

Engineers NEWS

A DIGEST OF ENGINEERING DEVELOPMENTS

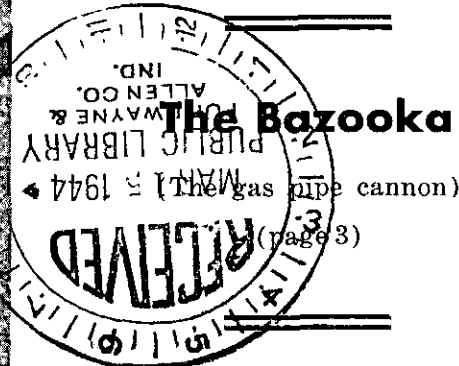


Carl J. Madsen

Wetsinghouse Electric and
Manufacturing Company

"Modern Trends in Industrial Electronics"

DINNER 6:30 — MEETING 8:00



Stolen Fun and Wisdom

(page 4)

Carlson at 66%

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Grady Roark, Editor, G. E. Co. A-2441
 J. E. McNamara, Managing Editor G. E. Co.

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NO. 7

PRESIDENT'S MESSAGE

This rather brief message will merely advise you that there will be no April luncheon meeting. Attendance at the February and March meetings was so low as to not justify the obtaining of speakers of the caliber which we have been having. The Council therefore has decided to omit the April luncheon. We may or may not resume these luncheons in May.

Much interest was shown in Mr. R. C. Muir's talk at the February regular meeting. If sufficient interest is prevalent, the club will duplicate the formal text of this talk and forward it to interested members. If you wish a copy of Dr. Muir's talk, please send me a note to that effect. If as many as 30 or 40 members signify such a wish we can justify the expense. The title of the talk was "The Engineer's Position in Society." In this manner you could also have available those four "new" words which Dr. Muir mentioned.

LEW Z. GOSSMAN.

V

INDIANA ENGINEERING COUNCIL

A meeting of the Administrative Council of the Indiana Engineering Council was held at Indianapolis on Friday, March 3rd. L. Z. Gossman represented the Fort Wayne Engineers Club and the Fort Wayne Section A. I. E. E. at this meeting.

The resolution opposing the Kilgore Bill prepared by Kronmiller and Gossman was accepted and the committee discharged. Copies of this resolution will be forwarded to Indiana Senators and the members of the Senate Sub-committee considering the bill.

A membership committee was appointed to invite additional societies whose requirements of membership are suitable to become affiliated with the Indiana Engineering Council. A Legislative Committee was also appointed to watch out for the interests of the engineer at the forthcoming special session of the legislature.

A report was heard from the Public Relations Committee which had met at an earlier hour on March 3rd. This report was entirely preliminary in nature.

L. Z. GOSSMAN.



CARL J. MADSEN

"Modern Trends in Industrial Electronic Applications" will be the subject of a talk to be given by Mr. Carl J. Madsen, Westinghouse Electronic Engineer, at the March 16 meeting of F. W. E. C. to be held at the Chamber of Commerce.

Mr. Madsen, who graduated from the University of Nebraska, has been with Westinghouse for more than 17 years. The majority of that time has been spent in the design and development of electronic equipment. He has done widely recognized work on broadcast transmitting equipment (both amplitude and frequency modulated), Television, carrier current systems, railroad traffic control and numerous other devices serving industry and the public.

Tremendously increased power in domestic broadcasting stations is foreseen by Mr. Madsen. It is his prediction that the post-war period will see stations of from 750,000 to 1,000,000 watt output, and he feels that we have only begun the application of electronic devices to industrial fields.

A nationally recognized authority in his field, a forceful and enthusiastic speaker with a vital and timely subject, Mr. Madsen will offer what will undoubtedly be the outstanding talk of the season.

Dinner will be served at 6:30 with the speaker as the guest of honor. The meeting will begin at 8:00. Members of A. I. E. E., I. R. E., and other groups interested in electronic applications are invited to attend the 8:00 o'clock meeting.

V

THE CHEMISTS CLUB

The Chemists Club will meet on March 21st at the Indiana Technical College. After a short business meeting they will proceed to the Diester Company on an inspection trip. The Diester Company specializes in concentrating ores of all types and in the purification of coal. All Engineer's Club members are invited to attend.

THE BAZOOKA

There is nothing new about the use of the rocket in warfare. The remarkable thing is that this weapon, once discarded, should be revived and made of such effective use against the most modern armaments.

There are vague stories dealing with the use of rockets as missiles of war which date back to the antiquity of forgotten Chinese campaigns. It has been almost one hundred and forty years since Congreve devised his rocket and successfully demonstrated it in a naval attack by the English under Sidney on a French flotilla at Boulogne. These rockets were fired in salvos from boats of special construction, and contemporary reports are high in their praise of their effectiveness.

In June, 1942, shortly after General Electric became interested in the device called the grenade launcher, an article appeared which quoted Professor George B. Kistiakowsky, ordnance expert on the Harvard University faculty. He stated the rockets had been reported in use by both the Russian and the German armies. "One of the weapons employing the rocket principle is a rocket-projectile fired from airplanes against other airplanes or ground targets. Since it can be discharged without recoil, a much heavier missile can be used than is possible with the light cannon that are the largest type of ordnance now mounted on aircraft.

"A second weapon is a multiple rocket projector, said to be used by the Russians against German tank attacks. It can fire twenty or thirty shells at once, like an enormous shotgun discharge. Tanks find this extremely hard to dodge."

As the American rocket-principle device goes under several nicknames — the Buck Rogers, the tom-pom, the bazooka — the Russians call their weapon the Katusha.

In the meantime, what do the newspapers say about the bazooka? Here is an article from the *New York Times*.

WASHINGTON (AP)—The bazooka made its first public appearance today at an Army show on the Washington Monument grounds.

"Named 'bazooka' by soldiers, it is an anti-tank rocket gun which the Army has proved 'as effective an instrument of destruction against thick brick walls, rock masonry, structural steel and railroad rails as it has against enemy tanks.'

"A product of long experiment by the Ordnance Department, the mechanism of the weapon was a military secret until today. The Army now gives this description:

" 'The 'bazooka' launcher, or gun, is a metal tube somewhat more than 50 inches in length and less than 3 inches in diameter. It is open at both ends. Attached to the tube are shoulder stock and front and rear grips for the firer, together with lights and an electric battery which sets off the

rocket-propelling charge when the launcher trigger is squeezed.

"The launcher is operated by a two-man soldier team, one the firer, the other the loader.

"After the loader has inserted the rocket in the launcher, he turns a contact lever to the 'fire' position, signals 'ready' to the firer, and then drops down and away from the rear end of the launcher and grasps a new rocket.

"When the firer squeezes the trigger, the rocket-propelling charge is ignited and flashes from the rear of the launcher tube.

"The rocket itself is heavier than the hand grenade and is nearly two-feet long. Its appearance is that of a small, elongated aircraft bomb. Its components are an explosive head, propelling charge powder tube and finned tail, the latter providing accuracy in flight.

"The 'bazooka' supplements, rather than supersedes, other weapons."

"The Army said the projectile is capable of piercing the armor of any tank which so far has been in action against Allied troops. The weapon is now being supplied in quantity, it was said, to American and other United Nations forces."

And this, Gentle Reader, is all that we are permitted to reveal to you about the bazooka at this writing.

(G. E. Monogram.)

Mr. Jason, the diplomat, came home one evening to find that his wife was much displeased. "Do you realize, John," she complained, icily, "that you have forgotten that this is my birthday?"

"Of course, I've forgotten," he admitted, readily. "There really isn't anything about you to remind me that you are a day older than you were a year ago, or even ten years ago."

And she was happy again.

Maj. L. J. Dockal, 0275420,
Civil Affairs Center
American School Center
APO 645, c-o Postmaster,
New York, N. Y.

Mr. T. N. Ness
4807 Arlington Ave.,
Fort Wayne 6, Indiana
Ted:

I am somewhere in England. Am feeling fine. So far I am enjoying the British scenery. Give my address change to the *Engineers' News*. Because of security reasons there isn't much news that I can write. We can't even talk about the weather.

LLOYD J. DOCKEL.

CIVIC AFFAIRS COMMITTEE

Doc Hanson's Civic Affairs Committee has received an acknowledgment from Mr. S. C. Hadden of the committee's plans to survey "Post-War Roads and Streets Projects" for Fort Wayne.

Public officials commended the availability of the technical knowledge and experience preferred by this committee.

Stolen Fun and Wisdom

The modern Miss asked the pro if he could tell her how to play golf.

Pro: "Sure, it's easy enough. All you do is smack the pill and then walk."

Modern Miss: "How interesting. Just like some auto rides I've been on."

* * *

Suppose you are a winner — you merely beat a fellow who isn't as good as you are, and anybody ought to do that.

* * *

Motorist (to farmer whose hen he has just run over): "I'm very sorry. Would a dollar make it all right?"

Farmer: "No, but I'll take two dollars."

Motorist: "That's a lot of money for a hen."

Farmer: "Well, you see, I've got a rooster that's very fond of this hen, and I'm afraid the shock will kill him, too."

* * *

In a well-known, 4 cycle Diesel Engine operating at 1350 R.P.M., the injection system must accurately meter and deliver 1/5000** lb. of fuel into the combustion chamber in about 1/300 of a second and combustion takes place in about 1/270* of a second.

The spray drop size (mean diameter) of the finely atomized fuel ranges from .000039 in. to .00236 in.

Some short-fused engineers with war nerves will combust quicker than *this** over less than *that***.

* * *

Over the party line comes this alcoholic jingle from a western reader:

Starkle, starkle little twink,
Where the heck I are you think
I'm not under the affluence of incohel,
Tho some thinkel peep I are.

* * *

It is all right to have definite policies and rules if you ignore them when advisable.

* * *

"Why did you get stiff in the first place?"
"It wasn't the first place. It was the last place."

* * *

A hillbilly had been courting a mountain gal when one night her father said to him:

"You have been seeing our Nellie for nigh onto a year. What are your intentions — honorable or dishonorable?"

Looking at the father with a startled gleam in his eyes, the young blood exclaimed: "You mean I got a choice?"

"POST-WAR DREAMS"

The commercial advertisements are playing up to the public numerous fantastic product designs for post-war consumption, such as ultra-modern streamlined automobiles with transparent plastic tops — tear-drop design trucks — transparent refrigerators of cylindrical shape having revolving trays — speed boats with flourishing lines and millionaire appointments — and even the flat iron has been streamlined for speed.

The public's conception of the words "Post-War" is more than a vision. In fact, too many believe that it is now an actuality and expect to see almost an overnight production of these fantastic products — sort of a modern industrial revolution — when the war is over.

The public has been told of the marvels of engineering and industrial accomplishments in the conversion from commercial to military enterprise and fully expect like marvels in the re-conversion. What a time the engineering profession is going to have in trying to explain that the pretty pictures are not the practical thoughts of engineers and manufacturers, but just the opium dream of stylists.

There is no doubt that the future holds in store many improvements in the luxuries of life and they will be available in the Post-War period — but, let's not forget that the automobile, electric lights, the telephone, electric refrigerators, etc., were Post-War products—Post Civil War.

The Post-War Era will last until the next war.

—V—

THE A. I. E. E.

Dr. E. N. Funk, President of the American Institute of Electrical Engineers, will address the local section on March 24th. His subject is to be "Modern Frontiers." Dr. Funk is vice-president in charge of engineering, Philadelphia Electric Company.

The meeting will be held at the Fairfield Manor and will begin at 8:00 P.M. A dinner at 6:30 will precede the meeting.

Dr. J. O. Perrine of the Bell Telephone Laboratories will be the speaker at the April 13th meeting. All Engineer's Club members are invited to attend.

—V—

THE A. S. M. E.

The Fort Wayne Section of the American Society of Mechanical Engineers held their March 8th meeting at the Y.M.C.A. Mr. Carroll of the Worthington Pump Company spoke on "What's New in the War?" — a survey of new developments in industry. A dinner at 7:00 P.M. preceded the meeting.