

2. E. A. Smith, W. D. Thomas, L. L. Kiessling, and Robert M. Corn, "Surface Plasmon Resonance Imaging Studies of Protein-Carbohydrate Interactions," *J. Am. Chem. Soc.*, **125** 6140-6148 (2003).
3. E. A. Smith and Robert M. Corn, "Surface Plasmon Resonance Imaging as a Tool to Monitor Biomolecular Interactions in an Array Based Format," *Applied Spectroscopy*, **57** 320A-332A (2003).
4. G. J. Wegner, H. J. Lee, G. Marriott, and R. M. Corn, "Fabrication of Histidine-Tagged Fusion Protein Arrays for Surface Plasmon Resonance Imaging Studies of Protein-Protein and Protein-DNA Interactions," *Analytical Chemistry*, **75** 4740-4746 (2003).
5. E. A. Smith, M. G. Erickson, A. T. Ulijasz, B. Weisblum, and R. M. Corn, "Surface Plasmon Resonance Imaging of Transcription Factor Proteins: Interactions of Bacterial Response Regulators with DNA Arrays on Gold Films," *Langmuir*, **19** 1486-1492 (2003).

D. Synergistic Activities

1. Editorial Advisory Board Member for *Langmuir*, *Analytical Chemistry*, *Journal of Electroanalytical Chemistry*, *Vibrational Spectroscopy* and *Analytical Sciences*.
2. Co-organizer or Program Advisory Board Member for the Nanobiotech 2004 Meeting, DNA9 DNA Computing Meeting, 2001 Conference on Electrified Interfaces, 2000 PacifiChem Symposium on Liquid/Liquid Interfaces in Analytical Sciences, 1999 Euroconference on Electrochemistry of Molecular Interfaces.
3. Member of the NRC committee on "Frontiers at the Interface between Computing and Biology".
4. Co-Inventor on US Patent #6,127,129, "Biomolecular Arrays on Metal Surfaces."
5. Co-Founder of GWC Instruments, Inc., manufacturer of surface plasmon resonance imaging instruments for biotechnological applications, and GenTel Biosurfaces, Inc.

E. Collaborators and other Affiliations

(i) Collaborators:

Anne Condon (Univ. of British Columbia); Richard Crooks (Texas A & M Univ.); Robert M. Goodman (UW-Plant pathology); Laura Kiessling (UW-Chemistry); Motoki Kyo (Toyobo Instruments); Gerard Marriott (UW Physiology); Tomonori Saeki (Hitachi); Eric Simanek (Texas A & M Univ.); Stephen Weibel (GWC Technologies); Bernard Weisblum (UW Pharmacology).

(ii) Advisors of the Principal Investigator

Graduate Advisor: Prof. Herbert L. Strauss (University of California, Berkeley)
 Postdoctoral Advisor: Dr. Michael R. Philpott (IBM San Jose)

(iii) Graduate students and Postdoctoral Associates in the past five year

Total Number of Graduate Students: 8; Total Number of Postdoctoral Associates: 6