

The Other Side

Dr. Jakob devotes life to research

By Gerry Landsman

The second in this series of articles describing the other side of our faculty's activities will be devoted to the life and work of Dr. Max Jakob, research professor of mechanical engineering. To apply the ad-



Dr. Max Jakob

jective prolific to Professor Jakob would be a gross understatement of fact. During the course of his life Dr. Jakob has published over 150 papers on scientific research, he has published over 150 papers on scientific research. Besides accomplishing this tremendous volume of research, he has headed many scientific committees, edited periodicals and handbooks, and acted as consultant to engineering societies.

Dr. Jakob, a student of the Technische Hochschule in Munich (Royal Institute of Technology) received his Doctor of Engineering degree in 1904. Majoring in electrical engineering and applied physics, he wrote his thesis on aluminum electrolytic rectifiers. Entering industry, he held electrical engineering positions with several German and Swiss manufacturers.

Takes new post

However, in 1910 he abandoned his work on a train illumination and heavy electrical machinery to take a post as Imperial Professor in the Physikalisch-Technische Reichsanstalt which corresponds to the U. S. Bureau of Standards. Dr. Jakob founded and directed the laboratories for heat and fluid flow and later became director of the laboratories of viscosimetry and devices for the oil industry also.

During this same period Dr. Jakob was made chairman of the German Engineers Committee for Heat Research and acted as scientific adviser for the German Association of Mechanical Engineers. In 1930 Professor Jakob in conjunction with the above society founded and was the first editor of the magazine "Forschung" (Research in the Field of Engineering).

The next year he delivered a series of lectures at the University of London on the subject "Steam Research in Europe and America." In 1932 he was to add to his publication duties by becoming editor of the "Chemisch-Ingenieur," a 13 volume handbook of chemical engineering.

Tours U. S. in 1936

Returning from his many posts in Germany, Professor Jakob undertook a lecture tour of the U. S. in 1936. Among the many famous institutions of learning at which he spoke

was Armour Institute of Technology.

His lectures on this tour are published in "Mechanical Engineering." Soon after the conclusion of this tour he became director of the Heat Exchange Laboratory of the Armour Research Foundation and a research professor of mechanical engineering at IIT.

Work indicates versatility

Dr. Jakob's main field of endeavor has been in thermodynamics and heat transfer. He has accomplished a large amount of important work in such fields as steam and air at high pressure, devices for measuring thermal conductivity, the mechanism of boiling and condensation, flow in pipes and nozzles, packed and catalytic tubes, and photographic methods applied to boiling and heat radiation. The establishment of the international heat unit on electric units was the result of Dr. Jakob's suggestion.

A series of lectures given by Dr. Jakob at Purdue University

Bibb revises book on practical math

Mr. Bibb recently revised the book, "Practical Mathematics for Home Study," which he wrote some time ago with Dean Palmer, former dean of the Armour Evening School. Mr. Bibb used the book with the pre-engineers last summer. He has stated that it is already being used in the states of Georgia and Missouri to teach mathematics to servicemen.

under the title of "A Survey of the Science of Heat Transfer" has been published in their bulletin. At present Professor Jakob is doing research in heat transfer in boiler tubing, packed tubing and temperature distribution in such heat sources as electric coils. He is on the War Research Committee and has done consulting work for the War Department and various manufacturers.

Correction: In the article on Dr. Reissner appearing in the April 6 issue the name Professor Muller is incorrect. It should be Professor Muller Breslau.

MAN OF THE WEEK

Mr. Byron J. Round, one of the most active members of the junior mechanical engineering class, is this week's "Man of the Week."

Last semester, the juniors decided that he was ideally suited for the job of leading their class and elected him president of that body. Since that time he has discharged the duties of his office in an excellent manner.

Byron is the mechanical's representative on the honor board, and is also the secretary of this organization. A great deal of his time is devoted to his position as secretary of the Engineers Co-operative.

Due to his high scholastic average and his contributions to the improvement of the school and its activities, Byron has recently been initiated to the honorary mechanical engineers fraternity, Pi Tau Sigma.

As a freshman advisor, he aided in the registration and guidance of the present freshmen. He has further distinguished himself in the past two years as a member of the wrest-



Byron Round

ling team. He has also played on all of the mech's intramural baseball and basketball teams.

Perhaps his most notable accomplishment has been outside of school life. Last week he was married to the former Miss Helen Sima.

Byron Round is an example of the outstanding students who contribute much to IIT.



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