

# Engineers Book "Gadgeteer" for April Meeting

Thursday, April 22, 1943 - 8:00 P. M.

Chamber of Commerce

Dinner at 6:30

Don Walker, in charge of the April meeting the Fort Wayne Engineers Club, has announced at William C. Eddy, commanding officer of the val Training School for Radio Materiel and cer in charge of the Pre-Radio School connectwith the Great Lakes Naval Training Station, s been secured.

Lieutenant Commander Eddy, after twelvers of submarine experience with the Navy, sertired because of deafness, but has not let affliction slow him down one bit. Calling neels a "gadgeteer," instead of an inventor, he found new fields to explore. Bill Eddy, as he bably prefers being called, is about forty, and ce his days at Annapolis, has taken his lean, agling, boyish, six-feet-six frame over a lot of ritory. On one trip, while stationed in Honor, he met a Grand Rapids nurse and later marther in Hankow. Their joint hobby started Tai Ping Shan where they created a bath-tub. home-owning bug bit deeply, and after re-

turning to New London, Connecticut, they built a house, up-stairs first, and glorified it with so many gadgets that when they moved, the house was rented out with a four-page booklet on how to run it. Their fourth house was built in the sand dunes at Long Beach, Indiana, on Lake Michigan.

One of the famous Eddy gadgets was a hearing aid he built in connection with a radio and with pilot lights in the lapel buttonhole. If the light shows red, it warns that Eddy is listening to the radio; if it is white it means all clear for regular hearing; if the light is out, Eddy has silence — for thinking.

Of all the gimmicks that Eddy has invented, at least thirty-five have been patented. These range from a widely used sound receiver for submarines to all sorts of television doodads. Three of his inventions were brought forth in the Navy, two while with Farnsworth television studios,

(continued on page four)

rt Wayne Engineers Club

APRIL, 1943 VOLUME 5 NUMBER 8

## Engineers News

Official



Publication

H. A.	KERBY,	Editor			City	Utilities, A-7441	
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VOLUME 5.

APRIL 22, 1943

NUMBER 8.

#### APRIL AND MAY ISSUES COMBINED

Engineers News for April was almost a casualty. "It is the War." The program committee had its scheduled speaker for April 15, only to learn at the last minute that the trip to Fort Wayne would be impossible. Then the Navy steamed to our rescue if we could postpone our meeting for one week. That's why we are one week late.

Then, because of the forthcoming election of FWEC officers at the May 20th meeting, and because of Article 7, Section 1 of our Constitution, which reads, "The Secretary shall communicate the nominations by mail to the members not less than two weeks preceding the annual meeting," the May issue of *E-N* was to have gone to press two weeks early. Two issue two weeks apart? Never! Hence, the combination.

Our Secretary, Ed MacMisegades, thought it would be a thrifty bit of business if he could cajole the editorial staff into using their columns for his propaganda, thereby saving himself a lot of work and about \$7.05 in postage, and letting the Publications Budget take the sag. A clever man, this Misegades! Being just as tight, if not as clever, we have discovered a way to lay back a pretty penny ourselves.

DON'T FORGET The MAY 20th MEETING!

#### \_V\_\_\_

#### AIR ARM OF CIVILIAN DEFENSE

Probably the least known component of our Civilian Defense organization, the unit which has actually performed the greatest service to our country in this emergency, is the Civil Air Patrol.

A week before Pearl Harbor, CAP was created by the Office of Civilian Defense to utilize the tremendous force of civil aviation in our national defense. The personnel, equipment, and facilities of civil aviation at that time consisted of approximately 100,000 private pilots and a comparable number of student pilots with 25,000 privately-

owned planes operating from more than 2000 fields all over the country. Thousands of pilots previously flying as individuals were banded into units disciplined to prevent flights by unauthorized persons or violations of wartime regulations. Otherwise it would have been necessary to ground private flying.

More than 71,000 civilian volunteers have enrolled in this very worthwhile organization.

CAP National Headquarters in Washington, D. C., is staffed by officers of the Army Air Forces under the command of Major Earle L. Johnson.

Indiana Wing No. 52, with headquarters in Indianapolis, is composed of six groups. There are 48 Wings, one for each state. Fort Wayne Group No. 523, under the command of Captain I. W. Baldwin, covers 12 counties in Northern Indiana, and has its headquarters at Smith Field. Group No. 523, is composed of three squadrons of which two are at Fort Wayne, and the third is from Auburn.

Each Wing, Group, and Squadron has its own commander and staff officers assigned to special duties such as operations, intelligence, communications, transportation, and medical. About a third of the members of CAP are pilots; a third are student pilots; and the rest have special skills as mechanics, radio operators, photographers,

nurses, typists, and ground crew.

Do not be mistaken, CAP is not a flight training corps, but an organization of citizens with prior experience applicable to aviation. However, the training course which each member must complete covers the ground studies necessary for a private pilot's license. The basic CAP course of 81 hours stresses military and defense subjects such as Infantry drill, discipline, first aid, gas protection, military secrecy, and signaling. The advanced course of 150 hours includes navigation, meteorology, crash procedure, and a number of flying missions simulating the actual wartime assignments of the Patrol.

A brief review of the many services being rendered our country every day by the CAP should give us a better idea of its value in the

Civilian Defense set-up.

Like the Civilian Defense warden, the members of CAP serve without pay and devote their spare time to its activities. However, thousands have been able to volunteer 30 days or more of continuous service to active-duty missions which CAP performs for the Army.

When the Axis submarines began to take a heavy toll of our coastal shipping, CAP organized a series of Coastal Patrols at points designated by the Army. These "Flying Minute Men" took their own planes, repair tools, radios, and other equipment to the danger zone and literally gave their all. These Patrols have already flown over 17,000,000 miles. Substituted have been sunfor those about to attack merchant vessels have crash dived at the approach of CAP planes. Many

pedo victims have been rescued through the efts of the members of the Coastal Patrol.

Inland activities include reconnaissance and cue, guard duty, and the flying of medical supses in times of disaster such as tornadoes and ds, mock air raids to further train Civilian cense workers, aerial searches for scrap metal ses, and patrol of forests, electrical transmission es, gas and oil pipe lines, as well as our transfection guartems.

tation systems.

However, the CAP work of most interest to EC members is the courier service available Defense Industries. For a moderate rental on ight hour basis, CAP will carry cargoes or pernel, or patrol vital areas or untilities, or pernel miscellaneous services authorized by recognicated Industrial, Civilian Defense, Governmental, Military Officials.

In many cases, the production line has been t going because of this rapid service provided

the CAP.

Fort Wayne firms have taken advantage of service through flights to New Orleans, Chio, St. Louis and many other cities.

The next time you are waiting for a train t is three or four hours late call CAP headrters at Smith Field and get full particulars of

aerial pony express.

If you desire Civilian Defense work in the P you must be an American citizen, native born naturalized at least 10 years from friendly ntries. Fingerprints of all are checked by the L. A limited number without prior aviation erience may be admitted where there are vacies in local squadrons.

D. G. Holloway.

#### FLE AND PATTER

Sure the engineers have something on the Accuracy of touch and direction, but back a — never. And never, never, never, — tail a, which must have been the situation in which month's scribe found himself. Quatrain is all at, but quintrain, used where limerick should is too much. There is no such word in our ionary. No fair coining words. The nearest g we can find is quintain, and that means "A re or other object to be tilted at." And what alting? Well, go on from there, and you will how far afield lack of appreciation of the funental engineering principle of accuracy can you.

That's the piffle — Here's the patter:

An engineer, without a line, Is like an angle without sine, It's inconceivable — can't be, If he can't bluff his way, Ah me! He's in the middle all the while, Must bear indignities, and smile, His hecklers he would love to drown, But calmly, sweetly, talks them down.

#### A MILITARY SECRET

I am just a cub reporter for the Engineering News Assigned to get a story and perhaps some inside views Of Fort Wayne plants in action producing for the war While sparing OPA and not making other bureaus sore.

So I took my trusty pencil and a notebook in my hand To see a Factory Manager and expecting to demand That I be shown the factory and explained each new design The Company's now producing to make the Axis sign.

But I soon found that I was crazy to think that I'd be shown One little war design because they do not want it known That they are making airplane parts to keep ours flying high

And machine gun parts to shoot the enemy from the sky.

So I went from plant to plant with the answer still the same,

And before I'd made the rounds, I was getting pretty lame, But I did get one scoop which is printed here for you; It tells from start to finish how they make the incontrample screw.

The material is and it first is
Then the screw is cut on a two-stage
After which it is with a in a
It is tested by and finished with
Then packed and shipped to

So there, my hungry readers, is the story in a hat; What is true of one is likewise of the gammatrorostat. The black magic of these gadgets also keeps the superwhifter on the beam,

And holds the Norden damn-sight to a bead on Hitler's dream.

FRIGID FREDDIE.

#### NEW MEMBER

Horace O. Mellem, Commercial Engineer of the General Electric Company, was accepted as a new member at the Council Meeting, April 5.

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#### A. I. E. E.

On May 13 at 8:00 P. M., Mr. H. J. Holmquist, Consulting Engineer for General Electric X-Ray Corporation in Chicago, will speak to the local branch of A.I.E.E. in its regular meeting at Fairfield Manor. Mr. Holmquist's subject will be: "Modern Uses of Electricity and Electrical Equipment in the Science of Medicine." The meeting will be preceded by a dinner with the speaker a guest of honor. The dinner will begin at 6:30.

A.I.E.E. election returns will be given during and immediately after the meeting.

A. S. M. E.

At the regular monthly meeting of the ASME, held April 8 in the Old Fort Room of the Indiana Hotel, an interesting talk was given by Mr. John P. Morrissey. Mr. Morrissey, at present employed as a welding engineer at the General Electric Company, Taylor Street Plant, related his experiences during his two years in Russia. While he was Eastern District Sales Manager of the Chicago Steel and Wire Company as a railroad welding engineer and spent 1929 and 1930 in and around Voronezh.

—As told by R. Loveland to A. A. Ralston.

#### ENGINEERS BOOK "GADGETEER"

(continued from page one)

twenty-six while with NBC, and four since building and operating the Balaban & Katz station W9XBK in Chicago.

A "submarine ouija board" that Eddy invented for determining the zigzag course of surface ships amazed the Navy so that they snatched it up and adopted a new and unfathomable set of standard zigzags.

One of the Navy personnel cracked that there are three ways of doing a thing, the right way, the wrong way, and the Eddy way. And Eddy has been doing a lot of things the Eddy way. His simple, direct approach to seemingly impossible problems has taken the quadratic night-mares from almost every hard job that has confronted him

Immediately after Pearl Harbor, Eddy went to Washington to get back into active duty. The task assigned him by the Bureau of Naval Personnel was to procure the thousands of rapidly trainable recruits necessary to man the most complicated electronic devices ever used. Eddy agreed to turn the Chicago Television Studio over for a radio materiel school (he got his bosses' permission after he returned to Chicago). This machine is in full gear and he has effected an almost foolproof device for accepting or rejecting radio materiel recruits from all civilian branches. Few men now engaged in radio materiel work in the war have not been directly under the influence of the Eddy way of teaching — even to the use of a book of mathematics which he wrote for the specific purpose.

The Eddy way often calls for turning something upside down to improve it or to make it do something else. He used this approach while RCA chief sight effects engineer to solve a serious lighting problem.

Eddy is one of the most important contributors in the war effort, still is perhaps the most unassuming. He says: "In practically all of my stuff a lack of knowledge has been the important thing." Saturday Evening Post, Dec. 6, 1941, calls him a "Gadget Genius," while Esquire refers to him as "Simplicity's God-Child."

Eddy's ideas take him into various fields—optics, light waves, sound, mechanical and electrical engineering. He says. "I'm not limited to any one field because I don't know enough about any one field to specialize."

He gets urges to invent something and if the idea is slow to make itself come out he prods it with coffee and aspirin. Once his ideas become creations, Eddy is apt to remain aloof from them. He may even forget them. It is told that, for example, he devised a microphone drop system that automatically dubs in sound effects. Today, he must have an assistant operate it for him because, he says. "It's too damn complicated for me to operate."

Lieutenant Eddy will discuss the experience he has had and promises plenty of ad libs when h appears here Thursday night.

At 6:30 P.M., a dinner honoring Bill Edd will be held at the Chamber of Commerce. Bo Loveland advises that the dinner will be \$1.25, slight increase, but come anyhow. Walter Walb' contacting crew will collect your reservations.

#### IT CAN HAPPEN — AND DID

The Council, at their April 5th meeting, did with regrets, vote to remove a number of name from our membership list because of arrearage in dues.

Organization of an engineering group in the community was effected to promote the general good of engineers. Many years and much work is necessary for us to obtain the results we desire All three conditions have been partially met. More work and time is required, both of which we will give. We do not expect to create a "pressung group" of which there are too many now, but we intend to make ourselves and our needs known.

Mr. C. A. Walb, who has given much of h time and effort to the promotion of the organiz tion in a legislative way, assures us that we as reaching some of our aims and that the groun work is laid for more to come.

It seems that the most desirable thing we ca do now is to maintain a large, strong, active mer bership so that when normal times are restore we can go on to our goal.

That's why we are sorry to see any of the members drop by the wayside.

#### FORT WAYNE CHEMIST'S CLUB

D. W. Bridges, chemist of the Corn Produc Refining Company, spoke before the Fort Ways Chemist's Club at their April 20 meeting at the Y. M. C. A. Mr. Bridges discussed "The Cher istry of Corn." A dinner at 6:30 preceded the lecture.

R. H. Chadwick, Assistant to the Manage General Electric Company, became ill last we immediately after boarding a train at Waterl for the East. He was taken to the hospital Bryan, Ohio, and has since returned to Fc Wayne, where he is on his way back to recover Good luck, Chad, We will look for you at t May 20th meeting.

I have sworn upon the altar of God eternal hat tility against every form of tyranny over the mi of man.—Thomas Jefferson.

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There never was a rule that didn't have to broken at some time, and the man who does know when to break a rule is a fearful pain in t neck.

#### OMINATING COMMITTEE ANNOUNCES 'EW SLATE

1943-1944 nominees for FWEC offices have sen announced by the Nominating Committee, omposed of R. H. Chadwick, chairman; L. C. leavner, and W. Kehoe. And a tough job it must ave been — two of the members of the commitse were hospitalized before the slate was drawn.

The following men are subject to the May oth election:

President:

T. J. Kelly

L. Z. Gossman

Vice President:

Walter A. Walb

B. A. Case

Secretary:

William Cupp

R. P. Loveland

Treasurer:

C. E. Carlson

J. T. White

irectors — two to be elected:

Otto Gumpper C. Lichtenberg

S. J. Winje W. R. Westphal

Other nominations may be submitted from the oor immediately preceding the casting of ballots.

#### tay 20th fwec meeting

Election of officers, a sound film in techniicolor titled "Alaska," and a "mystery" speaker fill feature the May 20th meeting of the FWEC, was announced today by Henry Smith and Ray ook, of the program committee. This meeting fill begin at 8:00 P.M. and will end the activities of the Club for the 1942-43 season.

Election of officers should furnish a measre of excitement and the usual quota of campaign romises, belated "fence fixing" and oratory. 'he campaign promises to be the hottest in years nd the pre-election pulling and hauling has been a progress for several weeks.

It is rumored that the Kelly-Walb combines resorting to its usual tactics to insure the success of its candidates. Election of a majority of me "Confusion Party" men to office may produce ome surprising results. On the other hand, what ort of administration may we expect if the "G.-E. remlins" grab control of the Club?

The film, "Alaska," which is to be furnished y Pan American Airways, not only contains such of scenery which is beautiful, but tells the omantic story of modern Alaska.

The committee has done much work to obtain he "mystery" speaker, but unfortunately cannot e sure that he will be available. He is an outtanding man in his unique field, and, if he is able to be with us, his talk should contain much which is interesting and informative.

Immediately after the regular meeting, which will be held in the Chamber of Commerce Building, a dutch lunch will be served.

#### PAST OFFICERS AND DIRECTORS OF FWEC

As a matter of interest and history, parts of ularly for the seventy-two new members who have joined this year, here is a list of the men who have served in elective offices since the founding of the Fort Wayne Engineers Club:

	1936	1937
D :1		
President	Witherow	Witherow
Vice-President	Carroll	Cornell
Secretary	Daily	Daily
Treasurer	Gumpper	Gumpper
Directors	Cornell	Frey
	Merritt	Merritt
	Kuttler	Bundy
	Kamm	Kamm
	Nordstrum	Nordstrum
	McKay	McKay
39	1938	1939
President	Hanson	Grimm
Vice-President	Reinoeld	Chadwick
Secretary	Case	Summers
Treasurer	Heavner	Feustel
Directors	Bradley	Bradley
2 m octors	Merritt	McAnlis
	Bundy	Kelly
	Noland	McKay
	Nordstrum	Noland
	McKay	Straub
	mena,	
	1040	10//1
	1940	1941
President	Chadwick	Kehoe
Vice-President	Chadwick Straub	Kehoe Gossman
Vice-President Secretary	Chadwick Straub Gossman	Kehoe Gossman McKean
Vice-President Secretary Treasurer	Chadwick Straub Gossman H. A. Smith	Kehoe Gossman McKean Ulmer
Vice-President Secretary	Chadwick Straub Gossman H. A. Smith Bradley	Kehoe Gossman McKean Ulmer H. A. Smith
Vice-President Secretary Treasurer	Chadwick Straub Gossman H. A. Smith Bradley McAnlis	Kehoe Gossman McKean Ulmer H. A. Smith McAnlis
Vice-President Secretary Treasurer	Chadwick Straub Gossman H. A. Smith Bradley McAnlis Kelly	Kehoe Gossman McKean Ulmer H. A. Smith McAnlis Kelly
Vice-President Secretary Treasurer	Chadwick Straub Gossman H. A. Smith Bradley McAnlis Kelly Noland	Kehoe Gossman McKean Ulmer H. A. Smith McAnlis Kelly Dickens
Vice-President Secretary Treasurer	Chadwick Straub Gossman H. A. Smith Bradley McAnlis Kelly Noland	Kehoe Gossman McKean Ulmer H. A. Smith McAnlis Kelly Dickens C. Walb, Sr.
Vice-President Secretary Treasurer	Chadwick Straub Gossman H. A. Smith Bradley McAnlis Kelly	Kehoe Gossman McKean Ulmer H. A. Smith McAnlis Kelly
Vice-President Secretary Treasurer	Chadwick Straub Gossman H. A. Smith Bradley McAnlis Kelly Noland C. Walb, Sr.	Kehoe Gossman McKean Ulmer H. A. Smith McAnlis Kelly Dickens C. Walb, Sr.
Vice-President Secretary Treasurer Directors	Chadwick Straub Gossman H. A. Smith Bradley McAnlis Kelly Noland C. Walb, Sr. H. Miller	Kehoe Gossman McKean Ulmer H. A. Smith McAnlis Kelly Dickens C. Walb, Sr. H. Miller
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### F. W. E. C. HONOR ROLL

O. Amyette J. A. Clusserath J. S. Craig

L. J. Dockal R. D. Florance

P. I. Freiburger R. D. Hodges

F. W. John

A. S. Johnson H. E. Rose

S. D. Summers R. E. Trovinger

N. L. Winter

R. E. Tappan

#### NEWS ITEMS

Wayne Kehoe has just returned to his home from the St. Joseph Hospital where he had some fine embroidery performed. Ask him about his "V" for viscera.

The mysterious rumblings and the secret pulling and hauling which has gone on in the F. H. P. Motor Department of General Electric Company, has finally erupted into a reorganization. After the sparks had cooled and the confusion became something akin to order, a goodly number of good (and not so good) F.W.E.C. members had their names in the Works News and the local dailies.

Byron Case is appointed Administrative Assistant to P. O. Noble, Engineer of the F. H. P. Motor Department. Heading various engineering sections are: Cecil Allen, with Gordon Harvey as assistant; Larry Hemphill, with Herb Behm as assistant; Ray Jones, with Bill Pringle as assistant; and Hap Carter. C. B. Smith will succees Byron Case in Production Methods.

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#### THE RIGHT OF PROTECTION

There is much discussion today about changing our patent system. One group advocates compulsory licensing because it says, corporations are shelving patents. Another group advocates taxing patents and exacting working fees. Another group advocates destruction of the Patent Office because it is a mere tool of the corporations. Yet another group states that the entire system must be revised because inventors now work in laboratories of corporations instead of in attics and cowbarns.

In the early days when the inventor could, like Paul Revere and Ben Franklin, also become the manufacturer of the invention, this right to exclude, which is often called the right of "protection," was of direct benefit to the inventor. With the progress of civilization, however, the invention and the manufacturing phases of industrial life became separated because the inventor as a

rule lacked the capital or time to produce and market his invention.

This right of protection was one of the most important items involved when an inventor and a manufacturer were making arrangements to produce a new item for the good of the public and for their own incidental profit because protection was the thing which secured to the inventor a fair share in the profits and which permitted the manufacturer to expend money, time and effort in further development, financing, tooling, and selling the product without having a worry about a competitor.

It seems obvious that any change of law or procedure or any general attitude on the part of the courts which threatens to limit or destroy this tundamental right will, even today, destroy research, both private and corporate.

In the following table it can be seen that the work of the Patent Examiners, a body of experts having both technical and legal training, is rendered to a great extent useless by courts which are not particularly versed in technical matters.

	Number	Results of Litigation - %								
	Patents		Not	Valid &						
Year	Litigated	Invalid	Infringed	Infringed						
1938	312	51.9%	26.0%	22.1%						
1939	285	46.6	23.2	30.2						
1940	330	53.4	23.0	23.6						
1941	307	55.5	24.4	20.1						
1942 -	233	59.6	21.9	18.5						

It is obvious that these trends need not be projected very far before patents will be rendered entirely valueless.

This decadence of the right of protection can not help but have an adverse effect upon research and this effect will be felt severely after the artificial stimulus of the war is removed.

It is submitted that unless the organizations in this country which are dedicated to the purpose of promoting the welfare of engineers and in ventors do take an active part in promoting legis lation which will save and improve our paten system and in defeating any force which is tend ing to destroy it, we may not long have that right which was a most important factor in building our present economy, in elevating the enginee inventor to his present plane and which is an ex gremely important factor in maintaining him there.

It is curious and absurd that the voice of th inventor, which should dominate the discussion of a system which was created for his benefit, is no heard amid that clamor of government officials lawyers and industrialists who, at best, have onl derivative interests in the subject matter of th debate.

E. W. E. Kamm.