

# Lead Industry Shows Optimism For Continued Market Expansion

(Continued from first page)

Mr. Hubbell explained how his company and other aluminum enamellers can now produce porcelain enamel that contains lead oxide that results in a high quality product for architectural applications. He pointed out that the durability of the glass formed in enameling augments the high strength and light weight of aluminum to produce attractive structural components that have excellent life expectancy.

Discussing "Lead Research Formula for Industry Progress," Schrade F. Radtke, research director, International Lead Zinc Research Organization, told the industry representatives that significant progress has been made in the past year through I.L.Z.R.O. research in two prime lead marketing areas—lead metallurgy and acoustical uses.

Dr. Radtke said dispersion strengthening has opened up an entirely new field of lead alloy exploration. "These alloys," he added, "offer higher strength, and increased corrosion, creep and fatigue resistance." He told the meeting that emphasis has been placed on the alloy developments since they serve as a base for generating, or increasing, numerous lead markets as a result of improved alloy properties.

## Acoustical Field

In the acoustical field, improved design techniques, utilizing light-weight panels, have helped lead to penetrate this market, Dr. Radtke said. "Extensive data are being compiled on performance parameters for lead in movable partitions, over-the-ceiling applications, plenum chambers, doors, access partitions and other commercial uses."

In a report to L.I.A. members, Robert L. Ziegfeld, the association's executive vice president, surveyed growth possibilities for lead in the future. He said the idea that gasoline additives or storage batteries could ever have accounted for their present rate of consumption would have been considered preposterous earlier in the century.

But today there are a host of interesting new applications for lead, Mr. Ziegfeld declared, although he said he did not expect all of them to grow to major proportions in the over-all marketing picture. He did, however, speculate that one or more of them may be a major marketing outlet for lead in the foreseeable future. For example, he cited new uses for storage batteries in personnel transportation and appliances, magnetic leaded ferrites now under consideration for monorail trains, leaded porcelain enamels, and a few others.

## Sport Shooting

Charles Dickey, director, National Sport Shooting Foundation, told the gathering that a remarkable growth has occurred in sport shooting during the past several years. He pointed out that each year since 1961 lead consumption in sporting ammunition has gained steadily. For example, he said, 45,800 tons were consumed in 1961. In 1964 consumption rose to 56,500 tons and indications are that 1965 will show a further rise. But, he added, of concern to sporting people are the many bills now under discussion which propose anti-gun legislation.

Lead use in power reactors is expected to rise sharply over the next 15 years, James H. Thomas, editor, Nucleonics Magazine, said.

In addition, nuclear merchant ships, miscellaneous nuclear uses, and irradiation by isotopes, are also expected to expand, resulting in more lead being used in the nuclear field.

Robert A. Kehoe, internationally known authority on industrial toxicology, was honored by the presentation of a plaque in recognition of 30 years of service. The occasion was a special luncheon yesterday.

The plaque is the most recent of many honors accorded Dr. Kehoe for his pioneering work in environmental medicine, trace metal metabolism, and related fields. The Industrial Medical Association, of which he is a member, has given him its highest honor, the William A. Knudsen Award. He has been similarly honored by being named Cummings Memorial Lecturer by the American Industrial Hygiene Association, of which he is past president.

The simple lead plaque awarded him by the luncheon expressed the respect he has won in his work with lead toxicology in particular. His work in this field began in the very early days of mass manufacture of automobiles with the purpose of achieving safety and high health standards in the manufacture and use of tetraethyl lead for gasoline. The excellent record maintained in this area can be traced largely to work performed by Dr. Kehoe.

## Rolled Zinc

(F.o.b. Mill)

(Effective October 20, 1964)

### Strip Zinc

Plain or frosted finish ..... 25.00c

### Sheet Zinc

Base: 5-26 ga., 36"-48" wide, 72"-82" long ..... 31.00c

### Zinc Plates

1/2" x 36" x 36" ..... 24.00c

### Quantity Extras

For single shipments to one destination:

(Effective August 7, 1964)

| Base                              | Base  |
|-----------------------------------|-------|
| 23,000 lbs. and over              | 1 lb. |
| 18,000 lbs. and under 23,000 lbs. | 1.50c |
| 9,000 lbs. and under 18,000 lbs.  | 2.50c |
| 3,000 lbs. and under 9,000 lbs.   | 3.00c |
| 1,000 lbs. and under 3,000 lbs.   | 3.75c |
| 500 lbs. and under 1,000 lbs.     | 6.50c |
| 100 lbs. and under 500 lbs.       | 6.50c |

## Lead-Zinc Quota Entries

(In Pounds)

Entries to

April 28

Quota

| Lead Bearing Ores | full Apr. 1 | 11,220,000 |
|-------------------|-------------|------------|
| Australia         | 562,602     | 5,640,000  |
| Bolivia           | 11,692,189  | 12,440,000 |
| Canada            | 15,833,304  | 16,160,000 |
| Peru              | full Apr. 1 | 14,580,000 |
| So. Africa        | 3,054,806   | 6,590,000  |
| All others        |             |            |
| Total             | 57,242,091  | 67,300,000 |

### Lead Bullion, Etc.

|            |            |             |
|------------|------------|-------------|
| Australia  | 3,157,436  | 22,540,000  |
| Canada     | 3,406,280  | 15,020,000  |
| Mexico     | 10,730,146 | 36,880,000  |
| Peru       | 4,840,585  | 12,580,000  |
| Yugoslavia | 2,207,715  | 15,780,000  |
| All others | 870,275    | 6,080,000   |
| Total      | 25,212,837 | 110,060,000 |

### Zinc Ores

|            |             |             |
|------------|-------------|-------------|
| Canada     | full Apr. 1 | 66,480,000  |
| Mexico     | 7,588,562   | 70,480,000  |
| Peru       | 30,178,835  | 35,120,000  |
| All others | 12,767,883  | 17,540,000  |
| Total      | 97,315,400  | 189,620,000 |

### Zinc Blocks, Etc.

|                      |             |            |
|----------------------|-------------|------------|
| Belgium & Luxembourg | 778,683     | 7,520,000  |
| Canada               | 22,204,000  | 37,540,000 |
| Congo                | 3,141,612   | 5,440,000  |
| Italy                |             | 3,600,000  |
| Mexico               | 3,157,240   | 6,320,000  |
| Peru                 | 2,588,612   | 2,750,000  |
| All others           | full Apr. 1 | 6,050,000  |
| Total                | 38,440,357  | 70,580,000 |

NOTE:—Above quotas all under control—cannot be released by the customs collector to the importer without authorization from the Bureau of Customs, Washington, D. C. Some metal entries are placed under control only when nearly filled (Canada and Mexico, for example). Until then, entries are listed by the Customs Bureau only once a week, usually Monday.

## Lead Industry Confident On Market Expansion

By James V. Stafford  
Metal Market Staff Writer

CHICAGO—A record attendance here at the 37th annual meeting of the Lead Industries Association, Inc., yesterday heard optimistic reports on the state of their industry with the emphasis on growth in specific marketing outlets—both old and new.

Robert Hendricks, executive vice president, Consolidated Mining & Smelting Co. of Canada, Ltd., presided as chairman of the opening session. In an introductory talk, Mr. Hendricks said the primary emphasis of producers should be the continuing availability of supplies. He said that Cominco is stepping up its output and in addition new production will be coming onstream in two years.

Simon D. Strauss, vice presi-

ing Co., L.I.A. president, introduced the speakers at yesterday's morning session.

Consumption by lead's largest marketing outlet—automotive batteries—is expected to rise, according to a forecast by F. J. Port, vice president, Electric Storage Battery Co. and president of the Association of American Battery Manufacturers.

In his paper, presented by Robert Geller, ESB, Dr. Port predicted that the current market of 39 million automotive batteries annually will rise to 45 million in four years, or by 1969.

A relatively newer market for lead—porcelain enamels for aluminum has gone through its "problem" period and the outlook now is quite optimistic, Dean S. Hubbell, vice president, H. Robertson Co., told the meeting.