



XMAS SEASON MARKED BY ANNUAL DANCE

Plans were announced this week for the annual FWEC "Christmas Dinner-Dance" which will be held in lieu of a regular business meeting in December. The semi-formal dinner-dance will be held in the Chamber of Commerce Auditorium, December 28, according to Jesse H. Keith, Jr., program chairman for the festivities.

The holiday dinner, featuring Prime rib au jus, will begin at 7:00 p.m. Dinner music is planned, and the cocktail bar will be open to FWEC members, wives and guests.

Dancing to the music of Bob Branning and his orchestra will begin at 9 p.m., lasting until midnight.

The dinner-dance tickets are \$5.50 per couple and are available from R. H. Smith, Membership and Contact Com-

(Continued on Page 4)

FBI TALK IN JAN.

E. B. Dumont, Program Chairman, announced this week that Roy Balke has been appointed as the January 16 meeting program chairman.

The topic planned for the January meeting will be "FBI and its Operations."

Seasons Greetings



Engineers' News

VOL. XX

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NO. 4

CYCLOTRON PROJECT BUILDS INTEREST IN SCIENCE FOR HIGH SCHOOL YOUTHS

"The significant point of the FWEC sponsored Cyclotron Project at South Side High School is not what the cyclotron will do when it is completed but rather what it is now accomplishing in its scientific influence on young people during the design and construction period." So stated Robert Keithley, FWEC Cyclotron Project chairman at the November 25, Executive Council meeting held in the subterranean cyclotron laboratory beneath South Side.

Few FWEC men, nor meeting host Richard Bussard, head of South Side's Physics Department, would disagree

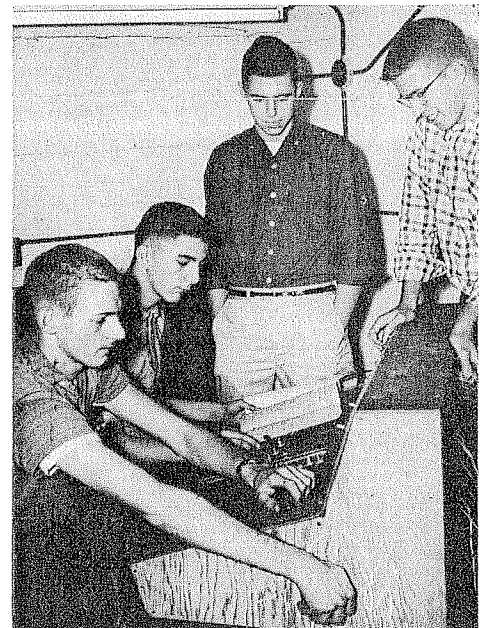
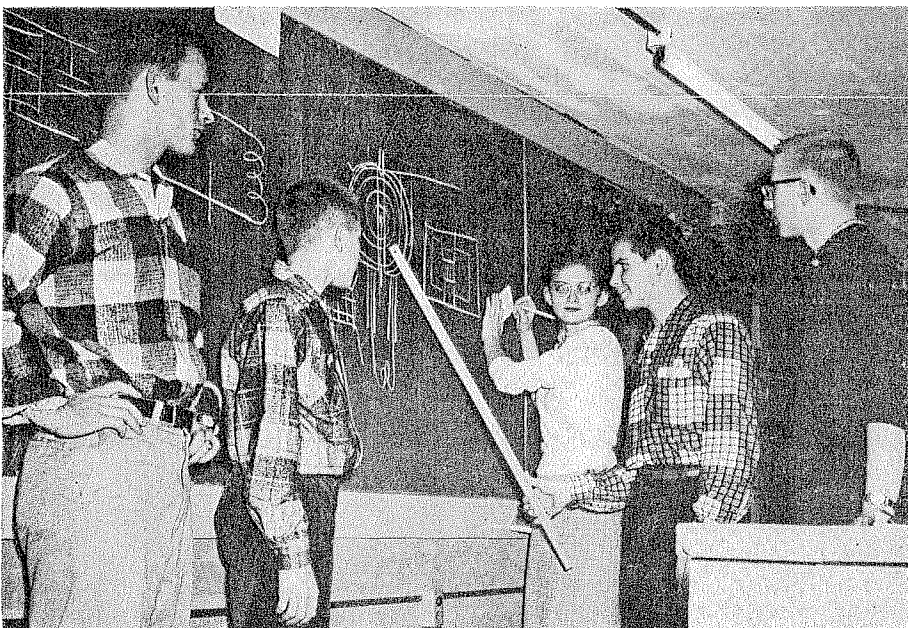
with this view, when they recall the science and engineering scholarships granted to students who cut their scientific teeth on this project.

The cyclotron plant, the only one in this part of Indiana, incidentally, consists of three rooms, all of which were excavated and constructed by the stu-

(Continued on Page 2)

YOUTH ACTIVITIES GROUP REPORTS ON SCIENCE FAIRS

(See Story on Page 5)



High School students examine cyclotron theory being reviewed by Atomic Energy Association club president Pat Doherty. Weekly afternoon meetings are held in South Side High School's subterranean three-room facility, built by club members. Left to right in left picture are William Sutter, Alfred Mayle, Sue Hiller, Doherty and Michael Church, all of South Side. In photo at right, students check out circuitry of control console nearing completion. Left to right are: Fritz Riedel, North Side High School; Larry Buckmaster, South; Charles Morrell, North; and Robert Gifford, South.

MEMBERSHIP-CONTACT GROUP SAY SCOUNCIL APPROVES NINE

R. H. Smith, chairman of the Membership & Contact Committee announced that the FWEC executive council at its November 25 meeting approved the applications of the nine men as new FWEC members. They are:

Wallace C. Gamble and Wallace M. Bounds of the Wayne Pump Co.; Richard V. Klikunas and Emil F. Auer of Bowser; William A. Foos and Thomas P. Gilmer, Jr. of Farnsworth; Robert D. Sulzer and James A. Foerster of GE and John W. Steffoff of I&M.

CYCLOTRON—(Continued from Page 1) dents with donated materials and consultation. The "brains" of the project are located in the control room. Here are measured and monitored such parameters as magnetic field coil voltage and current, R.F. power into the equipment, vacuum pressure in the cyclotron D-frames, magnetic field strength, field coil temperature, etc. The console also contains an oscilloscope and other recording instruments for general purpose monitoring use.

The cyclotron room contains the cyclotron structure, a motor generator set powering the field coils, an 18 MC kilowatt R.F. generator, and vacuum pumps for evacuating the cyclotron "D" frame.

In the third room adequate black-board area, tables and chairs, and benches exist to provide a suitable conference room-work area for student and faculty workers.

FWEC sponsors the Cyclotron Project as a civic and educational effort. Local industrial firms and businesses have do-



XMAS

PARTY DEC. 28



Make your reservations now, by calling or seeing your contact man. See page 6 for names.

Party story on page 1

ESSAYS— ON ENGINEERSMANSHIP

(Or, How to be an Egghead)

Don't worry about your employer making money on your project. The government just taxes it away anyhow and lets it back in new contracts. This (Continued on Page 4)

nated the needed supplies, components, advice and in some cases manpower to assist the project toward completion. The important point, however, is that thousands and thousands of student man hours have been spent on a truly scientific venture. This time has and is being spent at the age when impressions and thoughtful direction have the greatest effect in shaping the scientific minds of the future.

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CRAIG CITES ADVANTAGES, OBJECTIVES OF FWEC

By John S. Craig

In this 21st year of the life of the Fort Wayne Engineers Club, it would seem worthwhile to turn backward for a moment, and refresh our memories regarding the intents and purposes underlying the foundation of our organization. I feel that these are very well expressed by Article I of the Constitution of this society, which reads in part as follows:

The objects of this Club are:—

- (a) *The advancement of the arts and sciences connected with engineering by the presentation and discussion of subjects and by the participation in matters of interest, to the engineering profession.*
- (b) *To advance the interest of individual members, and to enhance the prestige of the profession within the community.*
- (c) *To promote closer union and co-operation among the members by professional and social contact.*
- (d) *To acquire, hold and own real estate and other property necessary and desirable to carry into effect the aforesaid purposes.*

It is my desire to pay tribute to our members and officers who, in past years,

have so ably promoted these aims and aspirations. The same, sound concepts will guide the activities of the 1957-58 Executive Council in the pursuit of their duties.

Looking forward, our meeting programs this year are intended to satisfy, insofar as possible, the wide range of interests of our membership. Fellowship with our brother engineers was promoted at the September meeting, while civic pride, responsibility and planning was served in October. The attendance of responsible officials of local government at the latter meeting was good publicity for the FWEC, and should enhance our prestige in the community. In November, the lecture on guided missile development provided a program both timely and of high professional interest.

Co-operation with other engineering societies is being continued through participation in the meetings of the Indiana Engineering Council, and the local National Engineer's Week Committee.

As a service to our community, our nation and its youth, a concentrated effort is being made to determine how talented young people may be stimulated in their pursuit of higher education. We hope to encourage not only those who show an inclination toward engineering, but also those with marked enthusiasm for other professions. The future of our country depends, in large part, on the caliber and training of this potential leadership.

Building Project Studied

A preliminary study has been initiated to determine whether the needs of our members, and the members of all other engineering societies in this area, could better be served by the purchase or construction of a building devoted entirely to those interests. The problems involved in such a undertaking are manifold, and will require long and careful review.

May I earnestly urge each member to support the FWEC by attendance at all monthly meetings, and by persistent and determined recruitment of candidates for membership. A static state in the activities, the services, or the growth of our organization would not please you, either as an individual or as an engineer. Add then, the strength of your particular talent and personality, to the efforts of your fellows.

CONFERENCE CALENDAR

- JAN. 6-8: 4th National Symposium on Reliability sponsored by the IRE. Hotel Statler, Washington, D.C.
- JAN. 22-24: Electronic Industries Assoc. (formerly RETMA), 1958 Conference on Automation. Auditorium of Arizona State College, Tempe (Phoenix), Arizona.
- JAN. 27-28: Sixth Scintillation Counter Symposium, IRE, AIEE, AEC, NBS. Hotel Shoreham, Washington, D.C.
- JAN. 27-29: 64th Annual Meeting, American Society of Heating and Air Conditioning Engineers, Penn-Sheraton Hotel, Pittsburgh, Pa.
- JAN. 27-30: 11th Annual Symposium on Modern Methods of Analytical Chemistry. Louisiana State University, Baton Rouge, La.
- JAN. 27-30: Plant Maintenance and Engineering Show, International Amphitheatre, Chicago, Ill.
- FEB. 10-14: Committee Week of American Society for Testing Materials. Hotel Statler, St. Louis, Mo.
- FEB. 18: Fourteenth Annual Quality Control Clinic, Rochester Society for Quality Control, War Memorial, Rochester, N.Y.

TECHNICAL MISSILE ASPECTS DISCUSSED BY DURDING IN NOV.

The regular November business meeting of FWEC featuring a pre-Thanksgiving turkey dinner was attended by approximately 150 club members and guests. The meeting held at the First Christian Church, November 21, was highlighted by the timely speech of Dr. W. W. Durdning entitled "Some Basic Concepts of Guided Missile Design."

Dr. Durdning, Professor, Applied Physics Laboratory, John Hopkins University, spoke on problems in developing guided missiles, from the mathematician's and physicist's viewpoint.

Dr. Durdning reviewed missile development techniques and supplemented his talk with slides and some motion pictures of the Talos, V-2 and Aerobee missiles. He also discussed basic concepts relating to aerodynamics, propulsion and guidance.

ESSAY (Cont. from Page 2)
is the fundamental law of feedback.

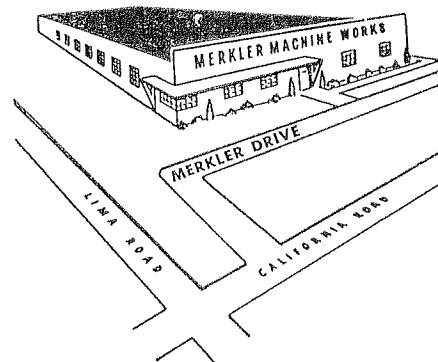
Never finish a project on time. That only makes it look easier than it was, and the customer may feel that he didn't get his money's worth.

Never arrive at conferences on time. Your supervisor will think you had nothing better to do, and you may lose stature.

X-MAS SEASON—(Cont. from Page 1) mittee chairman, at E-7431, ext. 432, at his home phone A-87951, or from plant contact men listed on page 6 of this issue of the NEWS.

Keith also announced that John Rosenkrans will be in charge of the dinner-dance publicity and Glen Glassett and Mervel Smith will head the decorations committee.

Special table decorations will be awarded to a couple at each table.



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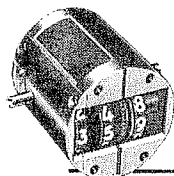
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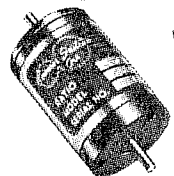
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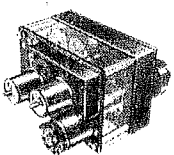
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HUNT TELLS YOUTH ACTIVITY PLANS; COMMITTEE TO COUNSEL SCIENCE FAIRS

William H. Hunt, chairman of the Youth Activities Committee, announced at the November 25, Executive Council meeting the major project his committee has undertaken for 1957-58.

The committee will head a consulting service for the 3rd Annual Northeastern, Indiana Science Fair sponsored by the Purdue University Center under the direction of Dr. Leslie A. Willig, Assistant Director of the Center.

Hunt and his committee of 12 are working to organize local science fairs in the grade, junior high and high schools of this area. These local fairs will be held prior to the Regional Fair which will be held April 11, 12 and 13 at the Purdue Center.

The Youth Activities Committee will also act as a consulting service for the participants in the fairs. They will aid in the projects, give technical information to the youth and aid in the selection of materials. They hope to enlist the aid of all FWEC members in this important undertaking.

The Regional Fair will display student projects from eight northeastern Indiana counties: LaGrange, Steuben, Noble, DeKalb, Whitley, Allen, Wells and Adams. The participating youth will be in three major competing categories: Elementary, 1st through 6th grades; Junior, 7th through 9th grades; and the Senior competition, 10th through 12th grades.

Awards will be made in all three competing groups but the two top winners in the senior competition will be eligible to attend the 9th Annual National Science Fair, all expenses paid. There will be two winners attending from each of the 10 Indiana regions.

The National Science Fair is to be held in Flint, Michigan, May 7-10.

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See page 1 for contact man, page 1 for story.



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14 FWEC MEN GET PE STATUS AT NOVEMBER 2, ISPE MEETING

PE certificates were awarded to 45 men at the November 2 dinner meeting of the Anthony Wayne Chapter of the ISPE held at the Hobby Ranch House. Fourteen of the group are FWEC members.

Preceding the presentation of certificates, Dr. J. B. Jones, Administrative assistant of the Mechanical Engineering School and Professor of Mechanical Engineering at Purdue University spoke to the group on "Engineering Education."

Presentations were made by Dean

Herman A. Moench, Dean of Engineering at Rose Polytechnical Institute and member of the State Board of Registration for Professional Engineers and Land Surveyors.

FWEC members who received certificates are: Roy L. Balke, Harold L. Fritzsche, Vernon M. Jordal, Hugo C. Kaeding, Richard V. KLIKUNAS, Robert D. Lambert, Eugene H. Martin, Donald K. Moe, A. D. Peterson, John Popa, Robert W. Ritchey, James N. Stafford, Eldon J. Vosburgh and William W. Warcham.

Others from the Anthony Wayne District were: Donald E. Bovey, Paul L. Bracht, Ross F. Brian, Beresford N. Clarke, Robert E. Davidson, Benjamin Lloyd Dow, Arthur N. Fortier, Ralph A. Fortriede, Luther L. Genuit, Robert S. Glass, Jerry Edwin Goldress, Robert L. Guiler, Arthur Q. Hislop, Norman C. Joehlin, Donald J. Koestler, James M. Lee, Theron C. Lindsey, Albert I. Martin, William D. Martin, Leroy Mollenberg, Gene Lyle Nelson, Richard G. Overbey, Edwin H. Perkins, Vivian P. Powell, Howard T. Pritchard, Robert L. Sieber, Robert R. Sittler, Donald F. Strain, Roger G. Vanasse, John A. Whitney and Carl J. Zink.

RICHARDS JOINS CONTACT GROUP; COMMITTEE HAS XMAS TICKETS

The selection of a new committee member, Charles Richards, to be in charge of Magnavox membership and contact, was announced recently by R. H. Smith, Chairman of the Membership and Contact Committee.

A complete listing of membership and contact men in the various plants is as follows:

COMPANY	COMMITTEE MEMBER	COMPANY PHONE	EXT.	HOME PHONE
BOWSER.....	James M. Mills	H-2341	307	H-59985
CITY..UTILITIES.....	Robert Sholeff	A-7441	249	H-69155
FARNSWORTH.....	Ronald Poole	E-0581	62	K-6386
GE.....	John Hoppe	E-7431	2451	H-69902
GE.....	H. Lowell McLaughlin	E-7431	403	H-76355
I&M.....	Robert Stouffer	A-1331	340	E-56652
IH.....	Heinrich Davatz	E-5441	224	
MAGNAVOX.....	Charles Richards	E-9721	206	H-44229
U.S. RUBBER.....	John Reinsch	E-4551	256	Leo-Grabill 3749

Smith, the committee chairman, may be reached at E-7413, extension 432 or at his home A-87951. Members are urged to make their Christmas party reservations now, through this committee.

REVIEW COURSE OFFERED AT PURDUE CENTER, BEGINNING JAN. 10

A 12-week, PE "boning-up" session is scheduled to begin January 10, at Purdue Center. The review course, first announced in the November NEWS is being offered as preparatory work for PE examinations.

The first eight meetings of the course will be devoted to physics, chemistry, mathematics, engineering law, strength of materials and applied mechanics. The last four meetings will include practical problem solving in mechanical, electrical, civil and chemical engineering.

Classes will meet Friday evenings, 8 to 10 p.m., for 12-weeks. The fee will be \$30.00. Interested FWEC members are urged to register for the series at the Personnel Office, Purdue University Center, Jefferson and Barr Streets.

Engineers' News

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Vol. XX, No. 4 December, 1957

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