



# FATS AND PROTEINS RESEARCH FOUNDATION, INCORPORATED

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THE DIRECTOR'S DIGEST

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Technical Director

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Greetings to all FPRF Members -

It has now been five weeks since I assumed my duties and responsibilities as Technical Director. In this brief period of time it has of course not been possible to become completely familiar with the entire research program supported by FPRF but I have begun to get some "feel" for the philosophy of the research and the importance of this program to producers of fats and proteins.

FPRF has indeed been fortunate in having an active, hard working Research Committee under the able chairmanship of Gene Hopton. This committee, with the advice and stimulation of Dr. Allan Berne-Allen and the complete co-operation of Bob Fleming and other members of the Board of Directors, has done an outstanding job of placing research contracts and grants. They have devoted many hours to following the research projects to make sure that your dollars were well spent and that the research results were valuable and meaningful to you.

I know that the Board of Directors and Research Committee are anxious to make the FPRF program even more meaningful, and you may be assured that I shall do my very best to make our organization one of the finest and most productive research foundations in the world. You can help by sending to me your ideas, questions, comments and criticisms - they will be most welcome.

To keep you informed about the FPRF program and research projects, we plan to send to you monthly from my office this "Director's Digest". Each future issue will contain a brief up-to-date resumé of one project, notes on more important findings on other projects, references to noteworthy research

reports from technical publications, and occasional news items of particular interest to FPRF members. If you have suggestions for improving "The Director's Digest" please let me know. It must be valuable to you, or it isn't worth sending out.

And now just a few sentences about some of the current research projects. Recent pilot enzymatic rendering runs on the Battelle-Theobald project have produced good high-protein meal but of higher fat content than is desirable. Processing modifications are expected to correct this. When sufficient satisfactory product has been produced, it will be used for feeding tests with calves, swine and poultry at a number of colleges and universities. Field tests with sucrose tallow glycerides as surfactants in herbicide sprays are continuing at the University of Arizona. This material is also being included as an adjuvant in nutritional sprays for apples at the Tree Fruit Experiment Station, Washington State University. Tests of these sugar glyceryl tallowates in all types of agricultural sprays are planned in other Agricultural Experiment Stations. The project on Fat Utilization at Battelle Memorial Institute is yielding some very interesting and valuable information. Some derivatives of fat impart very good waterproofing properties to concrete. Other derivatives show promise as air-entraining agents for low density concrete. The annual report recently received from the Eastern Utilization Laboratory gives rather complete amino acid analyses for the globular protein fraction from eight samples of meat and bone meal. As would be expected, the amino acid composition of this fraction from all samples was very similar. The amino acid profile indicates that this fraction could be a very high quality protein. The final report from the Odor Control Project at Battelle Memorial Institute has been received. This report recommends that the most satisfactory and economical method of odor control for rendering plants would be by air diffusion which can be accomplished by using stacks of appropriate heights. A resumé of this final report will be distributed to all FPRF members in the near future.

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