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1934

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National Safety Council

Incorporated

TWENTY-THIRD ANNUAL
SAFETY CONGRESS



Cleveland, Ohio

October 1 to October 5, 1934

The Cleveland, Carter and Statler Hotels

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National Safety Council

Incorporated

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ROBERT W. CAMPBELL
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 DAVID A. PATTON, Newark Safety Council.
 C. E. PETTIBONE, American Mutual Liability Insurance Company.
 GEN. GEORGE B. PILLSBURY, War Department.
 J. B. POWER, Seattle Traffic & Safety Council.
 C. E. RALSTON, Western Pennsylvania Safety Council.
 ALBERT S. REGULA, Industrial Relations Counselors, Inc.
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 MARINUS RITER, Paterson Safety Council.
 G. E. SANFORD, General Electric Company.
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 F. A. SCHENDEL, Food Section.
 ROBERT L. SCHMITT, Louisville Safety Council.
 H. V. SCHREIBER, Transit Section.
 HARRY A. SCHULTZ, United States Steel Corporation.
 CHARLES B. SCOTT, Bureau of Safety, Inc.
 LESTER D. SEYMOUR, Aeronautical Section.
 EARL S. SHARTZER, Utica Safety Council.
 RAY H. SHEETS, Madison County Safety Council.
 DR. L. A. SHOUDY, Bethlehem Steel Company.
 ARNOLD L. SIMONDS, New Haven Safety Council.
 E. E. SKEEL, Cleveland Safety Council.
 G. W. SMITH, Standard Oil Company (Indiana).
 WALTER DENT SMITH, Delaware Safety Council.
 R. T. SOLENSTEN, Elliott Service Company.
 E. C. SPRING, Lansdale, Pa.
 GEORGE R. STEPHENS, Safety Bureau, Buffalo Chamber of Commerce.
 JULIUS S. STORRS, United Railways & Electric Co.

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JAMES S. WALKER, Safety Council
 JOHN H. SWANN, General Motors Corporation
 ALVIN S. TAYLOR, Massachusetts Safety Council
 ARTHUR M. TOME, Consultant, Marine Engineering
 C. W. TROTT, Senior State Safety Council
 W. H. TUBB, United States Marine Safety Council
 J. A. VASS, Metals Section
 C. A. WALKER, Rubber Section
 GEORGE H. WARD, Union Pacific Railroad Company
 ROBERT H. WARREN, American Telephone & Telegraph Company
 PHILIP M. WATLER, Hughes Bell Telephone Company
 ALFRED C. WATTE, Jr., Standard Safety Council
 SAMUEL WATSON, Liberty National Loan Office
 A. W. WELCH, National Bureau of Chemical Safety
 W. H. WELLS, Union Carbide & Carbon Corp.
 JOHN C. A. WISNIEWSKI, Yale Medical School
 GEORGE WILSON, Skid Chatham Iron Works Corp.
 E. M. WOLF, Non-ferrous Steel & Tube Company
 ALFRED WOLF, International Harvester Company
 J. J. ZACK, Safety Bureau, Danbury, Conn.
 JOHN W. ZIEGLER, Safety Division, Chrysler Corporation
 J. ZICK, Cement Section

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6 *Twenty-third Annual Safety Congress—National Safety Council*

ROBERT I. CATLIN, Actua Casualty & Surety Co
 CARL C. CLEMENTS, Refrigeration Section.
 ROSCOE D. CONLIN, Railway Safety Council
 H. HERBERT CORSON, Safety Dept., Nashville Chamber of Commerce
 J. F. CULLINLY, Bethlehem Steel Company
 EDWARD DANA, Boston Elevated Railway.
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 RICHARD H. DAVIS, Blackstone Valley Safety Council
 CHARLES D. DAWSON, Grand Rapids Safety Council
 LEWIS A. DeBOIS, Consulting Engineer.
 JAY E. DECKER, Mason City Safety Council
 JAMES B. DOUGLAS, The Philadelphia Gas Works Company.
 LOUIS I. DUBLIN, Metropolitan Life Insurance Company
 CHARLES H. EAMES, Textile Section
 D. D. FENNELL, Consulting Engineer
 D. L. FENNELL, Kansas City Safety Council.
 DONALD A. FINKBEINER, Toledo Safety Council
 CAPT. E. W. FISKE, Jr., Marine Section
 HOWARD B. FONDA, Burtoughs Wellcome & Co. (U. S. A.) Inc
 R. B. FORTUN, Lehigh Valley Safety Council
 E. N. GOLDSTONE, Construction Section
 OTTO M. GRAVES, The General Crushed Stone Co
 HARRY GUILBERT, The Pullman Company
 ISAIAH HALE, The Atchison, Topeka & Santa Fe Railway Co
 MERLE C. HALL, Automotive & Machine Shop Section
 MAJOR BOILING H. HANDY, Richmond Safety Council
 D. T. HARRINGTON, United States Bureau of Mines
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 CHAS. E. HILL, New York Central Lines.
 HON. HAROLD G. HOFFMAN, Street & Highway Traffic Section
 CLAUDE J. HOLDING, Albany Safety Council
 JULIUS W. HORRE, Hudson County Safety Council
 HARRY D. IMMEL, Pennsylvania Dept. of Labor & Industry
 LEX JENSEN, Berkeley Traffic Safety Commission
 EDGAR P. KABLE, York County Safety Council
 THOMAS P. KEARNS, Industrial Commission of Ohio
 K. T. KILLER, Detroit Industrial Safety Council
 IRA V. KEPNER, Pennsylvania Salt Manufacturing Co
 E. J. KREH, Public Utilities Section
 FRANKLIN M. KREML, Evanston Safety Council
 C. L. LaFONTAINE, Great Northern Railway Co
 FRANK J. LANAHAN, Fort Pitt Malleable Iron Co
 JOHN LAUFERMAN, Meat Packing, Tanning & Leather Industries Section
 SIMON LAZARUS, Safety Council, Columbus (Ohio) Chamber of Commerce
 JOSEPH LEITCH, Rochester Safety Council
 DR. R. M. LITTLE, New York Department of Education
 G. O. LOCKWOOD, Petroleum Section
 J. F. LONG, The Delaware & Hudson Railroad Corp
 W. R. LOYD, Safety Div., Birmingham Chamber of Commerce

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JOHN E. LONG, The Delaware & Hudson Railroad Corp.
THOS. H. MACDONALD, United States Department of Agriculture.
E. J. MEHREN, Portland Cement Association.
L. W. MILLARD, Accident Prevention Manufacturers' Section.
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ALBERT S. REGULA, Industrial Relations Counselors, Inc.
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LESTER D. SEYMOUR, Aeronautical Section.
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WALTER DENT SMITH, Delaware Safety Council.
R. T. SOLENSTEN, Elliott Service Company.
CLARENCE P. TAYLOR, Massachusetts Safety Council.
G. P. TOLMAN, Past President.
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A. W. WHITNEY, National Bureau of Casualty & Surety Underwriters.
W. E. WORTH, International Harvester Company.
ARTHUR H. YOUNG, Past President.

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FREDERICK ARCHER, Child Education Section.
WILLIAM F. ARDERN, Safety Div., Milwaukee Association of Commerce.
A. L. ARMSTRONG, Eastman Kodak Company.
WILLIAM H. BAKER, Quarry Section.
J. I. BANASH, Consulting Engineer.
H. D. BANTA, Paper & Pulp Section.
ERNEST W. BECK, United States Rubber Products, Inc.
W. A. BENNETT, Worcester Safety Council.
C. W. BERGQUIST, Western Electric Company.
DAVID S. BEYER, Liberty Mutual Insurance Company.
E. F. BLANK, Jones & Laughlin Steel Corp.
G. F. BORKENHAGEN, Kenosha Safety Council.
F. W. BRAUN, Wood Products Section.
COL. PHIL H. BROCKMAN, St. Louis Safety Council.
PRESTON D. CALLUM, Baltimore Safety Council.
W. H. CAMERON, National Safety Council.
D. J. CARNEY, Chicago Safety Council.
D. H. CARROW, American Railway Association.

TWENTY-THIRD ANNUAL SAFETY CONGRESS
NATIONAL SAFETY COUNCIL



Accident Prevention Equipment Manufacturers' Section

Officers 1933-34

General Chairman—BUELL W. NUTT, Safety Equipment Service Company, Cleveland, Ohio.

Vice-Chairman—I. W. MILLARD, Industrial Gloves Corporation, Danville, Ill.

Secretary—GEORGE S. SHULL, Safety First Supply Company, Pittsburgh, Pa.

Treasurer—L. J. BOWKER, Mine Safety Appliances Company, Pittsburgh, Pa.

Executive Committee at Large—

E. W. BULLARD, E. D. Bullard Company, San Francisco, Calif.

FREDERICK WAHLERT, Pulmosan Safety Equipment Corporation, Brooklyn, N. Y.

CHARLES H. GALLAWAY, American Optical Company, Southbridge, Mass.

BUSINESS SESSION

September 30, 1934

The annual business meeting of the Accident Prevention Equipment Manufacturers' Section was called to order after a pleasant dinner by General Chairman Buell W. Nutt, Safety Equipment Service Company, Cleveland, who presided. Reports were heard from the General Chairman and the Chairmen of Standing Committees on activities during the past year. The report of the Nominating Committee was then called for, and new officers for the Section were nominated and elected as follows:

Chairman:—Irwin W. Millard, Secretary, Industrial Gloves Corporation, Danville, Ill.

Vice-Chairman:—George Shull, President, Safety First Supply Co., Brady Bldg., Pittsburgh, Pa.

Secretary:—William Wahlert, Pulmosan Safety Equipment Corp., 176 Johnson St., Brooklyn, N. Y.

Treasurer:—L. E. Dickson, Vice-President, Standard Safety Equipment Co., 75 East Wacker Drive, Chicago, Ill.

Executive Committee-at-Large:—

J. T. Ryan, V-Pres., Mine Safety Appliances Co., 201 N. Braddock, Pittsburgh, Pa.

F. R. Davis, President, Davis Emergency Equipment Co., 55 Van Dam St., New York City.

R. T. Schuster, A. Pres., *Ulbert Safety Co.*, 100 E. 12th St., New York City

W. W. Nunn, President, *Safety Equipment Service Co.*, 215 E. 12th Ave., NE, Cleveland, O.

Continued on p. 151

Accident Prevention Equipment Manufacturers

Who Made Exhibits at the Twenty Third Annual Safety Congress
and Exposition, Statler and Cleveland Hotels,
Cleveland, Ohio, October 1-5, 1935

North & La France & Leante Inc., 100 E. 12th St., New York City
Fire protection equipment

American Optical Company, Northbridge, Massachusetts
Industrial eye protection service

Bardex Products Corporation, South Bend, Ind.
Automotive testing equipment

Robert A. Bernhard, Rochester, New York
Safety equipment for the automobile

Bevry & Smith Company, New York City
Industrial labor protection equipment

Balinger-Kodak Manufacturing Company, 100 E. 12th St., New York City
Office equipment products

Brace Washmount Company, Milwaukee, Wis.
Green washing equipment

Brace Shoe Company, St. Louis, Missouri
Safety shoe shoes

C. H. Burke Company, Chicago, Illinois
Safety belts, straps, buckles, and tool bags

E. D. Bullard Company, San Francisco, California
Safety equipment for mines and industry

Bartholomew's Wearable & Company, U.S.A.
First aid and medical equipment

Conroy E. Cabot Inc., Boston, Massachusetts
Furnished carbon, back, and so on

Chicago Eye Shield Company, Chicago, Illinois
Head and eye protection equipment

C. C. Co. & Company, Inc., Portland, Ore.
Safety equipment

C. C. Co. & Company, Inc., Portland, Ore.
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C. C. Co. & Company, Inc., Portland, Ore.
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- Eagle Signal Corporation, Moline, Illinois
Traffic signal equipment and industrial timing equipment
- Elliott Service Company, New York City
Elimination of waste, promotion of efficiency and safety
- Evans Products Company, Detroit, Michigan
Railroad grade crossing and barrier and traffic signals
- The Gerson-Stewart Corporation, Cleveland, Ohio
Soaps, disinfectants and cleaners for planned sanitation
- Harley-Davidson Motor Company, Milwaukee, Wisconsin
Special police motorcycles and equipment
- Hunter Auto Equipment Company, Inc., New York City
Fleet specialties, rubber mirrors, stop and tail-lights
- Hynson, Westcott & Dunning, Inc., Baltimore, Maryland
Mercurochrome and Thantis lozenges
- Industrial Commission of Ohio, Columbus, Ohio
Accident record charts and graphs, educational safety literature
- International Shoe Company, St. Louis, Missouri
Safety shoes
- Junkin Safety Appliance Company, Louisville, Kentucky
Safety guards for punch presses
- Walter Kidde & Company, Inc., New York City
Permanently piped fire systems and portable extinguishers
- Lehigh Safety Shoe Company, Allentown, Pennsylvania
Safety shoes and boots
- Lima Cord Sole & Heel Company, Lima, Ohio
Non-slip soles and heels for footwear
- Liquid Carbonic Corporation, Chicago, Illinois
Fumigant for infestation control
- Macwhyte Company, Kenosha, Wisconsin
Wire rope and braided slings
- Martindale Electric Company, Cleveland, Ohio
Protective masks, safety roadway signals
- Metropolitan Life Insurance Company, New York City
Insurance, industrial group, etc.
- Mine Safety Appliance Company, Pittsburgh, Pennsylvania
Mine and industrial safety equipment
- National Automatic Safety Signal Company, Chicago, Illinois
Safety flash signal for rear of trucks
- National Safety Council, Chicago, Illinois
Poster, Library, Research and Education Divisions
- The Patent Scaffolding Company, Chicago, Illinois
Ladders and scaffolds for industry and construction
- Portable Lamp & Equipment Company, Pittsburgh, Pennsylvania
Electric mine lamps and safety equipment
- The Positive Safety Manufacturing Company, Cleveland, Ohio
Power press safety devices
- Protectoseal Company, Chicago, Illinois
Safety cans for washing, bench, storage, etc., tank fittings
- Pulmosan Safety Equipment Corporation, Brooklyn, New York
Respiratory protection and general safety equipment

152 Twenty-third Annual Safety Congress—National Safety Council

Pyroc Manufacturing Company, Newark, New Jersey
Hand fire extinguishers and systems

Reece Wooden Sole Shoe Company, Inc., Columbus, Nebraska
Wooden sole safety footwear

The Safety Clothing Company, Cleveland, Ohio
Safety clothing and equipment

The Safety Equipment Service Company, Cleveland, Ohio
Goggles, safety clothing and other safety equipment

Safety First Shoe Company, Holliston, Massachusetts
Safety shoes

Safety Signal Devices, Inc., Chicago, Illinois
Safety stop-light for cars, trucks and buses

The Service Recorder Company, Cleveland, Ohio
The Servis Recorder for trucks and buses

Shepherd Safety Shoe Corporation, Chicago, Illinois
Safety shoes

The Sight Light Corporation, New York City
Instruments for measuring light in industries, etc.

Standard Safety Equipment Company, Chicago, Illinois
Dust protective equipment and general safety devices

Stonchouse Signs, Inc., Denver, Colorado
Metal accident prevention signs

The Surety Rubber Company, Carrollton, Ohio
Rubber safety equipment for linemen and industry

Weaver Manufacturing Company, Springfield, Ill.
Automotive testing equipment

West Disinfecting Company, Long Island City, New York
Disinfectants, insecticides and sanitary supplies

Wilson Products, Inc., Reading, Pennsylvania
Eye, head and respiratory protective devices

Wil-X-Mfg. Corporation, Brooklyn, New York
Fire extinguishers and equipment

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WENTY-THIRD ANNUAL SAFETY CONGRESS
NATIONAL SAFETY COUNCIL



Aeronautical Section

Officers 1933-34

Chairman, Lester D. Seymour, President, American Airways, Inc., Chicago, Illinois.
Vice-Chairman, Captain E. V. Rickenbacker, North American Aviation, Inc., New York City.
Secretary, W. Dean Keefer, Director, Industrial Safety Division, National Safety Council, Chicago, Illinois.

WEDNESDAY MORNING SESSION

October 3, 1934

The Aeronautical Section session was called to order by Mr. Paul Wright, of the American Airways, Inc., Chicago, who presided. Chairman Wright introduced Mr. John W. Burton, who made a brief address of welcome on behalf of the Convention City. Chairman Wright then introduced the first speaker.

Safety in Aviation

By J. H. DOOLITTLE

Aviation Manager, Shell Oil Company, St. Louis, Mo.

The speaker said in part: There are few of us who appreciate the great care that is exercised in the operation of a modern air transport line to assure safety and a degree of comfort as well. Any normal man or woman having average eyesight and no physical disabilities, and being possessed of average intelligence, can learn to fly an airplane in a relatively short time; but it is a far cry from the mere fact that one knows how to fly an airplane to the art of flying as practiced by airline pilots who have made it their profession. These pilots are not only masters of every branch of the art of ordinary flying, but must take a post graduate course in blind or instrument flying. This training is given in special airplanes equipped with a hooded cockpit and the pilot is obliged to fly by means of his instruments alone, as he cannot see outside the airplane.

Probably unknown to the vast majority of air travelers, there exists in every modern air transport company today a complete medical division which closely examines the physical and mental qualifications of all their pilots once every month or six weeks. The examination is strict and thorough, and is given by physicians trained in aeronautical work. These examinations are in addition to those required semi-annually by the United States Department of Commerce. The eye examination requires that the pilot have not only normal vision, but that his judgment of

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TWENTY-THIRD ANNUAL SAFETY CONGRESS NATIONAL SAFETY COUNCIL



Automotive and Machine Shop Section

Officers 1933-34

General Chairman—M. J. McCARTHY, Fisher Body Corp., Detroit, Mich.

Vice-Chairman—K. A. CALLAM, Detroit, Mich.

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

News Letter Editor—E. C. WALKER, Dodge Brothers Corp., Detroit, Mich.

Engineering Committee Chairman—W. W. JANZER, Seaman Body Corp., Milwaukee.

Health Committee Chairman—DR. A. F. LECKLIDER, Fisher Body Corp., Detroit.

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

Poster, Slides and Safety Kinks Committee Chairman—M. A. KROGER, Chevrolet Detroit Plants, General Motors Corp., Detroit, Mich.

Program Committee Chairman—M. A. CLARK, United States Rubber Co., Detroit.

Publicity Committee Chairman—W. A. BECHILL, Chrysler Corporation, Detroit.

Statistics Committee Chairman—C. W. BISHOP, Lycoming Manufacturing Co., Williamsport, Pa.

Members at Large—

L. E. AVERILL, C. H. Dockson Co., Detroit, Mich.

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

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

R. A. SHAW, The Murray Corporation of America, Detroit, Mich.

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

MONDAY AFTERNOON SESSION

October 1, 1934

The opening session of the Automotive and Machine Shop Section was called to order by General Chairman M. J. McCarthy, Fisher Body Corporation, Detroit, who presided. Chairman McCarthy introduced Mr. Charles H. Hazelton, Directing Manager, Foote-Burt Co., Cleveland, who made a brief address of welcome on be-

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Cement Section

Officers 1933-34

General Chairman—J. B. ZOOK, Great Lakes Portland Cement Corp., Buffalo, N. Y.

Vice-Chairman—W. W. HAMILTON, Alpha Portland Cement Co., Easton, Pa.

Secretary—A. J. R. CURTIS, Portland Cement Association, Chicago, Ill.

News Letter Editor—JACK DEMPSTER, Canada Cement Co., Ltd., Port Colborne, Ontario, Canada.

Engineering Committee Chairman—FREDERICK B. HUNT, Nazareth Portland Cement Co., Nazareth, Pa.

Membership Committee Chairman—H. A. RENINGER, Lehigh Portland Cement Co., Allentown, Pa.

Poster Committee Chairman—M. P. GREER, Marquette Cement Manufacturing Co., Cape Girardeau, Mo.

Program Committee Chairman—D. B. COLEMAN, Missouri Portland Cement Co., St. Louis, Mo.

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.

TUESDAY MORNING SESSION

October 2, 1934

The opening session of the Cement Section was called to order by General Chairman J. B. Zook, Great Lakes Portland Cement Corp., Buffalo, New York, who presided. Chairman Zook introduced Mr. Edward J. Maguire, Vice President and Treasurer, Medusa Portland Cement Co., Cleveland, who made a brief address of welcome on behalf of the City of Cleveland. The General Chairman then presented, under the heading, "Our Work—Today and Tomorrow," some brief thoughts on the future activities of the section and followed with brief reports from the chairmen of standing committees. He then called for the report of the Nominating Committee, and new officers for the section were nominated and elected as follows:

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TWENTY-THIRD ANNUAL SAFETY CONGRESS
NATIONAL SAFETY COUNCIL



Chemical Section

Officers 1933-34

General Chairman—JOHN ROACH, Deputy Commissioner of Labor, Trenton, N. J.

Vice-Chairman in Charge of Program—A. L. ARMSTRONG, Eastman Kodak Co., Rochester, N. Y.

Vice-Chairman in Charge of Engineering—G. H. MILLER, E. I. duPont de Nemours & Co., Wilmington, Del.

Secretary—RALPH O. KEEFER, Aluminum Company of America, Massena, N. Y.

News Letter Editor—JOHN MORONEY, Aluminum Company of America, Massena, N. Y.

Occupational Disease Committee Chairman—DR. LEONARD GREENBURG, Yale Medical School, New Haven, Conn.

Membership and Publicity Committee Chairman—S. D. KIRKPATRICK, Chemical and Metallurgical Engineering, New York, N. Y.

Statistics Committee Chairman—IRA V. KEPNER, Pennsylvania Salt Manufacturing Co., Menominee, Mich.

Members at Large—

DR. ELIZABETH B. BRICKER, Lititz, Pa.

F. E. CLANCY, JR., Mathieson, Alkali Works, Inc., Niagara Falls, N. Y.

F. W. DENNIS, Hooker Electrochemical Co., Niagara Falls, N. Y.

E. F. KING, Lever Brothers Co., Cambridge, Mass.

S. F. LARCHAR, Thomas A. Edison Industries, West Orange, N. J.

H. L. MINER, E. I. duPont de Nemours & Co., Wilmington, Del.

E. L. ROOT, Celluloid Corporation, Newark, N. J.

C. E. SEVRENS, Merrimac Chemical Co., Inc., Boston, Mass.

JOHN S. SHAW, Hercules Powder Co., Wilmington, Del.

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

PLUMMER WHEELER, American Cyanamid Co., Linden, N. J.

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

MONDAY AFTERNOON SESSION

October 1, 1934

The opening session of the Chemical Section was called to order by General Chairman John Roach, Deputy Commissioner of Labor, State of New Jersey, Trenton, N. J. Chairman Roach introduced Dr. W. R. Veazey, head of the Chemical

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TWENTY-THIRD ANNUAL SAFETY CONGRESS NATIONAL SAFETY COUNCIL



Construction Section

Officers 1933-34

- General Chairman*—JOHN RUSSELL, JR., United Engineers & Constructors, Inc., Newark, N. J.
- Vice-Chairman*—W. G. WHEELER, Building Trades Employers' Association, New York, N. Y.
- Vice-Chairman for Engineering Projects*—P. R. MANETTA, JR., Thompson Starrett Co., New York, N. Y.
- Vice-Chairman for Utility Construction*—C. H. BLACK, Stone & Webster Engineering Corp., Boston, Mass.
- Vice-Chairman for U. S. Engineer Department*—CAPT. ELLIOTT VANDEVANTER, C. of E., Office of the Chief of Engineers, Washington, D. C.
- Secretary*—ROBERT MCKINLEY, General Accident Fire & Life Assurance Corp., Detroit, Mich.
- News Letter Editor*—EDGAR N. GOLDSTINE, (State Compensation Insurance Fund of Calif.), San Francisco, Calif.
- Engineering Committee Chairman*—J. C. FORESTER, The L. E. Myers Co., Chicago, Ill.
- Membership Committee Chairman*—NORMAN WELLINGS, Booth & Flinn, Ltd., Pittsburgh, Pa.
- Poster Committee Chairman*—JAMES N. DOYLE, James N. Doyle Adjustment Bureau, Reg'd., Montreal, Quebec, Can.
- Program Committee Chairman*—R. J. REIGELUTH, C. W. Blakeslee & Sons, New Haven, Conn.
- Publicity Committee Chairman*—THOMAS W. WALTON, Henry W. Horst Co., Philadelphia, Pa.
- Statistics Committee Chairman*—W. A. SNOW, Associated General Contractors of America, Inc., Washington, D. C.
- Members at Large*—
W. F. AUSTIN, Detroit, Mich.
MISS E. S. GHEE, McLaury Marble Corp., New York, N. Y.
W. R. RICHARDS, Bureau of Contract Information, Inc., Washington, D. C.
GEORGE WIDUA, Builders and Manufacturers Mutual Casualty Co., Chicago, Ill.

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TWENTY-THIRD ANNUAL SAFETY CONGRESS NATIONAL SAFETY COUNCIL



Delivery, Taxicab and Bus Section

Officers 1933-34

General Chairman—C. H. RUTH, The Evening Star, Washington, D. C.

Vice-Chairman for Bakery Fleets—A. E. CAMERON, Pie Bakeries, Inc., Newark, N. J.

Vice-Chairman for Beverage Fleets—T. A. SCHENDEL, Premier-Pabst Corp., Milwaukee, Wis.

Vice-Chairman for Bus Fleets—City—LEONARD E. MANUEL, United Motor Coach Company, Des Plaines, Ill.

Vice-Chairman for Inter-City Buses—EARL HENSLEY, Pacific Greyhound Lines, San Francisco, Calif.

Vice-Chairman for Dairy Fleets—A. E. LUNDSTEADT, Bowman Dairy Company, Chicago, Ill.

Vice-Chairman for Ice and Coal Fleets—L. W. DAWLEY, Southern United Ice Company, Jackson, Miss.

Vice-Chairman for Laundry Fleets—P. G. WEITZ, Park Laundry Co., Jamaica, N. Y.

Vice-Chairman for Newspaper Fleets—W. F. BURK, The Canton Repository, Canton, Ohio.

Vice-Chairman for Petroleum Fleets—C. W. SMITH, Standard Oil Company, Chicago, Ill.

Vice-Chairman for Public Utility Fleets—H. N. GAINER, New York and Queens Electric Light and Power Co., Long Island City, N. Y.

Vice-Chairman for Retail Store Fleets—C. G. HOBART, Wieboldt Stores, Inc., Chicago, Ill.

Vice-Chairman for Trucking—City—H. E. TREZISE, Koppers Seaboard Coke Co., Brooklyn, N. Y.

Vice-Chairman for Inter-City Trucking—D. M. MILES, Here Comes Meeks, Seven Mile, Ohio.

Program Committee Chairman—S. S. GREENBERG, Maxwell-Davis, Inc., Hartford, Conn.

Engineering Committee Chairman—A. D. PRENTICE, Hartford Accident & Indemnity Co., New York, N. Y.

Poster Committee Chairman—V. L. NUTLEY, Northwest Casualty Co., Seattle, Wash.

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TWENTY-THIRD ANNUAL SAFETY CONGRESS
NATIONAL SAFETY COUNCIL



Food Section

Officers 1933-34

- General Chairman*—T. A. SCHENDEL, Premier-Pabst Corp., Milwaukee, Wis.
Vice-Chairman—FRANK A. HASSE, Corn Products Refining Co., Chicago, Ill.
Secretary and News Letter Editor—RUTH E. CADE, A. E. Staley Manufacturing Co., Decatur, Ill.
Engineering Committee Chairman—PAUL GOODNOUGH, Quaker Oats Co., Chicago, Ill.
Membership and Program Committee Chairman—W. C. WASHBURN, Sheffield Farms Co., Inc., New York, N. Y.
Poster Committee Chairman—ROBERT FLEMING, Kellogg Company, Battle Creek, Mich.
Publicity Committee Chairman—C. W. TURNING, Gooddard & Heinselman, Minneapolis, Minn.
Statistics Committee Chairman—J. J. LYONS, John F. Jelke Co., Chicago, Ill.
Slides and Safety Kinks Committee Chairman—PAIGE LEHMAN, Pillsbury Flour Mills, Minneapolis, Minn.
- Members at Large*—
WILLIAM F. BARRETT, Horn and Hardart Baking Co., Philadelphia, Pa.
W. P. BELL, California and Hawaiian Sugar Refining Corp., Crockett, Calif.
D. M. CLARK, Society of Grain Elevator Superintendents of North America, Chicago, Ill.
MORRIS COHEN, Schulze Baking Co., Kansas City, Mo.
C. W. DEMPSEY, Liquid Carbonic Corp., Chicago, Ill.
ALEXANDER DIENST, The National Sugar Refining Co., Long Island City, N. Y.
E. W. GREEN, Oahu Sugar Co., Ltd., Waipahu, Oahu, T. H.
C. E. GRIFFIN, The Axton-Fisher Tobacco Co., Louisville, Ky.
ELMER HEIMBACH, Manager, Americus Hotel, Allentown, Pa.
S. B. HORRELL, The Carey Salt Co., Hutchinson, Kansas.
ROBERT MCDADE, Atlantic Sugar Refineries, Ltd., St. John, N. B., Canada.
HENRY J. MINEUR, Borden's, New York, N. Y.
ADOLPH PFEFFER, Adolph Pfeffer Rice Milling Co., Houston, Texas.
R. E. PROUTY, Aetna Life Insurance Co., New York, N. Y.
G. L. RHYS, John Morrell & Co., Ottumwa, Iowa.
THOMAS STROBHAR, Wagner-Taylor Co., Philadelphia, Pa.

WILLIAM A. SULLIVAN, Loose-Wiles Biscuit Co., Kansas City, Mo.
 VERN D. SUTTON, Postum Company, Inc., Battle Creek, Mich.
 R. W. UPSHAW, Anheuser-Busch, Inc., St. Louis, Mo.

TUESDAY MORNING SESSION

October 2, 1934

The opening session of the Food Section was called to order by General Chairman, T. A. Schendel, Premier-Pabst Corporation, Milwaukee, Wisconsin, who presided. The chairman first introduced Mr. W. E. Carter, Branch Manager, Cleveland Plant, Kroger Grocery & Baking Co., Cleveland, who made a brief address of welcome on behalf of the Convention City.

Chairman Schendel then presented a "Resume of Ten Years Activities" outlining some of the work of the section officers and praising the accomplishments of standing committees. He then called for the report of the Nominating Committee, and new officers for the section were nominated and elected as follows:

General Chairman—T. A. Schendel, Premier-Pabst Corporation, Milwaukee, Wis.
Vice-Chairman in Charge of Membership—C. W. Deemsey, Ewing Carbonic Corp., Chicago, Ill.

Vice Chairman—S. B. Horrell, The Carey Salt Co., Hutchinson, Kansas.
Secretary—D. M. Clark, Society of Grain Elevator Superintendents, North America, Chicago, Ill.

New Letter Editor—Frank A. Hassel, Corn Products Refining Co., Chicago, Ill.
Engineering Committee Chairman—G. J. Gore, Bruce, Denson & Co., Kansas City, Mo.

Health Committee Chairman—Robert Fleming, Kellogg Company, Battle Creek, Mich.

Pesticide Committee Chairman—William A. Sullivan, Loose-Wiles Biscuit Co., Kansas City, Mo.

Publishing Committee Chairman—Ruth F. Cade, A. B. Stacey Manufacturing Co., Decatur, Ill.

Slides and Safety Kirby Committee Chairman—G. L. Pyles, John J. Ford & Co., Ottumwa, Iowa.

Statistics Committee Chairman—C. W. Tamm, J. Goodman & Henshaw, Manufacturers, Mich.

Directors—

Carl C. Clements, National Dairy Products Corp., New York, N. Y.
 Ray T. Co'um, Rockwood & Co., Brooklyn, N. Y.
 A. B. Dean, Commander Laramie Corp., Minneapolis, Minn.
 C. C. DeVivo, American Chicle Co., Long Island City, N. Y.
 Alexander Dienst, The National Sugar Refining Co., Long Island City, N. Y.
 H. K. Eastman, The Hills Brothers Co., Brooklyn, N. Y.
 A. D. Ferrari, Bohannon Distributing Co., Ltd., Los Angeles, Calif.
 L. G. Green, Wilson & Co., Inc., Chicago, Ill.
 E. C. Grether, The American Sugar Refining Co., New York, N. Y.
 W. O. Hays, Southern Ice & Utilities Co., Dallas, Texas.
 Theodore Krieser, Pennsylvania Hotel, New York, N. Y.
 William P. Martin, South Texas Oil Co., Oil Co., Houston, Texas.
 Henry J. Miner, The Borden Company, New York, N. Y.
 R. R. Rogers, Pencil & Lead Co., Los Angeles, Calif.
 A. C. Schroeder, Church & Dwight Co., Inc., Syracuse, N. Y.
 C. E. Sibley, Jewel Tea Co., Inc., Birmingham, Ala.
 W. W. Smith, Smith Brothers, Inc., Fairbairn, Minn.
 Vern D. Sutton, Postum Company, Inc., Battle Creek, Mich.
 Walter Thomas, Hage's, Limited, Sacramento, Calif.
 Donald W. Udey, United Fruit Co., Boston, Mass.

TWENTY-THIRD ANNUAL SAFETY CONGRESS
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Marine Section

Officers 1933-34

General Chairman—FRANK H. COGAN, Railroad Marine Service, 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. O. WOLL, General Petroleum Corp. of Calif., Terminal Island, Calif.

Secretary—E. C. HOLDEN, JR., United States P. & I. Agency, Inc., New York, N. Y.

News Letter Editor—HENRY BLACKSTONE, United States P. & I. Agency, Inc., San Francisco, Calif.

Engineering Committee Chairman—B. C. EDWARDS, Consulting Engineer, New York, N. Y.

Membership Committee Chairman—W. E. STEWARDSON, Colombian Steamship Co., New York, N. Y.

Program Committee Chairman—J. S. HUNTER, The Atlantic Refining Co., Philadelphia, Pa.

Statistics Committee Chairman—BENJAMIN H. SELF, Travelers Insurance Co., New York, N. Y.

Stevedoring Committee Chairman—F. C. GREGORY, United States Employees' Compensation Commission, Washington, D. C.

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.

A. R. BUSH, International Flare-Signal Co., New York, N. Y.

E. W. FISKE, JR., Standard-Vacuum Transportation Co., New York, N. Y.

CHARLES H. FLATHERS, Eastern Steamship Lines, Inc., Boston, Mass.

F. P. FOISIE, Shipping Federation of the State of Washington, Seattle, Wash.

J. M. GRISIER, Alabama Dry Dock & Shipbuilding Co., Mobile, Ala.

WM. GROUNDWATER, Union Oil Co. of Calif., Los Angeles, Calif.

WM. F. JONES, Gulf Refining Co., New York, N. Y.

W. P. KAIN, Marine Surveyor, New York, N. Y.

R. K. KELLY, Tide Water Oil Co., New York, N. Y.

UNITED STATES GOVERNMENT

Washington, D. C.

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Metals Section

Officers 1933-34

- General Chairman*—E. F. BLANK, Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Vice-Chairman—J. A. VOSS, Republic Steel Corporation, Youngstown, Ohio.
Vice-Chairman—H. W. DARR, Bethlehem Steel Company, Johnstown, Pa.
Secretary and News Letter Editor—A. BERQUIST, The Youngstown Sheet and Tube Company, East Chicago, Ind.
Engineering Committee Chairman—J. E. CULLINEY, Bethlehem Steel Company, Bethlehem, Pa.
Health Committee Chairman—DR. R. C. ENGEL, The Corrigan, McKinney Steel Company, Cleveland, Ohio.
Membership Committee Chairman—R. A. CHAFFIN, Continental Steel Corp., Kokomo, Ind.
Poster Committee Chairman—W. D. SPEIGHT, Keystone Steel & Wire Co., Peoria, Ill.
Program Committee Chairman—C. M. ALLEN, The American Rolling Mill Co., Middletown, Ohio.
Publicity Committee Chairman—A. M. LYTLE, The Newton Steel Company, Newton Falls, O.
Statistics Committee Chairman—C. E. RALSTON, Pittsburgh Plate Glass Co., Pittsburgh, Pa.
Slides and Safety Kinks Committee Chairman—J. A. OARTEL, Carnegie Steel Company, Pittsburgh, Pa.
Foundry Committee Chairman—F. G. BENNETT, The Buckeye Steel Castings Company, Columbus, Ohio.
Railway Car Builders Committee Chairman—P. J. BRAND, Pullman Car & Manufacturing Corporation, Pullman, Chicago, Ill.
- Members at Large*—
L. S. ADAM, Hubbard Steel Foundry, East Chicago, Ind.
J. A. COLTRIN, National Radiator Corporation, Johnstown, Pa.
H. M. CROGHAN, Inland Steel Company, East Chicago, Ind.
G. A. DAVIS, Illinois Steel Company, Chicago, Ill.
JOHN P. EIB, Illinois Steel Company, Joliet, Ill.
E. A. ELLIS, Wheeling Steel Corp., Wheeling, W. Va.
W. T. FILMER, The Youngstown Sheet and Tube Co., Youngstown, Ohio.
A. C. GIBSON, Spang, Chalfant & Company, Inc., Pittsburgh, Pa.

1. The first part of the report is a summary of the work done during the year.

2. The second part is a detailed account of the work done during the year.

3. The third part is a summary of the work done during the year.

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Mining Section

Officers 1933-34

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

Vice-Chairman in Charge of Membership Coal Mines—FRANK B. DUNBAR, Pickands, Mather & Co., Mather, Pa.

Vice-Chairman in Charge of Membership Metal Mines—J. W. ALT, Calumet & Hecla Consolidated Copper Co., Calumet, Mich.

Vice-Chairman in Charge of Engineering—WM. G. METZGER, Hudson Coal Co., Scranton, Pa.

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

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

Poster and Slide Committee Chairman—J. J. FORBES, United States Bureau of Mines, Pittsburgh, Pa.

Program Committee Chairman—R. N. HOSLER, Coal Mine Section, Pennsylvania Compensation Rating & Inspection Bureau, Harrisburg, Pa.

Publicity Committee Chairman—M. R. BUDD, Explosives Engineer, Wilmington, Del.

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

Members at Large—

W. H. COMINS, National Lead Co., St. Francois, Mo.

M. F. FAIRLIE, The Mining Corporation of Canada, Ltd., Toronto, Ont., Canada.

C. W. GIBBS, Harwick Coal and Coke Co., Pittsburgh, Pa.

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

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

LEE LONG, Clinchfield Coal Corp., Dante, Va.

GEORGE MARTINSON, Pickands, Mather & Co., Hibbing, Minn.

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

M. W. PRICE, Jeddo-Highland Coal Co., Jeddo, Pa.

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

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

TWENTY-THIRD ANNUAL SAFETY CONGRESS
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Paper and Pulp Section

Officers 1933-34

- General Chairman*—H. G. GILSON, Oxford Paper Co., Rumford, Maine.
Vice-Chairman in Charge of Membership—H. D. BANTA, Hoberg Paper and Fibre Co., Green Bay, Wis.
Secretary and News Letter Editor—F. L. IRVIN, St. Croix Paper Co., Woodland, Maine.
Program Committee Chairman—E. E. Grant, The Crystal Tissue Co., Middletown, Ohio.
Engineering Committee Chairman—GEORGE J. ADAMS, International Paper Co., New York, N. Y.
Statistics Committee Chairman—R. I. DICKINSON, Cornell Wood Products Co., Cornell, Wis.
Health Committee Chairman—DR. L. H. FRECHTLING, The Champion Coated Paper Co., Hamilton, Ohio.
Poster Committee Chairman—DON C. HUNTER, Oxford Miami Paper Co., West Carrollton, Ohio.
Contest Committee Chairman—A. SCOTT DOWD, The Paper Industry, Chicago, Ill.
- Members at Large*—
ERNEST AUGUSTUS, The Mead Corp., Chillicothe, Ohio.
W. J. BRENNAN, State Department of Labor and Industry, Augusta, Maine.
E. R. BROWN, Oregon and Columbia Basin Division, National Safety Council, Portland, Oregon.
WM. H. BRYDGES, Bedford Pulp & Paper Co., Big Island, Va.
KENNETH L. FAIST, The Champion Coated Paper Co., Hamilton, Ohio.
W. A. GLEASON, Hammermill Paper Co., Erie, Pa.
JOHN LUNDRIGAN, International Paper Co., New York, N. Y.
W. J. PEACOCK, Northern Paper Mills, Green Bay, Wis.
J. J. PLZAK, Consolidated Water Power and Paper Co., Wisconsin Rapids, Wis.
SAMUEL PRUYN, Finch-Pruyn and Co., Inc., Glens Falls, N. Y.
B. D. ROGERS, Bird & Sons, Inc., East Walpole, Mass.
F. H. ROSEBUSH, Nekoosa-Edwards Paper Co., Port Edwards, Wis.

TWENTY-THIRD ANNUAL SAFETY CONGRESS
NATIONAL SAFETY COUNCIL



Petroleum Section

Officers 1933-34

- General Chairman*—R. W. BLACK, Standard Oil Co. of N. J., Elizabeth, N. J.
Vice-Chairman—A. W. BREELAND, Lone Star Gas Co., Dallas, Texas.
Chairman, Atlantic Division—J. H. BROWN, Tide Water Oil Co., New York, N. Y.
Chairman, Great Lakes Division—J. H. HERBERT, Standard Oil Co. (Ohio), Cleveland, Ohio.
Chairman, Mid-Continent Division—A. A. ODELL, Barnsdall Refineries, Inc., Tulsa, Okla.
Chairman, Gulf Division—W. P. REYMOND, JR., Standard Oil Co. of Louisiana, Baton Rouge, La.
Chairman, Rocky Mountain Division—B. V. OSBORN, Standard Oil Co. (Ind.), Casper, Wyo.
Chairman, Pacific Division—J. K. ROBERTS, The Texas Co., Los Angeles, Calif.
News Letter Editor—G. O. LOCKWOOD, The Empire Companies, Bartlesville, Okla.
Engineering Committee Chairman—R. B. ROAPER, Humble Oil and Refining Co., Houston, Texas.
Health Committee Chairman—DR. R. A. JEWETT, General Petroleum Corporation of California, Los Angeles, Calif.
Poster Committee Chairman—H. J. WILSON, Associated Oil Co., San Francisco.
Program Committee Chairman—C. L. HIGHTOWER, United Gas Company, Houston, Texas.
Publicity Committee Chairman—J. L. RISINGER, Magnolia Petroleum Co., Dallas, Texas.
Statistics Committee Chairman—J. W. MYERS, Standard Oil Co. (N. J.), New York, N. Y.
Past General Chairmen—
R. S. BONSH, Standard Oil Co. (N. J.), New York, N. Y.
V. R. CURRIE, The Texas Co., Houston, Texas.
R. E. DONOVAN, Standard Oil Company of Calif., San Francisco, Calif.
C. L. HIGHTOWER, United Gas Company, Houston, Texas.
GEO. F. PRUSSING, Union Oil Company of Calif., Los Angeles, Calif.
E. J. SENNE, Socony-Vacuum Corp., New York, N. Y.
C. W. SMITH, Standard Oil Co. (Ind.), Chicago, Ill.
D. J. WALLACE, Petroleum Safety Council, Tulsa, Okla.
Secretary—H. N. BLAKESLEE, American Petroleum Institute, Dallas, Texas.

TWENTY-THIRD ANNUAL SAFETY CONGRESS
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Power Press Section

Officers 1933-34

General Chairman—A. L. KAEMS, Simmons Company, Kenosha, Wis.

Vice-Chairman—H. L. VITS, Aluminum Goods Manufacturing Co., Manitowoc, Wis.

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

News Letter Editor—C. E. LIBBY, Scintilla Magneto Co., Sidney, N. Y.

Engineering Committee Chairman—LOUIS BORAKS, Liberty Mutual Insurance Co., Boston, Mass.

Exhibit Committee Chairman—B. F. ROCKHOFF, Detroit Steel Products Co., Detroit, Mich.

Health Committee Chairman—DR. GEORGE R. NICHOLS, American Can Co., Chicago, Ill.

Membership Committee Chairman—H. W. HOWSAM, Hubbard Spool Co., Chicago, Ill.

Poster Committee Chairman—G. S. THOMPSON, Gnau & Company, Detroit, Mich.

Program Committee Chairman—GEORGE H. BERRY, Western Electric Co., Chicago, Ill.

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

Statistics Committee Chairman—J. D. LYLE, Fisher Body Company of Cleveland, Cleveland, Ohio.

Slides and Safety Kinks Committee Chairman—E. J. WALLMAN, Great Lakes Forge Co., Chicago, Ill.

Members at Large—

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

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

JOHN B. GIBSON, Western Electric Co., Chicago, Ill.

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

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

E. J. SMITH, Western Electric Co., Chicago, Ill.

TWENTY-THIRD ANNUAL SAFETY CONGRESS
NATIONAL SAFETY COUNCIL



Public Utilities Section

Officers 1933-34

- General Chairman*—F. M. PEPPER, Illinois Bell Telephone Co., Chicago, Ill.
Vice-Chairman for Telegraph and Telephone Interests—D. W. WAIT, The Bell Telephone Co. of Pennsylvania, Pittsburgh, Pa.
Vice-Chairman for Gas Interests—E. J. KREH, Philadelphia Company, Pittsburgh, Pa.
Vice-Chairman for Electric Interests and Program—ROY M. GODWIN, Philadelphia Electric Co., Philadelphia, Pa.
Secretary—JOHN J. BARADA, Laclede Gas Light Co., St. Louis, Mo.
News Letter Editor—RAY A. EDWARDS, San Diego Consolidated Gas and Electric Co., San Diego, Calif.
Engineering Committee Chairman—W. H. MULLIGAN, Hydro-Electric Power Commission, Toronto, Ont., Canada.
Health Committee Chairman—DR. HART E. FISHER, Chicago Rapid Transit Co., Chicago, Ill.
Membership Committee Chairman—A. A. KLINGE, Public Service Co. of Colorado, Denver, Colo.
Poster and Film Strip Committee Chairman—H. W. LUECK, Commonwealth Edison Co., Chicago, Ill.
Publicity Committee Chairman—H. E. SHEDD, Appalachian Electric Power Co., Bluefield, W. Va.
Statistics and Contest Committee Chairman—W. H. BROWN, Northern States Power Co., Minneapolis, Minn.
- Special Representatives—*
J. M. BUSWELL, San Joaquin Light & Power Corp., Fresno, Calif.
S. C. DICKINSON, Pacific Gas and Electric Co., San Francisco, Calif.
PAUL R. KUHN, Penn Central Light and Power Co., Altoona, Pa.
W. R. LOYD, Alabama Power Co., Birmingham, Ala.
H. A. PTOLEMY, Public Service Co. of Northern Illinois, Chicago, Ill.
JOHN STILWELL, Consolidated Gas Co. of New York, New York, N. Y.
W. A. BUCHANAN, Appalachian Electric Power Co., Welch, W. Va.
E. L. DONA, Niagara Hudson Power Corporation, Syracuse, N. Y.
- Councillors—*
E. S. BEAUMONT, The Peoples Gas Light & Coke Co., Chicago, Ill.
C. B. BOULET, Wisconsin Public Service Corp., Milwaukee, Wis.
B. B. McCULLOCH, Bureau of Safety, Chicago, Ill.

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9. *Conclusions*

the 1990s, the number of people in the world who are illiterate has increased from 1.2 billion to 1.5 billion. In 1990, 15% of the world's population was illiterate; in 2000, 17% was illiterate. The number of illiterate people in the world is expected to reach 1.7 billion by 2015. The illiterate population is growing faster than the literate population. The illiterate population is growing faster than the literate population. The illiterate population is growing faster than the literate population.

BY W. B. KENT, JR., ATTORNEY AT LAW.

$$\begin{aligned} \text{Proof (sketch). } & \text{Let } M(\alpha, \beta) = \sum_{j=0}^{\infty} c_j x^j \in R[[x]] \text{ with } c_0 = 1. \text{ Then } \\ & \quad \beta c_j + c_{j+1} = 0 \text{ for all } j \geq 0. \end{aligned}$$
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TWENTY-THIRD ANNUAL SAFETY CONGRESS
NATIONAL SAFETY COUNCIL



Quarry Section

Officers 1933-34

General Chairman—OTHO M. GRAVES, The General Crushed Stone Co., Easton, Pa.

Vice-Chairman—WILLIAM H. BAKER, J. E. Baker Co., York, Pa.

Secretary and News Letter Editor—V. P. AHEARN, National Sand and Gravel Association, Washintgon, D. C.

Poster Committee Chairman—H. F. YOTTER, The General Crushed Stone Co., Easton, Pa.

Publicity Committee Chairman—J. R. BOYD, National Crushed Stone Association, Washington, D. C.

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

Members at Lage—

NORMAN G. HOUGH, The National Lime Association, Washington, D. C.

H. V. OWENS, Eastern Rock Products, Inc., Utica, N. Y.

JOHN PRINCE, Stewart Sand and Material Co., Kansas City, Mo.

A. L. WORTHEN, The Connecticut Quarries Co., Inc., New Haven, Conn.

WEDNESDAY MORNING SESSION

October 3, 1934

The opening session of the Quarry Section was called to order by John Campbell, Director, Bureau of Inspection, Pennsylvania Department of Labor and Industry, Harrisburg, Pa., who presided. This was scheduled to be a joint session with the Cement Section. Chairman Campbell introduced P. A. Mori, Works Manager, Cleveland Quarries Company, Amherst, Ohio, who made a brief address of welcome to the delegates on the part of the city of Cleveland.

In lieu of the annual report of the general chairman Otho M. Graves, who was unable to be present, a lengthy wire was read from him expressing his regrets. Chairman Campbell then introduced the first speaker.

TWENTY-THIRD ANNUAL SAFETY CONGRESS
NATIONAL SAFETY COUNCIL



Refrigeration Section

Officers 1933-34

General Chairman—L. W. DAWLEY, Southern United Ice Company, Jackson, Miss.

Vice-Chairmen—

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

CARL C. CLEMENTS, National Dairy Products Corporation, New York, N. Y.

W. S. WILCOX, E. B. Higley & Co., Mason City, Ia.

Secretary—EDWARD H. FOX, Chicago, Ill.

News Letter Editor—W. O. HAM, Southern Ice & Utilities Co., Dallas, Texas.

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

Membership Committee Chairman—COL. P. A. WEATHERED, Houston, Texas.

Poster Committee Chairman—B. C. SKEEN, City Ice Company of Kansas City, Kansas City, Mo.

Publicity Committee Chairman—O. J. WILLOUGHBY, Refrigeration Publishing Co., Atlanta, Ga.

Statistics Committee Chairman—HERMAN HILLENBACH, American Ice Company, care of Knickerbocker Ice Company, New York, N. Y.

Members at Large—

A. J. AUTHENRIETH, Chicago, Ill.

A. H. BAER, Carbondale Machine Co., Carbondale, Pa.

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

G. H. GINGER, The City Ice & Fuel Co., Cleveland, Ohio.

J. ALBERT GREENE, Geyser Ice Co., Waco, Texas.

H. F. HIRSCHFIELD, Wisconsin Ice & Coal Co., Milwaukee, Wis.

E. G. HITT, American Associated Mutual Insurance Co., Atlanta, Ga.

H. L. LINCOLN, The Union Ice Co., San Francisco, Calif.

L. T. McARTHUR, Peoria Service Co., Peoria, Ill.

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

JOSEPH MOUDRY, Chicago Ice Producers Mutual Liability Co., Chicago, Ill.

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

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

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

H. L. TRASK, United States Cold Storage Company, Kansas City, Mo.

TWENTY-THIRD ANNUAL SAFETY CONGRESS
NATIONAL SAFETY COUNCIL



Rubber Section

Officers 1933-34

General Chairman—H. W. Low, Miller Rubber Products Co., Inc., Akron, Ohio.

Vice-Chairman in Charge of Program—B. F. GERPHEIDE, The Goodyear Tire & Rubber Co., Akron, Ohio.

Secretary—A. M. DIETZ, Pennsylvania Rubber Co., Jeanette, Pa.

News Letter Editor—R. A. BULLOCK, Corduroy Rubber Co., Grand Rapids, Mich.

Engineering Committee Chairman—W. L. SCHNEIDER, The B. F. Goodrich Co., Akron, Ohio.

Health Committee—

DR. W. S. ASH, United States Tire Co., Inc., Detroit, Mich.

DR. J. NEWTON SHIRLEY, Hood Rubber Co., Inc., Watertown, Mass.

Membership Committee Chairman—E. W. BECK, United States Rubber Co., New York, N. Y.

Poster Committee Chairman—OLIVER HOPKINS, National India Rubber Co., Providence, R. I.

Publicity Committee Chairman—R. W. MORSE, The Firestone Tire and Rubber Co., Akron, Ohio.

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

Slides and Safety Kinks Committee Chairman—H. A. WALKER, The Goodyear Tire and Rubber Co., Akron, Ohio.

Members at Large—

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

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

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

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

TUESDAY MORNING SESSION

October 2, 1934

The opening session of the Rubber Section was called to order by General Chairman H. W. Low, Miller Rubber Products Co., Inc., Akron, Ohio, who presided. The chairman gave a brief resume of the Rubber Section activities during the past

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TWENTY-THIRD ANNUAL SAFETY CONGRESS NATIONAL SAFETY COUNCIL



Safety Section, A R A -- Steam Railroad Section, N S C

Chairman—C. L. LAFONTAINE, Great Northern Railway Co., St. Paul, Minn.
First Vice-Chairman—H. A. PARISH, Chicago & North Western Railway, Chicago.
Second Vice-Chairman—W. H. FAILING, Central Railroad of New Jersey.
Secretary—J. C. CAVISTON, American Railway Association, New York City.

A complete report of these sessions is published by the American Railway Association in a booklet entitled, "Proceedings of the Fourteenth Annual Meeting of the Safety Section, Cleveland, Ohio, October 2-4, 1934." Copies of the booklet are available from the Association of American Railroads, N. Y. C. The following is a condensed record.

TUESDAY MORNING SESSION

October 2, 1934

The opening session of the Safety Section, American Railway Association—Steam Railroad Section, National Safety Council was called to order by Chairman C. L. LaFountaine, Great Northern Railway, St. Paul, Minnesota, who presided. The invocation was delivered by L. G. Bentley, Chesapeake and Ohio Railway. The report of the Secretary, J. C. Caviston, New York City, in which he outlined briefly the activities of officers and standing committees during the last year, was read and approved. The Chairman then presented his annual report.

Annual Report of the Chairman

By C. L. LA FOUNTAINE

Great Northern Railway, St. Paul, Minn.

The speaker said in part: Let us go back for a moment to the resolution adopted at our annual meeting in 1924, which set a goal calling for reduction, based on the 1923 record, of 35 per cent in casualties to employees on duty, Class I railroads, by

tional Safety Council

Committee

n called for and it was pre-
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nington, N. C.
erican Railway Association in
l, Ohio, October 2 to 4, 1934,
led to:
he Equitable Life Assurance
road employee casualty statis-

Safety, Interstate Commerce
Conditions and Practices In-
ureau of Safety,' also for his
operation of the Bureau of
n on the American Railways.
s, General Safety Supervisor.
of the Section during his term

and energetic services during

Northern Pacific Railway, for
e Program Committee, thereby
Annual Convention;
such a commendable cause as

their contribution to the well

be spread upon the records of
all of those recognized herein."
y accepted, and passed by the

ellers

s on election of officers for the
is presented by H. S. Corbin.
d, as follows:

ty, Pennsylvania Railroad;
torney, Central Railroad Com-

udent of Safety, Missouri Pa-

President, Erie Railroad; and
tral Lines.

ent of Safety, Chicago, Rock

lent of Safety and Sanitation,

Superintendent System, Atchi-
Blakemore, Superintendent of
ph, Supervisor of Safety and
C. Murphy, Superintendent of
J. C. Yocum, Manager, Safety
naha Railway.

TWENTY-THIRD ANNUAL SAFETY CONGRESS NATIONAL SAFETY COUNCIL



Textile Section

Officers 1933-34

General Chairman—CHARLES H. EAMES, Lowell Textile Institute, Lowell, Mass.
Vice-Chairman in Charge of Program—IGNATIUS MACNULTY, 81 Wallace St.,
Malden, Mass.

Vice-Chairman—M. W. HEISS, Proximity Manufacturing Co., Greensboro, N. C.

Vice-Chairman—B. R. BROWN, Columbia Mills, Inc., Chicago, Ill.

Secretary and News Letter Editor—E. E. PLACE, American Mutual Liability In-
surance Co., Boston, Mass.

Engineering Committee Chairman—PAUL W. VIETS, Plymouth Cordage Co., North
Plymouth, Mass.

Membership Committee Chairman—E. G. PADGETT, North Carolina Industrial Com-
mission, Raleigh, N. C.

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

Statistics Committee Chairman—J. T. TROLINGER, American Bemberg Corp., and
American Glanzstoff Corp., Elizabethton, Tenn.

Members at Large—

ARTHUR BARLOW, Armstrong Cork Co., Lancaster, Pa

RUSSELL T. FISHER, The National Association of Cotton Manufacturers, Bos-
ton, Mass.

WALTER HUMPHREYS, National Association of Wool Manufacturers, Boston,
Mass.

TUESDAY MORNING SESSION

October 2, 1934

The opening session of the Textile Section was called to order by Acting Chair-
man E. E. Place, American Mutual Liability Insurance Co., Boston, Mass., who
presided. Chairman Place introduced George Richman, Secretary, Richman Broth-
ers Company, Cleveland, Ohio, who made a brief welcoming address to the delegates
on behalf of the Convention City.

Officers 1933-34

136

MONDAY AFTERNOON 11:55 AM

October 1966

Physical Examination in Department of

W. HART T. FISHER, M.D.

Chief Surgeon, Chicago & North Branch

TWENTY-THIRD ANNUAL SAFETY CONGRESS
NATIONAL SAFETY COUNCIL



Wood Products Section

Officers 1933-34

General Chairman—LOUIS W. KERBERG, Mengel Body Co., Louisville, Ky.

Vice-Chairmen—

F. W. BRAUN, Employers Mutual Liability Insurance Co., Wausau, Wis.

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

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

News Letter Editor—ROBERT ORMSBY, B. F. Huntley Furniture Co., Winston-Salem, N. C.

Engineering Committee Chairman—THOMAS J. HEALEY, T. H. Mastin & Co., St. Louis, Mo.

Health Committee Chairman—P. J. BRAND, Pullman Car & Manufacturing Corp., Pullman, Chicago, Ill.

Membership Committee Chairman—E. G. PADGETT, North Carolina Industrial Commission, Winston-Salem, N. C.

Poster Committee Chairman—ROBERT A. SHAW, Murray Body Corp., Detroit, Mich.

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

Statistics Committee Chairman—W. H. CULVER, Klise Manufacturing Co., Inc., Grand Rapids, Mich.

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.

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

W. S. PAINE, Aetna Life Insurance Co., Hartford, Conn.

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

E. K. PRICHETT, Prichett-Powers Co., Grand Rapids, Mich.

MONDAY AFTERNOON SESSION

October 1, 1934

The opening session of the Wood Products Section was called to order by General Chairman Louis W. Kerberg, Mengel Body Company, Louisville, Kentucky, who presided. The chairman introduced Mr. D. L. Sampson, Superintendent,