

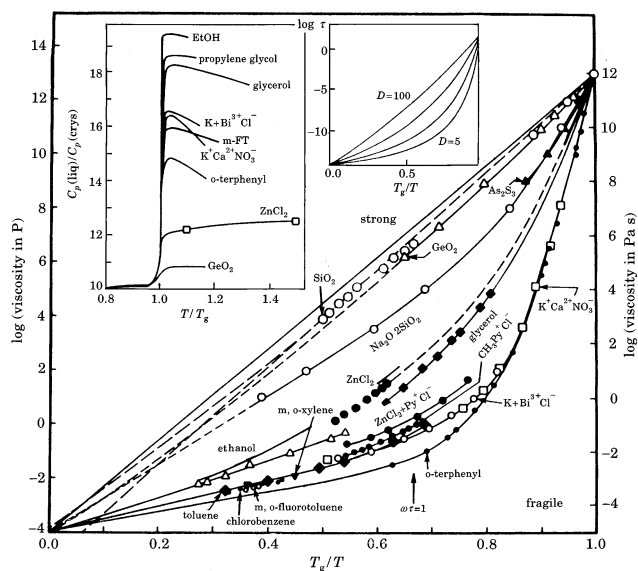
Photograph by Tim Trumble

## Introduction

This issue of *The Journal of Physical Chemistry* is dedicated to Professor C. Austen Angell on the occasion of his 65th birthday.

Austen Angell is an exciting and creative scientist, internationally recognized for his pioneering work on the physics and chemistry of liquids and glasses, solid-state ionic conductors, and the properties of water. In particular, his recognition that liquids can be categorized by classifying them between “strong” and “fragile” extremes on the basis of their transport properties using the glass transition temperature as scaling parameter has deeply influenced this field of science. For many, his research can be epitomized by the adjacent figure which was published in an obscure workshop report by the U.S. Government Printing Office, but survived by dint of photocopying to become a staple component of many papers in this area. However, this would be to ignore a number of comparably influential data representations in the fields of metastable water, relaxation spectroscopy, and geochemistry.

As with any productive scientist, some of his papers have been “sleepers”, whose proper appreciation will be left to future generations. An example is his presentation of the first data



monitoring the glass transition in terms of a structural feature (the degree of H-bonding in a polyalcohol) that can be readily intuited.

At this time the aqueous salt glasses that he and his coworkers first characterized and the aqueous sugar glasses on which he has subsequently worked are being adapted by the pharmaceutical industry to provide drug preservation media of choice, and some of the numerous electrolyte formulations he has patented are in competition for use in the portable power packs of the future.

As a consequence of his pioneering activities he has been in much demand as a lecturer and indeed has been the opening speaker at some 18 international meetings or symposia (mostly in theoretical physics) in the past decade. Perhaps more significantly, he has been an invited speaker or discussion leader at one or more Gordon Research Conferences almost every year

since 1965, and has been elected to be the chairman/scientific organizer of three such conferences. He has been the recipient of numerous awards for his work, including the Morey Award from the American Ceramic Society and the Mott Award from the *Journal of Non-Crystalline Solids*.

In support of these activities, Professor Angell has published over 360 scientific papers with students, postdocs, and colleagues. Austen is a vital and dedicated researcher, teacher, and communicator who designs simple and elegant experiments with results and interpretations that change our fundamental understanding of physical science. We join his many friends and colleagues in wishing him a long, enjoyable, and continuing fruitful life.

**J. L. Green**  
**C. T. Moynihan**  
**R. J. Speedy**  
**H. E. Stanley**  
**L. M. Torell**

*Guest Editors*