



Chemical Engineering

Fall 2022 Seminar Series

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**Metallic Nanostructures for
Tunable Optics, Plasmonics and
Optical Metamaterials**



Andrew C. Hillier

**Professor and Reginald R. Baxter Endowed
Department Chair
Iowa State University**

December 2, 2022

66-110

3:00-4:00pm

2:45pm Reception

Andrew C. Hillier is Professor and Reginald R. Baxter Endowed Department Chair of the Department of Chemical and Biological Engineering at Iowa State University. Dr. Hillier received his B.S. in chemical engineering from the University of Nebraska in 1990 and his Ph.D. in chemical engineering from the University of Minnesota in 1995 working with Prof. Michael D. Ward. Following a postdoctoral appointment at the University of Texas at Austin working in the laboratory of Allen J. Bard, he started his academic career at the University of Virginia, where he rose to the rank of Associate Professor. While at Virginia, Hillier was a member of the Department of Chemical Engineering and the Center for Electrochemical Science and Engineering (CESE). In 2003, Hillier moved to Iowa State University to join the faculty of the Department of Chemical and Biological Engineering and the Department of Chemistry. At Iowa State, Hillier has been on the Executive Committee of the Institute for Combinatorial Discovery, Associate Scientist with the Ames Laboratory, director of the W.M. Keck Laboratory for High Throughput Atom Scale Analysis, and has served as Chair of the Department of Chemical and Biological Engineering since 2013. Hillier's research interests include electrochemistry, thin film design and characterization, scanning probe microscopy, optical sensing at nanostructured surfaces, and atom probe tomography. Hillier has been recognized with several awards during his career, including the Camille and Henry Dreyfus New Faculty Award, a National Science Foundation CAREER Award, and a Young Investigator Award from the Office of Naval Research, a Young Investigator Award by the Society of Electroanalytical Chemistry, and is Fellow of the American Association for the Advancement of Science and the American Institute of Chemical Engineers.