

March 1, 1964.

Dr. Warren M. Rohsenow, Professor
Mechanical Engineering
MIT
Cambridge 39, Massachusetts

Dear Dr. Rohsenow:

Thank you for reviewing my manuscript entitled

Nucleate Boiling--The Relationship Between Heat Flux
and Thermal Driving Force

and which you recommended against publication.

You state that you disagree with my conclusion (which disagreement places you with the majority) and you request that I plot up some data and that this might show you and myself something interesting. In point of fact, I have done just that, although I did not see fit to place such plots in the manuscript. That you and I may reach agreement in this matter, allow me to indicate that I plotted up a good deal of the data from the following two widely accepted reports:

Berensen's report on transition boiling (1960)

The report by Cichella and Bonilla

It will no doubt amaze you as I myself was amazed, but I was unable to find any non-linearity in the data from the above reports. It is true that the data plots up quite well on log-log paper, but as my manuscript points out, this is simply a mirage and the same data plots up beautifully on linear paper. I showed such plots to Dr. Bonilla and he shared my amazement, although he seemed inclined to believe that both methods are correct.

I therefore make you the following offer:

If you will send me the coordinates of five runs of Berensen's which you will select, I will plot them up and send you copies that we may reach a rapport in this matter.

I am sure that we both agree that the per se importance of this particular point is far from earth shaking. However, we can never expect to improve our understanding of the boiling process as long as we insist on retaining the incorrect functionality between the important variables.

I look forward to hearing from you in this matter which interests both of us. I should also add that you are in store for several surprises if you plot up some of Berensen's data yourself.

Thank you for your interest in my manuscript.

Sincerely yours,

Eugene F. Adiutori
President

EA/mh