ARF Reorganizes Wire Sound Recorder Activities

The reorganization of all magnetic wire sound recorder activities and the establishment of a Magnetic Recorder Division has been announced by Dr. Jesse E. Hobson, director of the Armour Research Foundation.

The Wire Recorder Development Corporation, which in the past has been in charge of the Foundation's commercial activities in connection with magnetic wire recording, has been dissolved. The new division will maintain its offices at the same location, 135 South LaSalle street, Chicago.

Headed by Carl L. Titus, former engineering advisor, the Magnetic Recorder Division will coordinate all sound recorder activities, including the Foundation's licensee technical service, research and engineering service, and licensing negotiations with manufacturers to produce Armour magnetic wire sound recorders.

The licensing of four additional companies has also been announced, bringing the total number of licensees to 30. These include the Garrard Engineering and Manufacturing Company, Ltd., of Swindon Wiltshire, England; Ateliers de Constructions Electriques de Charleroi, Charleroi, Belgium; Avery Sound Instrument Corporation, New York; and Magnicord, Incorporated, Chicago.

Garrard, precision engineers of phonograph motors, clocks, cameras, turntables and automatic record changing units, is expected to manufacture magnetic sound recorders for home, business, and entertainment use, as well as for use by the British army and navy.

The Belgian concern, Ateliers de Constructions Electriques de Charleroi, handles 60 per cent of that country's electronics work, including the manufacture of transformers, motors, switches, generators, condensers, and tubes. Their initial applications will probably be in the field of units for incorporation in home radio receiver sets and commercial dictating devices.

Avery Sound Instrument Company is expected to apply magnetic sound recorders in various advertising uses. Best known for their precision work, Avery built parts for Pratt and Whitney Aircraft Division of United Aircraft Corporation and others during the war.

Magnicord, Incorporated, a new Chicago concern, has been organized to produce custom built recorders for use in various commercial fields.

The Wire Recorder has been developed in the Armour Research Foundation during the past several years. It was invented by an IIT student, Marvin Kamras, several years ago and has seen rapid growth, especially during the war when it was used extensively to record battlefield conditions on the spot.

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(Continued from page 1)

of many publications and has been directing war research.

Another staff member returning after an absence of four years is Alan Flanigan who will become associate professor of mechanical engineering, and director of shops. Professor Flanigan is receiving his Ph.D. in metallurgy from the University of California this year. Dr. William Ernest Bennett who is at present on the staff of Rice Institute will become new associate professor in the department of physics this fall Dr. Bennett has specialized in the field of nuclear physics, and was connected with the atomic bomb project, both at the University of Minnesota, and Los Alamos.

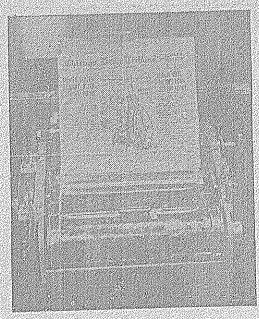
Richard Clark Vogel joins the staff of the chemistry department as an assistant professor. He is at present on the staff of Harvard University where he is completting work for the doctorate. During the war he served as a special research assistant on government sponsored research.

A graduate of Illinois Tech who received his Master's degree in architecture in 1939, is James Speyer, who becomes assistant professor of architecture. Professor Speyer has recently been discharged from military service.

Another addition to the staff of the chemistry department is Dr. Peter M. Bernays. A Major in the Army's Chemical Warfare Branch, he has been on active duty since 1942, serving two years in the South Pacific.

In the department of mathematics two new instructors are Robert R. Bentley and Dr. Martinius Esser. Mr. Bentley served on the IIT staff as an instructor during the summer of 1941 and has since done research at the University of Chicago in the Institute of Meteorology and at Johns Hopkins in the Applied Physics laboratory. Dr. Esser has his *Ph.D. from Northwestern* University and has also studied at the Ecole Polytechnic in Paris, Mathematiques Speciales in Nice and Faculte D'Aix in Marseille.

Radio Newspaper



FACSIMILE—A demonstration of sending a typewritten page complete with pictures by radio will be made tomorrow afternoon when the radio facsimile equipment of the Chicago Tribune will be shown at IIT.

Will Show Reproduction Of Newspapers by Radio

A demonstration of radio facsimile reproduction of newspapers will be presented to Illinois Tech students from 2 to 3 p.m. on Wednesday in Room 305 Main through the courtesy of the Chicago Tribune.

This demonstration, while being sponsored by the electrical engineering department, is open to any students who are interested. Radio waves for the demonstration originate from the Tribune's FM station, WGNB.

Roller Skating, Hayride Feature WAA Fall Plans

At a meeting of the Women's Athletic Association last Friday plans for the fall semester were made. It was also decided that a roller skating party and a sleighride or hayride would be the highlights of the fall term, and that an outdoor barn dance will be held in spring. A dance which was to be held this term was called off.

It was announced that swimming and tennis had been called off, and will probably be postponed indefinitely.

Musical Clubs Give Concert at Pontiac

The musical organizations of IIT returned from Pontiac Sunday night, June 2, after a weekend of concert activities.

The men of the band, glee club, orchestra and swing band left on two chartered buses early Saturday afternoon. Upon arriving at Pontiac they paraded around the cityhall and proceeded to the Armory for sleeping accommodations.

Supper given by the Navy Mothers of Pontiac was followed by a dance at the Armory with the swing band furnishing the music.

The music clubs played their first concert at 11 a.m. Sunday morning in the State Prison.

At 3 p.m they opened the park season with a public concert in the park pavillion.

Featured in the concert was "Warsaw Concerto" by Addinsell with Marie Schrot as piano soloist. Miss Schrot made the trip to Pontiac on the Alton Railroad.

Supper was served at the Moose Lodge, after which the men boarded the bus for the journey home.

Newman Club to Hold Picnic Next Saturday

A picnic has been planned by the Newman Club for next Saturday night, June 15, at 7 p.m. at the "Point," 55th street and the lake.

All faculty members and students are invited. Hot dogs and "cokes" will be supplied free. There will be no charge for the affair. Besides the food, there will be a baseball game, swimming, and other activities.

The picnic will be the last official meeting of the club this semester. Plans are being made for the club to remain active on a smaller scale during the summer. Anyone attending summer school may take part in these coming activities.

Officers were elected for the fall semester at a meeting last Tuesday. Those elected were: President, Jim Hartnett; Vice-president, Bob Ritter; secretary, Pat Kennedy; treasurer, Al Bourdon; program chairman, Louie Tyma; social chairman, Maristell Dixon, and publicity chairman, Phil Weber.

Danek to Head Tau Omega

August Danek was elected president of Tau Omega, honorary aeronautical *Engineering fraternity*, last Thursday evening.

During the same meeting, six new *members* were initiated into the IIT chapter. The pledges were: Tom Feehery, Art Horowitz, Sam Altschuler, Kermit Swanson, George Liegler and Donald Asire.

Integral Editors Announce Publication Will be Delayed

Interrupted schedules, and competition from other schools have delayed publication of the 1946 Integral, according to an announcement made by the editors, Jim Brophy and Chuck Hatstat. The original date of publication was the first week of June, but it has been necessary to extend this to the last week of this month. Graduates will be unable to obtain a copy before graduating, but the staff has made arrangements to mail the book to all graduates, and those navy men who have paid for the issue, but will not return to IIT. Students who wish to have the Integral mailed to them should indicate this by dropping a card in the *Technology News* box in the Student Union lobby. The card should contain the following information: home address, number of full-time terms at IIT as of June, 1946, and class. Those students who have already done so need not repeat the act, according to Herbert Sachs, business manager.

In making the announcement, it was also disclosed that the yearbook will be no larger than the 1945 Integral, because of the critical shortage of 72 pound paper which existed at the time the contracts were signed, and on which the pages are printed. Insistence on this grade of paper insured maximum clarity of the pictures, and allowed clearer type, said Brophy.

The book will consist of 228 pages, and covers every department at Illinois Tech. The sections have been arranged in order of importance to the student, starting with the faculty and administration, carrying on through the graduating classes, the undergraduate classes, student organizations, honorary fraternities, athletic teams, and the social fraternities. Also included is a section devoted to dances and other social functions held by the students.

Last of the wartime yearbooks, the 1946 Integral was designed to cover the preceding three terms. Since the various groups were photographed during the winter term, the membership list of each organization includes only those who were members at that time. It was impossible to cover activities this term because of the deadline, which was set for early in March, according to a statement issued by Hatstat.

Ridings to Address Honor Journalists

Mr. Paul O. Ridings, former director of the IIT News Bureau, will be the guest speaker at the Pi Delta Epsilon initiation tomorrow evening. Martin's Restaurant, 33 N. La Salle St. will be the scene of the national collegiate journalism fraternity affair.

Formal initiation of pledges will be at 6 p.m. This will be followed by a banquet and program at 7:30.

Ridings, who left IIT in 1944, is one of the charter members of the organization. It was due primarily to his efforts that *Technology News* was reorganized in 1943. Since this reorganization program *Technology News* has received three All-American ratings in collegiate journalism competition.

Home Ec. Club Will Meet For Last Time This Term

The Home Economics Club will meet for the last time this term at the annual award tea at 3:00 p.m., Thursday in room 809, 18 South Michigan.

A scholarship will be presented to a deserving home economics student at the tea. The Pillsbury Mills award, a set of twelve books, awarded to an honor student of the department will also be presented. The identities of the two winners will not be disclosed until the tea.

The affair will also be a farewell for nine graduating seniors: Helen Gordon, Hope Iversen, Betty Jordan, Helen Maloney, Dorothy Place, Irene Ptak, Violet Forsberg, and Esther Talvensaari.

FINAL EXAMINATIONS

Third Term 1945-46

A—Alumni Memorial Hall, AH—Assembly Hall in Student Union, C—Chapin Hall, M—Main Building, P—Physics Bldg., D—Downtown Campus.

Friday, June 21, 1946

8:10 a.m. to 10:00 a.m.

Anal. Geom. & Trig., Math 102	500M
Anal. Geom. & Trig., Math 102	600M
Anal. Geom. & Trig., Math 102	600M
Anal. Geom. & Trig., Math 102	502M
Anal. Geom. & Trig., Math 102	305M
Anal. Geom. & Trig., Math 102	A.H.
Anal. Geom. & Trig., Math 102	102D
Calculus, Math 201	500M
Calculus, Math 201	500M
Calculus, Math 201	305M
Calculus, Math 201	A.H.
Calculus, Math 201	A.H.
Calculus, Math 201	202C
Calculus, Math 201	214C
Calculus, Math 202	500M
Calculus, Math 202	502M
Calculus, Math 202	A.H.
Calculus, Math 202	217C
Calculus, Math 202	A.H.
Math. Refresher, Math 300	105C
Math. Refresher, Math 300	211C

10:10 a.m. to 12:00 m.

Navigation & Naut. Astronomy, N.S. 5	204A
Navigation & Naut. Astronomy, N.S. 5	118A
Fund. of English, Eng. 101	500M
Fund. of English, Eng. 101	500M
Fund. of English, Eng. 101	500M
Fund. of English, Eng. 101	305M
Fund. of English, Eng. 101	305M
Fund. of English, Eng. 101	305M
Heat Power Engr., M.E. 401	218A

1:10 p.m. to 3:00 p.m.

Navigation, N.S. 4	204A
Gen. Inorg. Chem., Chem. 101	500M
Gen. Inorg. Chem., Chem. 101	A.H.
Ch.E. (Lect.) Ch.E. 302	102C
Chem. Engr. (Lect.) Ch.E. 401	102C
Quan. Anal. (Lect.) Chem. 201	305M
Structural Design, C.E. 413	220C
Radio Engineering, E.E. 418	105C
Heat Exchange, M.E. 422	502M

3:10 p.m. to 5:00 p.m.

Economics II B.E. 102	500M
Economics II B.E. 102	305M
Economics II B.E. 102	502M
Economics II B.E. 102	102C
Fluid Mechanics Lab., C.E. 324	218A
Reinforced Concrete Des., C.E. 416	220C
Machine Tools Lab. M.E. 319	A.H.

Saturday, June 22, 1946

8:10 a.m. to 10:00 a.m.

Review Algebra, Math 10	305M
Review Algebra, Math 10	A.H.
College Algebra & Trig., Math 101	500M
College Algebra & Trig., Math 101	500M
College Algebra & Trig., Math 101	502M
College Albegra & Trig., Math 101	305M
College Algebra & Trig., Math 101	A.H.
College Algebra & Trig., Math 101	A.H.
Math. for Arch., Math 103	500M
Math. for Arch., Math 104	500M
Math. for Lib. Arts Stu., Math 121	500M
Math. for Lib. Arts Stu., Math 122	500M
Naval Administration & Law N.S. 6	218A

10:10 a.m. to 12:00 m.

Ordnance & Gunnery, N.S. 8	218A
Eng. Comp., Eng. 102	500M
Eng. Comp., Eng. 102	500M
Eng. Comp., Eng. 102	500M
Eng. Comp., Eng. 102	305M
Eng. Comp., Eng. 102	305M
Eng. Comp., Eng. 102	305M
Eng. Comp., Eng. 102	502M
Eng. Comp., Eng. 102	502M
Production Meth. Lab., M.E. 419	200MH

1:10 p.m. to 3:00 p.m.

Chem. (Qual. Anal.) Chem. 103	500M
Chem. (Qual. Anal.) Chem. 103	A.H.
Elem. of Elect. Engr. I, E.E. 205	502M
Thermodynamics, M.E. 305	305M
Thermodynamics, M.E. 306	305M
Amer. Polit. Insti., P.S.S. 276	102C

3:10 p.m. to 5:00 p.m.

Economics I, B.E. 101	500M
Economics I, B.E. 101	305M
Economics I, B.E. 101	502M
Economics I, B.E. 101	204A
Economics I, B.E. 101	218A
Physical Chem., Chem. 309	102C
Thermodynamics, M.E. 316	A.H.
Thermodynamics, M.E. 411	A.H.

Monday, June 24, 1946

8:10 a.m. to 10:00 a.m.

Statics, Mech. 201	500M
Mech. of Mat., Mech. 201	305M
Chemistry, Bi. 111	217C
Adv. Mach. Design, M.E. 430	502M
Modern Europe, P.S.S. 102	102C

10:10 a.m. to 12:00 m.

Appl'd Mechanics, Mech. 203	105C
Appl'd Mechanics, Mech. 204	105C
Appl'd Mechanics, Mech. 207	108C
Str. of Materials, Mech. 208	111C
Surveying, C.E. 202-204	220C
Adv. Circuit Theory, E.E. 405	309C
Home Econ. Survey, H.E. 100	808D
U.S. His. since 1865, P.S.S. 202	114C
Latin-Amer. Republics, P.S.S. 406	218A

1:10 p.m. to 3:00 p.m.

Kinetics, Mech. 202	305M
Fluid Mech., Mech. 302	502M
Fluid Mech., Mech. 302	102C
Embryology, Bi. 312	217C
Art Appreciation, H.E. 110	803D
Prin. of Accts., B.E. 151	105C

3:10 p.m. to 5:00 p.m.

Physiology, Bi. 214	217C
Physiology, Bi. 215	220C
Drawing & Estimating, C.E. 201	217C
Railway & Highway Loc., C.E. 205	213A
Electricity, E.E. 414	102C
Electricity, E.E. 414	105C
Family Economics, H.E. 356	802D

Tuesday, June 25, 1946

8:10 a.m. to 10:00 a.m.

Marketing, B.E. 371	102C
American Public Educ'tion, Ed. 305	105C
Elem. of Elect. Engr. II, E.E. 206	305M
Mechanism, M.E. 201	502M

10:10 a.m. to 12:00 m.

Chem. Engr. (Lect.) Ch.E. 301	102C
Street & Highway Des., C.E. 303	220C
Educational Sociology, Ed. 309	105C
A.C. Circuit Theory, E.E. 306	108C
A.C. Circuit Theory, E.E 306	111C
Introd. to Food Study, H.E., 102	805D
Eng'r. Materials, M.E. 231	500M
Eng'r. Materials, M.E. 232	500M

1:10 p.m. to 3:00 p.m.

Organic Chem. (Lect.) Chem. 204	500M
Organic Chem. (Lect.) Chem. 205	500M
Stresses in Framed Struct., C.E. 303	102C
Rotating Machinery, E.E. 407	105C
Mechanical Processes, M. E. 5	108C
Chicago & Illinois, P.S.S. 405	218A

3:10 p.m. to 5:00 p.m.

Materials & Fluid Mech. Lab., C.E. 321	305M
Materials Lab., C.E. 323	305M
Clothing Problems, H.E. 122	802D
Physics, Phys. 102	500M
Physics, Phys. 201	500M
Physics, Phys. 202	502M
Physics, Phys. 203	102C
Physics, Phys. 204	105C

Wednesday, June 26, 1946

8:10 a.m. to 10:00 a.m.

Adv. Econ. B.E. 212	102C
Adv. Econ. B.E. 213	102C
Engineering Analysis, E.E. 303	218A
Engineering Analysis, E.E. 303	105C
Engineering Analysis, E.E. 304	108C
German, Elem. Ger. 101	305M
German, Elem. Ger. 102	305M
German, Inter. Ger. 202	305M
French, Elem. Fr. 102	305M

10:10 a.m. to 12:00 m.

Steel Buildings, C.E. 304	220C
Structural Design, C.E. 312	502M
Introductory Psychology, Psy. 201	308M

1:10 p.m. to 3:00 p.m.

Theory of Reinforced Concrete, C.E. 505	220C
Applications of A.C. Circuits, E.E. 507	*105C*
Meal Preparation, H.E. 202	805D
Bus. Organ., I.E. 241	305M

3:10 p.m. to 5:00 p.m.

Eng. Electronics, E.E. 310	105C
Applied Design, H.E. 226	802D
Machine Design, M.E. 202	502M

PLEASE REPORT ALL CONFLICTS TO THE OFFICE OF THE REGISTRAR IMMEDIATELY.