

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS

Energy Conversion and Transport Division



In reply please address:

Institute of Nuclear Science
and Engineering
Argonne National Laboratory
9700 South Cass Avenue
Argonne, Illinois 60440

August 6, 1964

Mr. Eugene F. Adiutori
Stability Consultants
Box 18062
Cincinnati, Ohio, 45218

Dear Mr. Adiutori:

I am returning two copies of your manuscript "Nucleate Boiling- The Relationship Between Heat Flux and Thermal Driving Force" submitted to Dr. R. F. Gaertner for the Symposium on Heat Transfer with Phase Change for the Boston Meeting and I am retaining one copy for my file. On the recommendation of three reviewers and my own judgement this paper has been rejected.

It has been difficult to get a thorough review of your paper as several competent reviewers have returned it with the simple, qualitative statement that it was obviously incorrect and should be rejected. However, we bend over backward in the review of a paper which proposes to overthrow any of the universally accepted relationships and I have taken special care in the case of your paper to insure that we are correct in its rejection.

The sixty-two experimental points represent a very small fraction of the data available in the work of Cichelli and Bonilla and of Berenson and certainly of those available by dozens of authors in the open literature. They particularly represent a narrow range of the temperature difference between the surface and the bulk fluid temperature and, as several reviewers have pointed out, any function can be linearized over a small enough range. However, even the points you have so carefully selected do not prove your point since the data you labeled natural convection can be seen to be boiling data by reference to the original work.

Mr. E. F. Adiutori

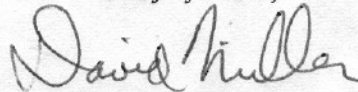
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Although the paper can be rejected on purely technical grounds the incoherence of the arguments presented and the overly wordy and personal style would be additional grounds. I suggest you get assistance in preparation of future manuscripts to check the technical content and style before submission.

Any author who attempts to demonstrate incorrectness of well accepted technical relations has a particular obligation to thoroughly document his case and to present it with the maximum of clarity. I suggest you will do more damage than good to your reputation by presenting and publishing work which does not meet high standards of accuracy and of presentation.

Sincerely yours,



David Miller
Papers Chairman

DM/slb

cc: R. F. Gaertner
Harding Bliss
S. P. Kezios

Enc.