

*“...for the benefit  
of the  
membership...”*



JOHN EVERETTS, JR.  
President ASHRAE

The fiscal year 1961-62 marks another milestone in our history. This is the beginning of the first full year of operations since the merger of our two great predecessor Societies, which was consummated on January 29, 1959, and by law required to operate on a semiannual basis until the end of the interim period.

The past two and one-half years have been rather difficult as far as the administration of our Society is concerned. The short periods of the Officers, Board of Directors, duplication of offices, and duplication of personnel have made it difficult to operate on an efficient scale compared with a unified operation which we shall now have.

As we move into our new office in the United Engineering Center this summer, we are contemplating a more efficient organization at the headquarters level, more efficient services to our membership and better communication between the National operations and the Chapter level, which is most important in a membership organization such as ours. After all, the membership makes the Society.

There are certain areas of the Society operations in which we must now make a critical review of the direction in which we must go to foster the aims and policies of our Society. In order to do this, the basic ingredient for sound progress in our Society is agreement of purpose. Agreement of thinking, our expressions, and our actions are most important so long as they are for the benefit of the membership to continue to keep our Society in the lead in our industry which it has enjoyed for many years.

There are four major divisions in our Society which are all of equal importance and which our administrative program for the next year must consider on a high priority. These are Finance, Membership, Publications and Research. These are in alphabetical order and not in order of importance. They are all important.

Our financial operations have reached the point where creeping inflation has increased our operating costs at a rate greater than the rate of

income from new members, advertising and other sources. In order to give better services to the members, it has been necessary to cut certain expenditures and increase the income to augment our general income to maintain a balanced budget. Your Finance Committee has been working diligently to cut expenses and at the same time increase membership benefits, such as travel expenses to important committee meetings; the task of maintaining a balanced budget is not an easy one.

The Long Range Planning Committee is also studying ways and means to streamline a number of the operating divisions of the Society to reduce operating costs without reducing the benefits to the membership.

The problem of Membership is basic to our existence. If we had no members, we could not exist. Conversely, the stronger our membership, the stronger our Society. We now are approaching a membership of 18,000, and there are many problems at the membership or grass roots level which must be resolved. One of these is increase in membership for the Chapters as well as the Society as a whole. The Membership Development Committee is now working on a program for the Chapters to implement a membership drive to increase our membership in proportion to where it should be in relation to the advancement of our industry. This program together with the Public Relations Committee program should be available before the active operations of the Chapters this fall.

Chapter Programs as well as Chapters Regional Meetings are under study by the Regions Central Committee for improvement in these areas. Any suggestions by the Chapters or any member will be welcome.

Our publications consist of four major ones, namely, the JOURNAL, the GUIDE AND DATA BOOK, the Transactions and the Standards. There are many minor publications such as Symposiums, Research Bulletins, Operational Guides, Chapter By-

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considerations, both have relatively low boiling points, so that they might cause problems in an absorption refrigeration system. In this respect, N,N-dimethylacetamide has a considerably lower volatility and this compound should be tested in the future. The N,N-dialkylformamides may also require additional investigation to determine if they are adequately stable in a refrigeration cycle.

Although the ternary solutions used in this investigation did not increase solubility, they may prove useful in improving solvent properties such as viscosity, stability and corrosiveness. For instance, tetraethylene pentamine reacted with the refrigerant, but a 50:50 mixture of DME-TEG and tetra-

ethylene pentamine did not appear to react.

In future work on ternary systems, it would be of interest to study the effects of adding a highly associated liquid or a polar salt to an organic solvent. Such additions might increase the solubility of the refrigerant in the solution.

#### CONCLUSIONS

Several nitrogen-containing organic solvents were tested; some amines, nitriles and formamides were found to be good solvents for Refrigerants 21 and 22, which contain a hydrogen atom and hence can hydrogen bond. The two best solvents found were dimethyl formamide and diethyl formamide. These two solvents produce mix-

tures that have C.O.P. about 15 and 2%, respectively, better than mixtures containing the dimethyl ether of tetraethylene glycol. C.O.P. values ranging from 0.27 to 0.44 were estimated for mixtures of the formamides.

Several binary mixtures were investigated as solvents for the refrigerant, but none of those tested showed improved solubility characteristics as compared to the pure compounds.

#### ACKNOWLEDGMENT

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Laws, Public Relations Literature and other miscellaneous publications.

The JOURNAL has received a great deal of criticism in the past, much of which has been unjustified, some constructive and some negative. The Long Range Planning Committee is now studying methods by which the JOURNAL can be of more importance to the membership as well as more profitable to advertisers in order to increase our advertising income to the Society. Again, your suggestions will be welcome.

The GUIDE AND DATA BOOK, which is a combination of the ASHAE Guide and the ASRE Data Book, has been a most prodigious job requiring many hours of work on the part of the Committee and many hours on the part of Carl Flink, Staff Editor, and his assistant, Carl MacPhee. The results of the work of these people will be more than appreciated when the new volume is released next month.

The Transactions are the history of technical progress by our industry through papers contributed through industry and our own research programs. The cost of producing these Transactions has been reduced greatly by headquarters staff and they are thus available to the membership for a small additional cost.

The Standards which are published by the Society are recognized throughout the world and have been adopted not only by our own industry but by American Standards Association, International Standards Organization and many of our allied industries.

Regarding Research, we cannot deny that the past year has been rather a difficult one. Misinterpretation of facts, emotional stress and suspicion on the part of a few have been created by lack of knowledge of details. There is no question in my mind that every officer and every member of the Board of Directors is 100% behind a strong and vigorous program of Research. How this is done is a detail. The fact that it must be done is the important issue to which your Board of Directors is giving its wholehearted support. Your Board of Directors and your Long Range Planning Committee are composed of men of the highest standing in their profession, men of the highest integrity and men of prudent judgment. These men are dedicated in their work for the Society and to the interest of the membership. They certainly cannot be accused of self interest, misappropriation of membership interest or scuttling the Research activities of the Society.

We are a strong, healthy and vigorous Society and, now that the interim period of merging is over, we must devote our interests and energies to promoting our aims and objectives as a Technical Society. If we will do this in a spirit of cooperation and with unity of agreement, our progress will be inevitable.