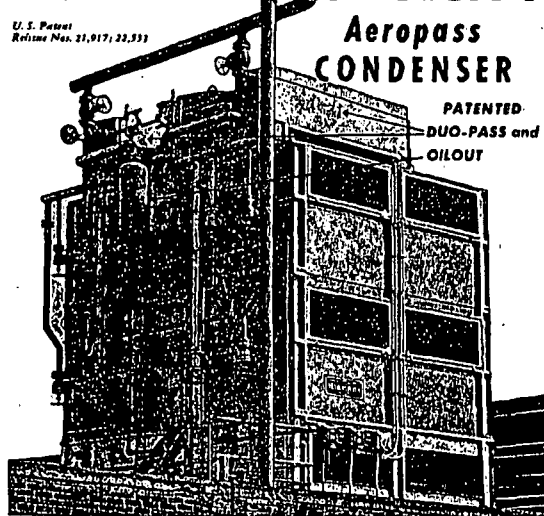


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U. S. Patent
Reissue Nos. 21,917; 22,531

Aeropass CONDENSER

PATENTED
DUO-PASS and
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SAVE UPKEEP COST

For large refrigeration systems, NIAGARA gives you a choice between a battery of condensers (that may be cut on or off with the load) or a high capacity condenser that saves space.

Both have the patented "Duo-Pass" and "Oilout" that remove superheat and keep the system free of oil. Results: you save one-third or more of power cost and upkeep expense. Niagara Patented Balanced Wet Bulb Control gives lowest head pressure operation automatically. Write for Bulletin 111.

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More POWER NEWS

Begins on page 123

nical sessions, three luncheon meetings and two banquets.

Delegates from 29 Institute branches covering the full breadth of the Commonwealth brought total convention registration to 2500. By Sept 30, a 38.3% jump in membership had insured more than 1000 new members for this year and brought total registration to 3500.

Dr David A Keys, Chairman, Project Coordinating Committee of Atomic Energy of Canada, officially opened the convention and power show with an address, *Industrial Applications of Atomic Energy*. He stated that Canada's atomic scientists are abreast of developments in both the United States and Great Britain, that her experts are sticking to their predictions that it will be ten years before useful electric power can be developed from atomic reactors. Atomic power plants are feasible on a commercial basis, Keys said, but considerable research will be needed at the pilot plant level before industry can use them.

Papers presented at the technical sessions included: *Turbulent Suspension Burning of Waste Fuels* by Otto de Lorenzi of Combustion Engineering, *By-product Power* by John Aikman of Canadian Celanese Ltd, *Reducing Flue Dust Emission* by Charles H Marks of Bituminous Coal Research, *Steam Turbines* by D F Abel of Canadian General Electric Co, and *Place of Steam Power in Canada* by E R Davis, consulting engineer.

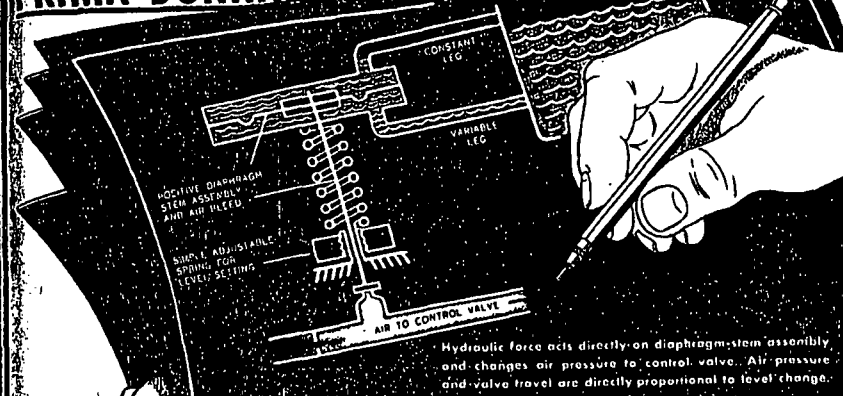
Abel reviewed the development and application of steam turbines from their earliest days down to the present and then took a look at the future. He said that the trend toward higher temperatures and pressures will continue and will extend itself right down to mechanical-drive turbines. Today the metallurgist holds the key to this progress, Abel said, since it is practically impossible for the design engineer to improve performance until he's given improved materials with which to work.

The steam turbine now holds the spotlight in the power field, and everyone is wondering what will be revealed next. During the last five years, pressures have risen from 1800 to 4500 psi, temperatures from 1000 to 1150 F. Single-shaft, 3600-rpm units will soon generate 200,000 kw as compared with the 100,000-kw units of five years ago. There appears to be no limit. The steam turbine industry anticipates that it eventually will build units capable of delivering half a million kw.

ASME Honors Dr Adolph Meyer

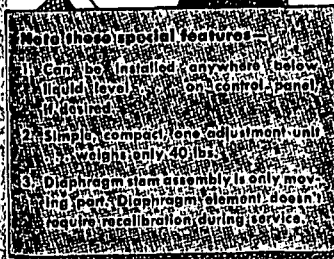
THE GAS TURBINE POWER division of the American Society of Mechanical En-

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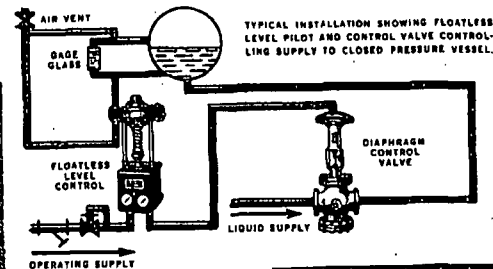
Thousands are in service today, providing accurate control of liquid level (plus or minus 1" water column) and eliminating the problems caused by troublesome linkages, torque tubes, floats and stuffing boxes.



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