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Volume 1

National Safety Congress Transactions

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GENERAL SESSIONS

ANNUAL MEETING OF MEMBERS
CONGRESS BANQUET
LIST OF EXHIBITORS
GENERAL INDEX OF ALL VOLUMES

NATIONAL SAFETY COUNCIL
425 N. Michigan Avenue
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VOLUME 1 OF THE TRANSACTIONS

of the

51st NATIONAL SAFETY CONGRESS

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Air Space Devices, Inc., 5428 Vineland Ave., N. Hollywood, Calif.
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Akron Brass Co., 1450 Spruce St., Wooster, Ohio
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Alan Wood Steel Co., Conshohocken Road, Conshohocken, Pa.
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American Allsafe Co., Inc., 1245 Niagara St., Buffalo, N. Y. 14213
Drybrow sweatbands, nylon fan guards and related products.

American Biltrite Rubber, 22 Willow St., Chelsea 50, Mass.
A complete line of safety soles and heels.

American Chain and Cable Co., Inc., 929 Connecticut Ave., Bridgeport 2, Conn.
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American Industrial Safety Equipment Co., 3500 Lakeside Ave., Cleveland 14
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American Jet Spray Industries, 1240 Harlan St., Denver, Colo. 80214
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American LaFrance, 100 E. LaFrance St., Elmira, N. Y.
Five apparatus and fire fighting equipment.

American Optical Co., 14 Mechanic St., Southbridge, Mass.
Head, eye, respiratory, protective devices; safety clothing; safety specialty products.

American Safety Equipment Co., 261 Madison Ave., New York 16
Automobile seat belts.

American Society of Safety Engineers, 5 N. Wabash Ave., Chicago 2
Professional society.

American Viscose Div., FMC Corp., 1617 Pennsylvania Blvd., Philadelphia 3
Rayon cord strapping.

Ampco Metal, Inc., 1791 S. 38th St., Milwaukee 1
Hand tools of spark-resistant alloys for use in explosive or flammable conditions.

Antrex Corp. 1, 2001 W. Willow St., Chicago, Ill. 60647
Safety Talker Message Repeater, portable public address systems.

Apex Safety Products, Washington and Elm Sts., Cleveland 13
Safety hats and caps.

Sheffield, Div. Armco Steel Corp., 7100 Roberts, Kansas City, Mo. 64125
Wire rope and slings.

Atlas Safety Equipment Co., Inc., 175-179 N. 10th St., Brooklyn 11, N. Y.
Industrial safety belts, harnesses, and straps. Ladder climber's safety device. Sky Genie descent control.

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Industrial eye protection, goggles, and spectacles.

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Portable explosionproof inspection lights.

R. H. Buhrke Co., 1403 W. Congress Pkwy., Chicago 7
Occupational safety equipment—safety belts, straps, strap assemblies, harnesses, and allied products.

E. D. Bullard Co., 2680 Bridgeway, Sausalito, Calif.
Safety hats, caps, and accessories, industrial first aid kits, safety hoist hooks, vehicle alarms, air purifiers, and ear plugs.

Cah Industries, 10245 Pacific Ave., Franklin Park, Ill.
Self-extinguishing waste receptacle.

Campbell Chain Co., P. O. Box 1667, York, Pa.
Sling chains.

Canrad Precision Industries, Inc., 2834 W. Lake St., Chicago 12
Phosphorescent tape and fluorescent tape for vehicle and personnel markers.

Casco Products Corp., 512 Hancock Ave., Bridgeport 2, Conn.
Hand-portable pressurized dry chemical fire extinguishers.

A. B. Chance Co., 210 N. Allen St., Centralia, Mo. 65240
Hot line maintenance and line construction tools. Hot line tools.

Charleston Rubber Co., 16 Stark Industrial Park, Charleston, S. C.
Rubber, plastics, and rubber coated gloves, aprons and sleeves.

The Chemical Corp., 54 Waltham Ave., Springfield 9, Mass.
Protective creams, skin conditioners, and hand cleaners.

Chicago Eye Shield Co., 2727 W. Roscoe St., Chicago 18
Head, eye and respiratory protection equipment.

Chrysler Corp., 341 Massachusetts Ave., Detroit
Safety features in 1964 line of automobiles and trucks.

David Clark Co., Inc., 360 Franklin St., Worcester 2, Mass.
Muff-type ear protection.

The Coca-Cola Co., P. O. Drawer 1734, Atlanta 1
Coca-Cola served through the courtesy and cooperation of the Coca-Cola Bottling Company of Chicago.

Columbus McKinnon Chain Div., Columbus McKinnon Corp., Tonawanda, N. Y.
Sling chains, hooks, and coupling links.

Cramer Posture Chair Co., Inc., 625 Adams St., Kansas City 5, Kans.
Aluminum safety ladders and safety stools.

Custom Materials Inc., 279 Billerica Road, Chelmsford 1, Mass.
Static-free and permanently conductive polyolefin.

Davis Emergency Equipment Co., Inc., 53 Halleck St., Newark 4, N. J.
First aid kits, gas masks and breathing equipment, combustible and toxic gas analyzers, and protective hats.

Demp-Nock Co., 21433 Mound Road, Warren, Mich.
Pressure sensitive plastic film lettering kit.

Detex Watchlock Corp., 76 Varick St., New York 13
Watchmen's clocks.

R. E. Dietz Co., 225 Wilkinson St., Syracuse 1, N. Y.
Lanterns, torches, flashers, barricades, and safety equipment.

Dockson Corp., 3839 Wabash Ave., Detroit 8
Spectacles, goggles, face shields, helmets, hats, and respirators.

Dow Corning Corp., Box 7038, Greensboro, N. C. 24707
Sight Savers, lens cleaning stations.

Dymo Industries, Inc., Box 1030, Berkeley 1, Calif.
Labeling device for use in office or shop.

Eagle Mfg. Co., 24th and Charles Sts., Wellsburg, W. Va.
Safety cans, cigarette-cigar butt cans, drain cans, drip cans, brass oilers.

Edmont, Inc., 1205 Walnut St., Coshocton, Ohio
Coated and impregnated work gloves.

Electro-Beam Corp., Box 375, St. Joseph, Mich.
Warning lights, barricades, and accessories.

Electronic Specialties Co., Island Ave., Batavia, Ill.
Warning lights, barricades, and accessories.

Elkhart Brass Mfg. Co., Inc., 1302 W. Beardsley Ave., Elkhart, Ind.
Nozzles and other fire department supplies and fire fighting equipment.

J. H. Emerson Co., 22 Cottage Park Ave., Cambridge 40, Mass.
Resuscitation equipment.

Erdco Engineering Corp., 136 Official Road, Addison, Ill.
Gas vapor alarm systems.

John Evans' Sons, Inc., 500 N. Thirteenth St., Philadelphia, Pa. 19123
Collapsible, portable, traffic cone.

Falcon Alarm Co., Inc., 20 Stern Ave., Springfield, N. J.
Fire alarms, sirens, horns, bells and other signaling devices.

Federal Sign and Signal Corp., 13625 S. Western Ave., Blue Island, Ill. 60406
Sirens, horns, bells, and warning lights for visual and audible signaling.

Fendall Co., 2222 Diversey Pky., Chicago 47
Spectacles, face shields, and cup-type and cover goggles.

Ferno-Washington, Inc., 6th and Pink Sts., Greenfield, Ohio
Emergency patient handling equipment and accessories for the first aid room.

Fibre-Metal Products Co., 5th and Tilghman Sts., Chester, Pa.
Safety hats and caps, face shields, safety masks, welding helmets, headrest and combination goggles.

Fine Organics, Inc., 205 Main St., Lodi, N. J.
Solvents, carbon removers, emulsion cleaners, polishers, and disinfectants.

Ford Division—Ford Motor Co., Box 658, Dearborn, Mich.
Ford passenger car with safety features.

Franklin Metal Products, 213-215 N. Des Plaines, Chicago 6, Illinois
Waste cans and drum covers.

Frommelt Industries, Inc., 465 Huff St., Dubuque, Iowa
Wrap-around portable safety welding shield; portable welding screen.

Fyrepel Products, Inc., 160 S. Williams St., Newark, Ohio
High heat protective clothing and equipment for industry, space-military, and fire fighting agencies.

The Fyr-Fyter Co., 221 Crane St., Dayton 1, Ohio
Fire extinguisher, automatic sprinkler systems, electronic alarm systems.

General Fire Extinguisher Corp., 4444 W. Irving Park Rd., Chicago 41
Fire extinguishers.

Gentex Corp., Carbondale, Pa.
Safety helmets, life vests, sound reducers.

Glendale Optical Co., Inc., 600 W. Merrick Rd., Valley Stream, N. Y.
Eye and face protective equipment.

The Globe Co., 4000 So. Princeton Ave., Chicago 9
Safety grating, cable tray, channel and fittings, slotted angles.

Globe Safety Products, 125 Sunrise Place, Dayton 6, Ohio
Resuscitators.

Gojer Inc., Box 991, Akron 9, Ohio
Protective skin coat, skin cleaner, anti-seize and gasket compound.

Golden State Signs, 1260 San Fernando Rd., Los Angeles 65
Safety signs, danger and caution tags, badges.

B. F. Goodrich, Industrial Products Co., 36 Nichols Ave., Watertown 72, Mass.
Industrial rubber safety footwear, and protective clothing.

The Granet Corp., 25 Loring Drive, Framingham, Mass.
Coated fabric work glove.

A. E. Halperin Co., Inc., 20 Thorndike St., Boston 18
Stretchers, first aid kits, and accessories.

Hanover Aeronautical Engineering Corp., 107 Washington St., Hanover, Ill.
Safety cans for flammable liquids, oily towel bins, and excelsior storage bins.

Hawkins-Hawkins Co., Inc., 1255 Eastshore Highway, Berkeley, Calif. 94710
Traffic safety signs and devices. High level warning scope.

Haws Drinking Faucet Co., 4th and Page Sts., Berkeley, Calif.
Emergency eyewash and showers.

Hazard Controls, Inc., 8100 Holman Ave., Delair, N. J. 08110
Warning lights, barricades, signs, reflectors, cylinder clamps, lockouts, ladder shoes, can carriers, flags, and barrier rope.

Warren Heim Corp., 222 N. 5th Ave., Mt. Vernon, N. Y.
Canvas buckets, bags, and protective covers.

Hild Floor Machine Co., Inc., 1217 W. Washington Blvd., Chicago 7
Explosionproof vacuum cleaners and floor scrubbing and polishing machines.

Hilti Fastening Systems, 360 Fairfield Ave., Stamford, Conn.
Power-isolated drive tools that fasten pins and threaded studs into concrete masonry and steel.

HIMCO (Hopfield Industrial Mfg. Co.), 745 A St., San Rafael, Calif.
Safety ladders, and fiberglass safety diving boards.

Holland-Racine Shoes, Inc., 386 W. 15th St., Holland, Mich.
Horsehide and cowhide safety shoes in work and dress styles.

Hygiene Research, Inc., 684 Broadway, New York 12
Hand protective ointments and fogproofing cloth.

Hy-Test Safety Shoes, Div. of International Shoe Co., 1509 Washington Ave., St. Louis 66
Safety shoes and conductive and nonconductive footwear.

Industrial Gloves Co., 700 Garfield St., Danville, Ill.
Industrial clothing and accessories.

Industrial Incentives, Inc., 253 Freeman Pkwy., Providence 6, R. I.
Employee safety education program.

Industrial Products Co., 2820 N. Fourth St., Philadelphia 33
Lightweight rainwear, fluorescent vests, hat covers, barrier rope, flags.

Institute of Industrial Launderers, 1025 Connecticut Ave. N.W., Washington 6, D. C.
Rental service for uniforms, wiping towels, etc.

Insto-Gas Corp., 998 W. Woodbridge Ave., Detroit 7
UL-approved LPG plumbers' torches and furnaces, LPG hand cylinders and torches, LPG salamanders, blower and infrared heaters, and electric infrared heaters.

International Film Bureau, Inc., 332 S. Michigan Ave., Chicago 4
Safety films available on a sales and rental basis.

Interstate Rubber Products Corp., 908 Avila St., Los Angeles 12
Traffic cone system for traffic control.

Iron Age Shoe Co., 1205 Madison Ave., Pittsburgh, Pa. 15212
Work and dress-style safety shoes and safety rubber footwear.

Jackson Products, 5523 E. Nine Mile Rd., Warren, Mich.
Goggles, welding helmets, face shields, safety hats and caps.

Johnson-Williams, Inc., 2300 Leghorn St., Mountain View, Calif.
Portable instruments for detection of toxic combustible gases.

Jomac-North, Inc., 6128 Woodstock St., Philadelphia 35
Chemical and protective vinyl clothing and gloves, and terry cloth gloves and products.

Jones and Co., 861 Broad St., Providence 7, R. I.
Full-vision visor goggles and replaceable lenses.

Junkin Safety Appliance Co., Inc., 3121 Millers Lane, Louisville, Ky. 40216
Interlocking barrier gate guard for power presses; safety shields for grinders; stretcher cases and stretchers.

Justrite Mfg. Co., 2061 N. Southport Ave., Chicago
Safety cans, bench cans, plunger cans. Oily waste cans. Electric lanterns and flashlights for use in hazardous areas.

K & H Industries, Inc., Box 86, Angola, N. Y.
Safety lamp.

Karel First Aid Supply Co., 4342 Ogden Ave., Chicago 23
Medical equipment for industrial hospitals and first aid rooms.

Kelmore, Inc., 599 Springfield Ave., Newark 3, N. J.
Explosion proof refrigerators and freezers.

Kennedy-Ingalls, Inc., 3735 N. 35th St., Milwaukee 16
Protective clothing.

Keystone View Co., Market and Center St., Meadville, Pa.
Occupational visual service, driver vision test service, and gas sensing and recording instruments.

Walter Kidde and Co., Inc., 675 Main St., Belleville 9, N. J.
Portable fire extinguishers, and accessories. Automatic carbon dioxide fire extinguishing systems.

Kimball Safety Products Co., 9310 Wade Park Ave., Cleveland 6
Personal protection devices for employees in industrial plants.

Mathias Klein and Sons, Inc., 7200 McCormick Road, Chicago 45
Linemen's and electricians' hand tools, linemen's safety equipment, wire-pulling tools.

Knapp Brothers Shoe Mfg. Corp., 173 Spark St., Brockton, Mass.
Safety shoes.

J. Kunz Glove Co., 2141 W. North Ave., Chicago 47
Leather and rubber work gloves.

Lapstrap Inc., 443 N. St. Francis, Wichita, Kan.
Automobile safety belts. Rear view mirrors.

Lectron Corp. of America, 9929 W. Silver Spring Rd., Milwaukee 18
Audio-visual training equipment.

Walter G. Legge Co., Inc., 101 Park Ave., New York 17
Safety floor maintenance materials. Personnel and equipment grounding devices.

Lehigh Safety Shoe Co., First and Minor Sts., Emmaus, Pa.
Leather and rubber safety footwear including conductive and electrical hazard shoes.

Lineman Protector Co., 1081 Eton Rd., Birmingham, Mich.
Rubber protective equipment.

Logan Emergency Showers, Box 111, Glendale, Calif.
Emergency eyewash and showers.

Lyn Products, Inc., 44 Industrial Road, Crystal Lake, Ill.
Magnetic safety switch.

Lynrus Finishing Co., Inc., South Water at Union St., Poughkeepsie, N. Y.
Flame retardant process for safety clothing.

Thom McAn Shoe Co., 25 W. 43rd St., New York 36
Safety Shoes.

Julian A. McDermott Corp., 1639 Stephen St., Ridgewood, Brooklyn 27, N. Y. 11227
Warning and safety lighting for municipal, industrial and utility use.

McQuarrie Enterprises, 6029 Washington Blvd., Culver City, Calif.
Automobile safety belts.

Machinery Center, Inc., 1201 S. 6th West, Box 964, Salt Lake City 10
Sala Safety Block.

Madigan Electronic Corp., 520 Mineola Ave., Carle Place, L. I., N. Y.
Self powered glow belt, exit sign, pylon street sign.

Martindale Electric Co., 1375 Hird Ave., Cleveland 7
Protective masks and refills, protective eyeshields, and electrical testing instruments.

Medical Supply Co., 1027 W. State St., Rockford, Ill.
First aid kits and accessories. Resuscitation training aids, stretchers.

Metropolitan Life Insurance Co., One Madison Ave., New York 10
Materials for use in community and off-the-job safety programs.

Meyer Machine Inc., Box 114, Red Wing, Minn.
Safety products for the protection of person while climbing.

Micro Switch, A Division of Honeywell, 11 W. Spring St., Freeport, Ill.
Safety interlock switches and electric controls for power machines.

Milburn Co., 3246 E. Woodbridge, Detroit 7
Protective skin creams. Acid-caustic resistant and clean room work clothes.

Miller Allied Corp., 2425 Santa Clara Ave., Alameda, Calif.
Material handling slings and adjustable lifting safety beams.

Miller Equipment Co., Inc., 13th and New Sts., Franklin, Pa.
Linemen's safety equipment and accessories.

Mine Safety Appliances Co., 201 N. Braddock Ave., Pittsburgh 8
Complete line of safety equipment for industry and mining.

Minnesota Mining and Mfg. Co., 2501 Hudson Road, St. Paul 19
Filter mask, heat reflective fabric, abrasive flooring, safety masking tape.

Mott Corp., 500 Shawmut Ave., LaGrange, Ill.
Safety mowers.

National Chemsearch Corp., Box 10087, Dallas, Texas
Safety solvent; cleaners; degreaser; disinfectants; weed killers detergents; insecticides; and water treatments for industry.

National Medical Supply Co., 6121 W. Belmont Ave., Chicago 34
Medical supplies, instruments, equipment, and drugs for industrial medical departments.

Newco Mfg. Co., Inc., 3636 Main St., Kansas City, Mo. 64111
Wire rope fittings, minature slings, and a minature crane demonstrating various lifts.

Norman Industries, Inc., 814 Diversey Pkwy., Chicago 14
Complete line of traffic control mirrors and security devices.

Occupational Hazards, 812 Huron Road, Cleveland 15
Occupational Hazards Magazine.

E and J Resuscitators—Ohio Chemical and Surgical Equipment Co., 1400 E. Washington Ave., Madison 10, Wis.
Resuscitation and oxygen breathing apparatus.

Onox, Inc., 121 Second St., San Francisco 5
Skin-toughener solution for the treatment of athlete's foot.

Osborn Mfg. Co., Box 271, Warsaw, Ind.
Safety pliers, lockout devices, mufflers, and stretcher cases.

Oxygen Equipment and Service Co., 8335 S. Halsted St., Chicago
Resuscitator, inhalator, and aspirator.

Pac-Kit Safety Equipment Co., Inc., 1 Seneca Pl., Greenwich, Conn.
Industrial and vehicle first aid kits.

G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis
Hand cleaners, waterless cleaners, germicidal cleaners, sanitizing compounds, and maintenance cleaners.

Patent Scaffolding Co., Inc., 38-21 Twelfth St., Long Island City 1, N. Y.
Wood and light metal ladders and stages, steel and aluminum scaffolds.

Pfizer Laboratories, 235 E. 42nd St., New York 17
Hand-operated apparatus for applying artificial respiration.

Pinkerton's National Detective Agency, Inc., 100 Church St., New York 7
Applicant investigations, uniformed guards, surveillance, security surveys, sign service, and investigations.

The Pioneer Rubber Co., 1939 Tiffin Road, Willard, Ohio
Industrial gloves.

Portable Light Co., Inc., 65 Passaic Ave., Kearny, N. J.
Portable searchlights, warning lights, and vehicular sirens.

Porto-Clinic Industries, Inc., 298 Broadway, New York 7
Complete portable driver testing and training unit.

The Positive Safety Mfg. Co., 4403 Perkins Ave., Cleveland
Power press safety devices.

Prairie State Products Co., 3822 Lawrence Ave., Chicago
Industrial safety signs.

Protectseal Co., 1920 S. Western Ave., Chicago
Safety containers for the handling, storing, and dispensing of flammable liquids.

Pulmosan Safety Equipment Corp., 644 Pacific St., Brooklyn, N. Y. 11217
Respirators, eye protection, helmets, protective clothing, abestos and leather gloves, safety glasses, first aid kits, and face shields.

Quabaug Rubber Co., 17 School St., North Brookfield, Mass.
Safety tread soles and heels.

RMC Canvas & Rope Co., 428 Atlantic Ave., Brooklyn 17, N. Y.
Safety nets and rope ladders.

Racine Glove Co., Inc., Box 38, Rio, Wis.
Safety gloves and apparel for industry and fire protection, safety specialty products.

Radiant Color Co., 461 W. Erie St., Chicago 10
Daylight fluorescent colors in paints, pressure-sensitive vinyl sheeting and papers.

Radiant Mfg. Co., 8220 N. Austin Ave., Morton Grove, Ill. 60053
Automotive highway warning sign, installed in metal case for permanent mounting on under lid of auto trunk.

Radiator Specialty Co., 1400 W. Independence Blvd., Charlotte 8, N. C.
Traffic guides; cones, lights, flags.

Rainfair, Inc., 1501 Albert St., Racine, Wis.
Wet weather and safety clothing.

Randolph Laboratories, Inc., 1450 Frontage Rd., Northbrook, Ill.
Fire extinguishers and automatic fire extinguishing systems.

Record Industrial Co., 3301 Arch St., Philadelphia 4
Industrial safety shoes, work clothing and work gloves.

Red Wing Shoe Co., 119 Main St., Red Wing, Minn.
Safety workshoes, oxfords, and boots.

J. C. Renfroe and Sons, Inc., 1926 Spearing St., Jacksonville, Fla.
Safety clamps for lifting steel.

Rockwell Mfg. Co., 400 North Lexington Ave., Pittsburgh 8, Pa.
Aetna Drivotrainer.

Rockwell Sprinkler Co., 38 Harlow St., Worcester 5, Mass. 01605
Fire fighting and extinguishing devices.

Rose Mfg. Co., 2700 W. Barberry Pl., Denver
Automotive seat belts. Industrial safety belts, lanyards, nets, and ladder safety devices.

Rubber Fabricators, Inc., Grantsville, W. Va.
Life preservers, life rafts, and protective rubber clothing.

Safeguard Mfg. Co., Pomperaug Ave., Woodbury, Conn.
Guards for power presses.

Safety Box Toe Co., 812 Statler Office Bldg., Boston 16
Steel toes for dress, semi-dress, and work shoes.

Safety Clothing and Equipment Co., 1990 E. 69th St., Cleveland 3
Safety clothing and equipment for industrial workers.

Safety First Products Corp., 175 Saw Mill Road, Elmsford, N. Y.
Portable stored pressure dry chemical fire extinguishers.

Safety First Shoes, Inc., 9th and Greenleaf Sts., Allentown, Pa. 18105
Safety shoes for industry, railroad, and military use.

Safety Research Corp., 515 White St., College Park, Ga.
Rubber safety blade for rotary power lawn mowers.

Saf-T-Boom, Corp., 1613 Main St., Little Rock, Ark.
Dielectric shields for crane booms.

Salescaster Displays Corp., 1010 E. Elizabeth Ave., Linden, N. J.
Illuminated moving message signs.

W. H. Salisbury and Co., 401 N. Morgan St., Chicago
Linemen's rubber protective devices.

Sawyer-Tower Products, Inc., 76 Stanley Ave., Watertown 72, Mass.
Industrial protective, and safety clothing.

Schuberth-American Div. of Tremount Corp., 471 Pompton Ave., Cedar Grove, N. J.
Helmets, safety hats, and caps, safety goggles, and wrap-around protective goggles.

Scott Aviation Corp., 225 Erie St., Lancaster, N. Y. 14086
Respirators, inhalators, and environmental protection equipment.

Scroll Studio, 53 W. Jackson Blvd., Chicago 4
Safety awards.

Searjeant Metal Products, Inc., P. O. Box 74, Mendon, N. Y.
Power press safety guards, and aluminum alloy hand tools.

Selberling Latex Products, 215 Plum St., New Bremen, Ohio
Industrial rubber gloves.

Sellstrom Mfg. Co., Highway 53 at U. S. 14, Palatine, Ill.
Eye and face protective equipment.

The Servus Rubber Co., 1136 Second St., Rock Island, Ill.
Rubber footwear of all types.

Shelter-All Safety Stations, Parkside Ave. at 51st St., Philadelphia 31, Pa.
Highway safety stations for school children.

Showcard Machine Co., 320 W. Ohio St., Chicago 10
"Make your own sign" equipment.

Singer Safety Products, 860 Weed Street, Chicago, Illinois
Gloves, portable welding screens.

Snyder Mfg. Co., Inc., 1458 Fifth St., New Philadelphia, Ohio
Air suits, hoods, splash and dust suits, shoe covers, safety vests, flags, fabric and film laminations, and fiberglass containment closures.

S. O. S. International, Inc., 668 W. 27th St., Hialeah, Florida
Safety vests and raincoats.

Speakman Co., 301 E. 30th St., Wilmington 99, Del.
Emergency eyewash and showers.

The Sperry and Hutchinson Co., 114 Fifth Ave., New York 11
Trading stamps for use as incentives in safety.

Standard Alarm and Signal Co., 67 E. Court St., Cortland, N. Y.
Fire detection systems.

Standard Industrial Products Co. of Ill., 3527 Farmington Rd., Peoria, Ill.
Dunking station smoking receptacles.

Standard Safety Equipment Co., 431 N. Quentin Rd., Palatine, Ill.
Acid and chemically-resistant clothing.

Standard Signs Inc., 3190 E. 65th St., Cleveland 27
Industrial accident prevention signs and road work area protection equipment.

Stearns Automotive Products Co., 92 Gomez St., Winnipeg 2, Man.
Frost and condensation shields for vehicle windows.

Stephenson Corp., Box 1000, Red Bank, N. J.
Radar speed control, breath test for intoxication, resuscitator.

Stephen-William Co., 2014 W. Wabansia Ave., Chicago 47
Safety signs and posters.

Sterling Equipment Manufacturers, 2630 Cherry Street, Erie, Pa.
Traffic guides.

Stonehouse Signs, Inc., 842 Larimer St., Denver 4
Accident prevention signs and tags.

Stop-Fire, Inc., New Brunswick, N. J.
Fire extinguishers.

Surety Rubber Co., North High St., Box 97, Carrollton, Ohio 44615
Safety apparel, gloves, sleeves, aprons, and specialized protective equipment.

Survivair, Division of U. S. Divers Co., 3323 W. Warner Ave., Santa Ana, Cal.
Self-contained breathing equipment. Wet pick-up vacuum unit. Voice amplifiers.

Swiveller Co., Inc., 30 Irving Place, New York 3
Industrial lighting.

Synchro-Mat Equipment Corp., 714 Byrant St., Jackson, Mich.
Audio/visual equipment.

S. G. Taylor Chain Co., Inc., 3-141st St., Box 509, Hammond, Ind.
Alloy steel chain and fittings.

Tirri Distributors, 3016 W. Marion St., Milwaukee, Wisc.
Safety glass accessories.

Timms Optical Co., Inc., 1015 Commerce St., Petersburg, Va. 23804
Safety frames, safety lenses and vision tester.

Tri-Tix, Inc., 100 N. Lake St., Port Washington, Wis.
Safety cones and traffic posts.

Tulareloft, Inc., 300 E. San Joaquin St., Box 248, Tulare, Cal.
Seat belts and harnesses.

Turner Halsey Co., Inc., 40 Worth St., New York
Textiles for safety garments and work clothing.

Union Steel Products Co., 640 N. Berrien St., Albion, Mich.
Wire mesh "Palletainers" for storage, transporting, and handling of finished or in-process material.

United States Rubber Co., 1230 Avenue of the Americas, New York 20
Safety footwear.

United States Safety Service Co., 1535 Walnut St., Kansas City, Mo. 64108
Industrial eyewear and hearing protection.

Vogt Mfg. Corp., 100 Fernwood Avel, Rochester 21, N. Y.
Fluorescent safety clothing and equipment.

Wagner Sign Service, Inc., 218 S. Hoyne Ave., Chicago 12
Changeable copy displays for employee relations and safety programs.

Wamsutta-Pacific Industrial Fabric, 1430 Broadway, New York 18
Flame retardant fabrics.

Watchemocket Optical Co., Inc., 232 W. Exchange St., Providence 3, R. I.
Safety goggles, respirators, face shields and safety signs.

Welsh Mfg. Co., 9 Magnolia St., Providence 9, R. I.
Respirators, safety spectacles, goggles, safety hats, faceshields, and welding helmets.

R. D. Werner Co., Inc., Box 580, Greenville, Pa.
Nonconductive fiber glass ladders, stages, and scaffolds.

Westinghouse Electric Corp., 2519 Wilkens Ave., Baltimore 3
Portable pneumatic pump unit for closed chest cardiac resuscitation.

Wheeler Protective Apparel, Inc., 224 W. Huron St., Chicago 10
Industrial safety apparel.

Whelen Engineering Co., Inc., 42 Kirtland St., Deep River, Con.
Emergency and warning lights, flashers, and beacons.

Williams Jewelry and Mfg. Co., 10 S. Wabash Ave., Chicago 3
Safety plaques, trophies, awards, emblems, badges, and incentives.

Willson Products Div., Ray-O-Vac Co., 2nd and Washington Sts., Reading, Pa.
Personal protective equipment for industry.

The Wilson Rubber Co., 1200 Garfield Ave. S.W., Canton, Ohio 44701
Rubber, neoprene, and plastic gloves.

Wire Rope Corp. of America, Inc., 609 N. 2nd St., St. Joseph 1, Mo.
Wire rope slings.

Daniel Woodhead Co, 15 N. Jefferson St., Chicago
Electric safety equipment.

Workon, Inc., 63 New York Ave., Huntington, N. Y.
Special purpose clothing—acid-resistant, lint-free, static-free and fire retardant.

American Industrial Hygiene Association, 14125 Prevost, Detroit 27
Educational material on industrial hygiene.

American Optometric Association, 4030 Chouteau Ave., St. Louis 10
Educational material on vision and highway safety, and industrial safety techniques.

American Seat Belt Council, 271 North Ave., New Rochelle, N. Y.
An association of independent manufacturers of seat belt assemblies and component parts formed to maintain industry standards.

Chicago Fire Department
Information on the work of the Fire Prevention Bureau.

Chicago Police Dept., Traffic Div.
Traffic safety.

Inter-American Safety Council, 2 Rector Street, New York
Safety publications, visual aids, and films, in Spanish for industrial, highway, and home.

National Medical Foundation for Eye Care, Washington, D. C.

Prevention of Blindness Inc., National Society for the, 16 E. 40th St., New York, N. Y. 10016
Literature and information on industrial and vocational school eye health and safety programs.

President's Committee on Employment of the Handicapped, Washington 25, D. C.
Information on Hire-the-Handicapped Program.

U. S. Department of Commerce, Coast and Geodetic Survey, Washington, D. C.
Small craft safety.

U. S. Department of the Interior, 18th and C Streets N.W., Washington, D. C. 20240
The exhibit directed to Public Safety in national parks.

U. S. Public Health Service, 4th and C St., S.W., Washington 25, D. C.
Information on the dangers of glass doors.

Veterans of Foreign Wars of the United States, Broadway at 34th St., Kansas City, Mo. 64111
The Veterans of Foreign Wars youth activities.

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AUTOMOTIVE and MACHINE SHOP; POWER PRESS and FORGING

NATIONAL SAFETY COUNCIL
425 N. Michigan Avenue
Chicago, Illinois 60611

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Chemical Publishing Company, Inc., New York 10, N. Y.

Toxicity of Industrial Organic Compounds. Ethel Browning.

National Association of Mutual Casualty Companies, Chicago 6, Ill.

Handbook of Organic Industrial Solvents, 2nd edition (1961).

Respiratory Protective Devices

Dusts, Fumes, vapors and gases arising from chemical operations can be controlled for the most part by engineering methods. In some situations, however, the engineering control measures cannot be used or may not be sufficient by themselves or in combinations. Respiratory protective devices may then be used.

For information refer to:

Respiratory Protective Devices Manual. Published by American Industrial Hygiene Association and American Conference of Governmental Industrial Hygienists (1963). Available from Braun and Brumfield, Inc., Box 1203, Ann Arbor, Mich.

Lists of respiratory protective devices approved by the U. S. Bureau of Mines are published periodically and may be obtained from that Bureau, 4800 Forbes Street, Pittsburgh, Penn.

American Standard Safety Code for Head, Eye, and Respiratory Protection, Z2.1 (1959). Published by American Standards Association, Inc., 10 East 40th Street, New York 10, N. Y.

Periodicals:

National Safety News—Published by National Safety Council, 425 North Michigan Avenue, Chicago 11, Ill.

Chemical Week—Published by McGraw-Hill Publishing Co., McGraw-Hill Building, 330 W. 42nd Street, New York 36, N. Y.

Industrial and Engineering Chemistry—Published by American Chemical Society, 1155 Sixteenth Street, N. W., Washington, D. C.

American Industrial Hygiene Association Journal—Published by the American Industrial Hygiene Association, 14125 Prevost, Detroit 27, Mich.

Archives of Environmental Health—Published by American Medical Association, 535 North Dearborn Street, Chicago 10, Ill.

Journal of Occupational Medicine—Official Publication of the Industrial Medical Association, 55 East Washington Street, Chicago 2, Ill.

Industrial Medicine and Surgery—Published by Industrial Medicine Publishing Company, Miami, Fla.

THEORY, APPLICABILITY AND DESIGN OF AN EXPLOSION SUPPRESSION SYSTEM

By R. J. KEATS

Mgr., Manufacturing Engineering, Chemical & Metallurgical Div., General Electric Co., Pittsfield, Mass.

The only system of its kind in operation within the General Electric Company and known to be the only installation of its kind on phenolic molding compound in the United States, the Fenwal explosion suppression system, now installed and operating in Pittsfield, Mass., is a welcome addition to the field of explosion protection.

Description

The system consists of three basic components—the sensors, the control unit, and the inerting or quenching devices. In the design of the protecting system, the first action to be taken was selection of the most probable locations for a potential explosion. Two areas in the phenolic manufacturing process stream were selected, namely, points where grinding was to take place. Here the combustible source, the dust generated in grinding, is present. There is sufficient oxygen present to bring the dust to oxygen ration within the explosive range. Here also, and the basic reason for select-

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MINING INDUSTRY

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OCCUPATIONAL HEALTH NURSING

NATIONAL SAFETY COUNCIL
425 N. Michigan Avenue
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try, the physician has a special opportunity to guide the safety program through his medical understanding of health principles when the personnel man, working alone, may lack specific training in health and safety problems.

After the conclusion of the three papers, we hope there will be questions. There is in this room an accumulation of skills and know-how in the promulgation of safeguards against industrial injury and disease that should produce a lively discussion. We hope that you will feel free in your questions to be critical and inquisitive. Most of all, we hope that a contribution in this discussion will be made to a broader understanding of how each of us can improve safety practices for industrial workers.

Before introducing our speakers, I would like to make one comment which may possibly improve the understanding of all of us in the consideration of teamwork for safety. I think most of you in this audience have been schooled to look upon safety as a matter of controlling the physical working environment. As safety engineers, many of you are particularly concerned with safety equipment, protective devices, methods of safe operation, ventilation, shielding and prevention of exposure to toxic substances. These are all extremely important aspects of the control of the working environment. All power to you who have learned these physical techniques of control.

However, you are going to find in these papers that our speakers will be talking more about the human being who works in this environment, his emotional problems, his training, his partial disabilities and the hazards to safety produced by his reactions with his fellow workers, and with the environment. I suggest that you keep your ears alert to the *clinical* approach of our speakers toward this human being on the job.

It is largely in this field of the behavior of the human being that the physician and nurse make contributions to your safety programs. The slang phrase has it that it takes two to tango. We in medicine are concerned with the person who gets hurt somewhat more than with the physical environment that hurts him. Both are important. So try to take note of the *employee's* part in the prevention of injury when you listen to our three speakers. You people deal with the engineering of the physical environment. We deal in human engineering. It takes both to make an effective team.

LARGE PLANT MEDICAL AND SAFETY PROGRAM

By DANIEL C. BRAUN, M.D.
Assist. Medical Dir., Divisions and Associated Subsidiaries
United States Steel Corp., Pittsburgh, Pa.

When I first saw the title of the panel discussion, I was surprised and dismayed to note the use of the word "meddle" as applied to the efforts of physicans and nurses in the safety activity. After some weeks of quiet cogitation, however, I am prepared now to admit that in all fairness, you are entitled to list it so—not because I feel that the medical department has any less responsibility for safety, but simply because of the fact that if this were a medical convention, rather than a safety conference, it might well be that a similar panel would be discussing the "meddling" by safety engineers in the medical program.

Certainly we are entitled to our separate viewpoints, if indeed there is any real difference between them. I am sure, however, that the program chairman simply was indulging in a little humor, expressive of the warmth of feeling and mutual respect that has been engendered by the close association which medical and safety personnel enjoy in industry today. I think I might say that we are compatible—and it is well that this is so since in this day and age, both safety and industrial medicine are *team* efforts which can reach their goals only by diligently following the team approach.

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