

Welcome to *ACS Nano*

Welcome to *ACS Nano*! As Dr. Heine Rohrer puts it in our Conversation (on p 3 of this issue), the nanoscale is where disciplines merge and where they bifurcate. It is an exciting time in that we can not only peer into the world at this scale, but we can measure nanoscale properties and manipulate structures and properties all the way down to the atomic level.

As the emergent properties of nanoscale structures and assemblies have become apparent, many strategies have been developed to access this scale—through synthesis, assembly, lithography, measurements, theory, simulations, and modeling. This has led to increasingly interdisciplinary, complex, and multifaceted approaches.

One of the great traditions of the chemical sciences is that one's work can be reproduced anywhere in the world by following published methods of synthesis, assembly, diagnostics, and measurements. Up to now, the lack of a single high-quality venue for such comprehensive publications in nanoscience and nanotechnology has handicapped our field. Given the complexity of approaches applied, complete, in-depth articles are needed to allow us to build on each other's work. It was for this purpose that the editors of a number of American Chemical Society journals first suggested starting *ACS Nano*, which we believe will fill this void and more.

Now, we will have the chance to speak across disciplinary boundaries, to share approaches and pitfalls. We see our role as critical in "going deep" in chemistry, biology, biomedicine, engineering, materials, physics, and related fields, all at once. It is a daunting challenge. Already, hundreds of authors and reviewers and many staff at ACS have contributed to assembling this inaugural issue, in which you will find interdisciplinary work in devices, materials, nanolithography, nanomanipulation, nanomedicine, self-assembly, and sensors. We hope that you will join us on this adventure, and we will depend on you and your colleagues to make *ACS Nano* what we imagine.

Among the features in *ACS Nano* will be focus articles, reviews, forward-looking perspectives, and conversations with leaders in our field. The purpose is to look where we are going and where we could go, to expose opportunities and challenges, and to help catalyze advances.

The nanoscience and nanotechnology communities are arguably the most advanced in terms of employing new technology. Additionally, there is literally a following among the public and particularly pre-college youth worldwide, many of whom have a voracious appetite for science. We will include this community, as well. Look for additional online content designed to help the public and students comprehend our field and to help enhance our understanding of the multi-disciplinary content presented in the journal. We include such tools as web-enhanced objects, inter-article linking, podcasts, and more. Please check out our new features at www.acsnano.org.

Finally, I would like to thank my fellow editors—Profs. Dawn Bonnell, Paula Hammond, and Grant Willson—and the ACS Publications staff for getting *ACS Nano* off the ground.



Paul S. Weiss
Editor-in-Chief

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