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56th NATIONAL SAFETY CONGRESS

Papers Delivered in the

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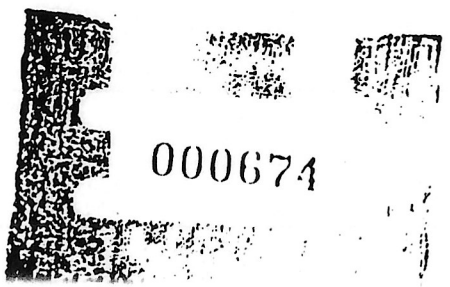
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*Deceased

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3. Safety Tipping stressed as a means of achieving total safety

C. Managers participate actively on the safety team.

1. Managers exercise safety leadership through Safety Project Planning Committee.
2. Management *Newsletter* highlights safety.
3. Basic safety responsibilities for management thought out, spelled out, and carried out.

D. Accident control insured by equipment operator training (e.g., fork lift, front end loader, crane, grinder, burner, railroad).

E. Safe attitudes, actions, and habits recognized and rewarded.

1. Safety suggestions earn monetary rewards
2. Safety certificates awarded for sustained safety performance.
3. Contests provide incentives for making safety a way of living
4. Award jacket for safe crane operation spurs job performance and pride.

IV. Measuring Results

A. Here are some of the benefits obtained through expanded accident control activities, covering both injury control and damage control:

1. Safer plant environment
2. Fewer serious injuries
3. Increased quality control
4. Less delay of production
5. Equipment value awareness
6. Reduced operating costs
7. Better profit picture.

B. Property damage severity rate slashed.

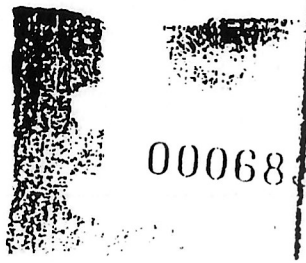
1. $325,515 per million hourly rated manhours in the base year (1959).
2. $116,480 per million hourly rated manhours last year (1967).
3. Total accident control program reduced damage loss by 62 per cent.

Summing Up

Safety psychology is essential to the effective application of safety engineering. To put needed emphasis on the psychology of safety, the traditional three E's (Engineering, Education, and Enforcement) must be expanded to encompass two more (Energizing and Example). These additions focus on the powerful forces of positive motivation.

Three of safety psychology's vital tools are communication, education, and motivation. Communication is getting understanding among people. Education is changing the knowledge, attitudes, skills, and habits of people. Motivation is moving people to action. People have feelings, frustrations, joys, sorrows, wishes, wants, drives, desires, dreams, weaknesses, strengths, goals, aspirations, fears, and ambitions. People are fascinating, frustrating, dynamic, changing beings. A great variety of tools and techniques is necessary for communicating, educating, and motivating people toward total accident loss control.

Highlights of how damage control was made an integral part of safety at Lukens Steel Company illustrate tried and tested tools of safety psychology in action. Results? Fewer injuries. Less damage. Cost savings. In brief, positive results for three primary aspects of industry: People — Property — Profits.



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[illegible] Area—W. G. Bowman, Admin. Asst., Assoc. Equip. Distributors, Oak Brook, Ill.; L. A. Bratton, Executive Director, Steel Plate Fabricators Assn., Chicago, Ill.; Robert E. Collins, Exec. Vice President, Southern Cotton Ginners Assn., Memphis, Tenn.; Leonard Freed, Mgr. Safety & Member Services, Ohio Contractors Assn., Columbus, Ohio; Jefferson Keith, Managing Dir., American Metal Stamping Assn., Cleveland, Ohio; George Kelter, Dir., Assn. Saf. Services, Employers Ins. of Wausau, Wausau, Wisconsin; H. McRae, Bldg. Const. Emp. Assn. of Chicago, Chicago, Ill.; E. C. Merkle, Managing Director, Natl. Flexible Packaging Assn., Cleveland, Ohio; Harold Regan, Safety Coordinator, Amer. Paper Inst. Inc., Chicago, Ill.; Field Rollins, Manager, Admin. Services, Gypsum Assn., Chicago, Ill.

mittee is to make management aware of the benefits of safety efforts and to educate workers. Joint safety seminars are held at scheduled intervals from four to seven months. Films are shown, panel discussions held, demonstrations given, and particular subjects are discussed, such as "X-ray and effects of radiation on the human body." Company representatives are also invited.

A campaign emphasizing the importance of defensive driving was launched the first week of June involving a questionnaire, visual aids, such as posters, and newspaper and radio coverage. They are enlarging the scope of their off-the-job safety activities and cooperating with local safety council organizations and community officials.

Award of Honor to

UNITED STEELWORKERS LOCAL 6500

Sudbury, Ont., Canada

This local is receiving recognition for the third time. They received an Award of Merit for 1965 and the Award of Honor for 1966. They have now qualified for another Award of Honor for activities conducted during 1967. Their efforts have assured the continuity that is so important in keeping a good safety program going and growing.

They continue to give extensive publicity to safety through local television, plant bulletins, and their own paper. Safety training is a vital part of their program for union members.

They have accelerated their activities and improved present ones, so that the Awards committee judges agreed they deserved to receive the top award again.

Award of Honor to

INTERNATIONAL LONGSHOREMEN'S ASSOCIATION

New York City

This international union received an Award of Merit for the year 1964, and now they have qualified for the top award — the Award of Honor — for 1967.

The International has consistently promoted safety in its publications. They have expanded their activities from the Port of New York and vicinity to the entire Atlantic coast and Gulf area and the Great Lakes. Safety training receives top priority. An example is the 12-hour training course on "Handling Dangerous Cargoes" given in Milwaukee. They participate in committees of the USA Standards Institute. They have assisted in waterfront fire prevention month, which included safety demonstrations. Correspondence and testimony on behalf of the Occupational Safety and Health Act of 1968 has taken hours of their staff time.

The judges noted the significant acceleration of safety efforts and agree that the International Longshoremen's Association truly deserves the Award of Honor.

Award of Honor to

OIL, CHEMICAL AND ATOMIC WORKERS LOCAL NO. 4-447

Destrehan, La.

This makes the fourth time that this local has received recognition for safety activities. They were granted the Award of Merit for the years 1964-65-66.

This local has significantly accelerated their accident prevention work over the previous years. A major activity was a "Poison Prevention Week;" the National Drivers Test was again extensively promoted among their members; they conducted the annual Christmas holiday safety campaign; and also the annual Labor Day safety campaign. They are active in the entire metropolitan New Orleans area. The local is made up of 11 groups, each group employed by a different company. Each group leader is also safety chairman. All groups elect an overall safety director to coordinate and promote union safety activities.

The judges commend this local for increasing its safety efforts and agree they deserve the highest possible recognition.

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Citation for Distinguished Service to Safety to

JULIUS N. JACOBSEN, Safety Chairman,
Oil, Chemical, and Atomic Workers Local 4-447, Destrehan, La.

The judges were impressed with Brother Jacobsen's tenacious efforts on behalf of safety in his local union. The documented material vividly revealed the many extensive activities he promoted and participated in. It also showed the amount of time and energy he unselfishly put forth to promote safety.

The judges noted the many areas of activity in which he is engaged, including safety training, and the fact he was not deterred in achieving noteworthy goals. The Awards committee of the Labor Conference warmly commends him for his solid achievements.

OCCUPATIONAL HAZARDS—MAKING THE INVISIBLE VISIBLE

By RALPH NADER
Attorney, Author, Safety Critic, New York, N. Y.

The chief forms of domestic violence affecting American working men and women are motor vehicle crashes and occupational dangers and diseases. Taken together or singly, their toll in death and injury utterly dwarfs the violence incurred through street crimes. While the nation is properly concerned about street crime, it virtually ignores the far greater death, injury, and wage losses on farms, in mines, factories and open work areas such as construction sites. Consider one comparison out of many that could be detailed: all the riots in this country during the past three years in our cities have led to about 260 dead; each working day brings death to 55 workers, disabling injury to 8,500 workers and lesser injuries to 27,200 other laborers. Every year, 14,000 to 15,000 workers die, over half a million are disabled by occupational diseases, over two million are disabled by occupational accidents, and over seven million are injured. The toll is even greater than indicated by the above data because death through toxic exposure over time to chemicals or particulate matter is rarely recorded. The half million plus workers disabled from the effects of asbestos, beryllium, carbon monoxide, coal dust, cotton dust, cancer causing chemicals, dyes, pesticides, radiation etc. must be taking terminal doses over time from some of these exposures. There is another reason why the above data must be considered understated—a reason which leads to the first of six realities which should be recognized publicly before significant progress can be made to reduce worker injury and disease:

1. Under-reporting by industrial firms of actual injuries and disease experienced by laborers has long been an endemic managerial disease. First, the definition of what constitutes an injury is decided by an industry-dominated body called the United States Standards Institute of America—a group of industries and industry technical societies. Second, companies go to considerable length to avoid reporting a lost time injury—not only to keep their insurance rates down but to preserve their place in safety competitions. For example, a worker in a Jones & Laughlin steel plant received a groin injury; he was taken off his usual job and placed in a chair where he sat doing nothing for two weeks. Any blue-collar man knows that such a practice is not unusual in numerous industries.

2. Plant physicians surrender to or are constrained by corporate dictates as to the exercise of their medical judgment and right to publication of cases in the medical literature. A recent case in point involved a Dr. John Zalinsky, a physician at the Brush Beryllium plant outside Cleveland, who had cases of workers suffering from beryllium poisoning and wanted to publish them in a

medical journal (without mentioning their names, of course). He was told if he did he would have to look for another job. The doctor had a bad heart and was concerned about looking for other employment. Before he could do anything, he died of a second heart attack.

Dr. Lorin E. Kerr of the United Mine Workers Welfare and Retirement Fund, an authority on coal workers' pneumoconiosis (or, as the coal dust disease is popularly called, "black lung"), has sharply denounced "the attitude and influence of employer-oriented physicians who avoid facing known facts about the ravages of coal dust in human lungs because to do otherwise would cost money. The impact of physician knowledge and attitudes is apparent in inaccurate or incomplete death certificates. These documents are essential for determining the existence of a dangerous dust requiring governmental action for control or eradication. Too often, no records mean no action. Physician denial or avoidance of known facts can also determine the publication of information. In 1956, the concern of some physicians about management attitudes effectively blocked the publication of a paper of mine on coal workers pneumocconiosis in the most widely circulated medical journal in the United States. One can only wonder how many times other medical information vital for the protection of the health of workers has not been published for the same reason. Physician attitudes also influence other groups such as company lawyers, state legislators, and officials who, all-told, are remarkably resistant to the elimination or control of coal dust because it would cost money."

Coal workers' black lung or pneumoconiosis affects at least 150,000 active and retired miners in advanced stages of lung destruction. Two thousand men die from this disease in Pennsylvania every year. What Dr. Kerr was referring to was a critical rupture in the recording and communicating of data by members of the medical profession.

3. State safety laws and regulations are weak, inspection is poor, and penalties rarely imposed. The states spend an average of 40 cents per worker per year on industrial safety. Some states such as Texas and Oklahoma have taken this down to two cents per worker per year. Of the 1,524 state inspectors, 697 inspect boilers, elevators and mines, leaving only 827 inspectors for general safety inspection, construction, safety promotion and education, health, and industrial hygiene, according to the Bureau of Labor Statistics. (There are almost twice as many fish and game wardens — about 3,000 — employed by the states to look out for wildlife.) Four states have no safety inspection staff in any area and 17 other states have 10 or less on their safety inspection staffs. More shocking is the fact that only three states have staffs specializing in the area of occupational health and industrial hygiene.

4. By and large, union leaders have been far too pliable when confronted by management's inaction or decisions regarding worker health and safety. Too often, health and safety conditions are treated as trade-offs for more tangible union gains in wages at the collective bargaining table. This has been the case, for example, with the United Mine Workers leadership, which finally is becoming slightly aroused over the plight of their workers but little dedicated to overturning coal management's modus operandi that treats coal miners as being less expensive than coal. Union leaders simply do not give health and safety a first rank priority; their lack of aggressive lobbying for the proposed Occupational Safety and Health Act of 1968 in Congress cannot be covered up by resolutions and resonant statements for the records. Labor leaders are wanted on the ramparts, not just on the record.

5. The Federal government has abdicated its responsibility to devote funds toward effective research programs and training programs for occupational health and safety. The Department of Health, Education, and Welfare (HEW) has had no sense of the importance of this problem, the need to develop preventive systems and competent medical and engineering personnel. HEW's advocacy has been weak and, if anything, the occupational health activity in the Department has been downgraded recently. The one area where HEW has received some consistent funding—$5 million since 1953—for research on the causes and prevention of coal workers' pneumoconiosis has had little to show for it, apart from a prevalence study completed three years ago. It is dismaying to note that not only does Western Europe spend twenty times the level on research in the coal dust disease area, but control measures are years ahead of this country, which does not even have coal dust standards in force.

6. The workmen's compensation system in this country—its coverage, benefits, and deterrence—is creaking with obsolescence. A thorough inquiry is needed and serious thought should be given to uniformity. Not only are there irrational or politically inspired differences between states but some states are still mired in a value system of a bygone age. For example, coal miners' black lung disease is not considered work-related by the compensation laws of all states, except Pennsylvania (1965), Virginia (1968), and Alabama. Such human derelicts, spitting up coal dust, struggling for breath, afflicted with emphysema, massive fibrosis, or enlarged heart, are denied workmen's compensation in such states as West Virginia, Kentucky, Ohio, and Illinois. In Kentucky, according to the state's Department of Labor, about 1,400 out of 2,000 mines licensed to do business do not comply with the workmen's compensation law for other mine injuries apart from black lung. Yet,

the present governor and his predec have not considered law and order applicable to coal operators.

Where does this leave the National S Council? Certainly, it does no servic truth and candor to hide the fact tha Council's industrial members and con ency take a strong interest in how fa Council goes in the occupational health safety area. That interest, to use a word, resulted in the Council's being p in a difficult position regarding the Occ tional Safety and Health Act of 1968. S observers believed that the Council retr from a relatively positive position on bill in February to a statement mor consonance with industry's preferences a months later. For the Council, it is the old dilemma of "to be or not to be" has plagued its potential independence other safety areas. If the Council is t true to its potential in occupational he and safety, it cannot ignore at least of the above-noted problems obstruc progress toward more humane wor conditions.

LASER BEAM PRECAUTIONS

By WILLIAM McCULLOUGH
Collective Agreement & Grievance Officer, Canadian Union of Public Employees
Ontario Hydro Employees Local 1000, CLC, Toronto, Ont.

Before we consider the hazards and precautions for the safe use of the laser beam, we should understand what it is. The name laser is an acronym for light amplification by stimulated emission of radiation. The original concept was invented by Dr. Townes in 1955. In 1958 Dr. Townes and Dr. Arthur Schawlow gave a paper on how to construct an optical maser. The name maser is an acronym for micro-wave amplification by stimulated emission of radiation. An optical maser is a laser.

In 1960 Dr. Theodore Maiman, a scientist then working with the Hughes Aircraft Company, gave the world's first demonstration of a laser beam. In 1964 Dr. Townes won the Nobel prize for his work on the theory of lasers.

The light that comes from a conventional light source radiates in all directions in waves of varying lengths that reinforce or cancel each other. Because it is non-directional and of varying wavelengths, it is said to be incoherent. Light from a laser beam travels in only one direction and is all the same wavelength, so that it reinforces itself and is known as coherent light. Because it travels in one direction in straight lines, it is a very narrow beam.

To obtain a directional beam from an incoherent conventional source of light it must be focused, and even then it soon spreads it's beam again. Ordinary light sources usually heat units such as incandescent light are lights, etc. In a neon tube the glass will remain cool but the electrons activate the neon atoms within the glass tube and accelerate them to levels normally found at high temperatures. The atoms of the source material are brought to a continuous excited state and they fall back to normal by losing energy through heat and visible light

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tion today is the permanent press finish which involves quite a number of different chemicals, only a few of which would be used at any one time. Many of the finishes had been used for quite a few years prior to the durable press revolution, but in smaller quantities added on and generally with a washing-off stage in mill processing which eliminated unreacted or excessive amounts of material. With the advent of permanent press, substantially greater amounts of finish were applied by the mill and left on the fabric in an uncured state. The garment manufacturer then fabricated garments and cured the fabric finish. He is unable to wash off excess material so we have to be sure there will be no dermatological reactions from such finish on the first wearing of the garment.

At one time the cutting and sewing of uncured fabrics was quite a problem due to the release of fumes which bothered the operators, sometimes to the point where people would quit their job rather than work in the contaminated atmosphere. Air filtration systems have now been developed which remove these fumes as fast as they are released. After proper curing the problem does not normally exist, as the chemical in a properly cured fabric is tied into the fabric molecules.

Another type of fabric finish we watch very closely is the anti-microbial material used to prevent odor from developing or to protect fabrics from mildew. No mercu[ry] containing chemicals are permitted by Se[ars]. Checking on these is a fairly simple chem[ical] analysis, as just the presence of mercury enough to cause rejection. Other types bacteriocides must be checked for toxi[city] and dermatological effects; this is norm[ally] done by the manufacturer, using large pa[nels] of test subjects under medical supervision we feel we should recheck such a rep[ort] we contract with facilities outside Sears w[hich] are set up to make this type of investiga[tion].

Just about any substance, natural or s[yn]thetic, fiber, dyestuff or finish, can cause allergenic reaction in some people. In c[ertain] cases, the frequency of occurrence is so s[mall] that it is not detected in any test, even involving several thousand subjects. course, if any adverse reactions are repo[rted] in such a test, the product is modified. O[bvi]ously, we cannot ourselves run tests du[pli]cating those already made by manufacture on the thousands of materials sold. We r[ely] on official statements from the sources, b[ut] on their own tests. If any of our mill[ions] of customers were then to complain abo[ut] health problem due to some compound t[hat] has been used, we would immediately re[ex]amine the situation and take corrective s[teps]. I have no personal knowledge that such situation has occurred, which is a pr[ime] good indication of the reliability of American textile and chemical industries.

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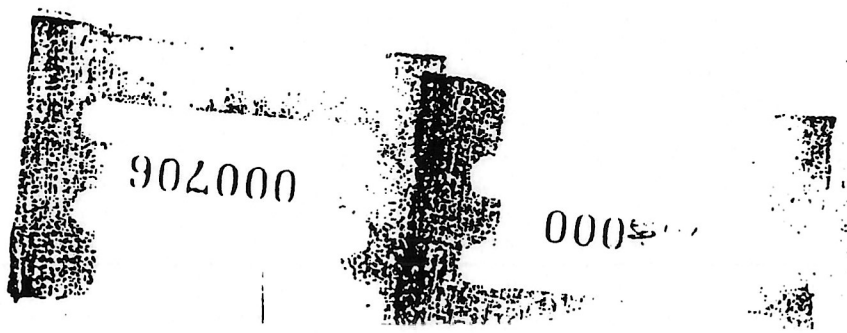
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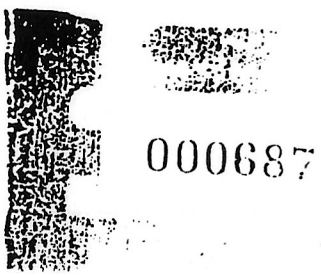
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*Deceased

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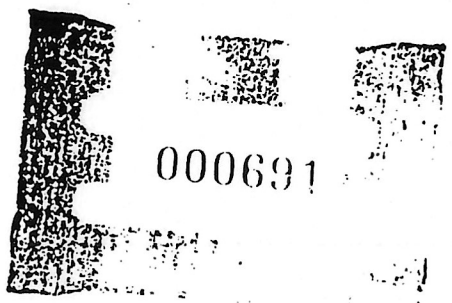
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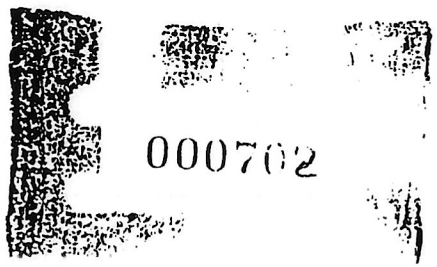
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