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AWARDS RECIPIENTS



**SCIENCE :**  
**PAUL CREMER, PH.D.**

Paul S. Cremer, a pioneer in the field of biological interfaces, is a professor of chemistry and holder of the Arthur E. Martell Endowed Chair of Chemistry at Texas A&M University. Cremer received his doctorate in chemistry from the University of California-Berkeley in 1996 and spent two years as the ACS-Irving S. Sigal Postdoctoral Fellow at Stanford University prior to coming to Texas A&M in 1998. His research group works at the interface of physical chemistry, biochemistry, sensor design and nanomaterial science.

A central focus of the Cremer group has been studies on interfacial water structure and ion-macromolecule interactions (the Hofmeister Effect). In related work, the Cremer laboratory has made major progress toward understanding the mechanism by which urea denatures proteins as well as elucidating the mechanisms involved in ligand-receptor binding at fluid biomembrane interfaces. Many analytical techniques such as temperature gradient microfluidics, local pH modulation for label-free biosensing and on-chip binding constant measurements were invented or developed in the Cremer laboratory.

Cremer's research excellence has been recognized with a plethora of prestigious awards, including the Pittsburgh Conference Achievement Award (2006), the Sigma Xi Southwest Regional Young Investigator Award (2006), the Robert A. Welch Foundation Norman Hackerman Award in Chemical Research (2006), a Camille Dreyfus Teacher-Scholar Award (2003), an Alfred P. Sloan Research Fellowship (2002), the Beckman Young Investigator Award (2001), a National Science Foundation CAREER Award (2001), the Office of Naval Research Young Investigator Award (2000), the 3M Non-Tenured Faculty Award (2000) and the Research Corporation's Research Innovation Award (1999). In 2009 he was named a Fellow of the American Chemical Society (ACS). He currently serves as an associate editor for the Journal of the American Chemical Society, the flagship journal of the ACS, as well as on the editorial boards of Chemical Reviews, Langmuir, Surface Science and Biointerphases.