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MINUTES
MEETING, INDUSTRIAL CONFERENCE
NATIONAL SAFETY COUNCIL
LAKE SHORE CLUB, CHICAGO, ILL.
MAY 22, 1963

ATTENDANCE

OFFICERS

Clyde F. Schluster, Chairman, Industrial Conference, Employers Mutuals of Wausau, Wausau, Wis.
J. S. Queener, Chairman-Elect, Industrial Conference, E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.
G. L. Corbell, Chairman of Committees, Industrial Conference, Monsanto Chemical Co., St. Louis, Mo.
R. G. Hanson, Secretary, Industrial Conference, National Safety Council, Chicago, Ill.

MEMBERS

R. H. Albisser, Merck & Co., Rahway, N. J. (Board of Directors)
Cole A. Allen, American Mutual Liability Insurance Co., Wakefield, Mass. (Member-at-Large)
Ida C. Ayers, Collins & Aikman Corp., Albemarle, N. C. (General Chairman, Textile Section)
M. F. Biancardi, Allis-Chalmers Manufacturing Co., Milwaukee, Wis. (Board of Directors)
Dan F. Brady, The Maytag Co., Newton, Iowa (Vice Chairman, Automotive and Machine Shop Section)
Clark Bridges, Industrial Medical Assn., Chicago, Ill. (Board of Directors)
Russell L. Brown, Insurance Institute for Highway Safety, Washington, D. C. (Member-at-Large)
D. L. Buchanan, U. S. Steel Corp., (Pittsburgh Steamship Div.), Cleveland, Ohio (Vice Chairman, Marine Section)
T. H. Bullard, Safety Consultant, Bathoro, Pa. (Chairman, Mechanical Safeguarding Committee)
Thomas J. Cain, Jr., The B. F. Goodrich Co., Akron, Ohio (Member-at-Large)
N. L. Christoffel, United Air Lines, Chicago, Ill. (Member-at-Large)
A. L. Cobb, Eastman Kodak Co., Rochester, N. Y. (Board of Directors)
J. M. Convery, National Association of Manufacturers, New York, N. Y. (Chairman, Associations Committee)
H. C. Daulton, Louisville & Nashville Railroad Co., Louisville, Ky. (Member-at-Large)
E. Dunbar, Potomac Electric Power Co., Washington, D. C. (General Chairman, Public Utilities Section)
H. H. Fawcett, General Electric Co., Schenectady, N. Y. (Member-at-Large)
R. J. Gell, Eastman Kodak Co., Rochester, N. Y. (Member-at-Large)
R. D. Gidel, U. S. Department of Labor, Washington, D. C. (Member-at-Large)
W. R. Gilliland, Aluminum Company of America, Pittsburgh, Pa. (Group Vice Chairman, Sections)
H. P. Goodin, City of Minneapolis, Minneapolis, Minn. (Member-at-Large)
L. H. Gretzer, Cargill, Inc., Minneapolis, Minn. (General Chairman, Food and Beverage Section)

PLAINTIFF'S
EXHIBIT

NSC-150

G. O. Griffin, Dravo Corp., Pittsburgh, Pa. (Board of Directors)
R. Hagopian, Association of Casualty & Surety Cos., New York, N. Y. (Member-at-Large)
R. P. Hamilton, St. Louis-San Francisco Railway Co., St. Louis, Mo. (Chairman, Nominating Committee)
E. S. Hannaford, American Telephone & Telegraph Co., New York, N. Y. (Board of Directors)
R. M. Hartman, Bethlehem Steel Co., Bethlehem, Pa. (Chairman, Contests and Awards Committee)
W. V. Hayes, New York Central System, New York, N. Y. (Vice Chairman, Railroad Section)
W. G. Hazard, Owens-Illinois Glass Co., Toledo, Ohio (Member-at-Large)
K. S. Hedges, General Motors Corp., Detroit, Mich. (Member-at-Large)
N. L. Heuer, Anheuser-Busch, Inc., St. Louis, Mo. (Member-at-Large)
J. D. Holtzapple, Klaw-Knox Co., Pittsburgh, Pa. (Member-at-Large)
T. A. Kraklow, Deere & Co., Moline, Ill. (Board of Directors)
G. F. Kuhns, Illinois Division of Highways, Springfield, Ill. (Vice Chairman, Public Employee Section)
H. A. Kuschmann, United Air Lines, San Francisco, Calif. (Vice Chairman, Air Transport Section)
J. W. Lake, Michigan Mutual Liability Co., Detroit, Mich. (General Chairman, Automotive and Machine Shop Section)
I. F. LeGore, Portland Cement Assn., Chicago, Ill. (Board of Directors)
Marion E. Martin, State of Maine, Augusta, Maine (Member-at-Large)
D. D. Mateer, Jones and Laughlin Steel Corp., Pittsburgh, Pa. (Member-at-Large)
E. G. Meiter, Ph.D., Employers Mutuals of Wausau, Wausau, Wis. (Member-at-Large)
V. J. Meyers, Western Electric Co., Inc., New York, N. Y. (Member-at-Large)
H. S. McFarland, General Motors Corp., Detroit, Mich. (Board of Directors)
R. L. Moore, Lumbermens Mutual Casualty Co., Chicago, Ill. (Chairman, Technical Publications Committee)
G. R. Orth, Westinghouse Electric Corp., Pittsburgh, Pa. (General Chairman, Power Press and Forging Section)
R. N. Papich, American Gas Assn., New York, N. Y. (Board of Directors)
Louise Ratner, Ohio Department of Highways, Columbus, Ohio (Member-at-Large)
H. Riefenstahl, Alpha Portland Cement Co., Easton, Pa. (Member-at-Large)
C. C. Ruddick, Pittsburgh Plate Glass Co., Pittsburgh, Pa. (Member-at-Large)
D. P. Russell, Canadian Pacific Railway, Montreal, Que., Canada (General Chairman, Railroad Section)
F. W. Sands, U. S. Rubber Co., New York, N. Y. (Member-at-Large)
A. L. Schmuhl, Associated General Contractors of America, Inc., Washington, D. C. (Member-at-Large)
D. O. Seiple, The Standard Slag Co., Youngstown, Ohio (General Chairman, Cement, Quarry and Mineral Aggregates Section)
I. W. Shutt, Joseph E. Seagram & Sons, Inc., New York, N. Y. (Member-at-Large)
H. B. Simpson, Caterpillar Tractor Co., Peoria, Ill. (Member-at-Large)
J. B. Skinner, American Mutual Liability Insurance Co., Wakefield, Mass. (Vice Chairman, Textile Section)
G. R. Smith, Champion Lamp Works, Lynn, Mass. (General Chairman, Electrical Equipment Section)
S. F. Spence, American Cyanamid Co., Wayne, N. J. (Board of Directors)
F. C. Starbird, Firestone Synthetic Rubber & Latex Co., Akron, Ohio (Member-at-Large)
G. E. Teal, Ph.D., Dunlap & Associates, Stamford, Conn. (Member-at-Large)
Quincy V. Tuma, Texaco, Inc., Houston, Texas (General Chairman, Petroleum Section)

J. W. Tysse, Republic Steel Corp., Cleveland, Ohio (Vice Chairman, Metals Section)
E. R. Wallace, Eastman Kodak Co., Rochester, N. Y. (General Chairman, Chemical Section)
H. H. Warzyn, Trans World Airlines Inc., Kansas City, Mo. (General Chairman, Air Transport Section)
R. A. Wendell, U. S. Army, Engineers Div., Atlanta, Ga. (Member-at-Large)
P. Windsor, Bureau of Safety, Chicago, Ill. (Vice Chairman, Public Utilities Section)
V. L. Womaldorff, Illinois Power Co., Decatur, Ill. (Group Vice Chairman, Sections)
E. Clark Woodward, A. O. Smith Corp., Milwaukee, Wis. (Board of Directors)

GUESTS

James D. Dunlop, National Association of Manufacturers, New York, N. Y.
J. F. McKenna, American Petroleum Institute, New York, N. Y.
J. O. Parker, American Telephone and Telegraph Co., New York, N. Y.
Stanley W. Parsons, Carnation Co., Los Angeles, Calif.
Merlin C. Race, St. Regis Paper Co., New York, N. Y.

STAFF

A. M. Baltzer, Director, Visual Aids, National Safety Council, Chicago, Ill.
R. G. Bellmap, Director, Off-the-Job Safety, National Safety Council, Chicago, Ill.
Helen Bernstein, Assistant Secretary, Industrial Conference, National Safety Council, Chicago, Ill.
Ralph Coe, Staff Representative, National Safety Council, Chicago, Ill.
R. Currie, Director, Engineering Division, National Safety Council, Chicago, Ill.
L. W. Dutton, Director, Special Projects Division, National Safety Council, Chicago, Ill.
J. Epperson, Staff Representative, National Safety Council, Chicago, Ill.
C. H. Hoch, Staff Representative, National Safety Council, Chicago, Ill.
W. G. Johnson, General Manager, National Safety Council, Chicago, Ill.
A. S. Kelly, Assistant Manager, Industrial Department, National Safety Council, Chicago, Ill.
E. E. Koch, Staff Representative, National Safety Council, Chicago, Ill.
C. J. Luepke, Staff Representative, National Safety Council, Chicago, Ill.
H. McRae, Staff Representative, National Safety Council, Chicago, Ill.
Gene Miller, Director, Statistical Division, National Safety Council, Chicago, Ill.
Marshall Petersen, Staff Representative, National Safety Council, Chicago, Ill.
Paul Schleich, Staff Representative, National Safety Council, Chicago, Ill.
P. Sheppard, Director, Associations Division, National Safety Council, Chicago, Ill.
G. Shibley, Staff Representative, National Safety Council, Chicago, Ill.
L. C. Smith, Director, Training Division, National Safety Council, Chicago, Ill.
J. VanSickle, Staff Representative, National Safety Council, Chicago, Ill.
J. E. Wahl, Statistician, National Safety Council, Chicago, Ill.
C. Wolff, Staff Representative, National Safety Council, Chicago, Ill.

I. CALL TO ORDER OF MEETING

Mr. C. F. Schlueter, called the meeting to order at 9:00 a.m. Members present were reminded to complete the Attendance Record Cards available at the table.

II. APPROVAL OF MINUTES OF JANUARY 23 MEETING

The Chairman called attention to the "Terms of Reference" that had been mailed out with the January 23 Minutes. These "Terms of Reference" for the Industrial Conference were submitted to the Council's Board of Directors for adoption. The Board appointed a special committee to study all "Terms" submitted by the various Conferences of the Council in order to ensure uniformity.

Mr. Schlueter then requested a vote of approval for the January Minutes. The Minutes were approved.

III. INDUSTRIAL DEPARTMENT REPORT - Mr. R. G. Benson

Mr. Benson as Manager of the Industrial Department reported as follows:

STAFF

Since our last meeting we have had a number of staff changes. At the last Conference we discussed the possibility of adding a staff man with a chemical background to relieve our Industrial Hygienist of Chemical Section staff representative duties. On February 1, we added Mr. Grant Shibley to the staff and he assumed these chemical duties. Mr. Shibley came to us from the Chicago Tribune. He has had prior Council experience having been in the Industrial Department some years ago. In college he majored in chemistry and has conducted a course in industrial hygiene in Ohio. The shifting of Mr. Paul Sheppard to Association Division Director created another staff vacancy. The position of staff representative to the Public Utilities Section created quite a problem as individuals from the industry were not forthcoming. However, we feel we were extremely fortunate to find that Mr. R. Coe, Safety Director of Goodman Manufacturing, was available. On May 6 he joined our staff - Ralph Coe is no stranger to the Industrial Conference, having served as Chairman of the Program Committee a few years ago. He is also past Chairman of the Automotive and Machine Shop Section. He has had close experience with one phase of the utility business, having started his working career in electrical maintenance work.

Recently we were confronted with a new problem. On May 1, Mr. Siedlecki, our Industrial Hygienist, left our staff to become Assistant Director of the Council on Occupational Health, American Medical Association. Mr. Julian Olshicki, Head of the Industrial Hygiene Division for the State of Illinois has accepted the position of Director of Industrial Hygiene on our staff.

ACCIDENT PREVENTION MANUAL 5TH EDITION

The 5th Edition of the Accident Prevention Manual is now receiving a great deal of attention. Over 210 of the anticipated, more than 400 reviews have now been received from individuals selected by Conference members. Author assignments have been made for all Chapters on the staff and editorial work will start in the third quarter of 1963.

TRAINING

Our Safety Training Institute with the single exception of the Radiation Course has enjoyed the most successful series of classes in its history. Every class has been filled and a few Fundamentals of Industrial Safety Courses have been beyond the recommended capacity.

The Safety Management Techniques Course being run this week has twenty-four students and we already have close to thirty students enrolled in the June Fundamentals of Industrial Safety Course. The Radiation Course had only twelve students and we have decided that this Course will be dropped from the series.

S-T-E-P (Self Teaching Education Program)

Our Training Director, Mr. Len Smith, made arrangements for a thorough pilot test of this program learning supervisor training course, before submitting final copy to the editors. Five different plants representing diversified industries were used in the test. Based on the result of this field study, the new training program was prepared for the printer.

HOME STUDY COURSE

The Home Study Course has become so much a part of the department's day-to-day activities that we review the enrollment figures each week to anticipate work load. Over 3,250 students have now been enrolled in the Home Study Course and more than 2,000 have been graduated.

AMERICAN SOCIETY OF TRAINING DIRECTORS NATIONAL CONFERENCE

A few weeks ago your Secretary had the opportunity to participate in the first "all safety" session presented at the National Meeting of the American Society of Training Directors. The program was coordinated by Mr. Len Smith, our Training Director.

ACCELERATED ACTION PROGRAM ON TRAFFIC SAFETY

At our last meeting it was announced that a letter was being addressed to all Conference members asking them to make some added effort toward stemming the rising traffic accident situation. All were called to review the traffic safety needs in the

state where they had influence and try to promote necessary effort to satisfy the needs. Many Conference members responded to the call and registered the action they had taken with their companies or organizations.

A similar letter was addressed to all A.S.S.E. chapter presidents. In studying the 1962 situation further it was disclosed that the big increase of 3,000 fatalities, from 38,000 to 41,000 occurred during the summer months. It was decided to send a "do something" letter about traffic safety to all Council members. This consisted of a letter from Mr. Howard Pyle - a list of things that a company could do about the summer safety problem, and a set of three safety talks.

OFF-THE-JOB ACTIVITIES

The director of Off-the-Job Activities reports that many cities and states are contemplating regional off-the-job conferences. Off-The-Job reports are now being received covering more than ten million workers.

FILMS

We have been working on a series of foremanship training films to replace an old sound slide series that was close to twenty years old. This could be considered as an up-to-date version of an old successful slide film series. It is planned to have all action take place in a safety director's office. The safety director and an old friend, a supervisor, are contemplating a new safety training presentation, and as they discuss how to approach the other men in the plant the points to be discussed are debated.

NEW EXPENDABLE EXHIBIT

The Membership Department has made available a new expendable exhibit for the display of Council materials. Anyone contemplating a safety meeting or small conference where a display might be considered should let the Council know and a display can be forwarded. It is a one-shot display and it is intended that it be discarded after use.

NEW MEMBER LETTER

The department is still continuing to contact new members by mail to see if the department can be of further help to get them fully acquainted with the Council and its services. The work has been continued because of the apparent reduction in new member cancellations.

CONGRESS PROGRAM

A new policy has been established this year. Previously the Secretary of the National Safety Council officially invited all speaker

to the Congress, this will now be done by each Conference Secretary. It was felt that closer contact with each program area portion of the Congress could be attained by this change.

SURVEYS

Two surveys were mailed to our Safety Program Consultants since January. One covered the use of incentives in safety programs and the second questioned the current specifications of sound level as a criteria in the purchase of new plant equipment. After surveying all the present Newsletter Editors, Congress Program and Membership Chairmen it was found that a two to one majority favored a Friday morning meeting during Congress week to indoctrinate their replacements. We will hold these meetings on Friday morning and conclude with a combined luncheon.

- IV. STANDING COMMITTEE PROGRESS REPORT - G. L. Gorbelle
Mr. Gorbelle reported that the Standing Committees met on the morning of May 21, and in the afternoon the Chairmen of the Standing Committees presented their reports of these meetings. At this meeting the Group Vice Chairmen of the Standing Committees will report briefly to the Industrial Conference giving the highlights of the various Committee activities.

STANDING COMMITTEES - GROUP "A" - R. E. Papich

- a. The Audio-Visual Aids Committee had met with their Chairman, Mr. Gene Stuffing and had reported that the brochure entitled "Audio-Visual Services," a compilation of reference materials on the subject of audio-visual aid material is being revised. This should be a completed job within the next month.

Plans for the Committee's session at the 1963 Congress were finalized.

A separate Chapter on "Audio-Visual Aids for Safety Personnel" is being prepared for the 5th Edition of the Accident Prevention Manual. It is intended to submit the preliminary draft to the

Technical Publications Committee by the end of June.
Six sets of color-safety-slides on:

- "Attitudes"
- "Hand Tool Safety"
- "Portable Ladders"
- "Lifting"
- "Off-The-Job"
- "Electrical Hazards"

are being prepared and will be ready for distribution in about two weeks. Eight ten-minute color movies on the subject of "Basics of Safety for Supervisors" are being readied for October 1963, Congress presentation.

- b. The Industrial Safety Training Committee had met with their Chairman, Dr. E. Hannaford and they reported that provision for certification of Instructors for Safety Training has been completed, application forms have been reviewed and approved.

An article announcing the certification is scheduled for the August, 1963 issue of the NATIONAL SAFETY NEWS.

New emphasis is being placed for the field presentation of the "Fundamentals of Accident Prevention," Mr. Don Stitt, on a recent trip to the West Coast discussed the possibility of conducting these courses in that area and received renewed interest.

A safety course outline for a seminar directed toward top executives is being prepared. It was felt by the Committee members, that there is a real need for this type of training.

For the S T E P (Self Teaching Education Program) the material has been thoroughly evaluated and tested with five separate groups. This is now being printed and will be available as a sales item around July 1 - there will be three units in one binder and the price will be \$11.50.

- c. The Off-The-Job Safety Committee met with their Vice Chairman, Mr. V. Meyers who reported that the off-the-job reporting to the Council increased 60 per cent within the last year.

One local Council is presently studying the accident costs to members of an employee's family on a community basis.

The Committee agreed that a definite plan be developed for a "Recognition of Seat Belt Use" program - this is to be prepared and submitted to the appropriate Council Conferences for study and opinion.

The original objective of holding three Off-The-Job Regional Conferences in 1963 has already been achieved and there are three more planned, the cities of Pittsburgh, Kansas City and Los Angeles are being considered.

- d. The Standards Committee, in the absence of both the Chairman and the Vice Chairman was "chaired" by Mr. H. S. Simpson who reported that Objectives of the Committee were discussed in detail and several revisions were made.

An article on the subject "Promote Wide, More Effective and Proper Use of Safety Standards" is to appear in a forthcoming issue of the NATIONAL SAFETY NEWS.

A great deal of attention has revolved around the Z.16.1 Code; attention was called to the fact that the results of a survey on the Serious Injury Index conducted some three years ago was filed

with the Secretary of the Z.16.1 Code Committee for consideration in the revision of that Code. The Z.16.1 Committee plans to meet in Washington, D. C., on July 11-12 to consider revision of this Code.

One further point was that the Safety Standard for Pulp and Paper Mills A.S.A. P.L.1 has been approved.

- e. The Technical Publications Committee had met with its Chairman, Mr. R. Moore, who reported that the Council's publication "The Data Sheet Story" is presently being revised.

The Committee's major project is the review of the Accident Prevention Manual. On March 15, 1963, 450 copies of the Manual's Chapters were mailed out for review, each Chapter had 10 reviewers selected for each of the 45 Chapters. By April 15, 225 reviews had been received at Council Headquarters. To urge others to send in their completed reviews, telegrams were sent and immediate response resulted in 70 replies stating that the reviews would be in with a minimum delay and 26 replies indicating they could not complete the assignment.

The Technical Publications Committee now requests that names of reviewers for these uncompleted Chapters be suggested.

STANDING COMMITTEES - GROUP "B" - T. A. Krakow

- a. The Associations Committee met with Mr. J. Convery as Chairman. It was reported that the Association Award Winners will be judged and winners notified by June 15.

It is planned to contact various State Associations and other safety organizations in order to promote attendance at the Congress Associations program.

- b. The Nuclear Energy Committee had met with Mr. James Lake as acting Chairman in the absence of Mr. D. Hayes; they had discussed at some length, the desirability of changing the name of the Committee in order to enlarge its scope and by so doing, its area of activity. The suggested name decided on was "Environmental Health Hazard Committee" and the tentative Scope, Duties and Responsibilities were to be as follows:

SCOPE

The Environmental Health Hazard Committee is concerned with obtaining, developing, and disseminating information concerning the recognition, evaluation and control of environments which may affect the well-being of people. The Scope is intended to include the fields of Industrial Hygiene, Air Pollution, Health Physics, Waste Disposal and other related activities.

Ms 354
Communications
Section

DUTIES AND RESPONSIBILITIES

1. To obtain and compile available information on environmental health.
2. Develop information for publication in the National Safety Council publications and other safety and health media.
3. Upon request, furnish information concerning environmental health.
4. Anticipate as far as possible, changes in environmental conditions which affect health.
5. Maintain active liaison with Sectional Committees of the Industrial Conference, as well as with other groups in the Council.
6. Establish and maintain active contact with other competent organizations concerned with environmental health.

The following MOTION was made and passed.

MOTION: The Nuclear Energy Committee name be changed to "Environmental Health Hazard Committee" and that their proposed scope be considered as descriptive of their broadened activities.

- c. The Contests and Awards Committee met with their Chairman, Mr. R. Hartman, who reported that considerable time had been spent on selection of judges for the Wm. H. Cameron Award. Also considered were the entries for the "Distinguished Service to Safety" Award.
- d. The Mechanical Safeguarding Committee met with their Chairman, Mr. T. Bullard, who reported that the Committee will shortly wind up investigation on Power Cranes and Shovels.

The staff was requested to investigate the status of Federal Legislation requiring sensing devices on all cranes working in proximity to high voltage lines.

The Executive Committee had asked this Committee to consider a change in name to indicate a broader area of activity. The name suggested was "Physical Hazards Committee."

The following MOTION was made and passed.

MOTION: The name of the Mechanical Safeguarding Committee be changed to "Physical Hazards Committee" and that their scope of activities be broadened.

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4. The Research Projects Committee had met with their Chairman, Mr. S. Spencer, who reported that the National Safety Council is planning to undertake an investigation on the effectiveness of its industrial safety posters. This will be a part of the Committee's Long Range Program.

STANDING COMMITTEE - GROUP "C" - R. H. Albisser

Mr. Albisser reported that plans for the 1963 Congress Program were well under way. A sheet showing the schedule of Subject Sessions is attached. (See Attachment "A")

V. SECTIONAL ACTIVITIES - J. S. Queener

Mr. Queener reported that the four Sectional Groups met yesterday and that at this meeting each of the Group Vice Chairmen would report briefly on progress being made within the sections. However, for these Minutes, the full report as presented by the individual Sectional Chairmen would be included.

Sectional Committees Group "A" - W. R. Gilliland

A. Food and Beverage Section - L. H. Gretzer - Chairman

Mr. Gretzer reported that since the 1962 National Safety Congress, the following meetings have been held by the Executive Committee of the Section, and the Committees and Divisions within the Section.

November 2, 1962 Executive Committee, Chicago, Illinois, 39 present.

January 31, 1963 Distillers Division, Cincinnati, Ohio, 20 present.

February 19-20, 1963 Grain Handling and Processing Division, Minneapolis, Minnesota, 11 present.

March 19, 1963 Associations Committee, Frankfort, Kentucky. Held meeting of members and prospective members. Fire Safety-Dust Explosion Safety, 60 present.

April 1963, Dairy Division, New York, New York. Discussed and planned "Crusade Child Safety," 5 present.

April 15-16-17, 1963 Brewers Division, New Orleans, Louisiana. Full Agenda - all phases of brewery safety, 14 present.

May 16, 1963, Distillers Division, Lawrenceburg, Indiana, 25 present.

In the area of Technical Publications the Engineering Committee Chairman had submitted an article on "Dust Explosion" to the American Society of Safety Engineers for their Journal.

Members of the Grain Division reviewed and recommended "killing" the old Data Sheet on "D.D.T."

No data sheets are developed far enough for presentation, but the U. S. Brewers Association Safety Committee and the American Bottlers of Carbonated Beverages have reviewed a preliminary draft of a Data Sheet on "Carbonated Beverage Bottling."

The Contests and Awards Committee within the Section has been very active in stirring up interest in the Food and Beverage Section. Over 1,000 units are entered in the National Safety Council Safety Contest.

The Section's 1963 Congress Program is complete except for one speaker. Final touches will be made at the Executive Committee meeting in Minneapolis on May 23-24. Surveys of members, determined subjects deemed most interesting and informative to those attending Section meetings.

There have been to date, seven new members with seven cancellations--total membership of the Section stands at 324 members.

The Off-The-Job Safety Committee, with Mr. Cantrell, as Chairman, made a very comprehensive survey of all members of the Food and Beverage Section. This survey indicates that of 51 companies, 41 members replied:

33 have full or partial Off-The-Job safety programs.

4 maintain comparison cost records.

3 report records to the National Safety Council.

This survey will be published in the Section's Newsletter.

All Section members have been advised of Off-The-Job activity among member companies and urged to report to the National Safety Council.

The Ralston Purina "Dust Explosion" film has been made available to all Sectional members and has had a wide circulation to date.

Plans and photographs of the dust explosion model elevator have been sent to all members of the Section.

New posters developed by the Dairy Division and the National Dairy Products Corporation have been made available to members of the Section.

The Brewers Division has cooperated with the U. S. Brewers Association which has contracted for 2,000 sets of 12 posters planned by the U. S. Brewers Association Safety Committee.

Six hundred association members have been circularized advising of the objectives of the Association Committee and informing them of the safety promotional material available from the Council.

B. Metals Section - J. G. Cullen - Chairman

Mr. Cullen had presented the following report. The Section had held the following Executive Committee meetings:

October 31, 1962, at the Hilton, Chicago, with 51 members present.

December 6, 1962, Council Headquarters, Chicago, 33 members present.

March 21, 1963, Pittsburgh Hilton, Pittsburgh, 46 members present.

It is expected to have the Congress Program all ready to meet the June 15 deadline - copies of the complete program will be included in the September issue of the Section's Newsletter.

The Training and Education Committee discussed the Section's emblem and a rough draft had been distributed to the group for their comments. Comments were to be submitted by May 1, 1963. Approval is expected at the next meeting of the Section.

The 35mm slide training program, "Safe Operation of Floor Operated Cranes" will be submitted to the Council for their review. A Training Course on the Fundamentals of Safety was conducted in Pittsburgh on May 13-17, 1963.

A survey of the Metals Section Award Luncheon was prepared and sent to the Executive Committee members on January 2, 1963. It was decided after a review of the survey comments to continue the same basic format. One exception; all winners to stand up together rather than separately to be recognized.

The Membership Committee reported that total membership as of January 31, 1963 was, 673 members with a total dues of \$99,517.

Membership projects include a mass mailing - the entire non-member list of the Council will receive the special commemorative issue of the NATIONAL SAFETY NEWS, which includes a solicitation for membership.

C. Meat Packing, Tanning and Leather Products Section - J. Mohay - Chairman

Mr. Mohay's report indicated that the Meat Packing Section had held three meetings since the Annual Congress. All of these meetings were very well attended. The October 1963 meeting attendance was 29, the December meeting 26, and in Washington, D. C., on April 17-18-19, 1963 there were 27 members present. The fourth meeting of the year is scheduled for July 11-12-13 in Columbus, Georgia.

The Section's Engineering Committee is presently working on three Data Sheets of Humane Slaughtering Equipment which it is hoped to have ready in preliminary form for the 1963 October Congress.

The Sectional Handbook has been completed and approved by the Executive Committee. Distribution of the Handbook will be made very shortly to all Committee members.

The Committee has completed the Meat Packing Safety Manual and preliminary editing has been completed. Technical editing and the keying-in of photos and drawings are all that remain before publication.

Regarding the Congress Program this is now completed. All speakers have been contacted and approximately one-half have replied in the affirmative. It is expected to have all program planning finalized within the next three weeks.

The Section's Membership Committee has been approaching non-members on an individual basis with some degree of success. An over-all membership campaign has not been attempted as yet.

A special mailing effort will be made by the Executive Committee to get more members of the Section to participate in the Awards Program. Invitations and letters will be sent to all members requesting them to participate.

The Visual-Aids Committee has made tentative plans to review the Section's slide film "Packing Your Future With Safety" at the July Executive Committee meeting, with respect to the necessity for revision. Committee members have been requested to submit ideas for new Sectional Posters.

D. Printing and Publishing Section - J. Stroube - Chairman

The Chairman reported that the Section holds two two-day Executive Committee meetings during the year. The first one had been held on January 24-25, 1963 in Dayton, Ohio with 11 members in attendance. The second meeting was scheduled for May 23-24, in Greencastle, Indiana and 15 members had indicated attendance.

In the area of Technical Publications, articles relative to safety had been submitted by Section members and were published in several trade journals and printing industry magazines.

Special Sectional Industry Handbooks to cover hazards in the graphic arts field are now in process of survey to determine needs.

The Graphic Arts Manual is being studied for revision.

The 1963 Congress Program is 85 per cent complete and the deadline date will be met.

The Membership Committee made a special survey of printers and Publishers, in which all Executive Committee members participated. The first stage of this survey for membership covered a four-state area of printing companies which meant a total of 3,000 contacts to be made.

There are two posters specific to printing industry needs, one completed and one in the planning stages. Arrangements are now in the planning stages for the Section to sponsor a safety training film with the Printing Industry of America.

The Section has official liaison with Printing Industry Associations through its Associations Committee Chairman, the General Manager of the Printing Industry of America.

E. Pulp and Paper Section - R. J. Gell - Chairman

The Section had held an Executive Committee meeting on October 29, 1962 with 51 members present and a two-day meeting on March 28-29, 1963 in St. Louis with 36 members attending.

The Technical Publications Committee reports that the status of the Data Sheet projects is as follows:

Chlorine Dioxide...this project is complete and was published in the December issue of the NATIONAL SAFETY NEWS.

Pulpers...this Data Sheet project was approved by the Technical Publications Committee. Printed galley proofs have been reviewed. This is to be in stock within the next month.

Asphalt Roofing Manufacturing...the third draft was completed in preparation for ballot review, many questions arose, therefore, the draft was sent back to the Roofing Committee to resolve the questions.

Paper Machines...second draft of revision completed and now ready for editing.

Handling and Storage of Paper Rolls...Specialties Committee met to finalize initial draft of Data Sheet and new writing assignments were made.

Printing in Bag Manufacturing...initial draft turned over to the staff representative. After further review it will be returned to the Bag Committee for further work.

The 1963 October Congress Program is nearly complete, the program for Monday, Tuesday, Wednesday Luncheon and Wednesday is complete. The Thursday tentative session was not approved by the Executive Committee. The revised session is complete, but speakers are not confirmed.

Each cancelled member has been contacted by a Regional Representative. Annual follow-ups on these continue. Since November 1, 1962 through to May 1, 1963 the Section gained five new members but eight were lost due to cancellations.

The Chairman of the Off-The-Job Safety Committee has authored several articles for the Section's Newsletter. The Committee is planning a campaign to obtain increased off-the-job safety reporting to the Council.

The 1963 contests rules were revised increasing the size group from three to four under Boxes and Cartons of Division II. The Arthur Hoyt Scott Award Rules and judging criteria were completely revised in an effort to gain more participants. Letters to eligible contestants were sent in April, and it is anticipated that an increased number of participants will result.

For the purpose of better liaison with associations, the staff representative of the Section has been appointed as an ex-officio member of the Safety Committee of the American Paper and Pulp Association. The Section is lending assistance to the National Fibre Can and Tube Association in developing safety activity for that Association's members.

Two special surveys were conducted on special industry problems: (1) regarding 100 per cent eye protection by company or by department and (2) devices used to keep maintenance men cool while working on paper machines in temperatures of 140° - 160°F.

F. Trades and Services Section - E. Kryszak - Chairman

Members of the Section's Executive Committee met in Chicago in connection with the January Industrial Conference and some 12 members met in New York on May 7. Eastern Region members also attended the January 30 and March 14 meetings of the Safety Retailers Organization in New Jersey.

The Data Sheet "Kitchen Machines" is out on ballot draft until June 3. The Data Sheet "Roller Conveyors" appeared in the May issue of the NATIONAL SAFETY NEWS. The Data Sheet "Kitchen Equipment Pressurized and Heated" in rough draft form is being reworked by a member of the Eastern Division.

Mimeographed releases on "Winter Hazards" - "Warehouse Inspections" - "Food Service Lifting" all publicized in the newsletter have been distributed to many members and non-members.

There has been no Congress Program scheduled for 1963 because of the inability of key people to plan and to attend. However, a survey was conducted to determine the subjects of greatest interest and a tentative program was developed before cancellation. Emphasis will be continued on regional meetings and more emphasis will be placed on selling top management through association conventions.

No special membership campaigns have been conducted. Some effort has been made to secure affiliation of large hotel chains, multi-unit department stores. The National Food Store chain has enrolled three of its divisions.

Regarding visual-aids, a special flyer illustrating 28 posters of special interest to hotels, restaurants and stores was sent to members and resulted in the distribution of the posters to several important non-members.

A set of restaurant slides, developed by the Vice Chairman of the Section, has been sent out continuously on a loan basis. The Pennsylvania Restaurant Association, the Commonwealth of Virginia and other important groups have used these slides in extensive training programs.

The Eastern Region has agreed on subjects to be covered in a set of slides for restaurants and another set of slides for department stores. Plans for taking the actual photos have been made.

On May 14, the Section made a mailing to members and prominent non-members soliciting materials used in company off-the-job safety programs. The Off-The-Job Chairman has submitted material for the newsletter.

The Section has petitioned the American Standards Association to initiate a safety code for the reporting of customer or guest injuries. A sub-committee is working on definitions of exposure following a survey made of the Executive Committee to determine its desires.

A "mercantile and warehousing" accident report form was mailed with the May issue of the Sectional Newsletter to obtain information on both work injuries and customer or public injuries. Only a few replies have come in to date.

The Section relies on association work and many associations are represented on the Executive Committee. Listed below are some examples of activity:

- National Restaurant Association Convention, May 23, features a live and visual presentation of food service hazards.

The National Retail Merchants Association distributed copies of the Mercantile and Warehousing Report Form via its Spring bulletin.

The Chicago Retail Merchants Association has been asked to co-sponsor local meetings.

The Section's Vice Chairman has set up a Safety Committee of the Missouri Restaurant Association and is serving as its first Chairman.

G. Wood Products Section - T. E. North - Chairman

The Section's Executive Committee had held three meetings since the October Industrial Conference.

October 30, Chicago, Illinois, 24 members in attendance.

January 24, Council Headquarters, 11 members in attendance.

April 24, Longview, Washington, 22 members in attendance (this last one was held in conjunction with the Forest Products Safety Conference).

The following Data Sheet projects are under way:

Veneer Clippers...the final draft was prepared and has been approved to date by eight members of the Technical Publications Committee.

Sawmill Edgers...the ballot review draft is complete, and will be mailed to reviewers within the next 30 days.

Buoyancy Equipment...ballot review draft is complete. Collation of comments for final draft is in process. The title of the Data Sheet is subject to change to avoid conflict with buoyancy equipment criteria established by the U. S. Coast Guard.

Tilting Arbor Table Saws...the initial draft was returned to the authors for further work. The second draft is under way and will be completed within the next 30 days.

Hogs...the outline has been completed and approved by the Sawmilling Committee.

Hot Presses...this is a new proposed Data Sheet that would be useful to plywood manufacturers. Accident data on hot presses is being collected by the Veneer and Plywood Committee to determine scope of problem areas.

A three-day Congress Program has been developed by the Section's Program Chairman and approved by the Executive Committee. All speakers have confirmed, the survey conducted in 1962 reflected the content of the 1963 program.

The Secretary of the Wood Products Section contacted each cancelled member. The Secretary-Membership Chairman contacted:

1. Southern Pine Association.
2. Timber Operator's Council.

3. West Coast Lumberman's Association.

4. Douglas Fir Plywood Association.

for lists of their members to create a prospective membership list. From these lists a list of 462 prospects was created. Since some are not good prospects the list will be reviewed to determine the best prospects. From November 1, 1962 through April 1, 1963 the Section gained six new members and lost four through cancellations.

The Section's Furniture and Millwork Committee has agreed to undertake a safety slide series on tilting arbor table saws.

The newsletter continues to promote off-the-job safety via articles submitted by the Section's Off-The-Job Safety Committee.

All members who have joined the Council in 1962 and through March 1963, were urged to participate in the Section's Contest. Each was sent a letter, the 1963 Contest Rules, an entry blank, and the final 1962 contest bulletin.

Four associations were contacted regarding prospective National Safety Council members, and a 100 per cent cooperation has been received. A new member of the Section's Executive Committee is the Safety Director of the Timber Operator's Council which represents both large and small operators in logging and sawmills. Special assistance was given to this Council.

The Section's 11 goals were reviewed at the second and third meetings and the Executive Committee is proceeding on schedule.

A resolution regarding the American Standard Z16.1 was presented to the January Industrial Conference meeting. The Executive Committee decided that the Wood Products Industry should be represented on the ASA Z16.1 Sectional Committee and they are in the process of securing such representation. The Council's "Rate of Performance" charts were discussed and explained at the January and April meetings.

Sectional Committees Group "B" - M. Biancardi

A. Aerospace Section - J. D. Donofus, Chairman

The Section held its Spring meeting in Cincinnati, Ohio, on May 10. It was attended by 10 members and three guests.

The Section's Technical Publications Committee reports that they have sent out the Data Sheet on "Beryllium" for ballot review. The proposed Data Sheet "Work in Confined Spaces" has been reassigned to another member of the Executive Committee.

A three-day Congress Program is planned for Monday, Wednesday and Thursday afternoons and all details for the program will be finalized by the deadline date.

The Section's Off-The-Job Chairman initiated a survey in this area but did not receive good response. It was found at one of the Executive Committee meetings that the reason that some members did not reply is that they did not feel they were accomplishing very much in this field. After a discussion about some of the off-the-job activities that it is possible to do, members agreed that they had been doing some of these things - therefore, the Off-The-Job Chairman is hoping that more members will give him full details of their programs.

The Section has completed its slate of officers for 1963-1964.

B. Air Transport Section - H. Warzyn, Chairman

The Section held its Spring meeting in Washington, D. C., on April 24-25 with 14 members attending and eight guests. With the increasing and planned work load, the Section plans to have its Congress meetings in two parts, starting Sunday, October 27, and continuing on Monday morning.

Regarding Technical Publications revision of Data Sheets D-230 and D-327 are now out for review - Committee members are instructed to return comments before May 15, and the staff is to proceed with processing after that date.

Test data is still being accumulated on the effect of jet blast on glass, structures, signs, etc. The project is not yet ready for publication draft.

The "Line Check" feature of each month's newsletter is continuing on an assigned basis, and is contributing worthwhile material to the Section's Safety literature.

A one-session program is being planned for the 1963 Congress. Due, in part, to the unusual manual material handling requirements necessitated by aircraft cargo configurations, back injuries will be the theme. An attempt will be made to obtain a physician to speak on the subject, and a session on the ramifications of back injury charges under Z16.1 is contemplated.

In this Golden Anniversary Year of the safety movement - and the 35th year of Section organization - the major emphasis on gaining new members will be through "Service to Airlines and Airports" rather than on membership campaigns per se. We are trying to "build a better mousetrap."

The 2x2 slide film set on "Ramp Safety" is presently being processed for completion.

Section members will survey the visual aids available among them, catalog existing items, and make them available to each other and to prospective members on an exchange basis.

Efforts are still being made to develop suitable property damage posters. It is believed that this would be in line with National Safety Council Objectives because the same elements of acts and omission which cause property damage also cause personal injury.

The importance of off-the-job injuries is recognized but the subject has not been assigned a priority activity due to other pressing on-job needs in the Section.

The Section's efforts to establish a working relationship with the National Safety Council's General Aviation Safety Committee has met with little success, primarily due to the difficulties encountered by the General Aviation Safety Committee in obtaining the staff and the financial assistance which it believes it needs to properly function.

Both the U. S. Air Force and the U. S. Navy representatives will continue to cooperate closely with the Section. Initial steps have been taken to explore avenues of cooperation with the Association of Local Service Transport Carriers.

The Section's Long-Range Planning Chairman has been authorized to extend a Section offer of cooperation to the Business Fleet Operators.

In the area of additional activity within the Section, concentrated effort is being made to up date the 1961 Long Range recommendations. Emphasis is being placed on a project to identify industry injury problem areas to serve as a basis for further project priority assignment.

Certain of the Sectional officers have been designated for a two-year tenure so as to provide better continuity in project development. Members are being informed of manufacturer recommendations in connection with a Michel-Cadmus battery explosion problem which had been experienced but which has now been corrected.

C. Automotive and Machine Shop Section - J. W. Lake, Chairman

The Section has held two meetings during 1963:

February 6-7-8, 1963, in Lansing, Michigan with 70 per cent of the members attending.

May 1-2 and 3, 1963, Olean, New York, with 58 per cent of the members attending.

In Technical Publications the Data Sheet "Checking Performance of Local Exhaust Systems" (revision) has been accepted by the Council. Work is proceeding on Data Sheets --

Airless Spray Painting
Automatic Material Handling
Heat Treating
Wire Brush

Metal Planners
Engine Lathes
Horizontal Boring Mills
Drill Presses

and work is in process on the Section's "Health Maintenance" Manual.

The Congress Program for 1963 has been submitted and approved. A survey of those attending the Section's 1962 Congress Program was made and individuals were requested to give their position, job classification, percentage of time spent on safety, etc. ...the results of this survey proved of interest and help in preparing the 1963 October Program.

The Membership Committee has been busy during the year - statistics on new members and cancellations, number of prospective members indicates a most active Committee. Figures show cancellation reports since the 1962 Congress was twenty-nine, the Council recommended that no follow-up be initiated with seventeen of the twenty-nine. The Membership Chairman wrote to the others regarding the cancellation.

For the period of January through March of 1963 we acquired ten (10) new members for a total dues value of \$515.00 and fifteen (15) cancellations for a total dues value of \$766.00. This means that for the period of July, 1962 through March of 1963 the A.T.M. Section had a net loss of five (5) members but a total increase in dues of \$18.00. The Section figures now stand at 646 members, with a total dues value of \$136,226.00.

With regard to visual aids the previous flannel board presentation on traffic, home, recreation and fire safety are being considered for slide film presentations. A slide film presentation on office safety submitted to the full Committee by the Education and Training Committee has a great deal of potential and with a few minor changes should be ready for Council presentation.

At a future date the analysis of a questionnaire mailed to the Section's membership with the newsletter, covering off-the-job safety programs, will be presented.

D. Electrical Equipment Section - G. R. Smith, Chairman

This report is merely a progress report on accomplishments since January - since the next Sectional meeting is not scheduled until June.

The January meeting was held in Waksfield, Massachusetts, with eighteen members in attendance.

Data Sheets on "Static Electricity" and "Maintenance of Explosion Proof and Dust Proof Motors" are being prepared for letter bullet by the Council's Editorial Department. An outline for a data sheet on hazards of household outdoor electric equipment was sent to the National Safety Council, the material was discussed by the Section's staff representative and with the manager of the Council's Home

Department. Our Research and Engineering Committee will write up this material for use in issues of FAMILY SAFETY magazines, home safety kits and similar available outlets.

The Data Sheet on "Extension Cords" is being submitted to the Council for approval. The lead article in the April issue of the Electrical Equipment Newsletter on electric plug cap and connection configuration was supplied by one of our Executive Committee members.

The Data Sheet "Hot Work Permits" was published late last year and a suggestion is made that the lead article in the May 1963 issue of the newsletter, "A Lock-out, Tag-out Procedure" be used for a safe practices pamphlet.

A member submitted a solution to the problem of pressure build up in mercury batteries and this information is being passed along to interested manufacturers.

Committee members are accumulating safety background information on the use of lasers, masers and irasers for possible future data sheets.

The Section's membership as of January, stands at 151. The Congress Program is now awaiting final approval of the June meeting.

E. Power Press and Forging Section - G. R. Orth, Chairman

The Section held its last meeting in Columbus, Ohio, in March and in conjunction with this meeting a plant tour of the Western Electric Company's plant was arranged.

In Technical Publications it is reported that the:

"Forging Manual" - The objective of completing the Manual with a submission of all Chapters to the Council by March 1, was completed.

"Handling of Finished Pieces at Punch Presses" - This Data Sheet is a revision and was reviewed before at the time of the March meeting. It was completed and sent to the National Safety Council for further processing - which completes another objective scheduled for April 1.

"Scrap Handling at Punch Presses" (revision) - This Data Sheet has been assigned to one member of a subcommittee who made comments at the March meeting. It is planned to furnish these comments to other members of the subcommittee for further finalizing at the May meeting and it is expected that this will be completed for the October deadline objective.

"Removing Stuck Forgings from Hammer Dies" - This is a new Data Sheet and the first draft was sent to the staff representative for reproduction and comment at the May 1963 meeting.

Revision of Data Sheet "Setting Up and Removing Power Press Dies" - Action by the subcommittee continued on this in order to meet our objective for October 1, 1963.

Preparation of "Power Press and Forging Section Handbook" - the ad hoc Committee submitted its final draft after suggested revisions at the March meeting. It was approved at the Executive Committee meeting and the March 7, final draft adopted. This is now being reproduced and distributed to all members.

It was also reported that a technical article by the Section's Vice Chairman appeared in a recent issue of the ABSE Journal.

Regarding the Congress Program, in keeping with the decision made at the December 1962 meeting, only two sessions will be presented at the Congress. The Program Chairman has arranged for a Tuesday afternoon session which will include a talk by S. K. Rudolf on "Tooling for Safe Press Operations," on Wednesday afternoon a brief version of the "Cheaper Than You Think" program will be combined with a speaker on auxiliary press room operations.

At the end of 1962, the Section had 183 members of which eleven had joined during the year. There were twelve cancellations during the same period, however, there was a net gain of \$451.00 in dues receipts.

Possibilities of working with various trade associations will continue to be explored in an effort to obtain new members.

There have been several poster ideas sent in to the Council and two additional ideas will be submitted before June 1, 1963. Leaders and instructors guide "Power Press Operations" will be completed on May 1, 1963 and sent to the National Safety Council. Development of a slide film is presently being considered.

A compilation of off-the-job materials, programs, etc., is being assembled to distribute to members.

Within the scope of associations, a review of the 1962 Congress session attendance was made and discussed at the meeting. This also brought up the desirable aspects of working with trade associations - statistics showed that 78 per cent of those in attendance were directly engaged in industrial safety work, full or part time. The remaining 22 per cent were government employees, line supervisors and others. Forty-six per cent of the attendees have attended no more than three Congress Expositions in previous years -- while twenty-six per cent had never attended a previous program. In addition to using the information for planning future Congress Programs, the attendance records were also reviewed for attendance by representatives from small job shops. Apparently there were no representatives at the 1962 Sessions indicating

advisability of closer collaborative work with trade associations to reach the small job shop people.

Sectional Committees Group "C" - V. Womeldorff

A. Coal Mining Section - M. J. Ankeny, Chairman

The report covers activities of the Coal Mining Section, that have transpired since the previous report was submitted for presentation to the Conference meeting held on January 22-23. Since that time the Section's Executive Committee has met twice, on March 19 and 20. One of these meetings was devoted exclusively to discussion of a draft of a proposed Handbook to govern operations and activities of the Section - the draft had been prepared by the staff representative and after some areas of discussion, regarding the text, the staff representative was to prepare a revised draft which will then be distributed before the October meeting, at which time final disposition of the document will be voted by the Executive Committee.

The Chairman of the Section's Engineering Committee reported that although no formal meetings had been held since October 1962, the Engineering Committee group was working on the completion of a Data Sheet covering "Fire Resistant Hydraulic Fluids for Use in Underground Mining Machines" and that it was expected to have this ready for distribution shortly. Various members of the Executive Committee related their experiences with fire resistant hydraulic fluids, much of which was quite favorable, and although all problems involved in the use of such fluids had not been solved, the Engineering Committee does envisage successful solutions.

The Chairman of the Program Committee announced that three interesting papers were presented at the March 20 meeting - the Session was held in conjunction with the Western Pennsylvania Safety Conference and the program proved to be well balanced.

The Chairman of the Poster and Visual-Aids Committee announced that this group would have three new posters ready for approval at the October 1963 meeting - a request had been made of the Executive Committee members to turn in any ideas for new mine safety posters.

The Chairman of the Membership Committee had reported that letters soliciting membership had been sent to most of the large coal-mine operators in the U. S. It was noted that only eighteen of the 70 largest coal mining companies were affiliated with the Council and that the Section's Membership Committee was making a special effort to "line up" membership from the unaffiliated segment of this group.

The Roof Central Committee had referred to the educational work being done on roof bolting techniques by the West Virginia University and had also described current roof-control activities of the Bureau of Mines and the progress in Standardization of certain aspects of roof bolt installations.

The Publicity Committee Chairman reported that this Committee had been especially successful in obtaining publicity of safety activities of the Section in "internal" publications of various coal associations and the United Mine Workers Journal. The renewed interest of the American Mining Congress in the Coal Mining Section was especially referred to.

In the area of Off-The-Job Safety, conflicting opinions on the effectiveness of off-the-job safety publicity were offered in discussion of the subject by Committee members. Apparently, the amount of publicity depends upon the quality of the material submitted and the receptiveness of the editors of papers in strictly local situations.

B. Construction Section - R. Wendell, Chairman

The Section's Executive Committee met on February 27-28, 1963 with forty-three members in attendance - the next meeting will be held on July 24-25, 1963 in San Francisco.

The Section's special Task Force Committee has met with the staff representative and other Council officials several times. These special meetings afford the Construction Section the opportunity to keep abreast of projects submitted to the Council.

Some four Data Sheets have been completed and await publication.

"Pre-stressed Concrete Yard Operations"
"Construction Job Heating Methods"
"Portland Cement Concrete Paving"
"Construction Diving"

The Section has also begun revision of the Data Sheet concerning "Manila Rope Safety Nets" to include "Synthetic Fiber Safety Nets."

Technical releases have been submitted to the Council and other trade publications. These are:

Removal of Equipment Guards
Propane Salamanders for Temporary Heating
Transit-Mix Trucks
Preventing Accidents on Scaffolds
Falls in Elevator Shafts

The Construction Section is awaiting the publication by the Council of a new "Talk Topics" - this publication is similar to the previous book of five-minute safety talks produced by the Section.

Regarding the Congress Program, an analysis was made by the Program Committee Chairman, of the new attendance survey cards which were distributed to those attending the sessions. Comments and suggestions obtained from the survey cards were considered when planning the program for the 1963 Congress.

The Program for the Construction's 1963 Congress is complete and another interesting program of highly qualified speakers representing the construction industry is anticipated.

The Section's very active Membership Committee has sent out 163 letters to individual contractors and made a total of 139 personal calls in an effort to improve membership. The Committee has designed a new membership application circular and a mailing of 6,000 of these applications is scheduled to individual contractors.

D. Marine Section - Capt. Mackey, Chairman

The Section's Executive Committee met in New York on March 21, with an attendance of twenty-one members and guests. A Spring meeting was also held in conjunction with the Greater New York Safety Convention on April 3-4. Sessions were held on Stevedoring, Shipbuilding and Repair, Vessel Operation. There have been various monthly meetings of four discussion groups sponsored by the Section, in New York, one in Cleveland, and one in Washington.

The Congress Program sessions are planned for 1963 - such subjects as Inland Waterways, Shipbuildings and Repair, Stevedoring, Vessel Operation, Annual Business Meeting, Coast Guard Session, and a joint luncheon with the Propeller Club of the Port of Chicago, will comprise this program.

The Section activities in the area of visual-aids is preparing a directory of films suitable for maritime use. Plans are under way to assist the U. S. Coast Guard in the production of a film on safety and vessel operation.

The Poster Committee is working on preparation of subjects to be submitted to the Council.

Regarding off-the-job safety, during the Marine Section's Executive Committee meeting it was recommended that the Section appoint an Off-The-Job Safety Committee and engage in promotion of increased effort in this area.

Final results of the 1962 Marine Section Safety Contests have been announced. At the luncheon the Barge and Towing Vessel Industry Safety Contest Awards will be presented, this will be jointly sponsored by the American Waterways Operators.

Membership in the Marine Section as of April 30, 1963 totals 144 (dues total \$15,084).

The American Waterways Operators has appointed a new Safety and Health Committee Chairman, to whom the staff has furnished a quantity of information to assist in stepping up their safety program, including the steps taken to expand participation in the jointly sponsored Barge and Towing Vessel Industry Safety Contest.

Associations actively cooperating in the Marine Section's work are-- American Merchant Marine Institute, New York Shipping Association, Pacific Maritime Association and the Lake Carriers Association.

Mutual cooperation continues between the Section and the U. S. Coast Guard, Navy and other governmental agencies.

A study on safety in connection with the world's first nuclear merchant ship, the N. S. Savannah, appeared in the May issue of the NATIONAL SAFETY NEWS.

Two representatives of the marine shipping industry are on the ASA Z16 Committee and will present the views of industry in connection with the forthcoming revision of the Z16.1 Standard. It has been suggested that a Stevedoring representative also be appointed.

The National Safety Council accepted sponsorship of the ASA project, MH9, "Longshoring Safety on the Docks." Mr. Buxton of the New York Shipping Association, has been appointed Chairman of the Committee and Mr. Needham of the New York Office, Bureau of Labor Standards, is Secretary - the Committee had an organization meeting in New York on March 22.

Public Employee Section - J. Gleason, Chairman

The primary efforts of the Section have been directed toward reorganization and establishment of by-laws to guide the Section's activities. This need is especially great in our Section because membership includes all levels of government, federal, state and local. Interests range from park and forestry safety, to utilities and public works, to fire fighting and law enforcement. A special Business Committee was formed to bring these interests together and to create subsections for large special interest groups. A complete set of by-laws has been drafted - preliminary reviews have resulted in some modifications, the text is now ready for approval of members.

Although no formal meetings have been held - members have met at safety conferences in various parts of the country.

The Section's Engineering Committee appealed to members, through newsletters, to assemble information for data sheets. The article resulted in suggestions for subjects and content of data sheets. Rough drafts have been prepared on sewer cleaning, refuse collection and disposal, and traffic interference control - the drafts are now to be submitted to the National Safety Council.

The Sectional Handbook of By-laws will be the most significant publication for this group during the year.

A pamphlet for "Flagmen" was developed by the State of Ohio Department of Roads. This pamphlet is being made available to members. A booklet on Traffic Interference Control was developed by the City of Fresno, due to the cost of publication, a charge of \$1.00 per copy is made.

Ohio 3622a
ASA Code 3622a
is incorporated
in the report
submitted by NISC.
See 64-3389
ASA Fact #49
E. Longshoring Safety on the Dock

Regarding the Congress Program for October 1963, questionnaires were handed to members in October 1962, seeking information from them regarding their suggestions for future programs. The most common suggestion was to avoid generalities and "get down to specifics" - an attempt has been made to achieve this by having some separate meetings for the roads and highways people and for the city people.

Special efforts have been made toward encouraging membership of several counties, and labor unions representing governmental employees. Three counties from the Southeastern part of the country included membership in their budgets as a result of an appeal at a Regional Safety Conference. One labor union has joined and another has put the suggestion to its membership.

Speakers at this 1963 Congress have been requested to develop slide presentations to accompany their talks. The slides and the narratives will be made available to members for use in their own agencies. It is planned to encourage this in the future and develop wider use of audio-visual aids for the benefit of the members.

Articles on off-the-job safety have been highlighted in the Public Employee Section Newsletter, however, no formal reporting or exchange of off-the-job information has been developed.

F. Public Utilities Section - E. Dunbar, Chairman

The meetings for the Section's Executive Committee have been scheduled as follows:

January 8-9 - Jacksonville, Florida
June 18-19 - Lexington, Kentucky
June 20-21 - Lexington, Kentucky (two-day course)

The Advisory Committee within the Section met on October 30, 1962 and again on January 8, 1963 to study the goals for 1962-1963 and to screen projects which were placed on the Agenda for the January 8, Executive Committee meeting. A similar meeting has been called for June 17, in Lexington, Kentucky.

The following Data Sheets are presently in process:

"Aerial Baskets and Buckets," a coordinated project in the E.U.I. Accident Prevention Committee and should soon be completed.

"Earth Boring and Pushing Tools" an outline of this subject has been prepared and submitted to the staff for ballot review.

"First Aid Kits," this is in process of completion and is awaiting new illustrations.

"Pole Top Resuscitation," this has been reviewed and is awaiting new illustrations.

"High Voltage Insulator Washing" is now assigned and in progress.

"Boring and Auguring Tools" for gas utilities; "Safety on Joint Use Poles" for communications and electric utilities; and "Safe Practices in Water Treatment Plants" have been approved for research and development.

"Portable Tools Aloft" this may be broken down into several Data Sheets, principally because of the increased use of aerial baskets.

"Safe Switching Practices" has been referred to the Council with illustrations, and will shortly be finalized.

"Protective Grounding Practices on Electric Lines" is proposed and will probably be developed as one or more Data Sheets or Safe Practices Pamphlets.

The 1963 Congress Program - firm commitments have been made to allow the Utilitier program to spread over three days so as to enable combination companies and other utility company Section members to attend more subjects without conflict.

"Safety in A tion" was adopted as a theme for the program and speakers and participants are urged to provide copies of their subject for "take home" purposes. There is also a special program being planned on off-the-job safety and home fires. The "new ideas" session will once again be presented after official adjournment of the meeting to enable members and manufacturers to present new ideas, visual aids and so forth, which have been approved by the Program Committee.

A new series of twelve posters on "Stop Shock" for electrical utilities has been completed - twelve more will be in progress with a completion date of June.

"Crane Contact" slides have been duplicated by the Council and are available. Other slide series on the following subjects are also in progress.

1. Aerial Baskets.
2. Damage Prevention to Underground Facilities.

New films are being prepared on "Pole Top Rescue Breathing" and "Pulse of Life."

The subject of off-the-job safety has been promoted in the newsletter to all utilities. Also the subcommittee in charge of this subject is promoting vigorous campaigns for member companies to

initiate statistical records which will enable them to judge how these accidents are affecting "on-the-job" costs. An energetic seat belt program is in progress.

A MOTION had been approved for using a basic figure of 165 per month, per employee, where productive manhours are not available for calculating frequency. This MOTION was made for use of only those companies who do not have accurate hours to report.

The Section's Second Vice Chairman, in cooperating with the Contest and Awards Committee, has been active in promoting the Wm. H. Cameron Award Contest and participation in the Public Utilities Employee Safety Contest.

In the membership area, emphasis is being placed on the "good neighbor" policy of establishing continuous contact with member companies to see that they are satisfied with their memberships - there was an increase of forty-one members during 1962. Cancellations were noted so that all Committee members might use follow-up opportunities to bring these companies back into the Council - the Section's goal for 1963 is 1,000 members.

An excellent job of publicizing Committee and Section activities has been done and the Publicity Committee has urged that all members submit individual papers, specifications, etc., for possible inclusion in the newsletter. Referring to the newsletter it was noted by the Chairman that the Newsletter Editor has done an excellent job of publishing new ideas and of assigning subjects on general safety to Committee members with set deadlines.

The five-day course on Fundamentals of Safety for Public Utilities met with great success and attendance numbered 37 members. Even higher attendance is anticipated for the two-day course to be held in Lexington, Kentucky on June 20-21. The Training Committee is also adopting the excellent American Gas Association "Through Track to Operating Efficiency" training course so that it may be used by each of our electric, gas, water and communications divisions.

The Nominations and By-Laws Subcommittees have reported by means of evaluation sheets and these reports are now being processed for proper presentation of members on committees and have served to provide a much better picture of candidates to the Nominating Committee for member assignments next year. A research of all members' past activities has also been made as an aid to the Section's Nominating Committee Revision of the By-Laws of the Section, under consideration by the Nominating Committee.

G. Railroad Section - D. P. Russell, Chairman

On November 1, 1963 meetings of the Executive and Working Committees were held in Chicago with an attendance of 75; on January 1, 1963 a similar type of meeting was held with an attendance of 35; and on April 23, 1963, a meeting of a special Steering Committee to consider the Congress Program and similar matters was held in Chicago with seven members present.

The Railroad Section Publications Committee is working on a Data Sheet dealing with "Handling of Liquid Fuelled Heaters in Refrigerator Cars." By October 1963, the Training Committee of the Section will submit a draft of a railroad supervisory training manual.

With regard to the Congress Program, a questionnaire was sent to the Section's membership and the Program for next October has been completed. One particularly interesting feature will be the talks given by two operating officers, each of whom have more than five years experience as safety men, on the subject of "As I See It Now" in which they have requested to detail what changes, if any, have taken place in their thinking on how safety should be approached and handled.

Continued attention will be given to the safe operation of highway vehicles by railway as well as the highway crossing problem.

Every effort is being made to improve membership. However, with 95 per cent coverage of the major roads (which means many smaller roads are also covered) the pickings tend to be lean. Action is being taken to prepare a brochure which will deal specifically with the services and materials which become available to the railroad through membership in the Railroad Section of the National Safety Council.

A flyer listing posters that deal with specific railroad subjects will be forwarded to the membership during the second half of the year. In addition the practice of covering at least one poster in each issue of the Sectional Newsletter has been continued.

A new poster will be issued within the next month and a second is in process on completion; both deal specifically with railroad subjects - plus two new posters on the "Signs of Life" have been developed and issued.

The Railroad Section's Film and Sound Committee is presently working on a list of safety films of direct interest and application in the Railroad field. In conjunction with the Association of American Railroad Safety Section, steps are being taken towards the production of a film to be used by the railways in their anti-trespassing campaign in the schools. Slides previously prepared by various railroads are being collected and reviewed to facilitate preparation of a series of subjects on railroad matters.

In the area of Off-The-Job Safety, arrangements are being made to have the members of the Section circularized again so that a synopsis can be prepared of the various activities and materials that they have developed in connection with off-the-job safety activities. A great deal of the work carried on in this field is covered under the Public Safety Activities Award Plan and the Signs of Life Program. Indications are that the number of Railroads receiving the Public Safety Awards should be as good as last year.

Coordinated effort is being made to increase interest by member roads in the Sectional Awards Plan and this year the two major Canadian railroads have submitted applications.

Due to the fact that I.C.C. data for use in connection with Sectional Awards has not yet been received for 1962, it has not been possible to take any action so far this year. However, the subject is being followed up closely by the Council staff and will be brought to a conclusion as quickly as possible - the delay is due to the I.C.C. changing over to an I.B.M. set up.

By June 1963, the Section's Content and Statistical Committee hopes to conclude its study on a special award to recognize outstanding service in the safe handling of passenger traffic on railways.

Close cooperation exists between the Railroad Section of the Council and the Safety Section of the A.A.R. as evidenced by joint work on an anti-trespassing film; participation in their Regional meetings, and the fact that a meeting of the Railroad Section will be scheduled in conjunction with the Section's annual meeting.

The Section's Training Committee is working on an employee training program for newly hired employees in train, yard and engine work. The same Committee is preparing a questionnaire on safety training programs in the railway industry. A series of articles on supervisory and employee training have appeared in the Railroad Section's Newsletter.

Other special activities mentioned are the Section's Railroad Highway Traffic Safety Committee which has continued to be extremely active and has cooperated closely with the Traffic Conference Committee on Motor Vehicle Traffic Safety at Railroad Grade Crossings. Their objectives for 1963 are:

1. Conduct a national study and analysis of causes of grade crossing accidents during 1962 for use in educational programs with the assistance of State Police agencies.
2. Obtain recommendations from each State Police agency as to the best way to obtain educational material on safety at grade crossings, for independent operators of trucks carrying flammables and school bus drivers.
3. Complete a study of traffic laws in force at railroad grade crossings for each state; being handled by the University of Illinois.
4. Produce at least three national news releases on railroad grade crossing safety and Signs of Life.
5. Prepare articles on grade crossing safety and solicit cooperation of magazine writers for similar articles. Several of these have already been published and others are in preparation.

6. Give wide publicity in both magazines and newspapers to the new National Safety Council "Near Miss" grade crossing accident file. Administrators of pupil transportation in nineteen states have received letters and copies of "Near Miss" reports.
7. Produce "Signs of Life" and Grade Crossing Committee annual report - this was distributed nationally in May 1963.
8. Send telegrams to all states and provincial coordinators in November to encourage use of every possible medium in alerting the public that December or January have the highest number of grade crossing accidents due to lack of visibility, poorer traction, and other winter hazards. This was initiated in 1962.
9. Prepare a special leaflet on grade crossing safety and trespassing.
10. Work with the Motor Transportation Department in developing a program to alert the general public to the need for better selection and training of school bus drivers.
11. Promote the adoption of uniform state laws governing movement of highway vehicles at railroad grade crossings.

H. Mining Section Report - E. C. Leonard, Chairman

The last meeting of the Mining Section's Executive Committee was in Duluth, Minnesota on February 18. Twenty-one members attended. The Section has been invited to hold its mid-winter meeting in Duluth as guests of Pickands-Mather Mining Company.

A Data Sheet on "Jumbo Drilling" prepared by the Engineering Committee has been submitted to various members of the Industrial Conference for ballot-review. The Committee has been in process of reviewing all data sheets. At the time of the mid-winter meeting all but five of the data sheets had been reviewed and turned in with suggested revisions. This has been a sizeable undertaking and the Engineering Committee has been most active.

The Section's Congress Program has been completed for 1963 - and the Committee is now in process of gathering a list of possible subjects and speakers for the 1964 Program.

The Membership Committee has been functioning very effectively. Several letters and some personal calls were made to prospective members. The efforts have borne fruit as at least eight new members have joined since the first of the year. The Committee is also making an effort to contact any cancellations for the purpose of ascertaining the reason for their dropping out of the Council - compliments are due the Committee for their efforts.

The Visual Education Committee has been and continues to be most productive - in addition to furnishing several safety posters to the Council, they have also submitted two sets of slides, with a script on "Falls of Persons Underground." The two sets have recently been consolidated into one set and should be available for purchase by September 1.

Promotion of off-the-job safety is being directed to members of the Mining Section via a regular series of articles in the Section's Newsletter.

Once again it was suggested that the Chairman of the Associations and Publicity Committee urge participation of the Associations in the Mining Section activities.

In the field of "special projects" in April 1963, the new Section Handbook for Officers and Committees, was mailed to all Executive Committee members.

Also the results of the 1963 Falls of Ground Campaign awards and a cover letter were sent out to the winning properties on May 3, 1963.

The Hygiene and Ventilation Committee recently submitted an article on Venturi blowers for publication in the Section's Newsletter. The Committee has been assigned the task of preparing several other such articles which are now in the process of being developed.

The Chairman of the Mining Section Statistics Committee, Mr. J. Machisak, died unexpectedly on February 21. Mr. Machisak was a most active member of the Section's Executive Committee and it will be necessary to elect a new Chairman to this Committee. Attention was drawn to the fact that for the year, Mr. Robert F. Wilson will carry on with the Committee's work.

Sectional Committees Group "D" - I. P. LeGore

A. Cemem, Quarry and Mineral Aggregates Section - D. O. Seiple, Jr.,
Chairman

The Executive Committee has had three meetings during the 1963-1964 period ---

October 31, 1962 - Chicago, Illinois - 32 members attending.

January 21, 1963 - Chicago, Illinois - 19 members attending.

May 14-15, 1963 - Johnstown, Pennsylvania - 28 members attending.

The Section's Engineering Committee is now split geographically into two Sections - Eastern and Western. The Eastern Section is organized in Washington, D. C., area and the full Committee has held several meetings - they have furthered the project of the Data Sheet "Secondary Breaking of Rock in Quarries" and the first rough draft has been developed. The Western Section of the Engineering Committee is organized in the Chicago area and at their recent meeting, they --

1. Reviewed pictures assembled for the "Ammonium Nitrate" Data Sheet.
2. Reviewed material received from outside sources on "Belt Conveyors," planning to incorporate this material into a Data Sheet.
3. Reported on information on "Front End Loaders" with reference to future work for the Committee on this new assignment.

The Section's Congress Program is completed and it is believed to be an exceptionally good one.

The Section's Visual Aids Committee have plans for the utilization of 35mm slides in several new ways. A questionnaire, as well as a survey letter, has been planned for promotion of visual aids among the Sectional members. This Committee is moving ahead to help industries in the field of posters and pictures to reduce accidents - the Committee is also cooperating with the Personal Protective Equipment Committee in preparation of visual aids for the new "Lock Out" campaign.

The Off-The-Job Committee continues to cooperate with the Council's Off-The-Job Program - news articles are sent to the newsletter editor and three of these have recently been publicized in a recent issue. Plans are made to continue this Off-The-Job Safety Program, not only through the newsletter, but also through trade magazines. In order to achieve this the Committee will be working in closer cooperation with the Section's Publicity Committee.

The Contest and Awards Committee within the Section is cooperating with associations on awards and data regarding safety contests. The untimely death of the Chairman of this Committee has been a great blow to the Section's Executive Committee, however, the work was so arranged that it is progressing without the immediate need of appointing a new Chairman.

Information on the membership campaign conducted in late 1962 is still in the hands of the Membership Department at the Council. The campaign though is continuing and various contacts have been made and new members added to the group. The future project of this Membership Committee is to contact various members of the Section whose companies are known to be lukewarm toward active participation in National Safety Council work.

The Section's Association membership is still active - an article has been published in the newsletter, prepared by the Managing Director of the National Slag Association. Other articles are expected to be available for future newsletters.

The Training Committee is preparing a questionnaire which will be submitted to the entire Sectional Membership in regard to their feeling toward a formal training program. It is believed that this survey will be of great help to the Committee to later obtain data for a training program which could be presented to the Board for approval.

The Long Range Planning Committee is:

1. Revising Program year so that activities could begin in October.
2. Continue Subcommittee Chairmen for at least two years.
3. Appoint Subcommittees to work on special projects of concern to our industries.
4. Tailor the Congress Program to dovetail with the work of the Engineering Committee.
5. Rather than a year-to-year Congress Program, the aim should be changed to at least a three-year project.

The above items have been submitted to the Executive Board for consideration.

The Personal Protective Equipment Committee has met several times to formulate and promote the present "Lock-Out" campaign. Meetings have been held, plans have been followed through by individual Committee members, work has been referred to the staff representative, and 35mm slides have been reviewed for the Congress Program presentation and possible posters. Individual Committee members are still reviewing material and plans are made to have further meetings prior to the October Congress.

Regarding publicity, trade journals in the Cement, Quarry and Mineral Aggregates industries are still being contacted and will continue to be contacted and given data on Sectional activities.

B. Chemical Section - E. R. Wallace, Chairman

The Chemical Section Executive Committee met in December in New York, twenty members attended. The meeting in January 1963, in Chicago, had an attendance of thirteen members.

The next meeting will be held May 23-24 also in Chicago, at which time a panel discussion will be held in addition to the Subcommittee meetings and the regular Executive Committee Sessions - subject for the panel discussion is: "Buffer vs. Water for First Aid Treatment of Chemical Burns of the Eyes."

The Section's Engineering Committee has completed their survey on current practices where men are working alone. Since replies varied considerably, it was decided to use the results only to write a policy on "Working Alone" rather than try to develop it into a Data Sheet. There is a possibility, however, of developing a Sheet on "Shielding and Spacing of Laboratory, Pilot Plant, and Production Chemical Equipment," from the information collected.

The Health Committee, after gathering material for a Data Sheet on health hazards of "Plasma Arc Torches" now feels that the material should be included in the Data Sheet on "Inert Gas Shielded Arc Welding" - this particular Data Sheet is now being revised.

Data Sheet "Dusts, Fumes and Mists in Industry" will shortly be finalized and "on shelf."

Proposed Data Sheets "Disposal of Cyanide Waste" and "Epoxy Resin Systems" are ready to be sent out for ballot-review.

Data Sheets "Aniline," "Antimony," "Picric Acid," "Oxalic Acid" have all been revised and are now ready for processing.

The Safety Education Data Sheet "Laboratory Glassware" and "Chemical Laboratories" are being submitted to members for suggestions or revision.

Data Sheet "Perchloroethylene" is in process of being collated.

The annual revision of Data Sheet "Chemical Safety References" is under way.

Data Sheets on "Cryogenics" and "Hazards of Plastic Piping in the Chemical Industry" are up for consideration.

The 1963 Congress Program is complete and assignments are finalized. One morning Session is to be co-sponsored by the Laboratory and Pilot Sub-section and the Campus Safety Association, Higher Education Section.

An orientation workshop for new people to chemical safety will be held on Monday afternoon of Congress week. The Tuesday afternoon program is co-sponsored by the Chemical Section and the Industrial Nurses Committee.

A card file has been prepared on Speakers at Chemical Section meetings during the past ten years - this file will include speakers and subjects available for future programs.

A series of three audio visual presentations on 35mm slides with a tape recorded script, plus a written commentary was submitted to the Council. The subjects were:

1. Prevention of Low Back Pain.
2. Injuries and Chemical Burns to the Human Eye.
3. Chemical and Thermal Burns to the Skin.

A vigorous membership effort is being conducted by the Membership Committee.

The Section's Off-The-Job Safety Committee is revising the "Guide for Organizing Off-The-Job Safety Programs." The Committee made a survey to arrive at recommendations for possible revision of reporting injury statistics. Work is in progress on a plan to mail off-the-job safety material on a monthly basis to Chemical Section members.

In the area of Associations a number of Chemical Section members are working with the "Ad Hoc" Committee on Chemical Safety of the American Chemical Society. One member of the Chemical Section is Chairman of MCA's Safety and Fire Prevention Committee.

The Education Committee was created to act as a coordination body between the Chemical Section and the N.F.P.A., American Chemical Society, the C.O.A., the American Institute of Chemical Engineers, the American Physical Society, and the American Rocket Society.

Members of the Chemical Section were active in a Laboratory Safety Session held on April 1, in New York as a part of the 33rd Annual Safety Convention and Exposition. A program on Laboratory Safety, sponsored by the Chemical Section Laboratory Safety Committee was held on May 6, during the Central New York Safety Conference and Exposition.

A survey is being made by the Section's Contest and Awards Committee of the contestants in the Chemical Section Safety Contest regarding preference in reporting procedures.

C. Fertilizer Section - J. Mark, Chairman

The Section's second Executive Committee meeting was held in South Carolina on February 6-8, twenty members of the Executive Committee were present.

The Engineering Committee reported that it is now fully staffed with about ten members in this group. The Chairman of this group has set up four objectives for the Committee to undertake and complete within a year.

The Chairman of the Training Committee reported that the Supervisory Training Schools for 1963 are planned, with dates as follows:

August 15-16, Wilmington, North Carolina.

November 14-15, Chicago, Illinois.

The program at these schools is presented in a preliminary form with the final program to be presented at the June meeting - it is hoped that the Supervisory Safety Training Kit will be ready for printing by October 1963.

The Section's Congress Program has been sent in with approval of the Committee.

The Public Relations Committee, in addition to its usual work of giving the Section necessary publicity is also working on plans to promote the Section's image in the fertilizer industry with the idea of attracting more members to the Section through the National Safety Council.

The Section's Membership Committee has done an excellent job. The Committee is under new leadership, and the number of members on the Committee has been increased in order that the Section may more actively secure new members.

The Off-The-Job Safety Committee is doing a good job. Many of the companies represented by members of the Executive Committee, do have some kind of an Off-The-Job Safety program. It is felt that the interest in this is growing, considering the fact that not more than two years ago, there was very little interest in this particular phase of safety work.

A full and complete report will be presented at the October Conference on activities of other Committees within the Fertilizer Section. The overall activities within the Section are progressing well - some changes in the formation of the Committees within the Section have been made which have been beneficial in making the Section more progressive.

A new item was the establishing of a Chaplain for the Section - his duties, job description have been well defined. It is believed, as time goes on, that the role of the Chaplain will be of importance to the overall activities of the Section.

D. Glass and Ceramics Section - J. E. Morrison, Chairman

The Executive Committee of the Section held two meetings since the last Conference --

October 29, 1962, Chicago, Illinois.

February 26, 1963, Pittsburgh, Pennsylvania.

The Engineering Committee after a period of inactivity is now actively seeking subjects for data sheets. To achieve this, a letter and form was sent to each member of the Executive Committee and the newsletter will carry an article requesting data sheet suggestions.

The Section's Congress Program will be completed by the deadline date.

The Off-The-Job Safety Committee within the Section is continuing to stress participation in reporting of off-the-job experience to the National Safety Council.

The Contest and Awards Committee is continuing their efforts to interest Sectional members in participating in the Contest. The Committee is also endeavoring to gather information on in-plant safety contests. A mailing, soliciting information on this was made to the entire membership of the Section.

In the Membership area, efforts are being made to enroll the Glass Container Manufacturers Institute members, who are not now Council members.

The Associations Committee is continuing its efforts to interest glass, ceramics and the refractories industry associations in Council affiliation. In April the Associations Committee Chairman received a list of sixteen Associations, and efforts are currently under way to familiarize them with the benefits of Council membership.

The Section's Training Committee completed and distributed a manual of training programs which have been accumulated by the Chairman of that Committee.

In completing this report, reference was made to the Section's objectives which were distributed to all members of the Executive Committee - along with this went an organization chart designed to spell out the responsibilities and lines of communication in the Section. The Section now plans to develop its own Executive Committee Manual and an individual on the Committee has accepted the responsibility for this assignment.

E. Petroleum Section - Q. V. Tuma, Chairman

The Section Executive Committee has held two meetings since the January Conference --

January 24-25, 1963, New Orleans, Louisiana.

May 5, 1963, Dallas, Texas.

Both meetings were well attended.

An informal meeting of the Committee is scheduled for October 27, for the purpose of assuring that all program sessions are handled in detail.

In addition to the Petroleum Section being divided into five geographical divisions, it also has operational divisions. The Atlantic Division and the Great Lakes Division hold bimonthly meetings of the workshop type. The Gulf Coast Division is currently in the process of organizing a similar bimonthly activity.

The Section's Engineering Committee reports the Data Sheet "Manual Tank Gauging" is nearly finalized.

Three current National Safety Council data sheets were reviewed by the Education and Training Committee and the results thereof will be transmitted to the National Safety Council staff. The study of a need for a new Data Sheet on "Waste Oil Handling" resulted in a negative recommendation.

Considerable assistance has been rendered in comments on the Data Sheets

"Asphalt"

"Pneumatic Pressure Systems."

Upon receipt by the Chairman, of a Publication Review Ballot on a Data Sheet "Flammable Liquids - Safe Handling in Small Quantities," it was requested that the entire Executive Committee be given an opportunity to comment thereon. Fourteen of the sixteen replies suggested corrections. Since this is a data sheet covering a subject of primary interest to the Petroleum Section, it is noted that prior to the Publication Review Ballot, the Section should have had an opportunity to review it. It is understood that this is an adopted procedure of the Technical Publications Committee. However, in this instance, the procedure was not followed.

The Program for the 1963 Congress is finalized - the results of an attendance survey and a call for suggestions from attendees at the 1962 Congress Sessions of our Section were utilized in planning the 1963 program.

The Membership group has continued the procedure of screening consultation letters for membership potentials. Assistance is provided to new members and old members alike by interchange of information between companies.

In the field of visual aids a review of posters is being conducted of the ones used before and during World War II, suggestions for modifications as well as reactivating will be made. One of the Section's member companies is considering the production of a film on human factors in safety for specific use of the Petroleum Industry and many of the Section members will be active in this project.

Some eighty-nine letters to oil company presidents were sent asking them to take a look at their off-the-job safety problems as they relate to costs and efficiency. A "break-through" in this area has not been easy. These letters, however, were designed to cause these top executives to start asking their safety directors some questions and give the safety directors a "foot in the door." Some replies are being received and it becomes apparent that increased participation in the program will be forthcoming.

One of the items for discussion at each Petroleum Section Executive Committee meeting involves an exchange of information on off-the-job safety activities of the members. At least two companies have given extensive treatment to the "Signs of Life" program in payroll enclosures and company magazines.

The Contests and Awards Committee in an effort to increase Sectional member participation and in annual reporting to the Council, has modified the contest rules for 1964.

The American Petroleum Institute has special representation on the Petroleum Section Executive Committee which affords close liaison on projects. Section members are active in State, Regional and Community Safety Organizations and Council's assurance of petroleum subjects on their conference programs is routine in many of them and prospective in others.

Five members of the Section were active on the National Safety Council's Committee on Motor Vehicle Safety at Railroad Grade Crossings, and two additional petroleum members on that Committee indirectly - one by special appointment and one as a representative from the Motor Transport Conference.

Fifty-two, five-minute safety talks have been completed and are now in the hands of the Section's Executive Committee for final review and for technical accuracy. Twenty-six of these talks are beamed toward petroleum producing operations and twenty-six are for petroleum marketing operations.

The Section's Newsletter has been published monthly with excellent material content, including articles on supervisory or employee training as well as feature safety articles, hints, gimmicks, etc.

Other special Sectional activities include the mailing of Mr. C. Schlueter's letter, dated January 21, regarding assistance in reducing the motor vehicle death toll to all Section members, along with this mailing a copy of the "Highway Safety Action Program of the President's Committee on Traffic Safety" was included, plus a summary of "State Needs."

A project involving a study of safety errors in advertising has now been under way for a year and several such errors have been called to the attention of advertisers who market to the petroleum industry and to several petroleum marketers.

After considered deliberation of the holiday highway statistics released by the Council, it is the recommendation of the Petroleum Section to the Industrial Conference that the National Safety Council make a thorough study of its statement of anticipated fatalities on holiday week ends in order to determine if these statements are producing good or detrimental effects. This is, in effect, an endorsement of the communications study now being undertaken by the Council. In support of said recommendation an article appeared in the April 28 edition of the Houston Chronicle.

Recommendations of Section members on need for and contents of revisions to Z16 were accumulated and transmitted to the Industrial Conference Secretary for use in considerations by the Industrial Conference.

Consideration was also given by the Advisory and Study Committee to the desirability of establishing a chairmanship for International

members from the petroleum industry. It was recommended and accepted that no action be taken on this matter for the present.

F. Rubber Section - C. S. Kruger, Chairman

The Section's Executive Committee met on January 31 and February 1, in Cleveland, Ohio, twenty-nine members attended. On January 30, the Long-Range Planning Committee held a meeting to complete projects under consideration, the Sectional officers met to plan for the coming year.

The Section's next meeting will be held on June 28-30, in Carlisle, Pennsylvania.

Drafts have been completed on the following technical publications:

"Vulcanizers in the Rubber Industry" - new Data Sheet.

"De-Vulcanizers in the Rubber Industry" - new Data Sheet.

The following Data Sheets are in process of being reviewed for revision of text and illustration:

"Injection Molding."

"Vessel Entry in the Rubber Industry."

"Lining Tanks in Vessels with Rubber."

After complete study of the subject of "Post Inflation of Tires" it has been decided that this subject does not warrant a Data Sheet. However, all recent information on the subject will be contained in newsletter articles.

The Rubber Laboratories Committee has continued to work on the Laboratory Safety Manual. The first Section is almost complete and assignments have been made for the other sections.

From information obtained from a study of survey cards collected at the 1962 Congress and a questionnaire sent to members of the Section, the 1963 preliminary program is complete. Subjects to be covered are:

Disposal of Waste and Solvents.

White Collar Worker Help.

Laboratory Safety and General Safety Subjects for the Person New to Safety Work.

The Membership Committee has actively followed-up on cancelled members and contacted prospective members.

The Education and Training Committee has completed a list of State Universities and Colleges that have safety films available. The list was then distributed to the members.

The Committee is continuing to collect descriptions of contest and award programs in preparation of the development of a Safety Incentive Program booklet.

All new training aids and techniques are publicized in the Section's Newsletter.

In the area of Off-The-Job Safety, a survey has been made to find out the types of activities conducted by the members. Results obtained are being used to develop suggested programs for the member's consideration. Information on the cost of Off-The-Job Safety injuries is also being collected. All of this material would be used to encourage companies to maintain records of their own experience.

Non-reporting companies are being contacted to submit their Off-The-Job experience to the Council. Descriptions of activities and campaigns are published in the newsletter.

The Section is in its third year of compiling injury experience for the Contests and Awards Committee by using the Serious Injury Index Method. Efforts are being made to increase the number of companies participating in this activity. A study is presently under way to revise the Sectional Contest Rules and change the grouping of the participants from a basis of manhours to product. Sectional members have been requested to submit a list of all awards received for safety accomplishments in 1962; this includes state and local awards as well as Council awards, these will be published in the Section's Newsletter.

With regard to associations there has been close relationship between the Section, Rubber Reclaimers, and International Synthetic Rubber Safety Associations. Because of the interlocking membership, there is close cooperation in the mutual products. Additional joint projects are under study. A special activity this year has been the effort to interest the Rubber Retreaders Association in conducting a safety program for its members.

Safety articles have been submitted to the trade magazines and informational material has been sent to various associations.

The Section's Rules and Regulations Committee have been revising the Section's Handbook and continues to keep the Section informed on new legislation in the field of safety.

The Section's Fire Committee has been conducting information as to types and causes of fires which have occurred in member's plants. It is expected that this information will serve as the basis for technical papers to benefit the industry.

have made the most significant progress towards getting all students prepared to drive right.

"You will now see a film that should be of great interest to you. This film was developed by the Arizona Traffic Safety Foundation for the purpose of helping to build public support for driver education legislation in Arizona through better understanding of the value of the program. This film could be used at the local and state level by groups interested in establishing a quality driver education program. Remember one film won't solve your problem. It can only assist and clarify."

It was pointed out that the School and College Conference and the Industrial Conference Joint Committee had prepared kits of valuable material, essential to everyone considering the establishment of a driver education program, or those who are taking steps to upgrade an existing program - of special interest in the kit are the items entitled -

"D-16 Evaluation Criteria" - an evaluation check list which could be used to appraise an existing program.

"Policies and Practices for Driver Education" - this booklet, printed by the National Commission on Safety Education sets up and recommends standards for quality driver education programs.

Members were urged to request these kits.

Industry has a magnificent accident prevention record and progress made has been commendable - because of this, it would seem obvious that industry now has a golden opportunity to share this "know-how" with other leadership people and should contribute measurably in solving the off-the-job traffic safety problem by assisting in the establishment and expansion of high school driver education.

Support of the Industrial Conference was requested in an effort to convince educators and the general public of the need for making these courses available to all our eligible youth. It is important to stress that this course contributes greatly in the conservation of our most valuable resource -- our youth.

A short time ago, the Industrial Department of the National Safety Council sent a questionnaire on driver education to more than a thousand member companies. Six out of ten replied that driver education was being offered in their communities. It is recognized, of course, that more than one company may have been located in the same community. The Annual National High School Driver Education Achievement Program, gets reports directly from school officials and shows that seven out of ten schools offer some type of driver education. Therefore, the figures from the questionnaires are quite close.

One point is clear, driver education is well established in a large number of our schools - why aren't all the schools offering it? The questionnaire brought out these answers from your companies that reported their communities did not offer the course. They are:

1. Lack of funds - this was the reason most frequently given.
2. Lack of teachers.
3. Lack of facilities and equipment.
4. Cost per pupil too high.
5. Overloaded schedule.
6. Not able to arouse interest.
7. Will start next year.

Out of these seven reasons, all are negative except the last one, which infers, "they'll start next year." The rest of them simply point up the fact that a sales job is needed. First of all you need to be sold - some of the reactions to the questionnaire may be of interest and help.

For instance, one of the questions was: "Do you give special consideration - or preference - to job applicants who have had driver education?" One in every five said "Yes."

This reply seems most significant - it indicates that businessmen see tangible value to their companies. It was, therefore, pertinent to inquire - as the questionnaire did, what benefits resulted from the policy of hiring applicants who are driver education graduates and the replies were as follows:

- a. One-third found it improved their safety records.
- b. Nearly one-third reported better driving skills.
- c. One-fourth said their drivers were more dependable.
- d. One-tenth felt it improved their community relations.
- e. One-eighth indicated lower maintenance costs.
- f. One-sixth said they had fewer traffic citations.

Other qualities companies attributed to driver education graduates were:

- greater stability.
- better all-around employees.

- better knowledge of mechanical operation.
- better fundamentals of driving.
- better attitude toward the public.
- fewer days lost to accidents.
- better acceptance of safety training.
- more alert.
- less turnover in drivers.
- lower insurance costs.

It would seem to indicate the people who had had the opportunity over the years, to observe directly, the effects of driver education have found that it saves lives, prevents injuries, builds better citizens.....and it's good business.

What can we do? There are two questions you must ask before you start to act. They are:

1. Do your schools provide a high quality course to all students? If not, why not?
2. Does your state provide financial assistance to schools offering driver education? If not, why not?

If your state does not have financial support legislation, find out what needs to be done in your state to pass this legislation - when you have the answers to these questions then you should contact your local school officials and offer your assistance if the need exists.

In other words, define the problem, prepare a sound plan for support of driver education in your community and state. Enlist the help of as many as you can to carry out the plan. Remind them that we do not have the right to ask for safety unless we are all willing to act for it.

(The film is available from the School and College Division of the National Safety Council on loan.)

X. NEXT MEETING

The Industrial Conference will hold its next meeting on:

Sunday, October 27, 1963.
Conrad Hilton Hotel
Chicago, Illinois

XI. ADJOURNMENT

The meeting adjourned at 12:10 p.m.

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

<u>BASICS</u> D. Farrell <u>Int. B. R. South</u> Brown & Kintz A. Kelly	<u>BASICS</u> D. Farrell <u>Int. B. R. South</u> A. Kelly	<u>MOTIVATION</u> T. Wilkenson Midwest Human Factors <u>Int. B. R. South</u> T. Planek
<u>INDUSTRIAL HYGIENE</u> Ken Morse W. Hazard <u>Grand Ballroom</u> J. Olishifski	<u>VISUAL AIDS</u> Gene Stuffling <u>Grand Ballroom</u> Ken Goddard A. Baltzer	<u>TRAINING</u> J. Van Namee <u>Grand Ballroom</u> Program Learning and Participation Extension Courses Len Smith
<u>EVALUATION OF A SAFETY PROGRAM</u> Ken Hedges <u>Int. B. R. North</u> U. S. Steel AT&T H. McRae	<u>MULTI-PLANT</u> R. Gilmore <u>Int. B. R. North</u> R. Currie	<u>INDUSTRIAL HEALTH</u> G. Bridges <u>Int. B. R. North</u> C. Hoch

OFF-THE-JOB
FAMILY SAFETY

Int. B. R. South
Industrial Conf.
Home Conf.

R. Belknap

Z41 SECTIONAL COMMITTEE
report to
INDUSTRIAL CONFERENCE

See Note, Page 11

Chicago - May 22, 1963

The present Z41 Standard for Men's Safety Shoes was approved March 17, 1944. The development of this Standard, like many others at that time, was undertaken by the American Standards Association in response to requests received from the War Production Board and the Office of Price Administration.

The objectives of the project were to provide foot protection to industrial workers and conserve critical materials during the war effort.

This American War Standard, as it was called, is still in effect; and the recently reorganized Z41 Sectional Committee is now working at the task of bringing the Standard up to date through the process of revision.

The use of safety shoes in industry was greatly expanded during World War II, and the Standard served its purpose well.

Although safety shoes were mainly used in heavy industry prior to the war, their availability during the war was instrumental in their expanded use into medium and light industries.

Since the war, styles of safety shoes have been expanded to include both work and dress models.

The steel toe caps have been modified to give the shoes a more stylish profile, and the result has been an even more widespread use of safety shoes.

With the increased use of dress styles, there has been a tendency, on the part of both the consumer and the producer, to disregard the Z41 War Standard; and many safety shoes now offered by manufacturers and used in industry will not meet the compression and impact test specifications set up as minimums in the Standard.

It should be pointed out, at this time, that these sub-standard safety shoes were brought into being at the insistence of safety engineers like you and me, for lighter weight, more style and more salability.

We were more interested in expanding the use of foot protection than we were in holding strictly to the Standard.

Whether or not this was the intelligent route to follow is a debatable question, and it is not my intention to pursue this point one way or the other at this time.

However, I can assure you that most of the members of the Z41 Sectional Committee, who are connected with non-subsidized safety shoe programs, insist on having available, shoes, with enough eye appeal that they can, in turn, resell the shoes to their employees.

This is the position in which we found ourselves when we tackled the job of revising the Z41 Standard at the first meeting of the Sectional Committee in New York on July 11, 1962.

At this meeting three sub-committees were organized and each was given definite work assignments. These sub-committees immediately went into session and accomplished considerable during the remainder of the meeting day.

At the next meeting of the Sectional Committee in New York on January 15, 1963, the Chairman of the three sub-committees made progress reports.

After complete discussion of the reports submitted, the Sectional Committee voted on the following:

1. Motion was made to the effect that "the Standard should be based on performance requirements and have three grades of Impact and Compression Resistance." The motion was carried 15 - 4.
2. A second motion was made to the effect that under the performance requirements, "the minimum grade should have an impact resistance of 75 foot pounds." This motion was defeated 12 - 4.
3. A third motion was made to the effect that "the three grades of safety shoes be as follows":
 - Class 1 - 75 ft. lbs. impact resistance and 2500 lb. compression resistance.
 - Class 2 - 50 ft. lbs. impact resistance and 1750 lb. compression resistance.
 - Class 3 - 30 ft. lbs. impact resistance and 1000 lb. compression resistance.

The motion was carried 17 - 2.

The purpose of my appearance on the agenda today is to explain to the Industrial Conference the action of the Z41 Sectional Committee on these motions and to forestall the feeling evidenced on the part of some Industrial Conference Members that our decisions were not in the best interest of safety.

We certainly do not want to continue with our job without the backing and confidence of the Industrial Conference. We must have that.

It is, therefore, important to us that you be given the opportunity to weigh the facts upon which our committee based the decisions made to date.

In order for my committee to find a starting point, tests were made on 176 shoes.

These tests were made both by shoe manufacturers and consumers, and all shoe samples were of currently available styles; about 50 styles in all.

The tests were made on test equipment described in the Z41 Standard and the measurement of values was according to Z41 Procedure.

The manufacturer used both impact and compression equipment while the consumer used compression equipment only.

SLIDE 1

(This is a hand operated compression testing machine where pressure is measured as it is applied to a sample shoe. The shoe must maintain at least 1/2" clearance between the toe cap and the insole of the shoe to pass the compression test for any of the three classes.

The clearance is measured at the lowest point, using the gauge described in the Z41 Standard.)

SLIDE 2

(This is the impact testing machine, described in the Z41 Standard. It is nothing more than a 50 lb. weight with a 1" striking surface with a striking face machined on a 1" radius.

This weight is allowed to fall a measured distance and strike the back end of the steel cap while the minimum momentary clearance is measured at the back edge of the cap, using a pyramid of modeling clay.

A momentary clearance of not less than 1/2" must be held to place the shoe in any of the three classes.)

SLIDE 3

(This is a power operated laboratory testing machine used to measure compression loading of sample shoes while cap to insole clearances are measured with the Z41 clearance gauge.)

SLIDE 4

(This slide shows the striking area of the Z41 impact testing machine with a bare steel toe cap in place along with a ball of modeling clay. I am showing this to give you a close-up of the equipment and the method used in measuring momentary clearance.)

As a matter of information, there is a movement afoot to develop International Standards. The American Standards Association is a member of the International Standards Organization.

At the time the Z41 Sectional Committee was being reorganized, the International Standards Organization contacted the American Standards Association and pointed out that the new Z41 Code should be patterned after the International Standard, which, in all probability, would be the present British Standard, BS 953 - 1952 "Strength tests for the protective toe caps of footwear used for Industrial Purposes."

The Z41 Sectional Committee obtained copies of BS 953 and compared it with Z41.

The British Standard is also for three classes of shoes, based upon impact resistance only: Namely - Grade 1 - 150 ft. lbs.

Grade 2 - 100 ft. lbs.

Grade 3 - 60 ft. lbs.

These values appear to be twice as high as those being considered by the Z41 Sectional Committee.

However, when the test equipment and test procedures are compared, there is little similarity involved, and the American Standards Z41 Testing Methods and Procedures prove to be much more destructive and severe.

SLIDE 5

(This is the British Impact Testing Machine. In the British Standard there are no compression requirements.

On this machine, as you can see, the weight, which is 60 lbs., is dropped on a steel plunger, which in turn strikes the shoe being tested.

The plunger is $1\frac{1}{2}$ " diameter and $5\frac{1}{4}$ " long and has a $1\frac{1}{4}$ " x $2\frac{1}{2}$ " diameter plate fastened to the top.

The striking surface actually hitting the shoe being tested is a steel bar $\frac{3}{8}$ " thick $1\frac{1}{2}$ " wide and $\frac{1}{2}$ " long.)

SLIDE 6

(This view of the British Machine shows the 60 lb. weight, the plunger and the striking bar.)

The committee procured samples of British shoes and tested them by both the British and American methods and found that British shoes certified for 100 ft. lbs. impact resistance failed miserably when subjected to 75 ft. lbs. impact, using the American Standard Z41 test. The same applied in reverse when American shoes were tested by the British Method.

These tests were the basis for our decision to stay with the Z41 test procedure for the moment.

SLIDE 7

(This slide is a scale drawing of the British Impact Test equipment showing the critical factors to consider when comparing their test with the Z41 test.

Note that the clearance is measured $1\frac{1}{8}$ " behind the front end of the last on which the shoe was built.

Also, note the mass of the plunger and the large area of the striking plate.

Also, note the fact that the impact is delivered well ahead of the back edge of the toe cap and upon the crown of the cap, its strongest point.)

SLIDE 8

(These are the critical factors in the Z41 Test.

The 50 lb. weight strikes the shoe directly and at the weakest point of the steel toe cap.

The momentary clearance is measured at the back edge of the cap, the weakest point.

The striking area of the weight is a 1" diameter round bar machined on a 1" radius at the striking face.

There can be little question that the Z41 Test is much more destructive than the British Test and that considering the ratings equal is much like comparing horses with rabbits.)

It can be seen that the manner in which the impact is delivered to the shoe and the point at which the reduced clearance under the toe cap is measured, has considerable influence on the rating of the shoe.

During the testing of the 176 shoes by members of our committee, many variables and some relative factors were brought to light.

We will project slides to illustrate some of our findings and discuss them as we move along.

Before we start with the slides, however, I would like to call to your attention to some of the problems confronting the shoe manufacturer in the design of safety shoes.

Human feet are very difficult things to protect with safety devices.

They stick right out where they are wide open to being struck by falling objects being handled by the owner of the feet.

On top of this, the foot is made up of a multitude of bones and joints, making it functional in walking and maintaining balance when standing.

The foot is a wonderful mechanism, but it is certainly tough to protect while still not curbing its ability to serve its intended purpose.

In other words, safety shoes, by the very nature of the feet they protect, must be made according to what the feet will tolerate and not according to their best efficiency as safety devices.

The problem of the shoe manufacturer is to do the best he can within the limitations of two factors; materials and the nature of feet in general.

The steel cap in a safety shoe is recognized as the backbone of the shoes' efficiency, but the foot places definite limitations on the design of the cap.

The next two slides show the position of the steel cap relative to the toes in a properly fitted safety shoe.

SLIDE 9

(This x-ray picture shows the protection afforded by the steel cap in a dress type shoe. This is the toe cap used prior to the new low profile cap.)

SLIDE 10

(To show how intolerant the foot is to changes in the design of the steel cap, this x-ray picture is of a shoe with a wing-guard cap.

In this cap, which was introduced a few years ago, the outside edge of the cap was lengthened to afford better protection for the 4th and 5th toes.

It looked good on the drawing board but didn't work out well in service, since it had a tendency to rub the toes at the back end of the cap.

The design of steel toe caps greatly influences the style and comfort of the shoes; but as you can see, there is little variation possible due to the nature of the feet themselves.)

I believe you will agree that safety shoes have several other very definite limitations and that the problem confronting the Z41 Sectional Committee in rewriting the Standard is to establish specifications, test values and test procedures to use to the best possible advantage the available efficiency in safety shoes as such.

I have some slides to show several shoes being compression tested at Western Electric Company here in Chicago.

These pictures show how and where safety shoes fail under compression loading, using Z41 testing equipment, procedures and values.

Western Electric has tested safety shoes for several years, and their data has been very influential in the decisions made to date in rewriting the Standard.

SLIDE 11

(The next 8 slides show a shoe being compression tested.

This shoe has a double leather sole with a #300 toe cap and even at 1,000 lbs. compression the back edge of the steel cap is beginning to distort the welt at that point.)

SLIDE 12

(This is the way the shoe looked at 1,500 pounds.)

SLIDE 13

(This is the way it looked at 2,000 lbs. You can see more distortion at the welt as the cap tries to spread and force the welt aside.)

SLIDE 14

(At 2,500 lbs. this shoe is certainly giving about all the resistance it has to offer, but it is still holding up.)

SLIDE 15

(This slide shows the gauge being inserted into the shoe to measure for the 1/2" minimum clearance between the toe cap and the insole.)

SLIDE 16

(This shows the gauge in position in the shoe, and this shoe could now be rated as a Class 1 shoe from the standpoint of compression resistance.)

SLIDE 17

(This slide shows a "foots-eye" view of the shoe under a 2,500 lb. load.)

SLIDE 18

(And, believe it or not, this is the same shoe after the load was removed. Isn't it remarkable how this shoe springs back to be worn yet another day.)

SLIDE 19

(The next 4 slides show another shoe being compression tested. This shoe has a single leather sole and a #300 toe cap.

You can see the cap trying to spread even at 1,000 lbs. loading.)

SLIDE 20

(Here it is at 1,500 lbs.)

SLIDE 21

(This shoe failed at slightly over 2,000 lbs.)

SLIDE 22

(But, look at the same shoe after the load was removed.)

SLIDE 23

(The next three slides show the effect produced by the arching up of the outsole and, for that matter, the insole, when a toe cap is compression loaded.

We have placed a #400 steel toe cap on an air cushion neoprene sole and have applied 500 lbs. pressure to the cap.

You can see how the sole arches.

This arching reduces the clearance between the insole and the toe cap and is the cause of some shoe failures when compression tested.)

SLIDE 24

(This shows the arching and reduced clearance at 1,000 lbs.)

SLIDE 25

(This slide shows the clearance at 1,500 lbs. The reason for showing these slides is to bring out the point that the reduced clearance under compression loading is a combination of both the sinking of the toe cap and the arching of the insole.)

SLIDE 26

(The next 5 slides show a shoe with an air cushion neoprene sole and a #400 toe cap.

At 500 lbs. the sole has flattened considerably and there is a weakness showing up at the welt at the back of the toe cap.)

SLIDE 27

(Here the cap is sinking deeper into the sole as the sole compresses even more.)

SLIDE 28

(At 1,500 lbs. the welt is separating slightly from the sole, and the cap is sinking deeper into the sole.)

SLIDE 29

(At 2,000 lbs. this shoe has had it.)

SLIDE 30

(But, when the load is removed, the shoe snaps back into its original shape.)

SLIDE 31

(The next three slides are of a shoe with the same air cushion neoprene sole, but with a #300 toe cap. You can see that it isn't doing so well at 500 lbs.)

SLIDE 32

(At 1,000 lbs. it has failed.)

SLIDE 33

(When the load is removed, it springs back to its normal shape.)

After viewing these slides, it is obvious that both the outsole and the insole material have a bearing on the shoe's ability to withstand compression.

SLIDE 34

(The hardness of outsole material is measured with an instrument called a durometer.

Leather soles have a durometer rating of over 100. All outsole materials of blown or nuclear type have much lower durometer ratings, some going as low as 50.

In most cases, outsole materials, with these low durometer ratings, caused shoes to test in Class 3 when compression tested.

In some cases, shoes having outsoles with these low durometer ratings, impact tested in Class 2, but fell into Class 3, due to failure to their failure when compression tested.

Since a shoe must pass both the impact and the compression test of a given class, these shoes would be downgraded into the lower level of the two classes.

According to the data on the shoes tested to date, those with nuclear type outsoles have a tendency to show up comparatively well under impact loading but not so well under compression loading.

Shoes with composition outsoles such as Chemigum, solid Neoprene and Grocord, having a durometer rating of around 75, fell into Class 2.

(Generally speaking, only shoes with leather or the very hard composition outsoles will earn a Class 1 rating.)

Some shoes, now on the market, will possibly fail to get even a Class 3 rating and will subsequently have to be either upgraded or discontinued.

Other factors, such as the style of steel toe cap used and the material used for the insole, will have a bearing on the rating of the shoe.

The higher the profile of the toe cap, the more the space with which to work before arriving at the failure point in both the compression and impact tests.

The thicker the insole, the less the space before the failure point is reached.

In actual service, shoes have been known to withstand abuse so severe that it cannot be explained why the shoes were not crushed with serious foot injuries resulting.

Here are some examples:

1. A 3,000 lb. coil of metal
2. A wheel of an 8,700 lb. industrial truck
3. A 250 lb. die, falling $2\frac{1}{2}$ ft.
4. A 2,500 lb. countershaft
5. A 4,200 lb. lift truck
6. A 7,000 lb. electric motor
7. A 3,000 lb. pallet ram
8. A 3,500 lb. roll of paper
9. A 4,000 lb. cannon tube
10. A 6,000 lb. fork truck

These are all actual, authenticated exposures, and in most of these particular cases, the shoes involved would be rated in Class 3 in the revised Standard, due to the nature of the outsole material used in the construction of the shoes.

It is the contention of the majority of the members of the Z41 Sectional Committee, those responsible for revising the Z41 Standard, that it is not a wise move to outlaw all safety shoes now on the market that will not pass the 75 ft. lb. impact and 2,500 lbs. compression requirements of the old Z41 War Standard.

The committee feels that the inclusion of three classes of safety shoes in the revised Standard will not in any way change the safety shoe picture in the accident prevention movement except to clarify to the user of the shoes what he can expect in the way of protection from each of the 3 classes of safety shoes.

We feel that with each style of safety shoe bearing an A.S.A. Certification Stamp, there will be much less confusion in the safety shoe problem; and that the certification requirement will encourage the shoe manufacturers to upgrade their shoes through research and advanced construction methods.

In fact, shoe manufacturers are already asking for a classification for a grade of shoe better than what has now been proposed for Class 1, to be used as a goal toward which to work.

The general consensus of opinion of the Z41 Sectional Committee indicates that it must be recognized that safety shoes of all three classes are now being used with remarkable success both on and off the job.

They feel that in all but very heavy industry the Class 2 and Class 3 shoes do a good job, and agree that a higher percentage of safety shoe users would be more instrumental in reducing foot injuries than narrowing the styles down to Class 1 only.

They do not feel that with the proposed three classes they are taking anything away from those who have a need for the more rugged Class 1 shoes, and, by the same token, they are opposed to taking away the Class 2 and 3 shoes from those who are now using them successfully in their safety shoe programs and want to continue to do so.

The composition of the Z41 Sectional Committee is such that its membership represents a very well-distributed and well-balanced coverage of interests in all areas of the safety shoe problem.

The decisions made to date by this Committee have been honest and realistic.

I can see no need for a choosing of sides at this stage of the game because to date we have merely taken preliminary steps in getting the project underway.

The big job still lies ahead.

We certainly want your confidence and can see no reason for being deprived of this courtesy.

We are fully aware of the responsibility that is ours in this task and are proceeding with appropriate sincerity, diligence, and, I hope, intelligence.

J. R. Stone, Chairman
Z41 Sectional Committee

Note: This information, relative to American Standard being developed - absolutely not for publication.