Paper Mill Co., Inc., West Monroe, La.

MONDAY AFTERNOON SESSION

October 5, 1936

The opening session was called to order by General Chairman E. E. Grant, the Crystal Tissue Co., Middletown, Ohio, who presided. Chairman Grant

reported on the progress of the Section during the past year, commending the various committee chairmen on their activities.

Report of Accident Experience Exchange

By A. E. WINSLOW

Manager of Personnel, Hollingsworth & Whitney Co., Waterville, Me.

In spite of the fact that 125 plants reported 1,513 accidents in the Paper Industry Safety Contest this year against 111 plants and 1,448 accidents in last year's contest, the number of reports submitted to our Experience Exchange

dropped from 239 last year to 108 this year. We find but 24 plants, out of the 125 reporting in the contest, submitting reports for the Exchange. Of the 18 companies and 36 plants reporting in last year's Exchange, 9 companies and 18

Petroleum Section

Officers 1935-36

- General Chairman*—R. B. ROAPER, Humble Oil and Refining Co., Houston, Texas.
Vice-Chairman—A. W. BREELAND, Lone Star Gas Co., Dallas, Texas.
Atlantic Division Chairman—ARCHER ASHTON, Socony-Vacuum Oil Co., Paulsboro, N. J.
Great Lakes Division Chairman—GLENN BYERS, Shell Petroleum Corp., St. Louis, Mo.
Mid-Continent Division Chairman—R. S. HUFFMAN, Oklahoma Natural Gas Co., Tulsa, Okla.
Rocky Mountain Division Chairman—A. T. ECKWALL, Stanolind Oil and Gas Co., Mid-west, Wyo.
Gulf Division Chairman—J. L. MANES, Sun Oil Co., Dallas, Texas.
Pacific Division Chairman—R. B. HECOX, Standard Oil Co. of Calif., Taft, Calif.
News Letter Editor—W. B. MURPHY, Atlantic Refining Co., Philadelphia, Pa.
Engineering Committee Chairman—CHAS. A. MILLER, The Texas Co., Houston, Texas.
Health Committee Chairman—DR. V. C. BAIRD, Humble Oil and Refining Co., Houston, Texas.
Welfare Committee Chairman—A. J. MARTINSON, Union Oil Co. of California, Los Angeles, Calif.
Program Committee Chairman—G. O. LOCKWOOD, The Empire Companies, Bartlesville, Okla.
Publicity Committee Chairman—J. H. SAVAGE, Mid-Continent Petroleum Corp., Tulsa, Okla.
Statistics Committee Chairman—J. W. MYERS, Standard Oil Co., (N.J.) New York, N. Y.
- Past General Chairmen*—
 R. W. BLACK, Standard Oil Co. of N. J., Elizabeth, N. J.
 R. S. BONSBIE, Standard Oil Co. (N. J.) New York, N. Y.
 V. R. CURRIE, The Texas Co., Houston, Texas.
 R. E. DONOVAN, Standard Oil Co. of California, San Francisco, Calif.
 C. L. HIGHTOWER, United Gas Co., Houston, Texas.
 G. O. LOCKWOOD, The Empire Companies, Bartlesville, Okla.
 GEO. F. PRUSSING, Union Oil Co. of California, Los Angeles, Calif.
 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 City.

Officers Elected for 1936-37

- General Chairman*—A. W. BREELAND, Lone Star Gas Co., Dallas, Texas.
Vice-Chairman—A. J. MARTINSON, Union Oil Co. of Calif., Los Angeles, Calif.
News Letter Editor—J. H. BROWN, Tide Water Oil Company, New York, N. Y.

Engineering Committee Chairman—E. D. MURPHEY, Mid-Continent Petroleum Corp., Tulsa, Okla.

Health Committee Chairman—DR. V. C. BAIRD, Humble Oil and Refining Co., Houston, Texas.

Poster Committee Chairman—H. T. MARKEE, Phillips Petroleum Co., Bartlesville, Okla.

Program Committee Chairman—R. B. ROAPER, Humble Oil and Refining Co., Houston, Texas.

Publicity Committee Chairman—GLENN BYERS, Shell Petroleum Corp., St. Louis, Mo.

Statistics Committee Chairman—J. W. MYERS, Standard Oil Co. (N. J.), New York, N. Y.

Atlantic Division Chairman—R. L. SIMPSON, The Texas Company, New York, N. Y.

Great Lakes Division Chairman—F. R. McLEAN, Socony-Vacuum Oil Co., Inc., White Star Div., Detroit, Mich.

Gulf Division Chairman—D. B. HIATT, Texas Pacific Coal & Oil Company, Fort Worth, Texas.

Mid-Continent Division Chairman—KRAUS EARTHART, The Texas Company, Tulsa, Okla.

Pacific Division Chairman—L. K. BUTLER, Union Oil Company of Calif., Los Angeles, Calif.

Rocky Mountain Division Chairman—B. V. OSBORN, Standard Oil Co. (Ind.), Casper, Wyo.

Past General Chairmen—

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

R. S. BONSIB, Standard Oil Co. (N. J.), New York, N. Y.

V. R. CURRIE, The Texas Company, Houston, Texas.

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

C. L. HIGHTOWER, United Gas System, Houston, Texas.

G. O. LOCKWOOD, The Empire Companies, Bartlesville, Okla.

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

R. B. ROAPER, Humble Oil and 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 MORNING SESSION

October 6, 1936

The first session was called to order by General Chairman R. B. Roaper, Humble Oil & Refining Co., Houston, Texas, who

presided. Chairman Roaper welcomed the delegates and reported on the progress of the Section during the year.

Accident Investigations

By A. W. BREELAND

Supervisor of Safety, Lone Star Gas Co., Dallas, Texas

Under our system an investigation is really made on every accident reported. To complete the report which we require on each injury, the foreman or supervisor

must, in addition to giving a detailed description of the accident, answer a few questions which can not be answered without at least a partial investigation.

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Power Press Section

Officers 1935-36

- General Chairman*—E. J. WALLMAN, Great Lakes Forge Co., Chicago, Ill.
Vice-Chairman—P. G. HUNTER, Motor Wheel Corp., Lansing, Mich.
Vice-Chairman (In Charge of Membership)—B. E. ROCKHOFF, Detroit Steel Products Co., Detroit, Mich.
Secretary—E. H. MEEKS, Transue & Williams Steel Forging Corp., Alliance, Ohio.
News Letter Editor—R. M. ZELDER, Edison General Electric Appliance Co., Chicago, Ill.
Engineering Committee Chairman—LOUIS BORAKS, Liberty Mutual Insurance Co., Boston, Mass.
Health Committee Chairman—DR. R. M. KELLY, Western Electric Co., Chicago, Ill.
Exhibit Committee Chairman—V. G. PENDLETON, West Lynn Plant, General Electric Co., West Lynn, Mass.
Poster Committee Chairman—G. S. THOMPSON, Central Mutual Insurance Co. of Chicago, Detroit, Mich.
Program Committee Chairman—H. C. HOWSAM, Hubbard Spool Co., Chicago, Ill.
Statistics and Publicity Committee Chairman—G. H. BERRY, Western Electric Co., Chicago, Ill.
Slides and Safety Kinks Committee Chairman—E. C. SCHULTES, JR., C. Hager & Sons, Hinge Manufacturing Co., St. Louis, Mo.
Members at Large—
 W. J. GRAVES, Michigan Mutual Liability Co., Detroit, Mich.
 J. W. HENNING, Automatic Electric Co., Chicago, Ill.
 *A. L. KAEMS, Employers Mutual Liability Insurance Co., Wausau, Wis.
 G. A. KUECHENMEISTER, Dominion Forge and Stamping Co., Walkerville, Ont., Canada.
 C. E. LIBBY, Scintilla Magneto Co., Sidney, N. Y.
 J. D. LYLE, Fisher Body Company of Cleveland, Cleveland, Ohio.
 T. O. MEISNER, American Can Co., Chicago, Ill.
 S. H. SLAYMAKER, Fairbanks Morse & Co., Beloit, Wis.
 *E. J. SMITH, Western Electric Co., Chicago, Ill.
 H. L. VITS, Aluminum Goods Manufacturing Co., Manitowoc, Wis.

Officers Elected for 1936-37

- General Chairman*—P. G. HUNTER, Motor Wheel Corp., Lansing, Mich.
Vice-Chairman (In Charge of Posters)—B. E. ROCKHOFF, Detroit Steel Products Co., Detroit, Mich.
Vice-Chairman (In Charge of Membership)—H. C. HOWSAM, Hubbard Spool Co., Chicago, Ill.
Vice-Chairman and Secretary—G. H. BERRY, Western Electric Co., Chicago, Ill.
News Letter Editor—V. G. PENDLETON, West Lynn Plant, General Electric Co., West Lynn, Mass.
Engineering Committee Chairman—LOUIS BORAKS, Liberty Mutual Insurance Co., Boston, Mass.

*Deceased.

Exhibit Committee Chairman—E. C. SCHULTES, JR., C. Hager & Sons Hinge Manufacturing Co., St. Louis, Mo.

Health Committee Chairman—DR. A. L. BROOKS, Fisher Body Co., Detroit, Mich.

Program Committee Chairman—R. M. ZELDER, Edison General Electric Appliance Co., Chicago, Ill.

Publicity Committee Chairman—E. H. MEEKS, Transue & Williams Steel Forging Corp., Alliance, Ohio.

Slides and Safety Kinks Committee Chairman—G. S. THOMPSON, Central Mutual Insurance Co. of Chicago, Detroit, Mich.

Statistics Committee Chairman—J. R. COX, Fairbanks Morse & Co., Beloit, Wis.

Members at Large—

P. J. BRAND, Pullman Standard Car Manufacturing Corp., Pullman, Chicago, Ill.

W. J. GRAVES, Michigan Mutual Liability Co., Detroit, Mich.

J. W. HENNING, Automatic Electric Co., Chicago, Ill.

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

C. E. LIBBY, Scintilla Magneto Co., Sidney, N. Y.

J. D. LYLE, Fisher Body Company of Cleveland, Cleveland, Ohio.

T. O. MEISNER, American Can Company, Chicago, Ill.

S. H. SLAYMAKER, Fairbanks Morse & Co., Beloit, Wis.

H. L. VITS, Aluminum Goods Manufacturing Co., Manitowoc, Wis.

E. J. WALLMAN, Great Lakes Forge Co., Chicago, Ill.

MONDAY AFTERNOON SESSION

October 5, 1936

The first session was called to order by General Chairman E. J. Wallman, Great Lakes Forge Co., Chicago, who presided. Chairman Wallman welcomed the delegates to the session, which marked the celebration of the tenth anniversary of the Power Press Section. He also reported on the progress of the Section during the

year and commended the various committees on their activities. A resolution regarding the death of Elmer J. Smith, Safety and Health Director at the Hawthorne Works of the Western Electric Co. and past chairman and member of the Executive Committee of the Power Press Section, was passed as follows:

Resolution of Sympathy

WHEREAS, It has pleased the Almighty to remove from our midst, so suddenly by death, our esteemed friend and co-worker, ELMER J. SMITH, who has for many years occupied a prominent position of leadership in safety activities in the Power Press Section of the National Safety Council, always assisting in every problem confronting us.

THEREFORE, BE IT RESOLVED, That while we deeply deplore the death of our beloved friend and companion, whose fellowship it was an honor and a pleasure to enjoy, we rejoice in the fact that the privilege of having known him and worked with him will abide with us always.

RESOLVED, That he was to us a beacon, ever directing, and a guiding light in the safety movement in which he has done so much good.

RESOLVED, That we transmit a copy of this Resolution, properly engrossed, with our deep and most sincere sympathy to the widow of our deceased friend.

A Decade

Accident Prev

The National Safety Council statistics for 1935 are worthy of note. The Council in "Accident Statistics" available for the press operators must be taken from the Council in "Accident Statistics" available for the press operators. The Council in "Accident Statistics" available for the press operators. The Council in "Accident Statistics" available for the press operators.

Cause

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Vehicles

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Falling Objects

Using Hand To

Stepping Upon

Objects

Electricity, Exp

Heat

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The distribution of accidents by nature of injury is the experience of all.

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Bruises and Con

Strains and Spr

Fractures

Burns and Scald

Amputations . . .

All Others

In accidental injury during 1935 the share which are the nearest to the power press work, ranked of 30 industries in first severity.

In endeavoring to picture of how much power presses safety during the past year the National Safety Council has made a study of the experience of the power press industry and metal products.

Applying this com-

Public Utilities Section

Officers 1935-36

General Chairman—ROY M. GODWIN, Philadelphia Electric Co., Philadelphia, Pa.
Vice-Chairman for Telephone and Telegraph Interests—W. P. ELSTUN, American Telephone and Telegraph Co., New York, N. Y.

Vice-Chairman for Gas Interests—JOHN J. BARADA, The Laclede Gas Light Co., St. Louis, Mo.

Vice-Chairman for Electric Interests—W. H. BROWN, Northern States Power Co., Minneapolis, Minn.

Secretary—H. A. PTOLEMY, Public Service Co. of Northern Illinois, Chicago, Ill.

News Letter Editor—R. B. INMAN, The Philadelphia Gas Works Co., Philadelphia, Pa.

Engineering Committee Chairman—W. H. MULLIGAN, Hydro-Electric Power Commission of Ontario, Toronto, Ont., Canada.

Health Committee Chairman—DR. HART E. FISHER, Chicago Rapid Transit Co., Chicago, Ill.

Membership Committee Chairman—C. H. DINSMORE, Wisconsin Power & Light Co., Madison, Wis.

Program Committee Chairman—H. W. LUECK, Commonwealth Edison Co., Chicago, Ill.

Publicity Committee Chairman—RAY A. EDWARDS, San Diego Consolidated Gas and Electric Co., San Diego, Calif.

Statistics and Contest Committee Chairman—C. L. HIGHTOWER, United Gas Co., Houston, Texas.

Visual Education Committee Chairman—E. P. DURFEE, Consolidated Gas Co. of New York, New York, N. Y.

Special Representatives—

W. A. BUCHANAN, Appalachian Electric Power Co., Welch, W. Va. (E.E.I.).

M. T. CASTER, Lincoln Telephone and Telegraph Co., Lincoln, Nebr.

I. L. GILBERT, Michigan Bell Telephone Co., Detroit, Mich.

JAMES D. HALL, Atlantic City Electric Co., Atlantic City, N. J.

A. A. KLINGE, Public Service Co. of Colorado, Denver, Colo.

W. J. MCVAY, Consolidated Electric and Gas Co., New York, N. Y. (A.G.A.).

E. P. NOYES, Central Maine Power Co., Augusta, Maine.

H. E. SHEDD, Appalachian Electric Power Co., Bluefield, W. Va.

P. K. STILES, Compania Cubana de Electricidad, Maximo Gomez (Antes Monte) No. 1

—Apartado 1715, Habana, Cuba.

Councilors—

E. S. BEAUMONT, The Peoples Gas Light & Coke Co., Chicago, Ill.

C. B. BOULET, Wisconsin Public Service Corp., Milwaukee, Wis.

G. A. DOELLER, Dayton Power & Light Co., Dayton, Ohio.

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

WILLS MACLACHLAN, Electrical Engineer, Toronto, Ont., Canada.

B. B. MCCULLOCH, Bureau of Safety, Chicago, Ill.

GEORGE OPP, The Detroit Edison Co., Detroit, Mich.

F. M. PEPPER, Illinois Bell Telephone Co., Chicago, Ill.

C. J. RUTLAND, Texas Power & Light Co., Dallas, Texas.

J. L. VANDEGRIFT, The Chesapeake and Potomac Telephone Co., Washington, D. C.

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

H. M. WEBBER, Illinois Bell Telephone Co., Chicago, Ill.

Officers Elected for 1936-37

General Chairman—JOHN J. BARADA, The Laclede Gas Light Co., St. Louis, Mo.
Vice-Chairman for Telephone and Telegraph Interests—W. P. ELSTUN, American Telephone and Telegraph Co., New York, N. Y.

Vice-Chairman for Gas Interests—E. P. DURFEE, Consolidated Edison Co. of N. Y., Inc., New York, N. Y.

Vice-Chairman for Electric Interests—WM. H. BROWN, Northern States Power Co., Minneapolis, Minn.

Secretary—H. A. PTOLEMY, Public Service Co. of Northern Illinois, Chicago, Ill.

News Letter Committee—

R. B. INMAN, *Chairman*, The Philadelphia Gas Works Co., Philadelphia, Pa.

CHARLES S. BOWDEN, Ohio Public Service Co., Alliance, Ohio.

JAMES D. HALL, Atlantic City Electric Co., Atlantic City, N. J.

E. R. KROPP, Union Electric Light and Power Co., St. Louis, Mo.

Engineering Committee—

W. H. MULLIGAN, *Chairman*, Hydro-Electric Power Commission of Ontario, Toronto, Ont., Canada.

A. A. KLINGE, Public Service Co. of Colorado, Denver, Colo.

PAUL R. KUHN, Penn Central Light & Power Co., Altoona, Pa.

JOHN P. McCANN, New England Power Assn., Boston, Mass.

W. J. McVAY, Consolidated Electric and Gas Co., New York, N. Y.

Health Committee Chairman—DR. HART E. FISHER, Chicago Rapid Transit Co., Chicago, Ill.

Visual Education Committee Chairman—C. L. HIGHTOWER, United Gas System, Houston, Texas.

Publicity Committee Chairman—R. S. METZGER, The Toledo Edison Co., Toledo, Ohio.

Membership Committee—

H. W. LUECK, (Chairman), Commonwealth Edison Co., Chicago, Ill.

HARRY BERMAN, Consolidated Gas & Electric Co., Baltimore, Md.

M. T. CASTER, Lincoln Telephone and Telegraph Co., Lincoln, Nebr.

E. P. Noyes, Central Maine Power Co., Augusta, Maine.

E. A. RUST, Erie County Electric Co., Erie, Pa.

H. E. SHEDD, Appalachian Electric Power Co., Bluefield, W. Va.

R. STEELE, Oklahoma Gas and Electric Company, Oklahoma City, Okla.

P. K. STILES, Compania Cubana de Electricidad, Habana, Cuba.

Program Committee Chairman—C. H. DINSMORE, Wisconsin Power & Light Co., Madison, Wis.

Special Representatives—W. A. BUCHANAN, Appalachian Electric Power Co., Welch, W. Va. (E. E. I.)

CHARLES J. GEFVERT, *Chairman*, Accident Prevention Committee, American Gas Association.

Councilors—

E. S. BEAUMONT, The Peoples Gas Light & Coke Co., Chicago, Ill.

C. B. BOULET, Wisconsin Public Service Corp., Milwaukee, Wis.

G. A. DOELLER, The Dayton Power & Light Co., Dayton, Ohio.

ROY M. GODWIN, Philadelphia Electric Co., Philadelphia, Pa.

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

WILLS MACLACHLAN, Electrical Engineer, Toronto, Ont., Canada.

B. B. McCULLOCH, Bureau of Safety, Chicago, Ill.

GEORGE OPP, Detroit Edison Company, Detroit, Mich.

F. M. PEPPER, Illinois Bell Telephone Co., Chicago, Ill.

C. J. RUTLAND, Texas Power & Light Company, Dallas, Texas.

J. L. VANDEGRIFT, The Chesapeake and Potomac Telephone Co., Washington, D. C.

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

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Quarry Section

Officers 1935-36

General Chairman—ALEXANDER FOSTER, JR., Warner Co., Philadelphia, Pa.
Vice-Chairman—RUSSELL RAREY, The Marble Cliff Quarries Co., Columbus, Ohio.
Secretary and News Letter Editor—N. B. SIPE, J. E. Baker Co., York, Pa.
Poster Committee Chairman—H. F. YOTTER, The General Crushed Stone Co., Easton, Pa.
Publicity Committee Chairman—J. R. BOYD, National Crushed Stone Assn., Washington, D. C.
Statistics Committee Chairman—W. W. ADAMS, U. S. Bureau of Mines, Washington, D. C.

Members at Large—

V. P. AHEARN, National Sand and Gravel Assn., Washington, D. C.
WILLIAM H. BAKER, J. E. Baker Co., York, Pa.
O. M. GRAVES, The General Crushed Stone Co., Easton, Pa.
A. L. WORTHEN, The Connecticut Quarries Co., New Haven, Conn.

Officers Elected for 1936-37

General Chairman—ALEXANDER FOSTER, JR., Warner Co., Philadelphia, Pa.
Vice-Chairman—RUSSELL RAREY, The Marble Cliff Quarries Co., Columbus, Ohio.
Secretary and News Letter Editor—N. B. SIPE, J. E. Baker Co., York, Pa.
Poster Committee Chairman—H. F. YOTTER, The General Crushed Stone Co., Easton, Pa.
Publicity Committee Chairman—J. R. BOYD, National Crushed Stone Assn., Washington, D. C.
Statistics Committee Chairman—W. W. ADAMS, U. S. Bureau of Mines, Washington, D. C.

Members at Large—

V. P. AHEARN, National Sand and Gravel Assn., Washington, D. C.
WILLIAM H. BAKER, J. E. Baker Co., York, Pa.
O. M. GRAVES, The General Crushed Stone Co., Easton, Pa.
S. WALTER STAUFFER, National Lime Association, Washington, D. C.
A. L. WORTHEN, The New Haven Trap Rock Co., New Haven, Conn.

WEDNESDAY MORNING SESSION

October 7, 1936

The first session was called to order by General Chairman Alexander Foster, Jr., Warner Company, Philadelphia, Pa., who presided, welcoming the delegates and outlining the activities of the Section during the year.

Refrigeration Section

Officers 1935-36

General Chairman—HAROLD M. TOOMBS, Armour and Co., Chicago, Ill.
Vice-Chairman—A. W. OAKLEY, Merchants Refrigerating Co., New York, N. Y.
Secretary—JOHN L. SPEERS, The City Ice & Fuel Co., Cleveland, Ohio.
News Letter Editor—A. A. RALL, Kansas City Power & Light Co., Kansas City, Mo.
Engineering Committee Chairman—H. L. LINCOLN, The Union Ice Co., San Francisco, Calif.
Membership Committee Chairman—L. T. MCARTHUR, Peoria Service Co., Peoria, Ill.
Poster Committee Chairman—COL. M. J. MCCOMBS, Texas Employers Insurance Assn., Dallas, Texas.
Program Committee Chairman—EMERSON A. BRANDT, National Association of Ice Industries, Chicago, Ill.
Publicity Committee Chairman—HARRY HUTCHENS, Kentucky Utilities Co., Lexington, Ky.
Statistics Committee Chairman—HERMAN HILLENBACH, Knickerbocker Ice Co., New York, N. Y.

Members at Large—

T. A. ADAMS, Union Terminal Cold Storage Co., New York, N. Y.
G. D. ALLMAN, United States Cold Storage Co., Chicago, Ill.
C. A. BOWEN, Cutler Ice Co., Binghamton, N. Y.
GEORGE B. BRIGHT, George B. Bright Co., Detroit, Mich.
L. W. DAWLEY, Southern United Ice Co., Jackson, Miss.
W. O. HAM, Southern Ice & Utilities Co., Dallas, Texas.
HURLEY G. HUST, City Ice Co. of Kansas City, Kansas City, Mo.
GUY W. JACOBS, The Steubenville Ice Co., Steubenville, Ohio.
S. R. KALLINS, C. Hoffberger Co., Baltimore, Md.
K. D. KNOBLOCK, American Utilities Service Corp., Savanna, Ill.
J. F. NICKERSON, American Institute of Refrigeration, Chicago, Ill.
P. J. NOLAN, Libby, McNeill & Libby, Chicago, Ill.
R. B. OAKLEY, Chicago Ice Producers Mutual Liability Co., Chicago, Ill.
W. M. O'KEEFE, American Warehousemen's Assn., Chicago, Ill.
GARDNER POOLE, American Institute of Refrigeration, Boston, Mass.
L. C. ROBERTS, Kelvinator Corp., Detroit, Mich.
R. M. SEEKER, Anheuser-Busch, Inc., St. Louis, Mo.
W. H. SENYARD, Louisiana Power & Light Co., Algiers, La.

Officers Elected for 1936-37

General Chairman—HAROLD M. TOOMBS, Armour and Co., Chicago, Ill.
Vice-Chairman—C. H. HARPER, Southern United Ice Co., Jackson, Miss.
Secretary—JOHN L. SPEERS, The City Ice & Fuel Co., Cleveland, Ohio.
News Letter Editor—A. A. RALL, Kansas City Power & Light Co., Kansas City, Mo.
Educational Committee Chairman—L. C. ROBERTS, Kelvinator Corp., Detroit, Mich.

Engineering Committee Chairman—H. L. LINCOLN, The Union Ice Co., San Francisco, Calif.

Membership Committee Chairman—L. T. McARTHUR, Peoria Service Co., Peoria, Ill.

Assistant Membership Committee Chairman—RAY M. SEEKER, Anheuser-Busch, Inc., St. Louis, Mo.

Program Committee Chairman—EMERSON A. BRANDT, National Association of Ice Industries, Chicago, Ill.

Publicity Committee Chairman—IVAN L. SCOTT, Bureau of Safety, Chicago, Ill.

Statistics Committee Chairman—HERMAN HILLENBACH, Knickerbocker Ice Co., New York, N. Y.

Members at Large—

T. A. ADAMS, Union Terminal Cold Storage Co., New York, N. Y.

G. D. ALLMAN, United States Cold Storage Co., Chicago, Ill.

C. A. BOWEN, Cutler Ice Co., Binghamton, N. Y.

GEORGE B. BRIGHT, George B. Bright Co., Detroit, Mich.

*A. F. CARRIGAN, Monsanto Chemical Co., St. Louis, Mo.

L. W. DAWLEY, Southern United Ice Co., Jackson, Miss.

W. O. HAM, Southern Ice & Utilities Co., Dallas, Texas.

S. R. KALLINS, C. Hoffberger Co., Baltimore, Md.

K. D. KNOBLOCK, American Utilities Service Corp., Savanna, Ill.

J. F. NICKERSON, American Institute of Refrigeration, Chicago, Ill.

P. J. NOLAN, Libby, McNeill & Libby, Chicago, Ill.

R. B. OAKLEY, Chicago, Ice Producers Mutual Liability Co., Chicago, Ill.

W. M. O'KEEFE, American Warehousemen's Assn., Chicago, Ill.

GARDNER POOLE, American Institute of Refrigeration, Boston, Mass.

T. W. RODES, Carbide & Carbon Chemicals Corp., Whiting, Ind.

W. H. SENYARD, Louisiana Power & Light Co., New Orleans, La.

M. J. ULINE, The M. J. Uline Co., Washington, D. C.

TUESDAY MORNING SESSION

October 6, 1936

The session was called to order by General Chairman Harold M. Toombs, Armour & Co., Chicago, who presided.

Chairman Toombs reported on the activities of the Section during the past year and introduced the speakers.

Accident Prevention in the Brewing Industry

By JOHN M. ROCHE

Engineer, Travelers Insurance Co., New York City

Mechanical and physical safeguarding is the first line of attack in any campaign to reduce brewery accidents. Machines, whether maintenance or production, should be equipped with the best guards the market offers. If no guards are

available, then they should be designed and applied by brewery engineering departments. Belts, pulleys, gears, chains, sprockets, fly wheels, and other dangerous moving parts may be found in nearly all operating departments of the modern

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Rubber Section

Officers 1935-36

General Chairman—A. M. DIETZ, Pennsylvania Rubber Co., Jeannette, Pa.

Vice-Chairman in Charge of Program—J. M. KERRIGAN, U. S. Rubber Reclaiming Co., Buffalo, N. Y.

Secretary—R. W. MORSE, The Firestone Tire and Rubber Co., Akron, Ohio.

News Letter Editor—J. G. POLM, The Goodyear Tire and Rubber Co., Akron, Ohio.

Engineering Committee Chairman—D. G. WELCH, Hewitt Rubber Corp., Buffalo, N. Y.

Health Committee—

DR. W. S. ASH, U. S. Rubber Products, Inc., Detroit, Mich.

DR. J. NEWTON SHIRLEY, Arrow Mutual Liability Insurance Co., Watertown, Mass.

Membership Committee Chairman—E. W. BECK, U. S. Rubber Products, Inc., New York City.

Publicity Committee Chairman—PAUL VAN CLEEF, Van Cleef Brothers, Chicago, Ill.

Statistics Committee Chairman—JOHN J. LOGE, The General Tire & Rubber Co., Akron, Ohio.

Visual Education Committee Chairman—W. H. MACKEY, Dunlop Tire & Rubber Corp., Buffalo, N. Y.

Members at Large—

R. A. BULLOCK, Corduroy Rubber Co., Grand Rapids, Mich.

JOHN L. GRIDER, American Hard Rubber Co., Butler, N. J.

OLIVER HOPKINS, U. S. Rubber Products, Inc., Providence, R. I.

URBAN L. MOLE, Inland Div., General Motors Corp., Dayton, Ohio.

Past General Chairmen—

E. W. BECK, U. S. Rubber Products, Inc., New York City.

J. T. KIDNEY, The Goodyear Tire and Rubber Co., Akron, Ohio.

H. W. LOW, Miller Rubber Products Co., Inc., Akron, Ohio.

H. T. MARTIN, The Fisk Rubber Co., Chicopee Falls, Mass.

M. A. QUIRK, Samson Tire and Rubber Co., Los Angeles, Calif.

W. L. SCHNEIDER, The B. F. Goodrich Co., Akron, Ohio.

CHARLES F. SMITH, U. S. Rubber Reclaiming Co., Inc., Buffalo, N. Y.

H. A. WALKER, The Goodyear Tire and Rubber Co., Akron, Ohio.

Officers Elected for 1936-37

General Chairman—J. M. KERRIGAN, U. S. Rubber Reclaiming Co., Inc., Buffalo, N. Y.

Vice-Chairman in Charge of Program—R. A. BULLOCK, Corduroy Rubber Co., Grand Rapids, Mich.

Secretary—R. W. MORSE, The Firestone Tire and Rubber Co., Akron, Ohio.

News Letter Editor—OLIVER HOPKINS, U. S. Rubber Products, Inc., Providence, R. I.

Engineering Committee Chairman—J. G. POLM, The Goodyear Tire and Rubber Co., Akron, Ohio.

Health Committee—

DR. W. S. ASH, U. S. Rubber Products, Inc., Detroit, Mich.

DR. J. NEWTON SHIRLEY, Arrow Mutual Liability Insurance Co., Watertown, Mass.

*Membership Committee Chairman—*PAUL VAN CLEEF, Van Cleef Brothers, Chicago, Ill.*Publicity Committee Chairman—*W. H. MACKAY, Dunlop Tire & Rubber Corp., Buffalo, N. Y.*Statistics Committee Chairman—*D. G. WELCH, Hewitt Rubber Corp., Buffalo, N. Y.*Members at Large—*

RALPH S. FARNUM, U. S. Rubber Products, Inc., Detroit, Mich.

JOHN L. GRIDER, American Hard Rubber Co., Butler, N. J.

JOHN J. LOGE, The General Tire & Rubber Co., Akron, Ohio.

JOHN E. LOVAS, U. S. Rubber Products, Inc., Passaic, N. J.

URBAN L. MOLER, Inland Div., General Motors Corp., Dayton, Ohio.

W. P. SPANTON, American Hard Rubber Co., Akron, Ohio.

C. W. UFFORD, Ohio Rubber Co., Willoughby, Ohio.

Past General Chairmen—

E. W. BECK, U. S. Rubber Products, Inc., New York, N. Y.

A. M. DIETZ, Pennsylvania Rubber Co., Jeannette, Pa.

C. F. HORAN, Hood Rubber Company, Watertown, Mass.

J. T. KIDNEY, The Goodyear Tire and Rubber Co., Akron, Ohio.

H. W. LOW, Miller Rubber Products Co., Inc., Akron, Ohio.

W. L. SCHNEIDER, The B. F. Goodrich Co., Akron, Ohio.

CHARLES F. SMITH, U. S. Rubber Reclaiming Co., Inc., Buffalo, N. Y.

TUESDAY MORNING SESSION

October 6, 1936

The opening session was called to order by Chairman A. M. Dietz, Pennsylvania Rubber Co., Jeannette, Pa., who presided,

outlining briefly the sectional activities accomplished during the year and introducing the speakers.

Safe Use of Solvents

By R. S. FARNUM

Safety Supervisor, U. S. Rubber Products, Inc., Detroit

Among the solvents used in the rubber industry are benzol, gasoline, carbon tetrachloride and carbon bisulphide. In another class for which there is a slightly different use are turpentine and sunoco spirits or kerosene. These latter two,

used especially for cleaning purposes, have hazards of fire and explosion and not so much danger from toxicity.

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Safety Equipment Section

Officers 1935-36

- General Chairman*—T. A. WILLSON, Willson Products, Inc., Reading, Pa.
Vice-Chairman—I. W. MILLARD, Industrial Gloves Corporation, Danville, Ill.
Secretary—F. R. DAVIS, Davis Emergency Equipment Co., New York City.
Treasurer—E. L. WHEELER, F. H. Wheeler Manufacturing Co., Chicago, Ill.
Members at Large—
 C. H. GALLAWAY, Manager, Head and Eye Protection Dept., American Optical Co., Southbridge, Mass.
 B. W. NUTT, President, Safety Equipment Service Co., Cleveland, Ohio.
 J. T. RYAN, Vice-President, Mine Safety Appliances Co., Pittsburgh, Pa.
 G. A. SHULL, President, Safety First Supply Co., Pittsburgh, Pa.
 R. T. SOLENSTEN, Vice-President, Elliott Service Co., New York City.
Executive Secretary—A. O. BONIFACE, c/o W. J. Parker, Inc., 7 East 44th St., New York City.

BUSINESS SESSIONS

October 4, 1936

The Executive Committee of the Safety Equipment Section held its first session during the Congress with T. A. Willson, vice-president, Willson Products, Inc., Reading, Pa., presiding. Committee reports and the chairman's annual report were presented and approved. The chairman announced that a nominating committee had been appointed, consisting of G. E. Semple, chairman, J. B. Davies, E. L. Wheeler, G. M. Glidden, and Fred Wahlert. The committee presented its slate of new officers for the Section, which were elected as follows:

- General Chairman*—T. A. Willson, Willson Products, Inc., Reading, Pa. *Vice-Chairman*—I. W. Millard, Industrial Glove Corp., Danville, Ill. *Secretary-Treasurer*—F. R. Davis, Davis Emergency Equipment Co., New York City.

Report of Executive Committee. The Executive Committee in its annual report stated that the activities of the section had been coordinated with those of the Industrial Safety Equipment Association to eliminate duplication of effort and to make sure that all desired activities were being carried on by one organization or the other.

A set of by-laws had been prepared for governing the activities and procedure of the Section.

Action had also been taken to abandon the monthly news letter of the Section, since the Industrial Safety Equipment Association has been conducting a bulletin service for members.

The Executive Committee recommended that the Section continue its program of activity along the same lines

Transit Section

Officers 1935-36

General Chairman—W. A. BROWN, Tennessee Electric Power Co., Nashville, Tenn.

Vice-Chairmen—

HAROLD F. WEBB, West Penn Electric Co., Pittsburgh, Pa.
A. E. PARKER, Winnipeg Electric Co., Winnipeg, Canada.

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

News Letter Editor—ERNEST G. COX, Chicago North Shore & Milwaukee Railroad Co., Highwood, Ill.

Engineering Committee Chairman—M. W. BRIDGES, Chicago Rapid Transit Co., Chicago, Ill.

Health Committee Chairman—DR. HART E. FISHER, Chicago Rapid Transit Co., Chicago, Ill.

Membership Committee Chairman—H. R. HORTON, St. Louis Public Service Co., St. Louis, Mo.

Poster Committee Chairman—H. V. SCHREIBER, Capital Transit Co., Washington, D. C.

Program Committee Chairman—E. E. GROVER, The Columbus Railway, Power & Light Co., Columbus, Ohio.

Publicity Committee Chairman—C. J. LONG, United Traction Co., Albany, N. Y.

Statistics Committee Chairman—G. C. HECKER, American Transit Association, New York, N. Y.

Members at Large—

RALPH C. BUSH, Transit Mutual Insurance Co., Boston, Mass.

RAY A. FINCH, Tennessee Valley Authority, Wilson Dam, Ala.

H. C. FOSS, Savannah Electric and Power Co., Savannah, Ga.

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

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

B. G. NOAH, Duluth Superior Transit Co., Duluth, Minn.

SAMUEL H. REID, Diener-Dugas Fire Extinguisher Corp., Chicago, Ill.

A. P. SCHENDORF, National Pneumatic Co., Rahway, N. J.

GLENN H. SHAW, Ohio Edison Co., Akron, Ohio.

GEORGE R. WHITMORE, Illinois Power and Light Corp., Peoria, Ill.

Officers Elected for 1936-37

General Chairman—A. E. PARKER, Winnipeg Electric Co., Winnipeg, Canada.

Vice-Chairman—R. A. McARTHUR, Public Service Coordinated Transport, Newark, N. J.

Vice-Chairman—E. E. GROVER, The Columbus Railway, Power & Light Co., Columbus, Ohio.

Secretary—C. J. LONG, United Traction Co., Albany, N. Y.

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

Engineering Committee Chairman—A. P. SCHENDORF, National Pneumatic Co., Rahway, N. J.

Health Committee Chairman—JOHN M. ORTS, Public Service Corp., of N. J., Newark, N. J.
Membership Committee Chairman—RAY A. FINCH, Tennessee Valley Authority, Wilson Dam, Ala.
Poster and Slide Committee Chairman—H. V. SCHREIBER, Capital Transit Co., Washington, D. C.
Program Committee Chairman—H. R. HORTON, St. Louis Public Service Co., St. Louis, Mo.
Statistics Committee Chairman—G. C. HECKER, American Transit Assn., New York, N. Y.
Members at Large—

MELVIN W. BRIDGES, Chicago Rapid Transit Co., Chicago, Ill.
 W. A. BROWN, Tennessee Electric Power Co., Nashville, Tenn.
 MARCUS DOW, Greyhound Management Co., Cleveland, Ohio.
 H. C. FOSS, Savannah Electric & Power Co., Savannah, Ga.
 G. T. HELLMUTH, Chicago North Shore & Milwaukee Railroad Co., Chicago, Ill.
 C. O. KELLER, Safeway Lines, Inc., Chicago, Ill.
 E. J. KREH, Philadelphia Co., Pittsburgh, Pa.
 B. G. NOAH, Duluth Superior Transit Co., Duluth, Minn.
 SAMUEL H. REID, Diener-Dugas Fire Extinguisher Corp., Chicago, Ill.
 GLENN H. SHAW, Ohio Edison Co., Akron, Ohio.
 HAROLD F. WEBB, West Penn System, Pittsburgh, Pa.
 GEORGE R. WHITMORE, Illinois Power and Light Corp., Peoria, Ill.

MONDAY AFTERNOON SESSION

October 5, 1936

The first session was called to order by General Chairman W. A. Brown, Tennessee Electric Power Co., Nashville, Tenn., who presided, outlining briefly the progress of the Section during the year.

On Tuesday and Thursday afternoons the Transit Section met jointly with the

Street and Highway Traffic and Vehicle Fleet Sections to hear discussions of public safety work. A record of these sessions will be found with the proceedings of the Street and Highway Traffic and Vehicle Fleet sessions in Volume II of the Congress Transactions.

Cutting Operating Costs by Preventing Accidents

By COL. J. H. ANDREWS

Assistant to the President, Philadelphia Rapid Transit Co., Philadelphia

The first intensive accident prevention activity was started on our property in November, 1925. In 1934 we organized a Bureau of Accident Prevention to concentrate under one directing head all our safety activities, both public and indus-

trial, with gratifying results. In the nine years from 1926 to 1935 our accidents were reduced better than 55 per cent in spite of a constantly growing population and motor vehicle registration causing an ever increasing traffic problem in our city.

While these figures show our rail operations only, exceptional experience with operations during the same accidents were reduced 7

The soundest way to frequency statistics is to on a common basis, and method is on the basis car mile operated. On t prove equally gratifying, railway accidents per cent less than in 1926 accidents per mile 75 per ce. our accidents per mile of lowest of any year in t

In 1926 we were spending cent of our gross revenue or about \$1,839 per 100,0 erated. In 1935 we spent cent of our gross revenue and our accident costs miles were \$1,357, a reduction cent. In actual expenditure costs this is a reduction 1935 as compared with

This reduction in total is reflected in both cost and in expenses incident nance of a claims department reduction in costs, then, ha in money paid out to claimants of accidents, but the number of accidents economies all along the claims department payro physicians' fees, expert dental court and office e

There is one direct ch erating expense which i indication of the value vention work, and that is for repairs to cars dama In the 10-year period 1 accidents were reduced the amount paid for rep 68 per cent, an annual \$113,000. Although com dustrial figures are not reasonable to assume th been effected a substai compensation resulting tion in frequency and ref collision accidents.

Power is one of the street railway operating to the theory advanced panies, we believe that

Wood Products Section

Officers 1935-36

General Chairman—J. A. PURDY, Michigan Mutual Liability Co., Detroit, Mich.

Vice-Chairmen—

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

WILLIAM HAGGERTY, Edward Hines Western Pine Co., Hines, Harney Co., Ore.

Secretary—M. C. GOODSPEED, General Electric Co., Erie, Pa.

News Letter Editor—NILS JUELL, Hayes Body Corp., Grand Rapids, Mich.

Engineering Committee Chairman—J. H. LEE, Liberty Mutual Insurance Co., Rockford, Ill.

Membership Committee Chairman—F. W. BRAUN, Employers Mutuals, Wausau, Wis.

Poster Committee Chairman—R. L. WOODS, Fisher Body Memphis Div., General Motors Corp., Memphis, Tenn.

Program Committee Chairman—P. J. BRAND, Pullman Standard Car Manufacturing Corp., Pullman, Chicago, Ill.

Publicity Committee Chairman—ROLAND JONES, The Surty Mfg. Co., Inc., Chicago, Ill.

Statistics Committee Chairman—DR. THOMAS DOBBINS, Servell, Inc., Evansville, Ind.

Members at Large—

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

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

HARRY GUILBERT, Pullman Company, Pullman, Chicago, Ill.

LOUIS W. KERBERG, Mengel Body Co., Louisville, Ky.

F. A. POLLOCK, Lumbermens Mutual Casualty Co., Chicago, Ill.

Officers Elected for 1936-37

General Chairman—HARRY J. KELLEY, American Seating Co., Grand Rapids, Mich.

Vice-Chairman—WILLIAM HAGGERTY, Edward Hines Lumber Co., Hines, Harney Co., Ore.

Secretary—M. C. GOODSPEED, General Electric Co., Erie, Pa.

News Letter Editor—H. E. SEELY, The Brunswick-Balke-Collender Co., Chicago, Ill.

Engineering Committee Chairman—J. H. LEE, Liberty Mutual Insurance Co., Rockford, Ill.

Membership Committee Chairman—S. T. DIBSDALE, The J. G. Brill Co., Philadelphia, Pa.

Poster Committee Chairman—R. L. WOODS, Fisher Body Memphis Div., General Motors Corp., Memphis, Tenn.

Program Committee Chairman—NILS JUELL, Hayes Body Corp., Grand Rapids, Mich.

Publicity Committee Chairman—ROLAND JONES, The Surty Mfg. Co., Inc., Chicago, Ill.

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

Members at Large—

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

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

E. ROSS FARRA, Grand Rapids Safety Council, Grand Rapids, Mich.
 LOUIS W. KERBERG, Mengel Body Co., Louisville, Ky.
 J. A. PURDY, Michigan Mutual Liability Co., Detroit, Mich.

MONDAY AFTERNOON SESSION

October 5, 1936

The first meeting of the Section was called to order by General Chairman J. A. Purdy, Michigan Mutual Liability Co., Detroit, who presided. Chairman Purdy

gave a brief resume of the work of the Section during the past year, comparing it favorably with the work of preceding years.

Point of Operation Guards in the Wood Products Industry

By O. C. BOILEAU

Safety Engineer, RCA Manufacturing Company, Inc., Camden, N. J.

The best and most practical guard you can have at the point of operation is the man himself. I admit that mechanical guarding prevents accidents of human failure—but what causes the human to fail? Three words can answer that question. The need of better (1) planning; (2) education; and (3) enforcement.

Let's say, for an example, that you are planning a new layout of rearrangement of equipment in your wood-working shop. You should give careful study to such items as light and exhaust systems. Who is there who will deny that light, beside enabling work to be seen better and done better, hazards observed and therefore avoided—also adds to better housekeeping conditions, which all have to do with reducing the point of operation hazard? It goes a step further—it promotes better working conditions and, last but not least, helps to relieve or avoid mental strain.

An efficient exhaust system is one of the most important point of operation accident prevention equipments that can be had in any wood-working plant. Let's take shapers for an example. Hoods can be so designed that they are part of the guard, thereby taking away all waste

material and leaving the table clear for work, which gives a safe working condition. No man can work safely through a cloud of wood dust or cuttings. To give you an idea what the RCA Manufacturing Company uses for exhaust system in our accident, fire, and health program—it consists of

4 fans	52,000 c.f.m. each		208,000 c.f.m.
4 "	75,000 " "		300,000 "
2 "	10,000 " "		20,000 "
1 "	25,000 " "		25,000 "

making a grand total of 553,000 c.f.m. The dust and air are then carried into 4 arresters which have a total of 860 screens, and it takes 2235 h.p. to operate this system.

Today we all are trying to manufacture our product at the lowest price possible. Elimination of operations is part of planning in design of product. Every time we eliminate an operation that is dangerous or an accident breeder, we do two things: (a) Prevent an accident; (b) Reduce cost of product. Where operations cannot be eliminated, fixtures or forms should be designed so that the operator's hands are away from the point of operation.

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