

SESSION ON
HYDRAULIC TRANSMISSION OF POWER

Session Chairman: JOHN S. McNOWN

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INTRODUCTORY REMARKS

With peace-time adaptation of war-time development as the theme of this conference, it is appropriate that the topic of hydraulic transmission of power have a place on the program. The important role played by this phase of mechanical hydraulics is indicated by the innumerable applications found in planes, tanks, and ships, and the peace-time adaptation of the advancements which they represent makes this topic an important one. An added reason for its inclusion is that hydraulic engineers interested primarily in civil engineering projects are not well acquainted with this closely related field, and it is well known that an interchange of ideas between two related fields is beneficial to both. Therefore, the program has been planned so as to present not only a description of accomplishments in this field, but also the problems involved in its further development.

The mechanical hydraulic engineer's viewpoint is to be presented by Mr. Howard Field, Engineering Consultant of Los Angeles, California. In the twenty-odd years since he completed his studies at the University of Illinois and Massachusetts Institute of Technology, his record of achievement clearly indicates his prominence in this field. He was one of the first two engineers to apply hydraulic controls to aircraft, has presented a number of papers on this topic to the Society of Automotive Engineers and the American Society of Mechanical Engineers, and is Western Chairman of the Hydraulic Standards Committee for both the Society of Automotive Engineers and the National Aircraft Standards Committee.

Prior to his present work as Engineering Consultant he was Chief Hydraulic Engineer of the North American Aviation Company.

Following the discussion of this topic, animated motion pictures prepared by the Oilgear Co. of Milwaukee, Wisconsin, for the training of army and navy technicians will be shown by Mr. J. K. Douglas, Chief Engineer of the Oilgear Company. In addition, both working and cut-away models will be displayed and described by Mr. M. J. Taup, representing Vickers, Inc., of Detroit, Michigan.