

simply created another hazard, because there was a temptation for youngsters to jump on the moving vehicle. They have evolved a new type of step so that the moment the truck starts up, one revolution of the wheel, the step drops out of position and remains that way until the truck comes to a standstill again.

MR. LEE: I was in one of the large plants here in Chicago where they use quite a few trucks that run around through the departments. At intersections of the aisles they had large mirrors at such an angle that the fellow coming up one aisle could see the fellow coming from another direction.

MR. HANAU: I would like to ask one of the leather men or tanning men whether they have ever seen a guard on a staking machine or roll jack as specified in. I think it is A.S.A. standards, which says that a fence should be provided around the thing so that a man can't get his hand under that. I have seen pictures of them, but I don't recall seeing one that worked.

CHAIRMAN SCHAFFNER: Mr. Clover, can you answer that?

MR. CLOVER: As to the Stocum staker you have in mind, where a man puts the hide in on the side and has to work it through—

MR. HANAU: Either the side or front. There is an arm that comes down.

MR. CLOVER: I don't know of any guard that is put at the point of operation. They do bring the guard up to a certain point on the arm, and they cover the fly-wheel below. As to actually guarding the point of operation on this staker, I don't believe it has been done. With the exception of sole leather, the glazing jacks have been guarded. They are guarded at the point of operation by having a basket type guard around them, with provision made at the front point of operation, to slide the skin from the left to the right or the right to the left, whichever way it is. If their hand or the skin of the hide is jerked in, the hand is knocked loose before it goes into the roller. There are some very good guards that you can make up to suit your condition.

MR. HANAU: Can you tell me where I can see one of those in operation in this area?

MR. CLOVER: I can send you some pictures of them.

MR. HANAU: I will be glad to have them.

MR. TEFFT: Mr. Lee referred to visual education. I would like to tie that up with a discussion of aprons, if I may. Cuts from beef boning operations are rare, but when they happen they are horrifying. I know of one man who bled to death in ten minutes. He cut a big artery.

Do you think it would be of any value if pictures were taken of beef boning operations to show the men how many times a day that knife almost cuts them but doesn't, and use those in a slow motion picture? Then they might take to some of the aprons a little bit more readily than they do at the present time.

MR. LEE: I think so. My suggestion would be that you have the still picture or the stereoscopic slide first, because it seems to me that is the best medium for detail information and round table discussion. Then, after that, show the movie. The movie, in the first place, would be too fast. If you have it first in the still picture and go through the fine points and what he did and what he should have done, and so forth, then show him actually doing it in the picture, I think that would be ideal.

MR. TEFFT: I had in mind that you would have to take a motion picture because those fellows work so fast you can't see where the knife is. If you took the motion picture, then you could pick out the proper stills and make the stills from your motion pictures.

MR. LEE: Yes.

MR. HANAU: I saw a demonstration of that yesterday, in the Metals Section. Somebody took some shots of a punch press operator. He caught a particular operation he was interested in and then he made a loop film; in other words, he cemented the two ends and kept running in through his machine. It was very effective.

ADJOURNMENT

Metals Section

Officers 1939-1940

- General Chairman*—H. J. GRIFFITH, Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Vice-Chairman—IRVIN A. BRICKMAN, Mackintosh-Hemphill Co., Pittsburgh, Pa.
Secretary and News Letter Editor—H. J. SPARKER, Youngstown Sheet & Tube Co., East Chicago, Ind.
Contest Committee—N. B. MACHOSE (Chairman), Bethlehem Steel Co., Lackawanna, N. Y.
 T. O. ARMSTRONG, Westinghouse Electric & Mfg. Co., Springfield, Mass.
 F. J. CONROY, Union Carbide Co., Niagara Falls, N. Y.
Engineering Committee—H. T. DYE, Republic Steel Corp., Buffalo, N. Y.
 W. A. JARVIS, Chase Brass & Copper Co., Waterbury, Conn.
Foundry Committee—J. H. HOLZNER (Chairman), Chain Belt Co., Milwaukee, Wis.
 H. S. SIMPSON, Caterpillar Tractor Co., Peoria, Ill.
Health Committee—DR. A. G. KAMMER (Chairman), Inland Steel Co., Indiana Harbor, Ind.
 DR. J. H. CHIVERS, The Crane Co., Chicago, Ill.
 DR. T. LYLE HAZLETT, Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.
Membership Committee—E. A. ELIAS (Chairman), Wheeling Steel Corp., Wheeling, W. Va.
 C. A. BRANCH, H. H. Robertson Co., Ambridge, Pa.
 J. M. BOWEN, Michle Printing Press & Mfg. Co., Chicago, Ill.
Poster Committee—J. P. GATHERMAN (Chairman), Great Lakes Steel Corp., Ecorse, Mich.
 C. D. DORWORTH, Alan Wood Steel Co., Conshohocken, Pa.
 JOHN P. LONARDI, Blaw-Knox Co., Pittsburgh, Pa.
Program Committee—EARL FYLER (Chairman), Carnegie-Illinois Steel Corp., Gary, Ind.
 J. E. CULLINERY, Bethlehem Steel Co., Bethlehem, Pa.
 W. J. HODGE, Chase Brass & Copper Co., Cleveland, Ohio.
 D. V. MEINERZ, Interlake Iron Corp., Chicago, Ill.
Publicity Committee—H. H. HENRY (Chairman), Otto Steel Co., Cleveland, Ohio.
 E. E. GREENE, The Timken Roller Bearing Co., Canton, Ohio.
 J. A. GUTHRIE, The National Radiator Co., Johnstown, Pa.
Railway Car Builders Committee—P. J. BRAND (Chairman), Pullman-Standard Car Mfg. Co., Pullman, Chicago, Ill.
Statistics Committee—JOHN P. O'ROURKE (Chairman), Bethlehem Steel Co., Sparrows Point, Md.
 C. S. PHILLIPS, Revere Copper & Brass, Inc., Rome, N. Y.
 H. L. ROWERS, Sheffield Steel Corp., Kansas City, Mo.
Members at Large—
 *C. M. ALLEN, The American Rolling Mill Co., Middletown, Ohio.
 *E. C. BENNETT, The Buckeye Steel Castings Co., Columbus, Ohio.
 *E. F. BLANK, Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 *R. A. CHAFFIN, Continental Steel Corp., Kokomo, Ind.
 *H. M. CROGHAN, Inland Steel Co., East Chicago, Ind.
 *H. W. DARR, Bethlehem Steel Co., Johnstown, Pa.
 *M. W. DESSAULT, Bekaert Iron Works, Beloit, Wis.
 *JOHN P. EIR, American Steel & Wire Co., Chicago, Ill.
 *K. H. FERGUSON, Republic Steel Corp., Cleveland, Ohio.
 *GEORGE T. FONDA, Weirton Steel Co., Weirton, W. Va.
 *S. E. HAWKES, Macabryte Co., Kenosha, Wis.
 *H. G. HENSEL, The Youngstown Sheet & Tube Co., Chicago, Ill.

Past General Chairman