

## Preface to the Arnim Henglein Festschrift

Arnim Henglein has had an amazing career in physical chemistry, starting with fundamental studies of gas-phase dynamics using mass spectroscopy and ending with nanotechnology. During his career, he made seminal contributions in the fields of Radiation Chemistry, Polymer Chemistry, Colloid and Surface Chemistry, Electrochemistry, Photochemistry, and Sonochemistry and has been a mentor for several generations of scientists—both in Germany and around the world. This Festschrift Issue attempts to bring together papers from workers in many of the fields to which Arnim contributed. The contributors include many of Arnim's students, colleagues, and co-workers, as well as some competitors! The breadth of topics covered by these papers provides a measure of how diverse Arnim's scientific interests have been over the course of his career, and the quality of the papers is a tribute to his many seminal and long-lasting contributions across a broad spectrum of modern scientific fields.

When we asked people to contribute to the Arnim Henglein Festschrift Issue, the overwhelming response that we received was "well deserved and long-overdue." It is also appropriate that this Festschrift appear as part of *The Journal of Physical Chemistry*, which Arnim has long supported, both as a contributor and as a member of the Editorial Advisory Board. Unfortunately, despite efforts to contact as many people as possible whom we felt could contribute to this issue, tight deadlines (or experiments that did not finish on schedule!) have meant that some people who have strong connections to Arnim, either as students or co-workers, missed a chance to contribute as they wished. To these people we apologize, and we hope you can appreciate the issue for what it is, a tribute to Arnim's long and outstanding career in physical chemistry. To others who only know Arnim by reputation, we hope this issue will give you an appreciation for what Arnim has achieved. We also hope that this issue will serve as a useful overview of several very important fields, in particular, sonochemistry, radiation chemistry, and nanoparticle research.

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