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**Research Axis:** Nanotechnology, nanomaterials, Materials Science, Chemistry & Biochemistry.

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Paul S. Weiss holds a UC Presidential Chair and is a distinguished professor of chemistry & biochemistry and of materials science & engineering at UCLA. He received his S.B. and S.M. degrees in chemistry from MIT in 1980 and his Ph.D. in chemistry from the University of California at Berkeley in 1986. He was a postdoctoral member of technical staff at Bell Laboratories from 1986-88 and a visiting scientist at IBM Almaden Research Center from 1988-89. He served as the director of the California NanoSystems Institute and held the Fred Kavli Chair in NanoSystems Sciences at UCLA from 2009-14. Before coming to UCLA, he was a distinguished professor of chemistry and physics at the Pennsylvania State University, where he began his academic career in 1989. His interdisciplinary research group includes chemists, physicists, biologists, materials scientists, mathematicians, bioengineers, electrical and mechanical engineers, computer scientists, clinicians, and physician scientists. They focus on the ultimate limits of miniaturization, exploring the atomic-scale chemical, physical, optical, mechanical, and electronic properties of surfaces, interfaces, supramolecular, and biomolecular assemblies. They develop new techniques to expand the applicability and chemical specificity of scanning probe microscopies. They apply these and other tools to study self- and directed assembly, and molecular and nanoscale devices. They advance nanofabrication down to ever smaller scales and greater chemical specificity to operate and to test functional molecular assemblies, and to connect to the chemical and biological worlds in neuroscience, gene editing, cancer immunotherapy, and the microbiome. He has written over 400 publications, holds over 30 patents, and has given over 800 invited, plenary, keynote, and named lectures.

Weiss has been awarded a National Science Foundation (NSF) Presidential Young Investigator Award (1991-96), the Scanning Microscopy International Presidential Scholarship (1994), the B. F. Goodrich Collegiate Inventors Award (1994), an Alfred P. Sloan Foundation Fellowship (1995-97), the American Chemical Society (ACS) Nobel Laureate Signature Award for Graduate Education in Chemistry (1996), a John Simon Guggenheim Memorial Foundation Fellowship (1997), a NSF Creativity Award (1997-99), the ACS Award in Colloid and Surface Chemistry (2015), the ACS Southern California Section Tolman Medal (2017), the ACS Patterson-Crane Award in Chemical Information (2018), and the IEEE Nanotechnology Pioneer Award (2019), among others. He was elected a fellow of the: American Association for the Advancement of Science (2000), American Physical Society (2002), American Vacuum Society (2007), ACS (2010), American Academy of Arts and Sciences (2014), American Institute for Medical and Biological Engineering (2016), Canadian Academy of Engineering (2017), Materials Research Society (2019), and an honorary fellow of the Chinese Chemical Society (2010) and Chemical Research Society of India (2020-21). He was also elected a senior member of the IEEE (2009). He received Penn State's University Teaching Award from the Schreyer Honors College (2004), was named a nanofabrication fellow at Penn State (2005), and won the Alpha Chi Sigma Outstanding Professor Award (2007). He was a visiting professor at the University of Washington, Department of Molecular Biotechnology (1996-97) and Kyoto University, Electronic Science & Engineering Department and Venture Business Laboratory (1998 and 2000), and a distinguished visiting professor at the Kavli Nanoscience Institute and the Joint Center for Artificial Photosynthesis at Caltech (2015). He is a visiting scholar at the Kavli Institute for Bionano Science & Technology and the Wyss Institute for Biologically Inspired Engineering at Harvard University (2015-). He held the Institut National de la Recherche Scientifique (INRS) Chaire d'excellence Jacques-Beaulieu (2016-17) and was a Fulbright Specialist for the Czech Republic (2017). Weiss was a member of the U.S. National Committee to the International Union of Pure and Applied Chemistry (2000-05). He has been the technical co-chair of the Foundations of Nanoscience Meetings and thematic chair of the Spring 2009 and Fall 2018 ACS National Meetings. He was the senior editor of IEEE Electron Device Letters for molecular and organic electronics (2005-07), and is the founding editor-in-chief of ACS Nano (2007-). At ACS Nano, he won the Association of American Publishers, Professional Scholarly Publishing PROSE Award for 2008, Best New Journal in Science, Technology, and Medicine, and ISI's Rising Star Award a record ten times.